"CLINICAL STUDY OF OCULAR MANIFESTATIONS IN PATIENTS WITH TYPE 2 DIABETES MELLITUS."

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In partial fulfillment of the requirements for the degree of

MASTERS OF SURGERY

In

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Date-

Dr. Shilpa M. Umarani

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LIST OF ABBREVIATIONS:-

BRAO - Branch retinal artery occlusion

BRVO - Branch retinal vein occlusion

CSME - Clinically significant macular edema

CWS - Cotton Wool spot

DCCT - Diabetes control and complication trial

DM - Diabetes Mellitus

DRS - Diabetic Retinopathy Study

ETDRS - Early Treatment Diabetic Retinopathy Study

FAZ - Foveal avascular zone.

H/Ma - Hemorrhage/microaneurysm

HRC - High risk characteristics.

IOP - Intra ocular pressure

IRMA - Intra retinal microvascular abnormalities

IDDM - Insulin dependent diabetes mellitus

NIDDM - Non insulin dependent diabetes mellitus

NPDR - Non proliferative diabetic retinopathy

NVD - New Vessels on disc

NVE - New vessels elsewhere in the retina.

NVI - New vessels in the iris

NVG - Neovascular glaucoma

PDR - Proliferative diabetic retinopathy

POAG - Primary open angle glaucoma.

PSC - Posterior SubCapsular Cataract

RD - Retinal detachment

WESDR - Wisconsin Epidemiologic Study of Diabetic Retinopathy

VTDR - Vision Threatened Diabetic Retinopathy

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ABSTRACT

Background & Objectives

Diabetes is a metabolic disorder characterized by hyperglycemia resulting from defects in insulin secretion, insulin action or both. ¹

The World Health Organization (WHO) estimates that worldwide, there are currently 220 million people living with diabetes. Diabetes is becoming an important chronic disease in India. Infact, India is infamously known as the Diabetes Capital of the World. In 2011, India had 62.4 million people with type 2 diabetes, compared with 50.8 million the previous year, according to the International Diabetes Federation (IDF) and the Madras Diabetes Research Foundation. The nationwide prevalence of diabetes in India now tops 9%.

The most significant complication of diabetes mellitus involving the eye and which develops in 85% to 100% of all diabetes eventually is retinopathy. Prevalence of all types of Diabetic Retinopathy depends on the duration of diabetes & level of glucose control.² A wide spectrum of ocular conditions other than diabetic retinopathy is associated with diabetes. Significant attention is paid to the retinal complications of diabetes mellitus and their potentially devastating effects on vision. Diabetes mellitus, however, is a multisystem disease, and diabetic eye disease is an end-organ response to the effects of the condition on the human system. Each portion of the eye is susceptible to the harmful effects of diabetes.³

Diabetic eye disease refers to a group of eye problems that people with diabetes may face as a complication of diabetes ranging from subtle lid xanthomas to vision threatening condition. This clinical study of ocular manifestations of patients with type

2 diabetes mellitus is undertaken in view of large spectrum of diabetic eye disease apart from diabetic retinopathy.

Aims and Objectives of this study were

- To determine the common ocular manifestations in diabetes.
- To determine ocular manifestations relating to duration of diabetes and severity of the diabetes

Methods: This is a prospective observational study on patients attending outpatient department and those referred to department of Ophthalmology at B.L.D.E. University's Shri B.M. Patil Medical College Hospital and Research Centre, Bijapur Karnataka from October 2012 to 31st march 2014 fulfilling the inclusion and exclusion criteria.

Results: Diabetic retinopathy was the most common ocular complication occurring in diabetes subjects (36.8%). The prevalence of cataract was 35.4% followed by glaucoma (4.6%) and other ocular pathologies like conjunctivitis, recurrent styes, dacrocystitis, etc. The strongest predictor for the prevalence of retinopathy in persons with type 2 diabetes is the duration of diabetes and was proven statistically significant. Both prevalence and severity of retinopathy correlates with HBA1C level in our study group. The most common type of cataract found was cortical type (41.2%) followed by senile posterior cortical (29.8%). In general, the visual prognosis following cataract surgery in diabetic patients is favourable. Diabetes predisposes to infection in different body parts, and ocular structures are not an exception.

Interpretation & Conclusion:

Diabetic retinopathy was the commonest ocular complication of diabetes,

followed by cataract and primary open angle glaucoma. The prevalence and severity of

diabetic retinopathy was higher in patients with longer duration of diabetes.

Key words: ocular complications, diabetes, diabetic retinopathy, cataract.

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INTRODUCTION

In recent decades, diabetes mellitus has progressed from a disease affecting primarily people in developed countries into a true worldwide epidemic. The World Health Organization (WHO) in 1999 defined diabetes mellitus as "a metabolic disorder of multiple etiology characterized by chronic hyperglycemia with disturbances of carbohydrate, fat and protein metabolism resulting from defects in insulin secretion, insulin action, or both." The effects of diabetes mellitus include long term damage, dysfunction and failure of various organs, resulting from microvascular and macrovascular complications.⁴

It is estimated that in 2005 nearly 200 million people worldwide had diabetes mellitus. Most of these patients are classified as having type 2 diabetes mellitus and the metabolic syndrome. Most of the increase in total numbers of diabetic patients is expected to occur in developing countries. Worldwide, about 300 million people are expected to have diabetes by 2025, affecting 5.4% of the world's population. Changing dietary and exercise trends appear to play a major role in the increasing prevalence of diabetes mellitus.

India is infamously known as the Diabetes Capital of the World. In 2011, India had 62.4 million people with type 2 diabetes, compared with 50.8 million the previous year, according to the International Diabetes Federation (IDF) and the Madras Diabetes Research Foundation. The nationwide prevalence of diabetes in India now tops 9%. By 2030, India will have 100 million people with diabetes. Diabetes Mellitus being a lifestyle disease, is on the rise in urban areas; Shankar Nethralaya reported that the

prevalence of Diabetes Mellitus in the population older than 40 years, in urban India, was around 28% in 2014.⁷

Diabetic eye disease refers to a group of eye problems that people with diabetes may face as a complication of diabetes ranging from subtle lid xanthomas to vision threatening condition. Some of these are not characteristic while others are pathognomonic for diabetes.

The most important complications are briefly listed as follows.⁸

- **Eyelids:** Xanthelasmata, Blepharitis, Recurrent hordeolum, eczema.
- **Conjunctiva :** Microaneurysms, Venous dilatation.
- **Cornea:** Folds of Descement's membrane, neurotrophic keratitis.
- ➤ **Iris**: Iritis, Iris pigments on lens, Rubeosis Iridis.
- **Pupil:** Rigid pupil, light near dissociation.
- **Lens**: Cataract, refractive errors.
- **Vitreous:** Vitreous haemorrhage, asteroid hyalosis.
- **Retina**: Diabetic retinopathy; retinal vein occlusion, Lipaemia retinalis.
- **Optic nerve :** Ischemic papillitis; Optic atrophy.
- **Extra-ocular Muscles :** Palsy caused by 3rd, 4th, 6th cranial nerve involvement.
- > **Orbit**: Mucormycosis.
- ➤ Intra-ocular pressure : Primary Open angle glaucoma, Neovascular glaucoma.

Diabetic retinopathy is the most well known ocular complication of diabetes and the leading cause of blindness among people 20–64 years of age in the U.S.⁹ It is also 6th most common cause of blindness in India (NPCB).

A Meta-analysis by Yau JVY ¹⁰ provides a global estimate of the prevalence of DR and the severe stages of DR (PDR, DME) using individual-level data from population-based studies worldwide. On the basis of the data from all 35 studies on more than 20,000 participants with diabetes, they estimated that among individuals with diabetes, the overall prevalence of any DR was 34.6%, PDR was 7.0%, DME was 6.8%, and VTDR was 10.2%. The prevalence of DR in the Chennai Urban Rural Epidemiology (CURES) Eye Study in south India was 17.6 per cent, significantly lower than agematched western counterparts. ¹¹

Numerous studies have shown that the key to decreasing diabetic complications lies with strict glucose control. Intensive glucose control reduced the risk of developing retinopathy by 54%. Neuropathy was reduced by 60% and albuminuria by 54%, respectively. With regards to type 2 diabetes mellitus, the United Kingdom Prospective Diabetes Study (UKPDS) was a randomized clinical trial involving 3867 newly diagnosed patients with type 2 diabetes. ¹² After 3 months of diet treatment alone, patients with a mean of two fasting plasma glucose concentrations of 6.1 to 15.0 mmol/L were randomly assigned to either an intensive glycemic control group or a conventional control group. This study showed a 21% reduction in risk for progression of diabetic retinopathy over a 12-year period in the intensive group. In addition, there was a 29% reduction in the need for retinal photocoagulation in the intensive group compared to the conventional group. Overall, there was a 37% reduction in the risk of an adverse microvascular complication with intensive control that was less strict than current guidelines.

The UKPDS study also demonstrated that glycemic control appears to diminish with time . Clearly, the best indicator of glycemic control continues to be hemoglobin

A1C (HBA1C). Skyler and associates have demonstrated that HBA1C levels correlate in a direct relationship with the relative risk of diabetic microvascular complications.¹³ Strict glucose control, weight control, and exercise, remain the essential elements to prevent the complications of diabetic disease.

Treatment interventions at early stages of diabetic retinopathy can reduce burden of blindness due to diabetic retinopathy. With the available cost-effective methods of early screening, appropriate strategies/models need to be developed. Such models need to have a well-developed mode for screening, diagnosis and referral at each hierarchal level beginning from primary health centres to specialized institutes for eye care. The National Program for Control of Blindness of India recommends opportunistic screening for identification of diabetic retinopathy. Every opportunity of contact with high-risk cases for diabetes and/or diabetic retinopathy should be utilized for screening, diagnosis and referral. All the stakeholders including the private sector will need to play a role. Along with this, awareness generation and behaviour change amongst the diabetics and care support systems should also be part of the overall model. A major role can be played by community participation and improving the health seeking behaviour among diabetics in order to reach a larger population and increasing the compliance for continued care.

It is the responsibility of ophthalmology community in creating awareness in the society so as to prevent and or delay these complications and to treat them at the earliest. It is in this context, we have studied the prevalence of diabetic eye complications at our hospital.

AIMS AND OBJECTIVES

- To determine the common ocular manifestations in diabetes.
- To determine ocular manifestations relating to duration of diabetes and severity of the diabetes.

REVIEW OF LITERATURE

LITERATURE SURVEY:

- Negi et al. (2003) have found that recurrent styes and blepharoconjunctivitis are
 the first indications of diabetes and should prompt tests to exclude it.
 Xanthelasma, is commonly seen in diabetics, with associated hyperlipidaemia.¹⁴
- Morikubo S ,Takamura Y , have shown that Recurrent corneal erosions in patients with diabetes are usually posttraumatic and the result of apparently mild epithelial breakdown following cataract or vitreoretinal surgery and compared with nondiabetic eyes, eyes of patients with diabetes mellitus showed more damage in corneal endothelial cells due to cataract surgery and a delay in the postoperative recovery of corneal edema.¹⁵
- Kruse A, Thomsen et al. have reported in Diabet Med, in 2006 that diabetes is a risk factor for acute infectious conjunctivitis.¹⁶
- In the Blue Mountains and Beaver Dam Eye studies, participants with diabetes were twice as likely to have glaucoma. ¹⁷ Several large epidemiological studies have reported positive associations between diabetes with primary open angle glaucoma (POAG). Glaucoma occurs more often in patients with diabetes (5%) than in the general population (2%). The risk of glaucoma has been reported to be 1.6–4.7 times higher in individuals with diabetes than in nondiabetic individuals.
- Bonavas S, Peponis V et al. ¹⁸ did a meta analysis results suggest that diabetic
 patients are at significantly increased risk of developing primary open-angle
 glaucoma. Clinicians should be aware of this possibility.

- Data from the Framingham and other eye studies (1985) indicate a three to fourfold increased prevalence of cataract in patients with diabetes under 65, and upto a two fold excess prevalence in patients with 65.
- Numerous studies have documented an association between diabetes and cataracts. 15 This association is supported by an abundance of data from clinical epidemiological studies and basic science studies. Both cross-sectional and prospective data from three population-based studies, the Beaver Dam Eye Study, the Blue Mountains Eye Study, and the Visual Impairment Project, have documented associations between diabetes and both prevalent and incident posterior subcapsular cataract and, less consistently, with prevalent and incident cortical cataracts but not nuclear cataract. The Blue Mountains Eye Study showed that impaired fasting glucose, in the absence of clinical diabetes, was also a risk factor for the development of cortical cataract. There is additional evidence that the risk of cataract increases with increasing diabetes duration and severity of hyperglycemia. Deposition of advanced glycation end products in the lens has been postulated as one possible pathogenic mechanism for diabetic cataract⁶
- Knorz M C,university of heidelbery, Germany have studied that posterior capsular opacification is the frequent complication following extracapsular cataract extraction in diabetics patients.
- Scherzter, Wang et al have shown that between 32% and 43% of neovascular glaucoma cases are caused by proliferative diabetic retinopathy ¹⁹

- Bandello F, Menchini F suggest that Diabetic papillopathy is a risk factor for the progression of diabetic retinopathy and, in rare instances, papillopathy can precede the development of AION.²⁰
- Watanabe K showed that in one study 1% of patients with diabetes were found to have cranial nerve palsies, compared with only 0.13% of control subjects. In another population-based study, patients with sixth cranial nerve palsy were six times more likely to have diabetes.²¹
- Prevalence of Diabetic retinopathy in wisconsin epidemiology study of Diabetic retinopathy (WESDR) ²² was 50%. 35-39% in United Kingdom Prospective Diabetes Study (UKPDS) in Diabetes mellitus.

HISTORY

Essential diabetes mellitus was recognized as 'madhumeha' or 'honey urine' and the symptoms of thirst; foul breath and languor was noticed by Sushruta in 5^{th} Century A.D. 23

Aretaeus; a follower of Hippocrates of Alexandria in 2nd Century A.D. gave the name Diabetes (a passer through; siphon like) to the disease. ²³

In 1778 John Rollo first noticed that the sufferers from diabetes mellitus are particularly prone to development of cataract.²⁴ Diabetic cataract was first described by Berndt in 1834.

In 1856, Jaeger first described the existence of specific retinal changes in the fundi of diabetes. ²⁵

Meckenzie in 1887 presented in clinical form and with complete post mortem pathologic data a beautiful picture of capillary microaneurysms; retinal and vitreous haemorrhage.

Nettleship in 1888 first drew attention describing retinal venous stasis, tortuosity and dilatation of retinal veins. ²⁶ In 1890, Hirschberg presented the first comprehensive classification of diabetic retinopathy. He distinguished between exudation and hemorrhagic retinopathy.

In 1921 Sir Fredrick Grass Banting and Charles Herbert Best discovered and isolated

Insulin.²³

Salus in 1928 described the condition of rubeosis iridis.²⁷

Clinical application of fundus photography was made by Bedel in 1939 to analyse photographs of 20 diabetics.²⁸

Friedenwald in 1950 introduced the Hotchkiss McManus technique of staining flat retinal preparation. Ashton in 1950 employed this technique and compared the lesions of retina and kidney in diabetics.²⁹

Poulsen in 1953, Kinsel et al in 1954 and Fust et al in 1955 showed that post partum necrosis; hypophysectomy and adrenelectomy have all been followed by improvement in diabetic retinopathy. ³⁰

Rucker in 1958 found that 6% of the 335 isolated third nerve lesions and 4% of 409 isolated sixth nerve lesions were in diabetics. ³¹

The introduction of photocoagulation by Meyer – Schwickerath in 1959 proved to be an important step in the management of diabetic retinopathy. ³²

In 1961; Novotny and Alvis introduced fundus fluorescein angiography. ³³

The past decades have witnessed major advances in the treatment and understanding of diabetes. The field has been greatly aided by organizational agreement on an upgraded terminology necessary to properly classify the heterogeneity of the diabetes syndrome.

By the 20th century end, the long term acrimonious debate over the value of good glycemic control of diabetes became resolved with the results of several large well designed and well executed clinical studies. However despite major improvement in the options for care and depth of research in affluent areas, this progress is dampened by the challenge seen in an increasing epidemic of diabetes throughout the world.

A. LIDS:

Blepharitis, recurrent hordeolum and eczema with poor healing tendencies occur in diabetes mellitus. In diabetics gangrene of the lid following hordeolum is an example. Yellowish plaques called xanthelasma which occur due to hyperlipidemia are also common in diabetics mellitus.³⁴

B. CONJUNCTIVA:

Aneurysms ³⁵ of the conjunctival blood vessels are found commonly in diabetics. The significance of conjunctival aneurysms is disputed.

C. CORNEA:

Several corneal abnormalities have been identified in patients with long standing diabetes mellitus. ³⁶ Common corneal complications-

- 1. Superficial punctuate keratopathy
- 2. Recurrent corneal erosions
- 3. Persistent epithelial defect
- 4. Filamentary Keratitis
- 5. Neurotropic keratopathy
- 6. Tear film abnormalities
- 7. Infiltrates
- 8. Endothelial damage
- 9. Increased corneal thickness
- 10. Wrinkling of descemet's membrane (Waite-Beetham lines)

Diabetic patients may have significantly decreased corneal sensitivity, and the severity of the decreased sensitivity is usually correlated positively with the severity of retinopathy. Diabetes has also been reported to be associated with dry eyes, with the severity of dry eyes correlated positively with the severity of diabetic retinopathy. Intrinsic abnormalities of the epithelial basement membrane complexes and impaired epithelial barrier function predispose to superfi cial punctuate keratitis, poor epithelial wound healing after trauma, and persistent epithelial defects. Diabetic patients are prone to recurrent corneal erosions, especially after photocoagulation and vitrectomy.

The poor adhesiveness of the diabetic corneal basement membrane may be related to changes in biochemical composition induced by increased sorbitol and fructose produced by the aldose reductase pathway.

D.IRIS:

Diabetic individuals are prone to both morphologic and vascular alterations. Iris neovascularization (rubeosis iridis) is known to occur due to frequent occlusion of small vessels. It develops as tiny dilated capillary tuffs or red spots around the pupillary margin and may be missed unless examined carefully under high magnification. The new vessels grow radially over the surface of the iris towards the angle, sometimes joining dilated blood vessels at the collarette. At this stage intraocular pressure (IOP) may be still normal in some cases and the new vessels may regress either spontaneously with good metabolic control and panretinal photocoagulation of the retina. ³⁷

E. PUPIL:

A brisk near response and a sluggish direct response to light is called light near dissociation. The most common cause of light near dissociation is diabetes mellitus. The mechanism is not well understood but may represent a selective neuropathy that involves pupillomotor parasympathetic fibres.³⁸

F. REFRACTIVE CHANGES:

Refractive changes are known to be associated with diabetes mellitus and these can be acute or chronic. Regarding chronic refractive changes in diabetic patients, Duke-Elder reported that hyperglycaemia led to the development of myopia, while hypoglycaemia led to the development of hyperopia. Several papers have reported an abrupt reduction in plasma glucose in diabetic patients with marked hyperglycaemia induced transient hyperopia.³⁹ It has been seen that the degree of hyperopia is highly dependent on the magnitude of the change in plasma glucose concentration. Lenticular swelling has been suggested as a cause of hyperopia in diabetic patients. In patients with diabetes mellitus, excess glucose in the crystalline lens is converted to sorbitol through the action of aldose reductase. Sorbitol, a sugar alcohol, has poor permeability through membranes and tends to accumulate in lens. 40 When the body rapidly changes from a hyperglycaemic to a hypoglycaemic state, sorbitol, which is less permeable and harder to metabolise, will remain in the lens longer. The difference in osmotic pressure results in the influx of water from the aqueous humour into the lens, causing lenticular swelling with hyperopic refractive changes.

G. LENS:

Diabetic lens is larger than normal, disposed to refractive changes and at increased risk of cataract.

Lens thickness

Lens thickness is greater in diabetics than in normal subjects due to cortical thickening. ⁴¹ Diabetic duration was found to be a highly significant determinant of lens dimensions, such that age-related dimensional changes for various biometric parameters were accelerated by between 52% and 121% after the onset of diabetes. ⁴² These lens changes are more pronounced in insulin dependent diabetes mellitus.

CATARACT IN DIABETES

Cataract in diabetic patients is a major cause of blindness in developed and developing countries. Recent basic research studies have emphasized the role of the polyol pathway in the initiation of the disease process. Population-based studies have greatly increased our knowledge concerning the association between diabetes and cataract formation and have defined risk factors for the development of cataract.

It has been shown that the intracellular accumulation of sorbitol leads to osmotic changes resulting in hydropic lens fibers that degenerate and form sugar cataracts. In the lens, sorbitol is produced faster than it is converted to fructose by the enzyme sorbitol dehydrogenase. The increased accumulation of sorbitol creates a hyperosmotic effect that results in an infusion of fluid to countervail the osmotic gradient.

Overall risk for cataract formation in diabetes patients is 2-4 times as compared to non diabetes subjects. ⁴³ Posterior subcapsular cataracts are particularly common in diabetic patients than other morphological types of cataract. ⁴⁴ In type 2 patients increased severity of retinopathy, diuretic usage, lower IOP, smoking, lower diastolic blood pressure was associated with higher incidence of cataract. ⁴³ Typically these are snow flake opacities, polychromatic crystals and vacuoles in lenticular cortex. Mechanism behind the cataract formation has been implicates to be the sorbitol pathway.

Cataract Surgery in Diabetes:

In individuals with diabetes, cataract occurs at a younger age and progresses more rapidly, resulting in higher rates of cataract surgery at a relatively young age.¹⁵ In the Wisconsin Epidemiologic Study of Diabetic Retinopathy, ²² the 10-year cumulative incidence of cataract surgery was 8% in those with type 1 diabetes and 25% in those with type 2 diabetes. Predictors of cataract surgery included older age, greater severity of diabetic retinopathy, and baseline proteinuria in type 1 diabetes and older age and use of insulin in type 2 diabetes.

While the overall outcomes of cataract surgery are excellent, patients with diabetes may have poorer vision outcomes than those without diabetes, and the worst outcomes may occur in operated eyes with active proliferative retinopathy or preexisting macular edema. To improve cataract surgical outcomes in patients with diabetes, adequate control of diabetic retinopathy with laser treatment before cataract surgery is necessary.

The most devastating postoperative complication is endophthalmitis, a severe intraocular infection.

H.ASTEROID HYALOSIS

These are innumerable small, white or creamy opacities in the vitreous which move through a limited range with the movement of the head. They consist of calcium containing acidific lipids which lie between the vitreous fibrils. A high frequency of diabetes has been found in groups of patients having asteroid hyalosis.⁴⁵

I. DIABETIC RETINOPATHY

EPIDEMIOLOGY

Diabetic retinopathy is among the most common ophthalmic complication of diabetes mellitus. ⁴⁶ Studies have reported that the prevalence of diabetic retinopathy in India varies from 20-31%. The estimates of the prevalence of diabetic retinopathy in India suggests that there may be nearly 5.6 million people with diabetic retinopathy in India.

Pathogenesis of DR

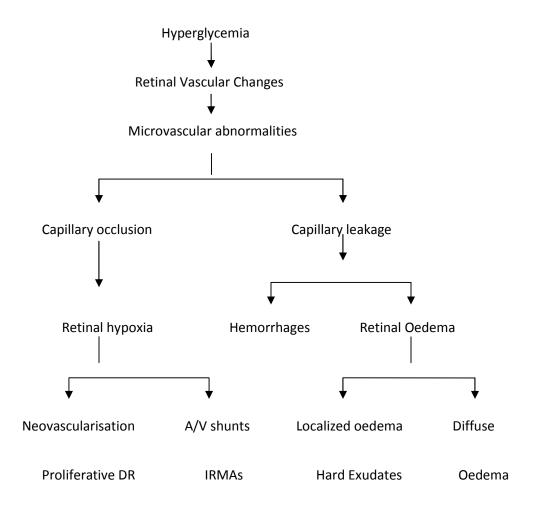


Table No. 1: Pathogenesis of Diabetic Retinopathy

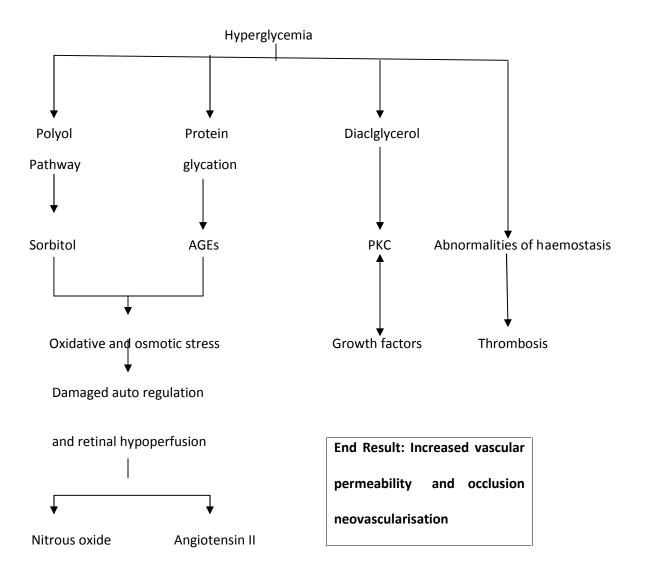


Table No. 2: Effect of Hyperglycemia on pathogenesis of DR

CLASSIFICATIONS OF RETINOPATHY:

Many classifications have been proposed for diabetic retinopathy. Some of these are

I. Hirschberg's Classification:

In 1980 Hirschberg ⁴⁷ recognised three following types

- 1. Inflammatory characterised by spots and haemorrhages
- 2. Haemorrhagic
- 3. Pigmentary

II. Ballantyne and Michaelson's Classification:

Ballantyne and Michaelson ⁴⁸ divided diabetic retinopathy into 5 stages

- 1. Microlesions –comprised of microaneurysms
- 2. Macrolesions –dot and blot haemorrhages
- 3. Vascular changes-Gross changes in veins
- 4. Destructive changes-intraocular haemorrhages, retinitis proliferans, RD, Glaucoma
- Mixed forms- diabetic changes associated with arteriosclerosis and /or hypertension.

III. Scott's Classification: 49

- Stage 1a capillary microaneurysms
- Stage 1b phlebosclerosis; loops; coils; or knots in distended veins
- Stage 11a punctuate haemorrhages with or without discrete flecks of exudates
- Stage 11b larger round or blot haemorrhages, with confluent exudates
- Stage 111a more numerous haemorrhages and exudates
- Stage 111b haemorrhage into the vitreous
- Stage 1V Retinitis proliferans, retinal detachment, gross degenerative changes.

IV. Alaert's and Slosse's Classification:

They suggested a classification ⁵⁰ which allows the fact that in some cases there is preponderance of vascular whereas in others exudative lesions are seen, although in most cases they occur side by side.

V. Lee's Classification ⁵¹:

- 1. Angiopathy type-venous dilation; microaneurysms, haemorrhage & neovascularisation
- 2. Exudative type
- 3. Proliferative retinopathy
- 4. Vitreous haemorrhage

VI. Duke Elder Classification⁴⁷:

- Pre retinopathic stage- characterised by uniform distension and turgescence of Veins
- 2. Simple diabetic retinopathy- characterised by microaneurysms, exudates, haemorrhage and venous changes.
- 3. Proliferative diabetic retinopathy- formation of new vessels in the retina and proliferation into the vitreous

VII. Peyman's Classification ⁵²:

- Non proliferative/simple diabetic retinopathy- characterised by microaneurysms, dot and blot haemorrhages ,exudates.
- 2. Proliferative/malignanant diabetic retinopathy-characterised by new vessel and glial tissue proliferation.

VIII. Clinical classification of diabetic retinopathy-Kanski ⁵³:

- 1. Background diabetic retinopathy
- 2. Diabetic maculopathy- focal; diffuse; ischaemic
- 3. Pre proliferative diabetic retinopathy
- 4. Proliferative diabetic retinopathy
- 5. Advanced diabetic eye disease
 - persistent vitreous haemorrhage
 - retinal detachment
 - opaque membrane formation
 - neovascular glaucoma

IX. Modern ETDRS:

The ETDRS in the 1980s developed a staging system which is recognised as the gold standard for clinical trials. The ETDRS classification of DR⁵⁴ is based on the grading of fundus photography of seven stereoscopic fields and the severity of the retinopathy is determined after assessment of these photographs. Each ETDRS grade can predict the prognosis for developing sight-threatening retinopathy. In particular IRMA and venous beading have been identified as high risk for the development of PDR, and cotton wool spots are low risk. The ETDRS grading scheme is too complex to be easily used in clinical practice. Therefore an adaptation of the ETDRS classification is now widely used. This classification system translates features identified by ETDRS as high and low risk into clinical practice. The level of retinopathy represents the risk of developing sight threatening DR and is used to plan follow-up and treatment.

Levels of Retinopathy:

NPDR

A. Mild NPDR

At least one microaneurysm

Definition not met for B, C, D, E, F

B. Moderate NPDR

Standard photograph Fig. No. 1

SE (CWS), VB, and IRMAs definitely present

Definition not met for C, D, E and F

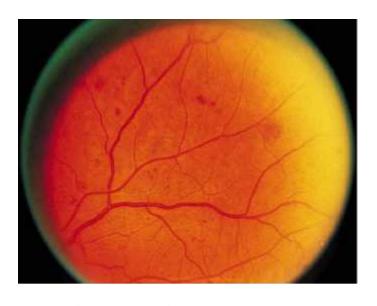


Fig No. 1 showing Moderate NPDR

C. Severe NPDR

H/Ma standard photograph Fig. No. 1 in all four quadrants

VB in two or more quadrants (Fig. No. 2)

IRMA standard photograph (Fig No. 3) in at least one quadrant

D. Very Severe NPDR

Any two or more of C

Definition not met for E, F.

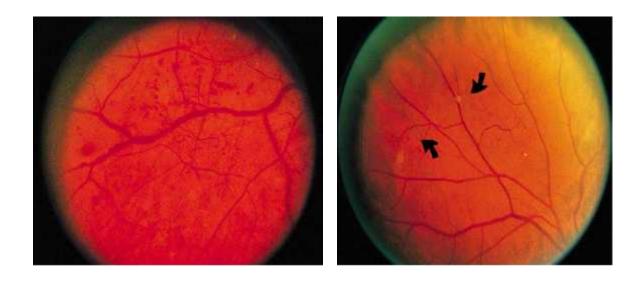


Fig No. 2: Severe NPDR

Fig No .3 : VB in \geq 2Quadrants

PDR

(Composed of: [1] NVD or NVE, [2] preretinal or vitreous haemorrhage,

[3] fibrous tissue proliferation)

E. Early PDR- New vessels

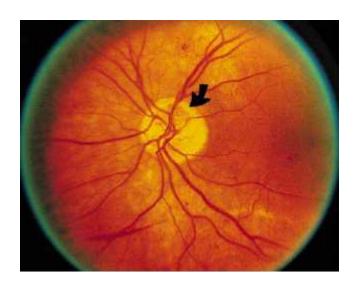
Definition not met for F

F. High-risk PDR

NVD 1/3-1/2 disc area (Fig. No. 4) or

NVD and vitreous or preretinal haemorrhage or

NVE 1/2 disc area and preretinal or vitreous haemorrhage



 ${\bf Fig~No.~4:~High~risk~PDR}$ X. International Clinical Diabetic Retinopathy Disease Severity Scale $^{55}{\bf :}$

Disease Severity Level	Clinical features			
No apparent	No abnormalities			
retinopathy				
Mild NPDR	Microaneurysm only			
Moderate NPDR	More than just microaneurysms, but less than severe NPDR			
Severe NPDR	Any of the following:			
	>20 intra-retinal hemorrhages in each 4			
	quadrants			
	definite venous beading in ≥ 2 quadrants and no			
	signs of PDR			
Very severe	All of the following:			
NPDR	>20 intra-retinal hemorrhages in each of 4			
	Quadrants			
	definite venous beading in ≥ 2 quadrants			
	prominent IRMA in ≥ 1 quadrant			
PDR	One or more of the following: neovasularisation			
	vitreous/pre-retinal hemorrhage			

Table No. 3: International Clinical Diabetic Retinopathy Disease Severity Scale

CSME:

- 1. Thickening of the retina located 500 µm from the centre of the macula or
- 2. Hard exudate with thickening of the adjacent retina located 500 µm from the centre of the macula or
- 3. A zone of retinal thickening, 1 disc area or larger in size located 1 disc diameter from the centre of the macula.

Diabetic macular oedema: divided into two broad levels:

Macular oedema apparently absent- no apparent retinal thickening or hard exudates in the posterior pole and Macular oedema apparently present- some retinal thickening or hard exudates in the posterior pole.

The below table shows the classification system for retinopathy and maculopathy; adapted from Scottish DRS grading scheme.

Retinopathy	Description
RO	No DR
R1 mild	Background DR
	The presence of ≥ 1 of the following:
	dot hemorrhages
	microaneurysms
	hard exudates
	cotton wool spots
	superficial/flame shaped hemorrhages
R2 (Observable)	Background DR-observable
	≥4 blot haemorrhages in 1 hemifield only

R3 (referable)	Background DR-referable
	Any of the following:
	> 4 blot hemorrhages in both superior &
	inferior fieldsvenous bleeding IRMA
R 4 (proliferative)	PDR
	Any of the following:
	active new vessels
	vitreous hemorrhage
	refer ophthalmology
Maculopathy	Description
Maculopathy MO	Description No blot haemorrhages/hard exudates
- '	_
- '	No blot haemorrhages/hard exudates
МО	No blot haemorrhages/hard exudates ≤2 disc diameters of the centre of fovea
МО	No blot haemorrhages/hard exudates ≤2 disc diameters of the centre of fovea Blot hemorrhages /hard exudates within a
МО	No blot haemorrhages/hard exudates ≤2 disc diameters of the centre of fovea Blot hemorrhages /hard exudates within a radius of
MO M1 (observable)	No blot haemorrhages/hard exudates ≤2 disc diameters of the centre of fovea Blot hemorrhages /hard exudates within a radius of >1 but <2disc diameters of centre of fovea

Table No. 4: Classification system for retinopathy and maculopathy.

Lesions of diabetic retinopathy:

Micro aneurysms: Originally noted by Mackenzie and Nettleship - Seen as red, round intraretinal lesions. Appear to derive from retinal capillaries and found in vicinity of occluded capillaries. Microaneurysms are clinically visible only when they are above 30 microns and the upper limit is 125 microns. More microaneurysms are seen on fundus angiography than clinically. On angiography they appear as hyperfluorescent dots. Generally they fill during early venous stage and some may leak dye to the surrounding retina.

Intraretinal haemorrhages: This appears secondary to ruptured microaneurysms, capillaries and venules. The shape of the intraretinal haemorrhage depends on the location within the retinal layer. Dot and blot haemorrhage – located in deeper layers of retina (between outer plexiform and inner nuclear layer of the retina) Flame shaped haemorrhages – located in the superficial nerve fibre layer Intraretinal haemorrhages resolve in 6-12 week period.

Hard exudates: These are collection of lipid adjacent to microvascular leakage. Intraretinal exuates appears as creamy – yellow flakes, flecks or dots. They may be arranged in individual streaks, in clusters, or in large circinate rings (if so almost always surround leaking microaneurysms or areas of capillary non perfusion). The hard exudates have an affinity for the posterior pole, particularly the macula .⁵⁶

Soft exudates: Also known as cotton wool spots, it is seen secondary to arteriolar closure. It occurs in more advanced NPDR. These are small infarcts of nerve fibre layer. These appear as fluffy white/yellow white striations of nerve fibre layer. Cotton wool spots generally resolve in 2-3 months.

Venous beading and loops

Represent focal areas of venous dilatation. Other venous abnormalities include loops and reduplication of venous segments. The degree of venous beading in ocular fundus images has been shown to be a more powerful predictor of conversion to proliferative diabetic retinopathy than any other type of retinal abnormality. Further, the degree of venous beading has been shown to be well correlated with disease progression. Reduplication of veins is the least common retinal abnormality but is of the most important prognostic significance. These changes are associated with capillary non perfusion and retinal ischemia.⁵⁷

Foveal Avascular Zone Abnormalities: Normally FAZ is approximately 350 to 750 microns in diameter. Abnormalities seen in the FAZ are irregular intercapillary spaces. Decrease vision without macular oedema warrants a suspicious outlook towards the FAZ.

Intraretinal microvascular abnormalities: Intraretinal microvascular abnormalities (IRMA) represent either new vessel growth or remodelling of pre-existing vessels through endothelial cell proliferation within the retinal tissues to act as shunts through areas of nonperfusion. They are irregular, segmental dilatation of the capillary bed running between the arteriole and venule adjacent to capillary non perfusion area. They

stain on fluorescein angiography, but usually do not leak fluorescein. These eyes are at high risk of developing PDR. ⁵⁸

Proliferative lesions: Proliferative diabetic retinopathy .As a response to retinal ischemia there is development of extra retinal fibrovascular proliferation. For the diagnosis of PDR the following lesions are necessary: presence of newly formed blood vessel and/or presence of fibrous tissue arising from retina or optic disc and extending along the inner surface of the retina or into the vitreous cavity. These immature vessels have a propensity to bleed. They also cause development of firm adhesion between retina and vitreous body, and when they contract can cause tractional retinal detachment. ⁵⁸

Neovacularisation of disc (NVD): It is seen as fine vessels bridging across physiological cup. NVD has a tendency to follow temporal arcade. Grows between the internal limiting membrane of the retina and posterior hyaloids face of the vitreous and adheres to it. As NVD matures fibrous tissue grows to accompany it. With time the fibrovascular bridge may form linking the superior and inferior temporal arcade. ⁵⁸

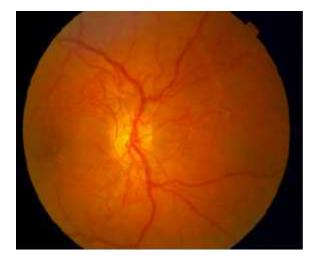


Fig No. 5: Neovacularisation of disc

New vessels arising from elsewhere (NVE): Seen as wheel like networks with vessels radiating like spokes from centre and circumferential vessel bounding the periphery. When vitreous haemorrhage does occur it assumes a classic boat like configuration.

High risk characteristics:

NVD -1/4th TO 1/3rd in extent

NVD with pre-retinal haemorrhage

NVE with vitreous haemorrhage

Advanced diabetic eye:

Advanced diabetic eye disease is the end stage of proliferative retinopathy defined by any of the following potentially blinding complication of proliferative diabetic retinopathy. ⁵⁹

- Severe vitreous haemorrhage
- New vessels in the iris
- Neovascular glaucoma
- Tractional retinal detachment

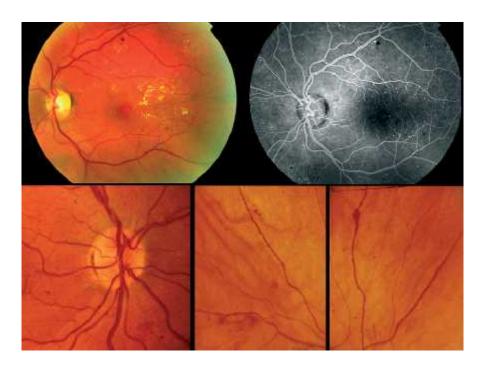


Fig No. 6: Non-proliferative diabetic retinopathy Cardinal signs are retinal microaneurysms, haemorrhages, and hard exudates; and intraretinal microvascular abnormalities; venous beading; and venous loop formation.

Preretinopathy	Mild NPDR	Moderate	PDR	Advanced DED
		NPDR		
=	-			
Abnormalities of:	Microaneurysms	Venous bleeding	NVE	NVI
	Intra-retinal	Venous loop	NVD	NVG
		venous 100p	NVD	NVG
Electrophysiology	hemorrhages			
Psychophysics	Cotton wool spots	Cotton wool	Fibrovascular	Vitreous
		spots	proliferation	hemorrhage
Retinal blood	Venous dilatation	Cluster		TRD
flow		hemorrhages		
Vascular	Exudates	IRMA		
permeability				

Table No.5: Progression of diabetic retinopathy

Glycemic Control:

Glycemic control has a strong influence on many indices of diabetic retinopathy such as prevalence of retinopathy, incidence of retinopathy, progression of retinopathy, need for focal and scatter photocoagulation, and loss of visual acuity. The influence of glycemic control is apparent in both type 1 and type 2 diabetes. The concept of a laboratory cutpoint for blood glucose normality is vague. however, 5–9.8% of patients over age 40 in developed countries have typical lesions of diabetic retinopathy even though they do not meet criteria for diabetes. Retinopathy consistent with diabetic retinopathy can develop in certain patients whose blood glucoses range in the normal range for the population; in adults over the age of 49, the 5-year incidence of such an event is 10%. This may in part reflect increased genetic susceptibility to the effects of hyperglycemia. Responsiveness to treatments for manifestations of diabetic retinopathy may also depend on glycemic control. Failure of DME to respond to focal/grid laser photocoagulation has been associated with higher glycosylated hemoglobin.

INVESTIGATIONS for a case of diabetic Retinopathy:

1. Regular:

Technique	Advantages	Disadvantages	Recommendatations
Direct	-Mobile	-Requires pupil	-Optional for
Ophthalmoscopy	-Inexpensive	dilatation	Screening
		-Small field	-Pupils must be
		-Low sensitivity	dilated
		-Less effective than	
		slit- amp	
		biomicroscopy	
Indirect	-Mobile	-Requires pupil	-Optional for
Ophthalmoscopy	-Large field	dilatation	Screening
	-Relatively	-small abnormalities	-Pupils must be
	inexpensive	may	Dilated
		be missed	
		-Less effective than	
		slit-	
		lamp biomicroscopy	
Slit-Lamp	-Large field	-Requires pupil	-Required for
Biomicroscopy		dilatation	ophthalmologic
		-Immobile	examination
		-Requires special	
		lenses	
Non Mydriatic	-Large field	-Relatively	Recommended for
retinal	-non-medical staff	inexpensive	screening
photography	can	-dark space required	
	be trained to use		
	-can be digitally		
	stored		

Table No. 6: Investigations available for Diabetic Retinopathy

2. Fluorescein angiography:

Fluorescein angiography ranks as one of the crucial diagnostic aids for detecting ocular pathophysiologic mechanisms. Chao and Flocks provided the earliest description of fluorescein angiography in 1958 and it was introduced into clinical use in 1861 by Novotny and Alvis. The interaction of pthalic acid anhydride and resorcinol results in the formation of sodium fluorescein (C20 H10 05 Na2). It has a low molecular weight. It is highly soluble in water. It absorbs light maximally between 480 to 510nm wavelength whilst its emission spectrum peaks at 530nm. Toxic reaction to fluorescein is rare. These mainly include nausea, vomitting, urticaira, skin rashes; hypotension and shock.

The various phases of fluorescein angiography normally observed are as follows.

1. Choroidal phase

- 8 to 10 seconds after injection of dye in antecubtal vein. (arm to retina time)
- Seen as a diffuse fluorescent flush
- Patchy filling may be seen

2. Retinal arterial phase

- 8.5 to 11.0 seconds after injection of dye in antecubital vein.
- Temporal artery fills somewhat earlier than the nasal one and the upper artery slightly before the lower one.

3. Capillary phase

- Around the disc are seen the radial peri-papillary capillaries.
- Macula shows the typical capillary pattern with the central avascular Zone (500 microns in diameter).
- No special pattern can be recognised in the middle and far fundus periphery.

4. Venous phase

- Earliest venous filing occurs at the posterior pole.

5. Recirculation phase

- Begins within the first minute after injection.

In diabetic retinopathy, fluorescein angiography is useful for early detection of neovascularization, areas of capillary non perfusion, intraretinal microvascular abnormalities, microaneurysms etc. It is also done before the retina is subjected to photocoagulation.

3. OCT

The development of imaging equipment is allowing new features of diabetic macular oedema to be identified, which may have implications for treatment in the future.⁶⁴ OCT has identified macular pathologies that cannot be observed by clinical examination and therefore have not been part of prognosis and treatment planning in the past.

TREATMENT OF DIABETIC RETINOPATHY

- I. Medical line of treatment
- II. Photocoagulation
- III. Surgical line of treatment

I. Medical line of treatment

Control of diabetes by oral hypoglycaemic drugs, conventional insulin treatment or continuous insulin pumps play an important role. Clofibrate has been claimed to be useful in clearing retinal hard exudates. ⁶⁵ Calcium dobesylate has been shown to have a beneficial effect on abnormal retinal capillary permeability.

Agent	Molecules tried
Antiplatelet/anti-coagulants	Aspirin
	Ticlopidine
Aldolase reductase	Ponalrestat
inhibitors	Tolrestat
GH suppressors	Octreotide
Anti-angiogenesis	Curcumin
ACE inhibitors	Candesartan
	Perindopril
PKC-beta inhibitors	Ruboxistaurin

Table No. 7: Potential molecules for the management of diabetic retinopathy

II (i) Panretinal Photocoagulation (PRP)

a. Pretreatment Discussion with Patients:

Patients usually need numerous follow-up visits and may require supplementary laser treatment.

- PRP reduces the risk of visual loss and blindness.
- Although laser treatment is effective, some patients may still develop vitreous hemorrhage. The hemorrhage is caused by the diabetes and not by the laser; it may mean the patient needs more laser treatment.
- Laser treatment often reduces peripheral and night vision; treatment may moderately reduce central vision. This short-term side effect is compensated by the significant long-term reduction in severe vision loss and blindness in laser-treated patients.

b. Lenses for PRP:

The three-mirror Goldmann contact lens has a central opening for treating the posterior pole, and side mirrors for treating the mid peripheral and peripheral retina. Disadvantages: small field of view, which requires continual manipulation of the lens to complete treatment. Spot size is set at 500µm.

Newer wide-angle contact lenses are often used. Although the image is inverted, there is a large field of view allowing for many burns with the field while easily maintaining orientation to the disc and macula. The optics of these wide-angle lenses will affect the laser spot size on the retina. Wide-angle indirect ophthalmoscopy lenses provide an inverted image, but show a large field of view and a magnification of the spot in the retina. Scatter treatment can be applied to a large area of retina in a single image, and it is easy to visualize the disk and the macula.

c. Technique for PRP:

- The pupil should be fully dilated and topical anesthesia is used. Retrobulbar subtenons anesthesia to reduce pain and decrease eye motion can be employed as necessary.
- ii. The most common wavelengths used are Argon green, blue green (generally avoided currently), and 532 green laser, using the slit-lamp delivery system. In case of hazy media, Krypton red or diode red laser (814 nm) can be used. Slit-lamp treatment is most commonly done through a contact lens but can also be performed using indirect ophthalmoscopy. For example, when treatment is given under general anesthetic.

- iii. Typical initial settings on the Argon laser would be $500~\mu m$ spot size, a 0.1 second exposure and 250-270~m w power. The power is gradually increased until a whitish reaction is obtained on the retina. The lesions are placed 1 burn width apart.
- iv. A total of 1600-3000 burns are placed in 1 or more sittings, carefully avoiding themacular area and any areas of tractional elevation of the retina. The burns are placed 2 to 3 disc diameters away from the center of the macula and 1 disc diameter away from the disc, usually outside the arcades and extended peripherally up to the equator and beyond.
- v. Laser treatment should not be applied over major retinal veins, preretinal hemorrhages, darkly pigmented chorioretinal scars, or within 1 DD (200-300 μ m) of center of macula, so as to avoid risk of hemorrhage or large scotomas.

vi. Other considerations:

- Additional photocoagulation is needed if there is evidence of worsening of proliferative DR.
- Add laser burns in between scars of initial treatment further peripherally and also at the posterior pole, sparing the area within 500-1500 μm from the center of macula.
- Favor quadrants with active new vessels or areas with intraretinal microvascular abnormalities where scars are more widely spaced and areas of severe ischemia not previously treated, such as the temporal part of the posterior pole.
- Direct treatment of NVE in between scars is possible.

d. Panretinal (Scatter) Photocoagulation Technique Following Diabetic Retinopathy Clinical Research Network (DRCRNet) Consensus.

Panretinal (scatter) photocoagulation initially consists of 1200 to 1600 burns (or the equivalent area treated with a multi-spot laser), with a spot size on the retina of approximately 500 μ m given over 1 to 3 sittings and completed within eight weeks days of initiation, As shown in the below table No.8.

Burn Characteristic	Direct/Grid	Mild Macular Grid	
	Photocoagulation(Modified	Photocoagulation technique	
	ETDRS technique)		
Direct treatment	Directly treat all leaking	Not applicable	
	microaneurysms in areas of		
	retinal thickening 500 to 3000		
	μm from centre of the macula		
Change in MA color with	Not required, but atleast a mild	Not applicable	
direct treatment	gray white burn should be		
	evident beneath all		
	microaneurysms.		
Burn size for direct treatment	50-100 μm	Not applicable	
Burn duration for direct	0.05-0.1 sec	Not applicable	
treatment			
Grid treatment	Applied to all areas with diffuse	Applied to entire are	
	leakage /non-perfusion within	described below for treatment	
	area described below for		
	treatment		

Area considered for grid	-500-300 μm superiorly,	-500-300 μm superiorly,
treatment	nasally and inferiorly from	nasally and inferiorly from
	center of macula.	center of macula.
	-500-3500 μm temporally	-500-3500 μm temporally
	from macular center.	from macular center.
	-No burns are placed ≤500μm	-No burns are placed ≤ 500
	of disc	μm of disc
Burn size for grid treatment	50-100 μm	50 μm
Burn duration for grid	0.05-0.1 sec	0.05-0.1 sec
treatment		
Burn intensity	Barely visible (light gray)	Barely visible (light gray)
Wavelength(grid and focal	Green to yellow	Green
treatment)		

Table No.8: Modified-EDTRS and the Mild Macular Grid Photocoagulation Techniques

II(ii)Laser photocoagulation

Focal laser

Possible mechanisms of action

- Direct closure of leaking microaneurysms
- Laser induced endovascular thrombosis
- Heat-induced contraction of the vessel wall Procedure compare vascular landmarks on fluoroscein angiograms are compared to the fundus.
 - Fundus is precisely located.
 - All fluorescein leaks are directly treated.
 - Laser burns are spaced one burn width apart.

- The end point is whitening or darkening of the treated area.
- Laser parameters- 100-200 microns spot size, 0.1 second duration, 50-100 Mw
 power

II (iii) Grid laser

Photoreceptor destruction increases inner retinal oxygenation resulting in vasoconstriction, decreased retinal blood flow and decreased vascular leakage

- Retinal pigment epithelium damage causes retinal capillary and venule endothelial dysfunction.
- Photocoagulation debridement of dysfunctioning RPE cells may result in enhanced blood retinal barrier
- Grid photocoagulation is performed in areas of thickened retina showing diffuse leakage or capillary dropout.
- Laser parameters- 100-200 micron spot size, 0.1 to 0.5 sec duration, 50- 100mw power, light intensity burns.
- Grid is not done within 500 microns of the macula/disc margin

Pan retinal photocoagulation for proliferative diabetic retinopathy:

It may alter the extracellular modulating factors responsible for control of intraocular neovascularisation. Destruction of oxygen consuming photoreceptors and RPE may improve inner retinal oxygenation, thus decreasing stimulus for vasoproliferative factors

Procedure – laser spots are placed outside the arcades and extend peripherally up to the equator and beyond

- Laser settings- 300-500micron spot size, 0.1 second, 220-27- mw power
- Power and duration are adjusted till gray white reaction is achieved
- Burns are placed one burn width apart; a total of 1600-2000 burns are applied in
 2-3 sittings starting first with the inferior quadrant, because if vitreous haemorrhage occurs then the inferior quadrant will be difficult to treat.

Size(on retina)	500 μm
Exposure	0.1sec recommended
Intensity	Mild white(i.e. 2+ to 3+)
Distribution of sessions	Edges 1 burn width apart
Number	1-3
Nasal proximity to disk	No closer than 500 μm
Temporal proximity to center	No closer than 3000μm
Superior/inferior limit	No further posterior than 1 burn within temporal arcades
Extent	Arcades (3000µm from macular center) to atleast the equator
Total number of burns	1200-1600n
Wavelenghth	Green or yellow(red can be used if vitreous hemorrhage)

Table No. 9: The burn characteristics for panretinal photocoagulation

III. Surgical line of treatment

Pituitary ablation by ytrrium 90 implantation or hypophysectomy advocated as a treatment for proliferative retinopathy following a case report by Poulstein in 1953 Kohner and co-workers have advocated pituitary ablation as a treatment of choice for diabetic retinopathy characterised by progressive capillary dilatation, capillary occlusion, cotton wool spot formation and severe proliferative diabetic retinopathy. ⁶⁶

(i)Vitrectomy forms a mainstay of the surgical line of proliferative treatment of diabetic retinopathy with its attendant complications.⁶⁷

Indications for vitrectomy in severe diabetic retinopathy

(a) Media opacity

- Non clearing vitreous haemorrhage
- Pre macular haemorrhage

(b) Tractions

- Progressive fibrovascular proliferation
- Tractional retinal detachment involving macula
- Combined rhegmatogenous and tractional retinal detachment
- Macular oedema associated with taut posterior hyaloids

(c) Others

- Recurrent vitreous haemorrhage
- Anterior hyaloid fibrovascular proliferation
- Goals of vitrectomy in proliferative diabetic retinopathy
- To clear the media
- To relieve all tractions on the retina
- To reattach retina where needed
- Closure of retinal breaks if any

The aims of vitrectomy:

- 1. To clear media opacities such as vitreous haemorrhage;
- 2. To remove proliferative tissue causing tractional forces on the retina;
- Prevent further neovascularization by laser endophotocoagulation and by removal
 of vitreous gel so removing the scaffold along which fibrovascular tissue can
 proliferate;
- 4. Repair retinal detachment by excising tractional membranes and removing fibrovascular tissue from the surface of the retina.

Surgical technique:

The central core vitreous gel is first removed with the vitrectomy probe. If there is no posterior vitreous separation then this is next elevated in an accessible area without tight vitreo-retinal adhesion. The optic disc is often a good location for this if no posterior vitreous separation exists elsewhere. The neovascular membrane complexes are now dissected away from the retina being careful to ensure that the dissection is in the correct plane and not in a false plane of vitreo-schisis, which can occur in PDR. This can be achieved using an 'en-bloc' dissection then delamination technique using the remaining posterior hyaloids face to exert antero-posterior traction to open up the plane of dissection. Alternatively via circumcision from the posterior hyaloid face and then segmentation of neovascular complexes followed by their delamination from the surface of the retina. 'En-bloc' dissection and delamination involve the use of horizontal cutting scissors to cut through vascular 'pegs' joining the membrane complexes to the retina. Segmentation may involve vertical cutting scissors to divide membranes between pegs in order to relieve traction between these. Once the traction has been relieved the retina is

carefully inspected for signs of retinal breaks. If identified these are treated with laser to form a surrounding chorioretinal adhesion and then gas or oil is used as tamponade. PRP is completed if deficient using indirect or endolaser and often continued up to the pars plana, which possibly reduces the rate of post vitrectomy bleeding.

Complications:

- 1. Post-vitrectomy vitreous cavity haemorrhage can occur in some patients.(10-20%)
- 2. Retinal tears and holes
- 3. Raised IOP
- 4. Cataracts can develop following vitrectomy surgery, especially in patients over 60 years.
- 5. Rubeosis-rare.

Visual prognosis post vitrectomy: Overall, about 70–90% of patients will get an improvement in vision with vitrectomy surgery with the final acuity result depending largelyon the degree of maculopathy. Less than 5% may be made worse.

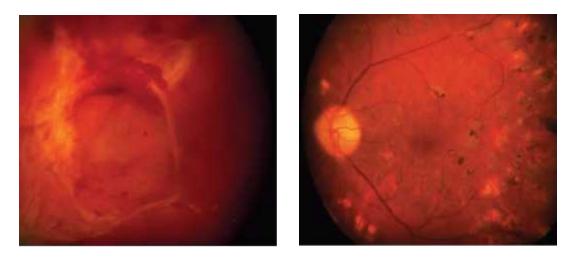


Fig No. 7: (a,b) Pre and post vitrectomy for vitreous haemorrhage and traction retinal detachment. VA postoperatively 6/12.

(ii) Intravitreal drugs:

Intravitreal triamcinolone has been used for macular oedema refractory to laser treatment. Using OCT has shown this treatment to reduce retinal thickness. Improvement in vision has been recorded in some cases. However, this effect is transient and appears not to be sustained despite repeat injections. A recent randomised clinical trial showed that laser is more effective than intravitreal triamcinolone at preventing visual loss. There are also significant side-effects with intravitreal triamcinolone, with raised intraocular pressure and cataract being very common

Intravitreal injections of anti-VEGF such as ranibizumab, pegaptanib and bevacizumab are currently being explored as therapies for DR. Several trials have shown a beneficial effect when anti-VEGF agents are used alone or combined with laser for macular oedema.⁶⁹

A recent randomised trial of 854 eyes has shown that ranibizumab combined with laser for 'centre involving' diabetic macular oedema (ie DMO that involves the fovea) is more effective than laser alone. ⁷⁰ At 1 year there was a significantly greater mean increase in visual acuity in eyes treated with ranibizumab and laser, than those who had only laser. Multiple injections were required, however, and were also necessary in the second year of the study, but the authors report no systemic side-effects attributable to the treatment. There is concern that these drugs can, though rarely, affect patients systemically to increase the risk of stroke and myocardial infarction. Additionally, VEGF may be necessary in maintaining the function of healthy retina. However, it is very likely that anti-VEGF therapy in combination with laser has a place in the management of both PDR and macular oedema.

Severity of	Presence	Follow-up	Scatter(Panretinal)	Fluorescein	Focal laser
retinopathy	of	(Months)	Photocoagulation	Angiography	
	CSME				
Normal/	No	12	No	No	No
Mild NPDR					
Mild to Mod	No	6-12	No	No	No
NPDR	Yes	2-4	No	Usually	Usually
Severe to very	No	2-4	Sometimes	Rarely	No
Severe NPDR	Yes	2-4	Sometimes	Usually	Usually
Non high-risk	No	2-4	Sometimes	Rarely	No
PDR	Yes	2-4	Sometimes	Usually	Usually
High risk PDR	No	3-4	Usually	Rarely	No
	Yes	3-4	Usually	Usually	Usually
High risk PDR Not amenable to PC	-	1-6	Not possible	Occasionally	Not possible

Table No. 10: Management recommendations for patients with Diabetes retinopathy

The recommended follow up regimen for newly diagnosed diabetic patients is as given in table no.11

	IDDM	NIDDM
1 st	5years after onset if	On diagnosis
Examination	patient's age < 30 yr.	immediately if patient's
	At puberty after diagnosis	age >31 yr.
Follow-up	Annually *	Annually*

^{*} normal at first examination

Table No. 11: Ocular examination and follow up schedule in diabetes subjects

J. NEURO OPHTHALMIC ASSOCIATIONS:

Diabetics are at risk to develop cranial mononeuropathies particularly at the occulomotor, trochlear, abducens and facial nerves .The principal metabolic defect implicated are disruption of polyol-myoinositol-aldose reductase pathways, altered lipid metabolism, advanced glycosylated end product formation, increased oxidative stress and diabetes-induced defects in growth factors. These mononeuropathies are caused by microvascular infarction of the peripheral nerves in the brain. These patients usually recover over a period of 2 to 6 months without developing aberrant regeneration.

K. ORBIT:

Patients with diabetes mellitus are known to develop infectious processes including orbital cellulitis. Orbital cellulitis is characterised by proptosis, periorbital swelling, and ophthalmoplegias, including internal ophthalmoplegia. Most patients will have a concomitant sinus disease. Although generally the most common infective organism are bacterial, in any diabetic patient, zygomycosis (or other fungal infections) must be the leading diagnosis until excluded by biopsy. Mucormycosis is though known to occur in patients with ketoacidosis, all patients with diabetes mellitus are at risk of developing this complication

L. INTRAOCULAR PRESSURE:

Primary Open-Angle Glaucoma:

Diabetes was common in participants of the Barbados Eye Survey and participants of the Baltimore Eye Survey, it was unrelated to the prevalence of open angle glaucoma. ⁷¹ In the Beaver Dam Eye Study, older-onset diabetes (30 years of age) was associated with a modest increase in the risk of glaucoma. ⁷² In the Blue Mountains Eye

Study, there was a significant association between diabetes (diagnosed from history or from elevated fasting plasma glucose level) and open-angle glaucoma. The Ocular Hypertension Treatment Study (OHTS) found that diabetes mellitus appeared to be protective against the development of POAG in patients with ocular hypertension. When patients are treated medically for POAG, it is important to recognize that the potential side effects of beta-adrenergic antagonists include reduced glucose tolerance and masking of hypoglycemic signs. Therefore, this class of antiglaucoma medications should be used cautiously in diabetic patients.

Angle-Closure Glaucoma (ACG):

One study found that patients with ACG had a higher prevalence of abnormal glucose tolerance test results compared with POAG patients and controls. ⁷⁵Patients with ACG also have a high prevalence of non-insulin-dependent diabetes. ⁷⁶ It has been hypothesized that, in some cases, ACG may be a symptom of diabetes, perhaps due to autonomic dysfunction. ⁷⁷

Hyperosmotic agents are commonly included in the medical management of acute episodes of elevated IOP. In diabetic patients, isosorbide is preferred to glycerol because isosorbide is not metabolized into sugar, while glycerol is metabolized into sugar and ketone bodies. Glycerol, therefore, can produce hyperglycemia and, rarely, ketoacidosis in diabetic patients

Despite the widespread use of panretinal photocoagulation (PRP), proliferative diabetic retinopathy (PDR) remains a leading cause of neovascular glaucoma. In 1984, Brown and associates reviewed 208 cases of neovascular glaucoma and reported that

36% were caused by central retinal vein occlusion, 32% by diabetic retinopathy, and 13% by carotid occlusive disease.⁷⁸

The reported incidence of any neovascularization of the iris (NVI) ⁷⁹ among diabetic patients ranges from 1% to 17%. In the early stages, NVI usually appears as small vascular tufts either at the pupillary margin or in the anterior chamber angle. As these vessels later spread across the iris surface, they are frequently accompanied by fibrous tissue, which contracts and may cause ectropion uveae.

Management of primary open angle glaucoma in diabetes is same as in otherwise normal patients. If the intraocular pressure cannot be controlled by medical therapy alone, trabaculectomy is the surgery of choice. Glaucoma drainage surgery in diabetic patient is associated with poor prognosis due to increased scarring at the site of surgery, secondary to increased proliferation of tenons capsule.

M. OPTIC NERVE ABNORMALITIES:

Acute optic disc edema associated with diabetes, or diabetic papillopathy, usually occurs in the second to fourth decades of life and generally shows no correlation with the severity of diabetic retinopathy. It is typically associated with mild loss of vision (20/50), and the visual field may be normal or may show defects, such as an increased blind spot, arcuate scotoma, or altitudinal scotoma. Fluorescein angiography usually demonstrates diffuse leakage at the disc. The condition presents bilaterally in approximately 50% of cases, while in other cases, the second eye may be affected as late as 3 years after initial presentation. The visual prognosis is usually good, with nearly all younger patients recovering to a visual acuity of 20/30. Visual field defects

infrequently persist. While the optic disc appearance usually returns to normal, occasionally, diffuse or segmental atrophy may result.

In diabetic papillopathy, diffuse disc swelling may mimic papilledema of raised intracranial pressure. However, careful visual field testing may demonstrate an arcuate or altitudinal defect, which would be unusual in papilledema. To avoid unnecessary PRP, it is important to differentiate the prominent telangiectasia of disc vessels often seen in diabetic papillopathy from neovascularization of the disc.

Diabetic papillopathy differs from anterior ischemic optic neuropathy (AION). Typical AION is generally seen in middle-aged to elderly frequently hypertensive persons with or without diabetes, and is characterized by acute unilateral moderate-to-marked loss of vision, swelling of the optic disc with variable nerve fiber layer hemorrhages, segmental areas of nonperfusion on fluorescein angiography, poor prognosis for visual recovery, and late optic disc pallor.

N. INFECTIOUS DISEASES:

Endophthalmitis.

The increased risk of postoperative endophthalmitis among diabetic patients is not surprising, because patients with diabetes have been demonstrated to have impaired cellular and humoral immune responses, as well as altered phagocytic capabilities. Further, it is well known that diabetic patients are more likely than nondiabetic patients to experience delayed wound healing. Thus, diabetic patients may be predisposed to wound breakdown or persistent wound defects or both, which, in turn, may increase their risk of developing endophtha lmitis.

In a case-control study of endophthalmitis following secondary intraocular lens implantation, 50% of patients had a history of diabetes compared with 5.9% of control patients. ⁸¹

Finally, vitrectomy for complications of PDR often requires longer surgical time and more instrument changes passing through the pars plana sclerotomies compared with vitrectomy for other diseases.

Mucormycosis. It is a rare orbital infection that affects diabetic patients, especially those with ketoacidosis. Orbital mucormycosis usually originates in adjacent sinuses and presents with complete internal and external ophthalmoplegia, decreased vision, proptosis, ptosis, and chemosis. Histopathologic hallmarks of the disease are vascular invasion and tissue necrosis. Clinically, affected areas are characterized by black eschars and discharge, although this may be a late finding. Mucormycosis is associated with a significant risk of mortality, ⁸² which underscores the importance of prompt diagnosis and treatment with tissue debridement and amphotericin B.

MATERIALS AND METHODS

SOURCE OF DATA

This was a prospective observational study on patients attending outpatient

department and those referred to department of Ophthalmology at

from

October 2012 to 31st march 2014

METHOD OF COLLECTION OF DATA

• Patients were selected on the basis of history, clinical examination and blood

investigations

• Patients were labeled as type 2 diabetes mellitus based on the criteria laid

down by the American Diabetes Association.

• All subjects were interviewed as per the prepared proforma and the complete

ophthalmic examination was done.

• Estimation of RBS at admission and FBS and PPBS second day of admission

SAMPLE SIZE:

With a prevalence rate of type 2 diabetes 9% at 95% confidence interval and +/- 3

margin of error, the calculated sample size was 349.

 $n=4pq/L^2$

where; n= sample size,

p= incidence rate,

q = 100-p,

L= allowable error.

53

STATISTICAL ANALYSIS:

Data was analyzed using following statistical method

- Diagrammatic presentation.
- Mean +/- SD

RESEARCH HYPOTHESIS:

It was an observational study to know the incidence and prevalence of various forms of diabetic eye disease in the study population.

Inclusion criteria

- a) Patient who has been diagnosed type 2 Diabetes Mellitus.
- b) Patients more than 30 years of age

Exclusion criteria

- a) Patient with type 1 diabetes
- b) Patients with known eye disease not related to diabetes.
- c) Patients with hypertension.
- d) Patients who have undergone treatment earlier for any form of diabetic eye disease

INVESTIGATIONS:

- Blood sugar levels(FBS & PPBS)
- Urine sugar, Albumin, Microscopy.
- HBA1C
- Slit Lamp Examination
- Fundoscopic Examination
- IOP
- Fundus Fluorescein Angiography if necessary

Does the study required any investigations or interventions to be conducted on patients or other humans or animals?

YES.

Had ethical clearance been obtained from your institution in case Of 7.3?

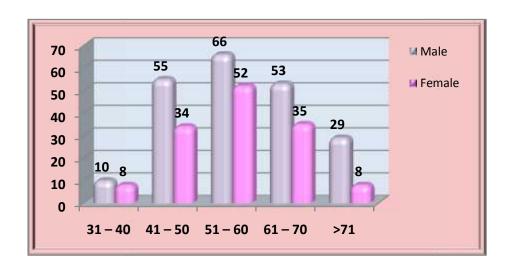
YES

OBSERVATIONS AND RESULTS

This observation study was conducted on totally 350 consecutive patients of NIDDM attending our institute. Out of 350, 211 were males (60.3%) and 139 (39.7%) were females. Among both the sexes, the age groups between 51 to 60 years had maximum number of patients (33.7%).

Table No. 12 .Distribution of Patients according to Age and Sex

Age in years	Male (%)	Female (%)	Total (%)
31 – 40	10(4.7%)	08(6.5%)	18(5.1%)
41 – 50	55(26.1%)	34(24.5%)	89(25.4%)
51 – 60	66(31.3%)	52(37.4%)	118(33.7%)
61 – 70	53(25.1%)	35(25.2%)	88(10.6%)
71 and above	29(13.7%)	08(5.8%)	37(25.1%)
Total	211(100%)	139(100%)	350(100%)

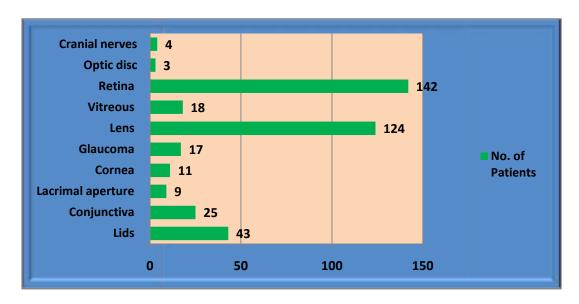


Graph No.1: Distribution of Patients according to AGE and SEX

TABLE NO. 13: We have accumulated data of all the possible diabetic ocular complications in this study population. It shows that the most common prevalent ocular complication is of retina: 142 patients (40.6%) followed by the lens 124(35.4%). We can observe that all the anatomical parts of eye are involved in diabetes.

Table No. 13. Overall prevalence of ocular involvement due to diabetes mellitus

Sr. No.	Ocular morbidity	No. of Patients	Percentage
1.	Lids	43	12.3%
2.	Conjunctiva	25	7.1%
3.	Lacrimal aperture	9	2.6%
4.	Cornea	11	3.1%
5.	Glaucoma	17	4.6%
6.	Lens	124	35.4%
7.	Vitreous	18	5.2%
8.	Retina	142	40.6%
9.	Optic disc	3	0.9%
10.	Cranial nerves	4	1.1%

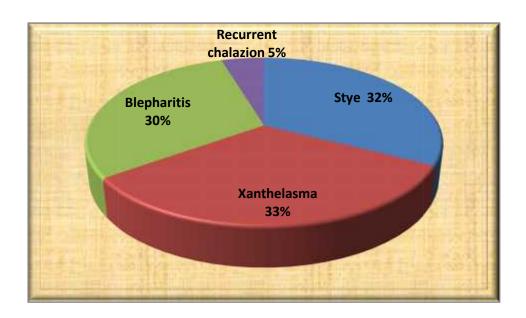


Graph No. 2: Overall prevalence of ocular involvement due to diabetes mellitus

TABLE NO. 14: 43 patients had some eyelid lesions, out of which 14 had Stye and another 14 had Xanthelesma, 13 had Blepharitis and 2 had recurrent chalazion.

Table No. 14. Distribution of patients according to type of lid lesion present

	%
14	4.0
14	4.0
13	3.7
02	0.6
43	12.3
	14 13 02

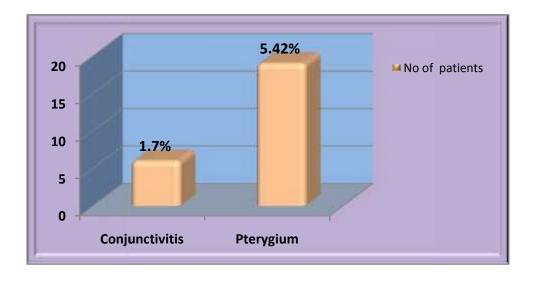


Graph No 3: percentage distribution of patients according to type of lid lesion.

TABLE NO 15: Conjunctival lesions found were pterygium in 19 patients (5.4%) and infective conjunctivitis in 6 patients (1.7%).

Table No. 15. Conjunctival lesions

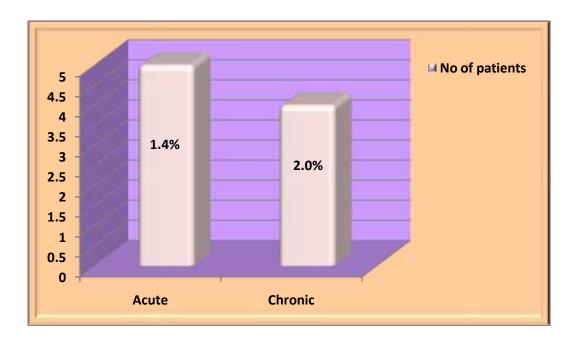
Conjunctival lesion	No of patients	%
Conjunctivitis	06	1.71
Pterygium	19	5.42



Graph No 4: Frequency and percentage distribution of conjunctival lesions

Table No. 16. Distribution of patients according to lacrimal system affection

Type of Dacryocystitis	No of patients	Percentage
Acute	5	1.4%
Chronic	4	1.1%
Total	9	2.6%

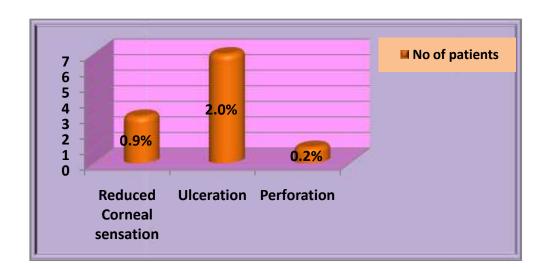


Graph no 5: Distribution of patients according to lacrimal system affection

TABLE NO 17 shows that 7 patients had corneal ulceration (2%), 3 had reduced corneal sensation (0.9%) while 1 patient (0.3%) had a corneal perforation . 4 out of these 7 ulcers were non healing bacterial type.

Table No. 17. Distribution according to type of corneal lesions present.

Corneal lesion	No of patients	Percentage
Reduced Corneal sensation	03	0.9
Ulceration	07	2.0
Perforation	01	0.2
Total	11	3.1



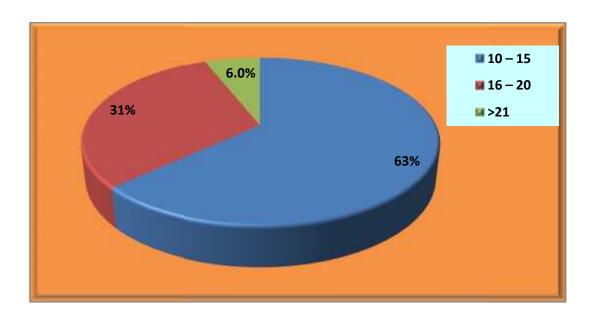
Graph No. 6: Frequency distribution of type of corneal lesions present.

TABLE NO. 18: We measured the IOP in all the patients bilaterally with an indentation tonometer and recorded the findings. None of the 350 patients had hypotonia. Most of these patients had IOP between 10 to 15 mm Hg (63%), while 21 (6%) of them had more 21 mm Hg. These findings are statistically significant (p < 0.001), which means presence of intra ocular hypertension in this population is having a positive association.

Table No. 18. Distribution of Patients according to IOP recorded

IOP mm Hg	No of patients	Percentage		
10 – 15	221	63		
16 – 20	108	31		
>21	21	6.0		
Total	350	100		
Total	350	100		

p-value = 0.0001

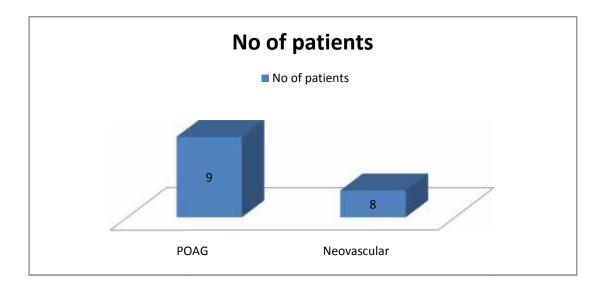


Graph No 7: Percentage Distribution of Patients according to IOP recorded.

TABLE NO. 19: 9 patients (2.7%) were diagnosed with Primary open angle glaucoma . 8 patients (2.3%) had neovascular glaucoma

Table No. 19. Distribution of patients according to type of glaucoma present.

Type of glaucoma	No of patients	Percentage
POAG	9	2.6%
Neovascular	08	2.3%
Total	17	4.9%

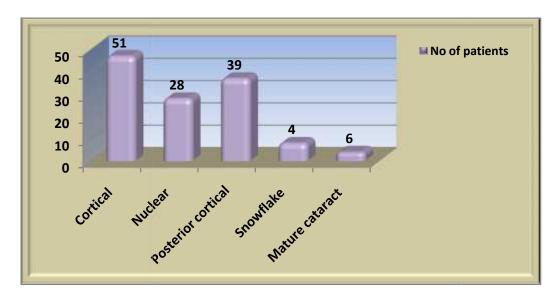


Graph No. 8. Distribution of patients according to type of glaucoma.

TABLE 20: shows the number of patients affected by lenticular opacities. 124 of the total patients had presented with cataract (35.4%) which makes it the second most common mode of ocular diabetic disease in our study. Most common variant found was cortical: 51 of them(41.2%) in the study which is more prevalent than the 39 posterior cortical (31.4%), considered to be a typical diabetic cataract. 28 patients also had nuclear cataract(29.8%). 6 patients had mature cataract (4.8%), while 4 patients (3.2%) had the characteristic snow flake appearing cataract.

Table No. 20. Distribution of patients according to type of cataract present

Type of cataract	No of patients	Percentage
Cortical	51	41.2
Nuclear	28	22.6
Posterior cortical	39	31.4
Snowflake	4	3.2
Mature cataract	6	4.8
Total	124	100



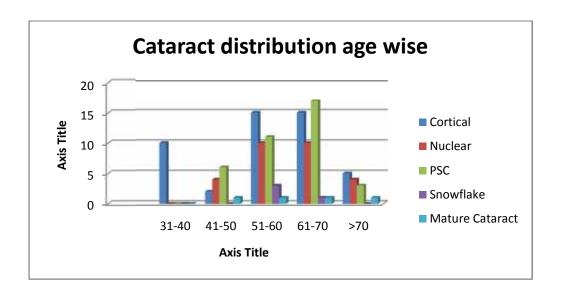
Graph no 9: Distribution of patients according to type of cataract

TABLE NO. 21: It clearly shows that most of the people develop any one of these cataracts in the age group of 51-70 years (70.9%), which coincides with that of non-diabetic population. The finding has been confirmed by statistical significant p- value of 0.008.

Table No. 21: Distribution of cataract according to age

Age (Years)	Cortical	Nuclear	PSC	Snowflake	Mature Cataract	Total cataract/Study group
31-40	10	0	0	0	0	10
41-50	2	4	6	0	1	13
51-60	15	10	11	3	1	40
61-70	19	10	17	1	1	44
>70	5	4	3	0	1	13
Total	51	28	37	04	04	124

p-value = 0.008

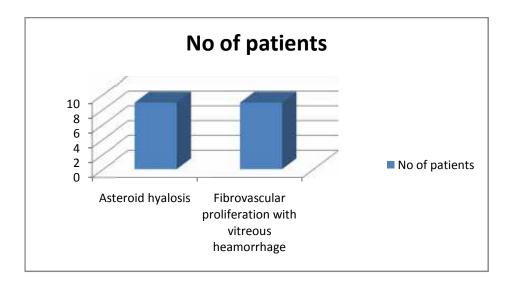


Graph No. 10. Distribution of Cataracts according to age groups

TABLE NO. 22: 9 patients had vitreous hemorrhage at presentation (2.6%), while there were another 9 patients having asteroid hyalosis.

Table No. 22. Distribution of patients according to findings in vitreous

Vitreous finding	No of patients	%
Asteroid hyalosis	9	2.6%
Fibrovascular proliferation	9	2.6%
with vitreous heamorrhage		
Total	18	5.2%

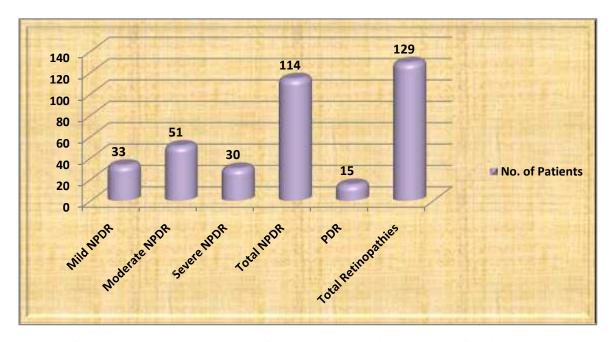


Graph No. 11. Distribution of patients according to findings in vitreous

TABLE NO. 23: We did the fundoscopy of all patients to find out the retinal changes in them. 129 patients were affected by some form of retinopathies (36.8%) making it the most common pathological condition found in the study population. 114 of them (32.6%) had NPDR while 15 had PDR (4.3%). In the NPDR group, 33 of them had mild NPDR (25.6%), 51 had moderate (39.5%) and 30 had severe NPDR (23.5%). 18 of these patients had CSME (5.6%).

Table No. 23. Distribution of patients according to type of retinopathy.

Type of Retinopathy	No. of Patients	Percentage
Mild NPDR	33	25.6
Moderate NPDR	51	39.5
Severe NPDR	30	23.2
Total NPDR	114	88.3
PDR	15	11.6
Total Retinopathies	129	100



Graph no 12: Distribution of patients according to type of retinopathy

TABLE No. 24: In this study, most of the patients were found to be in the age group of 51-60 years (33%). The average age of the patients studied was 50.9yrs. A significant association was found between age group and retinal complication of diabetes mellitus.(p value=0.001)

Table No. 24: Distribution of patients according to age group.

Diagnosis		Age					
		31-40	41-50	51-60	61-70	>71	Total
Mild NPDR	Frequency	01	03	14	10	05	33
	Percentage	6.3	10.7	24.6	23.3	22.7	19.9
Moderate NPDR	Frequency	00	10	20	12	09	51
	Percentage	00	35.7	35.1	27.9	40.9	30.7
Severe NPDR	Frequency	12	02	06	08	02	30
	Percentage	75.0	7.1	10.5	18.6	9.1	18.1
PDR	Frequency	01	03	04	04	03	15
	Percentage	6.3	10.7	7.02	9.3	13.6	9.03
CSME	Frequency	0	6	7	4	1	18
	Percentage	00	21.4	12.3	9.3	4.5	10.8
OTHERS	Frequency	2	4	6	5	2	19
	Percentage	12.5	14.3	10.5	11.6	9.1	11.4
TOTAL		16	28	57	43	22	166

p-value = 0.0001

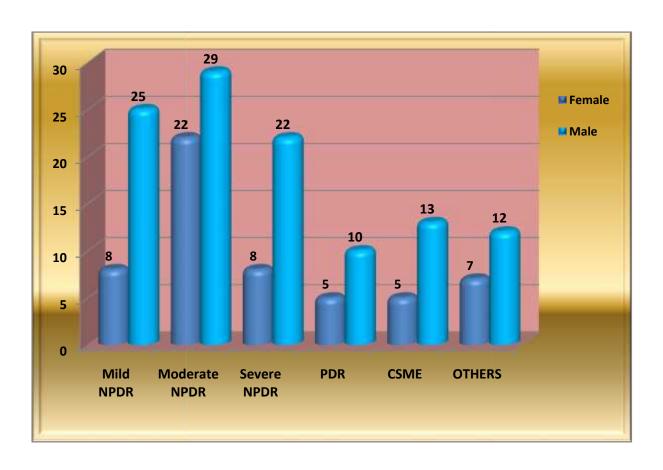
TABLE NO. 25: Shows the prevalence of the same retinal lesions in accordance with the sexual distribution. In the present study 211 patients were male while 139 patients were female. Of these, 111 men and 55 women were affected by some kind of retinal disease. We found significant association between sex and ocular complication of diabetes mellitus (p-value < 0.001) wherein both mild NPDR and severe NPDR were more common in males than in females. Our study showed no difference in prevalence of PDR in either sexes (9% each), while slightly more common CSME in men (11.7%) than in females (9.1%).

The prevalence of combined retinal lesions were however more common in males (211, 52.6%) than females (120, 39.6%)

Table No. 25: Distribution of patients according to sex

Diagnosis			Sex	
		Female	Male	Total
Mild NPDR	Frequency	08	25	33
	Percentage	14.5	22.5	19.9
Moderate NPDR	Frequency	22	29	51
	Percentage	40.0	26.1	30.7
Severe NPDR	Frequency	08	22	30
	Percentage	14.5	19.8	18.1
PDR	Frequency	05	10	15
	Percentage	9.1	9.0	9.03
CSME	Frequency	05	13	18
	Percentage	9.1	11.7	10.8
OTHERS	Frequency	07	12	19
	Percentage	12.7	10.8	11.4
TOTAL		55	111	166

p-value= 0.001



Graph No. 13: Distribution of retinopathy patients according to sex

TABLE NO. 26: Shows the prevalence of retinopathies with the duration of diabetes. 11.7% of people are affected by Mild NPDR within 5 years of getting type 2 Diabetes, which increases significantly to 23.7% and 25% by 10 years and thereafter. Similarly, Moderate NPDR rises from 25% to 28.9% and 36.8% in same interval. The severe NPDR type prevalence rises from 8.3% to 18.8% within 5 years to more than 10 years of diabetes. Also, PDR prevalence increased from 1.7% to 13.2%.

Table No. 26. Co relation between duration of diabetes and type of retinopathy

Diagnosis		Duration of DM			
		0-5	6-10	>10	Total
Mild NPDR	Frequency	07	09	17	33
	Percentage	11.7	23.7	25.0	19.9
Moderate NPDR	Frequency	15	11	25	51
	Percentage	25.0	28.9	36.8	30.7
Severe NPDR	Frequency	17	07	06	30
	Percentage	8.3	12.4	18.8	18.1
PDR	Frequency	01	05	09	15
	Percentage	1.7	13.2	13.2	9.03
CSME	Frequency	07	02	09	18
	Percentage	11.7	5.3	13.2	10.8
OTHERS	Frequency	13	04	02	19
	Percentage	21.7	10.5	2.9	11.4
TOTAL		60	38	68	166

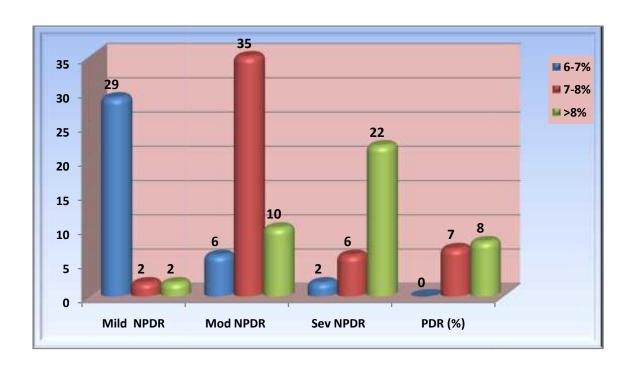
p-value = 0.002

TABLE NO 27: HBA1C has been known as a marker of glycemic control. We used this serum marker to identify the relation between the levels of uncontrolled hyperglycemia with prevalence of different retinopathies. The study yielded a highly significant result. (p- value <0.0001). Our study found that with increasing HBA1C levels, the prevalence of retinopathies increases. From Table No.27, it is clear that 16.1%, 65.8% and 95.5% prevalence was observed for HBA1C of 6-7%, 7-8% and > 8% respectively. It is also seen that the mild NPDR (87.9%) is found clustering at lower levels of HBA1C (<8%), moderate NPDR(68.6%) is most prevalent between 7-8% of HBA1C levels and Severe NPDR(73.3%) is most common at > 8% levels.

Table No. 27. Co- relation between HBA1C levels and prevalence of retinopathy

HBA1C	No. of	Mild NPDR	Mod NPDR	Sev NPDR	PDR (%)	Total
	Patients		(%)	(%)		
6-7%	230	29(87.9)	6(11.7)	02(6.7)	00(0)	37(16.1%)
7-8%	76	02(6.1)	35(68.6)	06(20.0)	07(46.7)	50(65.8%)
>8%	44	02(6.1)	10(19.6)	22(73.3)	08(53.3)	42(95.5%)
Total	350(100)	33(100)	51(100.)	30(100)	15(100)	129(100)

p-value < 0.0001



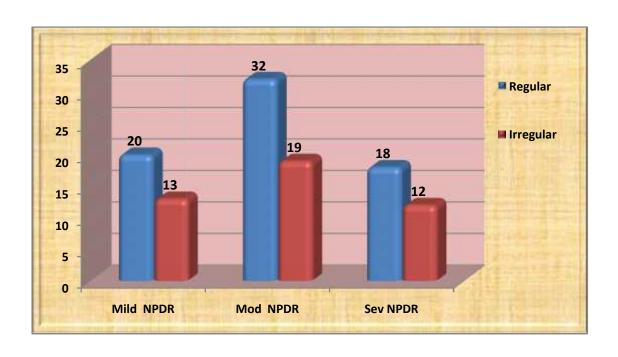
Graph No. 14. Co- relation between HBA1C levels and prevalence of retinopathy

TABLE NO. 28: We also did a comparative study of prevalence of NPDR in patients accordance to their diabetes treatment compliance. Most of these patients had been advised either oral hypoglycemic in the form of metformin, glipizide, gluconorm, etc. or subcutaneous insulin. 250 of our patients (i.e. 65.1%) were taking regular treatment, while 90 (34.9%) of them were not regular with their medications. Apparently, 60.6% of Mild NPDR patients were on regular treatment than 39.3% who were not. In the same way, both moderate and severe variety of NPDR were found more commonly with regular treatment than irregular ones. The p- value of this is 0.964, which indicates dissociation between the two.

Table No. 28. Severity of NPDR versus regular and irregular treatment

Treatment		Mild NPDR	Mod NPDR	Severe	Total
				NPDR	
	Frequency	20	32	18	60/249
Regular					
(250/350)	%	60.6	62.7	60.0	73.6
	Frequency	13	19	12	44/90
Irregular					
(90/350)	%	39.3	37.3	40.0	39.4
	Frequency	33	51	30	114
Total					
(350)	%	100	100	100	100

Chi square=0.07 p-value=0.964



Graph No. 15. : Severity of NPDR versus regular and irregular treatment

TABLE NO. 29: Other retinal lesions like ARMD was present in 4 of them, CRVO,BRAO, CRAO & Retinal detachment in 2 each, while 1 patient had BRVO. These 13 patients altogether does not make a significant statistics.

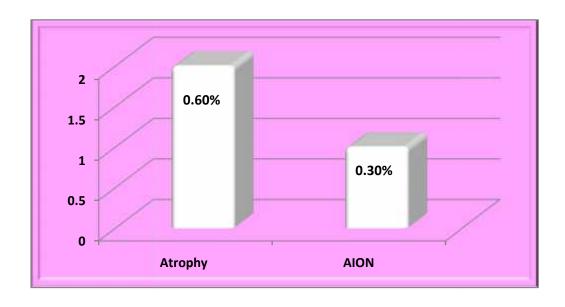
Table No. 29. Distribution of patients according to other retinal lesions

Other retinal lesions	No of patients	%
ARMD	04	1.1%
CRVO	02	0.6%
BRVO	01	0.3%
BRAO	02	0.6%
CRAO	02	0.6%
Retinal detachment	02	0.6%
Total	13	3.7%
Total	13	3.7%

TABLE NO.30: 2 of the patients also had optic nerve atrophy while 1 had an acute inflammation

Table No. 30. Number of Optic nerve lesions

Optic nerve lesions	No of patients	%	
Atrophy	2	0.6%	
AION	1	0.3%	

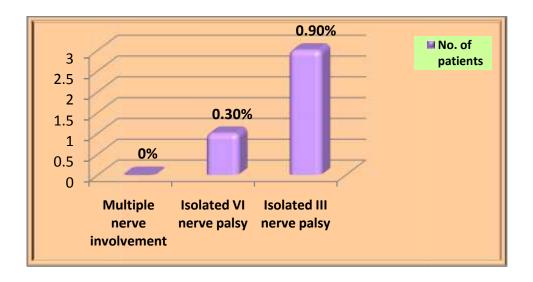


Graph no. 16. Number of Optic nerve lesions.

TABLE NO. 31: There were 3 patients with isolated 3rd cranial nerve palsy with no CNS involvement, while another patient had 6th nerve palsy with no other neurological deficits.

Table No.31. Distribution of patients according to cranial nerve involvement

Cranial nerves involved	No. of patients	%
Multiple nerve involvement	0	0%
(III,IV,V,VI,VII)		
Isolated VI nerve palsy	1	0.3%
Isolated III nerve palsy	3	0.9%



Graph No 17. Distribution of patients according to cranial nerve involvement.

DISCUSSION

In this study most of the patients were found to be in the age group of 51-60 years (33.7%). All the patients were aged above 30 years. There were 211 males and 139 females in the study group. The average age of the patients studied was 54.9 years for males and 56.2 years for females. Comparable age distribution was found in the Wisconsin epidemiologic study of diabetic retinopathy. ²² The average duration of diabetes in the study group was 6.4 years in males and 7.3 years in females.

In the present study we found retinal lesions were the most common ocular complication occurring in diabetes subjects (40.6%), of which retinopathies of all kind constituted majority of them(36.8%). The prevalence of cataract was 35.4% followed by glaucoma (4.6%) and other ocular pathologies like conjunctivitis, recurrent styes, dacrocystitis, etc. Stanga PE, 83 in their review of literature in 1999, have found that retinopathy is the most common ocular complication of long standing diabetes mellitus followed by other lesions like cataract, uveitis, neuro-ophthalmitis, etc. It is generally recognised in existing literature that retinopathy is the most common ocular complication in type 2 diabetes. Our study confirms that diabetic retinopathy in its various forms is the most common complication of diabetic eye disease in India.

Different eye lid lesions were noted in our study such as recurrent stye (4%), Xanthelesma (4%), Blepharitis (3.7%), recurrent chalazion (0.6%), etc. Xanthelesma are rare in the general population. Variable incidence of 0.56%-1.5% has been reported from the western developed nations. ⁸⁴The incidence in our study is 4%, which is explained by the fact that xanthelesma is a cutaneous marker for underlying diabetes and dyslipidemia.

Diabetes predisposes to infection in different body parts, and ocular structures are not any different from it. Thus, recurrent styes (4%),blepharitis(3.7%), conjunctivitis(1.7%) and dacrocystitis(2.6%) can be explained in our group of patients. Kruse, have confirmed in their case control study that diabetes is a risk factor for acute infectious conjunctivitis, with an Odds Ratio (OR) of 1.24 in diabetics. We did not get a study attributing causal relation or direct association between diabetes and the above said other lesions.

There were 19 patients with Pterygium in our study group, which makes it 5.42% prevalence. Two different studies, one by Asokan, (Chennai group, 2012) ⁸⁶ and Hua Zhong⁸⁷ (study of adult chinese population) have statistically found out no association between prevalence of pterygium and diabetes. We need to find out the disparity among our population with prevalence of pterygium.

Microbial corneal ulcer is a sight-threatening condition and one of the major causes of blindness. Diabetic patients with microbial keratitis are at an increased risk than non-diabetic persons and require immediate medical attention. In this context, recording the local microbiological status of microbial corneal keratitis would be more useful for clinicians / ophthalmologist as to provide effective treatment. The present study evaluated presence of corneal ulcers in the study population, but did not record the microbiology of diabetic subjects who were diagnosed with corneal ulcer of bacterial / fungal etiology. There were 7 patients with corneal ulcer of which 5 were bacterial type and 1 was nonhealing. There was 1 patient presenting with corneal perforation. This signifies the need for appropriate microbiological diagnosis of microbial corneal ulceration in order to provide prompt and effective medical remedy and to avoid empirical treatment.

Nielsen found that the prevalence rate of primary open angle glaucoma and ocular hypertension was 6.0% and 3.0%, respectively in diabetes type 2 patients. Neovascular glaucoma occurred in 2.3% of all diabetics .⁸⁸ In our study, we had 21 patients, i.e. 6% with ocular hypertension (IOP > 21mmHg), 8 patients (2.3%) were of Neovascular type and rest being POAG (2.6%). Thus, the prevalence is similar in both studies.

Cataract:

Persons with diabetes mellitus have been found to be at increased risk of developing cataracts when compared with non diabetic persons. The report by Klein describes the study of characteristics which may be related to this problem in a population-based sample of diabetic persons. Prevalence of surgical aphakia and cataract increased with increasing age in both younger and older onset diabetic persons. ⁸⁹ Nearly two thirds of the Indian diabetic population showed evidence of cataract; mixed cataracts were more common than the monotypes ones in a recent study by Shankar Nethralaya. ⁹⁰ 35.4% of our study population had cataract which is lesser than the Shankar Nethralaya group. 20 patients in our group had mixed type of cataracts (14.7%) which is lesser than the total number of monotypes. The most common type of cataract found was cortical type (41.2%) followed by senile posterior cortical (29.8%). The characteristic snow flake cataract of diabetes is found in only 3.2% of cataract patients, which is of similar lower incidence in many studies.

Data from the Framingham and other eye studies indicate a three to fourfold increased prevalence of cataract in patients with diabetes under the age of 65, and up to a twofold excess prevalence in patients above 65. The risk is increased in patients with longer duration of diabetes and in those with poor metabolic control. Cataracts may be reversible in young diabetics with improvement in metabolic control. The most frequently seen type of cataract in diabetics is the age-related or senile variety, which tends to occur earlier and progresses more rapidly than in

nondiabetics. Presence of mostly cortical variant in our study could reflect environmental or genetic factors. Most of the people develop any one of these cataracts in the age group of 51-70 years (42.7%), which coincides with that of 3 times that of non-diabetic population.⁹¹

Recent studies on cataract surgery in diabetics tend to report a lower incidence of complications and better visual outcomes. This trend of improvement may be due to better preoperative management of retinopathy, evolutions in operative techniques and appreciation of the importance of systemic factors such as glycemic and hypertensive control.

In general, the visual prognosis following cataract surgery in diabetic patients is favorable. Diabetic patients with little or no retinopathy enjoy the same good prognosis as individuals without diabetes. However, in the presence of significant diabetic retinopathy, postoperative visual acuity may be suboptimal and the results of surgery may be disappointing. Presence of CSME and poor preoperative visual acuity (reflecting diabetic maculopathy, ischemia and traction) have been recognized as risk factors for poor postoperative visual acuity following cataract surgery. 92

We operated on all patients with visual acuity of < 6/36, 2 patients had posterior capsular opacity, 1 had conjunctivitis, and rest did not have any major problems. We infer that cataract surgery in diabetes is safe and good results can be expected as in any other group.

Retinopathy:

The prevalence of retinopathy in our study population was 36.8%, of which NPDR were 32.6 % and PDR were 4.3%. Studies have reported that the prevalence of diabetic retinopathy in India varies from 20-31 %. The Aravind Eye Disease Survey in southern India reported a retinopathy prevalence of 27% in a population aged 30 years or older with self-reported diabetes, ⁹³ similar to the 22% prevalence reported from another population-based study in an urban population in Hyderabad, India. ⁹⁴ The prevalence of DR in the Chennai Urban Rural Epidemiology (CURES) Eye Study in south India was

17.6 per cent, significantly lower than age-matched western counterparts. Thus, our study shows a higher prevalence of retinopathies than other Indian studies.

A recent pooled study examined the prevalence of retinopathy among people 40 years and older from eight population-based studies, including the WESDR. ⁹⁵ The studies included in these meta-analysis used standardized methods to grade retinopathy from fundus photographs and estimated an overall prevalence of retinopathy of about 40% and a prevalence of sight-threatening disease.

The prevalence of NPDR was significantly higher in female diabetes patients (34.3%) than in male diabetes patients (31.8%). Wisconsin Epidemiological study of Diabetic Retinopathy had also found higher prevalence of Diabetic Retinopathy in females. There was no significant difference in prevalence of PDR, CSME or other lesions. Thus, females are at higher risk of NPDR than males.

In the younger onset group in the WESDR, the prevalence of any retinopathy was 8% among participants with diabetes duration of 3 years, 25% for 5 years, 60% for 10 years, and 80% for 15 years. ²² In the present study, the prevalence of proliferative retinopathy was 1.7% for those with diabetes duration of 5 years, increasing to 13.2% for 10 years. In our study, the prevalence of NPDR varied from 26.1% in persons who had diabetes for less than five years to 32.3% in persons who had diabetes for 5 to 10 or more years and 78.7% in more than 10 years.

Increased incidence of CSME was noted as the duration of diabetes increased (11.7% to 13.2% over the same duration intervals of diabetes.) Similar increased incidence of CSME with increased duration of diabetes was noted in a study by Varma. ⁹⁶ The findings are thus consistent with the fact that the strongest predictor for the prevalence of

retinopathy in persons with type 2 diabetes is the duration of diabetes and was proven statistically significant (p-value < 0.002)

Two landmark multicentered clinical trials, the DCCT and the UKPDS assessed the relationship between glycemic control and vascular complications of diabetes. One of the most important predictive factors for diabetic retinopathy is the level of glycemic control. The WESDR showed that both the younger-onset and older-onset patients with diabetes who had no retinopathy had significantly lower mean glycosylated hemoglobin values than those patients with retinopathy. 95 Patients with higher glycosylated hemoglobin values were shown to have a higher risk of retinopathy, such that those with mean HbA1c levels over 12% were 3.2 times more likely to have retinopathy after 4 years than subjects with HbA1c levels under 12%. 97 Our study population exhibits a similar pattern: 16.1% of diabetic patients with HBA1C between 6-7% had some form of DR, while the prevalence rises to 65.8% and 95.5% with HBA1C of 7-8% and more than 8% (i.e. uncontrolled type) respectively. It is also seen that the mild NPDR is found clustering at lower levels of HBA1c (<7 %), moderate NPDR is most prevalent between 7-8 % of HBA1C levels and Severe NPDR is most common at > 8 % levels. Thus, both prevalence and severity of retinopathy correlates with HBA1C level in our study group.

In our study, subjects taking regular treatment (oral tablets/insulin) had a combined NPDR prevalence of 24% which is lower when compared to the group not taking treatment regularly (48.9%). Regular treatment and follow up should be stressed in the management of diabetes mellitus. In a study conducted by Alan MJ ⁹⁸ Compared with individuals with continuous follow-up, patients with irregular clinical visits were more likely to be from families of lower socioeconomic class levels, have a parental history of

separation and divorce, and were members of families that reported being least openly expressive of positive emotions. Poor glycemic control in year 1 was associated with irregular follow-up in years 2 through 4. Patients with irregular follow-up continued to have worse glycemic control in years 2 through 4 than patients with continuous follow-up. Retinopathy occurred more frequently among those in the irregular follow-up group.

Rush JA showed that diabetes is the underlying cause in 25–30% of patients aged 45 years and older who develop acute extra ocular muscle palsy .⁹⁹ In a study by Watanabe K, 1% of patients with diabetes were found to have cranial nerve palsies, compared with only 0.13% of control subjects.²¹ 1.1% of our patients (i.e. 4 of them) had cranial nerve palsy, same as with the Watanabe study.

We found a prevalence of 0.3% BRVO amongst diabetics in our study while BRVO were detected in 0.79% in a study conducted by Kawasaki R. 100

CONCLUSION

- Retinal lesions (like Retinopathies, CSME, BRVO,BRAO, ARMD and RD) were the most common ocular complication occurring in diabetes subjects (40.6%), of which retinopathies of all kind constituted majority of them (36.8%).
- The prevalence of cataract was 35.4% followed by glaucoma (4.6%) and other ocular pathologies like conjunctivitis, repeated styes, dacrocystitis, etc
- Xanthelesma are rare in general population (0.56%-1.5%), but are found more commonly in diabetic patients (4%).
- Diabetes predisposes to infection in different body parts, and ocular structures are
 not an exception. We could not find a attributable cause, but others have found
 diabetes as a risk factor for such infective pathologies.
- Pterygium was found to have a high prevalence in our study (5.42%), but others have not found an association of it with diabetes.
- Diabetic patients with microbial keratitis are at an increased risk than non-diabetic persons and require immediate medical attention.
- The prevalence of Primary open angle glaucoma was 2.6% and 2.3% had neovascular glaucoma.
- 35.4% of our study population had cataract which is lesser than the Shankar Nethralaya group. Monotypes were more common than the mixed type of cataracts.
- The most common type of cataract found was cortical type (41.2%) followed by senile posterior cortical (29.8%). In general, the visual prognosis following cataract surgery in diabetic patients is favorable.

- The prevalence of retinopathy in our study population was 36.8%, of which NPDR were 32.6% and PDR were 4.3%. Our study shows a higher prevalence of retinopathies than other Indian studies
- The prevalence of NPDR was significantly higher in female diabetes patients (34.3%) than in male diabetes patients (31.8%).
- The prevalence of NPDR varied from 26.1% in persons who had diabetes for less than five years to 32.3% in persons who had diabetes for 5 to 10 or more years and 78.7% in more than 10 years.
- The strongest predictor for the prevalence of retinopathy in persons with type 2 diabetes is the duration of diabetes and was proven statistically significant (p-value < 0.0001).
- 16.1% of diabetic patients with HBA1C between 6-7% had some form of DR, while the prevalence rises to 65.8% and 95.5% with HBA1C of 7-8% and more than 8% (i.e. uncontrolled type) respectively. It is also seen that the mild NPDR is found clustering at lower levels of HBA1c (<7 %), moderate NPDR is most prevalent between 7-8 % of HBA1C levels and Severe NPDR is most prevalent at > 8 % levels. Thus, both prevalence and severity of retinopathy correlates with HBA1C level in our study group.
- 1.1% of our patients (i.e. 4 of them) had cranial nerve palsy, same as with the Watanabe study and higher than in general population (0.13%).

SUMMARY

Diabetes is a group of metabolic disorder characterized by hyperglycemia resulting from defects in insulin secretion, insulin action or both. The nationwide prevalence of diabetes in India now tops 9%. By 2030, India will have 100 million people with diabetes. Diabetes mellitus, is a multisystem disease, and diabetic eye disease is an end-organ response to the effects of the condition on the human system. Each portion of the eye is susceptible to the harmful effects of diabetes. This clinical study of ocular manifestations of patients with type 2 diabetes mellitus was undertaken in view of large spectrum of diabetic eye disease apart from diabetic retinopathy.

This was a prospective observational study on 350 type 2 diabetes patients. Collected data of each patient including detailed diabetes history, ocular complaints and did complete ophthalmological examination. The data gathered was tabulated into a master chart and statistical analysis done with SPSS for relevant tables.

Significant Results included:

- All ocular structures can be affected by some diabetic complication.
- The most common prevalent ocular complication in type 2 diabetes is of retina: 142 patients (40.6%) followed by the lens 124(35.4%).
- Diabetics have been found to be at increased risk of developing cataracts when compared with nondiabetic persons. 35.4% of our study population had cataract which is lesser than the other South Indian studies.
- The most common type of cataract found was cortical type (41.2%) followed by senile posterior cortical (29.8%).

- The prevalence of retinopathy in our study population was 36.8%, of which NPDR were 32.5% and PDR were 4.3%. Our study shows a higher prevalence of retinopathies than other Indian studies (20-31%).
- The strongest predictor for the prevalence of retinopathy in persons with type 2 diabetes is the duration of diabetes.
- Patients with higher glycosylated hemoglobin values (HbA1C >8 %) were shown to have a higher risk of retinopathy.

Appropriate treatment of diabetes and optimal metabolic control are key goals in the prevention of many ocular complications of diabetes. At the same time, following the various guidelines to screen and detect these complications will make a difference in the final outcome of the patients.

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ANNEXURE I- ETHICAL CLEARANCE





B.L.D.E. UNIVERSITY'S SHRLB.M.PATIL MEDICAL COLLEGE, BIJAPUR-586 103 INSTITUTIONAL ETHICAL COMMITTEE

INSTITUTIONAL ETHICAL CLEARANCE CERTIFICATE

The Ethical Committee of this college met on 18-10-20/2 at 3-30,000
to scrutinize the Synopsis of Postgraduate Students of this college from Ethical
Clearance point of view. After scrutiny the following original/corrected &
revised version synopsis of the Thesis has been accorded Ethical Clearance.
Title clinical story of orman manifestation
m patients with type 2 diabetes wellitus
Name of P.G. student Dr Stilps M. GMAYani
Ophstalmelogy
Name of Guide/Co-investigator Dr Vallabka. K
1880 F E- HOD. Ophthathology
H=

DR.TEJASWINL VALLABHA
CHAIRMAN
INSTITUTIONAL ETHICAL COMMITTEE
BLDEU'S, SHRLB.M.PATIL
MEDICAL COLLEGE, BIJAPUR.

Following documents were placed before E.C. for Scrutinization
1) Copy of Synopsis/Research project.
2) Copy of informed consent form
3) Any other relevant documents.

ANNEXURE 2-

INFORMED CONSENT FORM

Title of the study: "A Clinical Study of the Ocular Manifestations in patients with type 2 Diabetes Mellitus." Name of the participant: Name of the principal investigator: Name of the institution: Hospital and Research Centre I ______aged____yrs attending ophthalmology OPD in SHRI BLDEA Medical College, Hospital and Research Center, BIJAPUR, have been explained in my own language the need for clinical examination and evaluation of my eyes and investigations (fundus fluorescein angiography) that I may have to undergo as a participant in the study.

Consent form for Fundus Fluorescein Angiography:

Fluorescein angiography is a diagnostic test which uses special camera to photograph the structures of the back of the eye. This test is used to detect any leakage or damage to the blood vessels that nourish the retina.

Flourescein dye glows in visible light and is injected into a vein in the arm of the patient ,the dye reaches the retinal vessels through the vascular system. This test does not involve the use of X-ray or any other harmful form of radiation.

Fundus fluorescein angiography is considered to be a very safe test and side effects are uncommon. However the possibility of side effects cannot be completely ruled out. Fluorescein does not contain iodine and hence can be used in patients allergic to iodine. Some patients can experience slight nausea and vomiting, some patients who are allergic to the dye can develop rashes, which require medications such as antihistaminics and steroids. Very rarely a life threatening allergic reaction known as anaphylaxis can occur which requires prompt medical treatment. There may be infiltration of the dye into the skin at the site of injection, which could cause discolouration of the skin at that site. Flourescein dye will turn a patients urine orange and may slightly discolour the skin as well for a brief period of time.

I understand that fluorescein angiography is only a test and not a treatment modality. I understand the risks involved with this test and hereby give consent to undergo this test.

I hereby also give my consent to be included as a participant in the study

"A Clinical Study of the Ocular Manifestation in patients with Diabetes Mellitus type 2."

Name of the patient	Date
Signature of the patient	Time
Name of the impartial Witness	
Signature of the impartial witness	-
Name of Investigator	-
Signature of the Investigator	

ANNEXURE IX

PROFORMA

NAME :		
AGE/SEX :		I.P. NO:
OCCUPATION :		
ADDRESS:		
SOCIO ECONOMIC STATUS:		
CHIEF COMPLAINTS		
OCULAR SYMPTOMATOLOGY		
DURATION		
INSULIN TREATMENT		
VISUAL ACQUITY	RE:	LE:
	PH:	PH:
INSULIN: REGULAR / IRREGULAR		

PAST HISTORY: HTN / TB / DRUG ALLERGY / NEPHROPATHY

HISTORY OF SIMILIAR COMPLAINTS

HISTORY OF OCULAR DISEASES

PREVIOUS OCULAR CHECK UP: YES/NO

FAMILY HISTORY:
OCULAR EXAMINATION:
LOCAL OCULAR EXAMINATION:
Head posture:
Facial Symmetry:
Ocular position:
Ocular movements:
Vision:
Lids:
*Stye
*Xanthelasma
*Blepharitis
*Others:
*None:

Conjunctiva:

*Microaneurysm

Cornea:

*Sensations

*Erosions		
*Others		
Anterior Chamber (A/C)		
*Depth:		
*Angle:		
*Neovascularisation		
*Glaucoma; Present / Abser	nt:	
Type, if present:		
Iris:		
*Pattern:		
*Ectropion Uveae:		
*Neovascularisation:		
*Iridocyclitis:		
Pupil:		
*Reaction:	Direct:	Indirect:
*Responne to mydriatrics:		
Lens:		
*Cataract:		
Type:		
IOP:		
Sac Syrnging:		
Vitreous (SLE):		

*Asteroid Hyalosis:
*Haemorrhages:
*Fibrovascular Proliferations:
Fundus:
*Retinopathy:
*Maculopathy:
INVESTIGATIONS
RBS
FBS
URINE ALBUMIN
IOP
FUNDUS FLUORESCEIN ANGIOGRAPHY(whenever indicated):
TREATMENT ADVISED
NONE
MEDICAL MANAGEMENT
FOCAL LASER
PRP
VITRECTOMY
CATARACT SURGERY
REFERRED

ANNEXURE 4 –

KEYS TO MASTER CHART

Ac - Acute

Chr - Chronic

CC - Cortical Cataract

Dacr - Dacrocystitis

M - male

F - female

FBS - Fasting Blood Sugar

RE - right eye

RFT - Renal Function Test

LE - left eye

POAG - Primary Open Angle Glaucoma

Pseudo P - Pseudo Phakia

PSC - posterior subcapsular cataract

PRP - Pan Retinal Photocoagulation

NAD - Nothing Abnormal Detected

NS - Nuclear sclerosis

CF - Counting fingers

HM - Hand movements

PL PR - Perception of light ,projection of rays

PPBS - Post Prandial Blood Sugar

m - Meter

VL - Vitreous leak

ME - Macular Edema

PCO - Posterior capsular opacification

CSME - Cystoid macular edema

RD - Retinal detachment

IP - iris prolapsed

ARM – Age related maculopathy

ARMD - Age related macular degeneration

BRVO - Branch retinal vein occlusion

ANNEXURE 5-

MASTER CHART

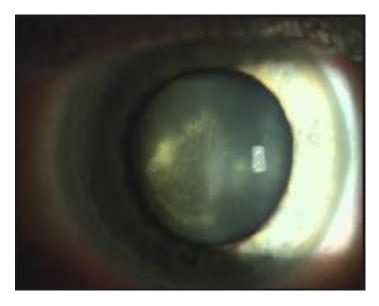


Fig No. 8 POSTERIOR SUB CAPSULAR CATARACT

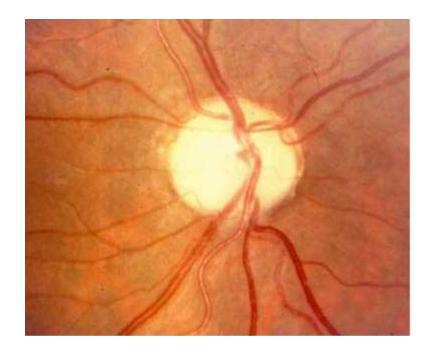


Fig No 9 PRIMARY OPTIC ATROPHY

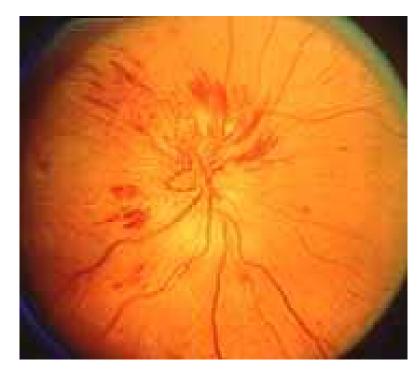


Fig No 10 NON ARTERITIC AION



Fig. NO. 11 CSME WITH VITREOUS HAEMORRHAGE

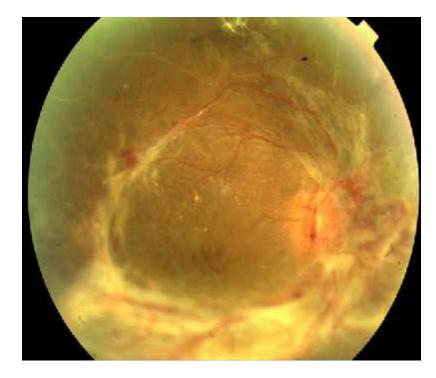


Fig. NO 12 PROLIFERATIVE DIABETIC RETINOPATHY

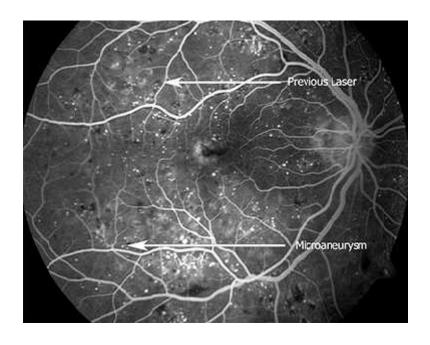


Fig. NO 13 FUNDUS FLUORESCEIN ANGIOGRAPHY

	E/SEX	OP NO.	TREATMENT	нва1С	S/PPBS	Vision	Pin Ho	ole IOP	EYE LID	CONJUI	NCTIVA	cc	DRNEA	PUI	PIL	LEN	ıs	RETINA		DIAGNOSIS		TREA	TMENT
SL NO. NAME	A A	<u>a</u> a	n /		<u>e</u> 5	ne le	se -	-	15 5/5/10/15	25	l. c	25	l. c		l. e	n=	l	DE	l	DIAUT EVE	LEET DUE	DIGUT SVS	1,557,575
1 Yallappa	41/M	103948 1 yr	Reg/Irreg. Regular	7.4 262/305		RE LE 1 6/9 6/9 6	6/6 6/		LE EYE LID LE 17.3 normal normal	normal	LE normal	RE normal	LE normal		LE normal	RE normal	LE normal	RE Normal	LE Normal	RIGHT EYE Normal	LEFT EYE Normal	RIGHT EYE Med mag	LEFT EYE Med Mag
2 Chidanand		17887 15yrs	irregular	7.1 178/234		6/9 6/6			14.6 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	PDR	PDR	PDR	PDR	Normal	Med mag
3 Mohancha	· ·	134428 18yrs	Regular	6 108/150		6/12 6/12 6	<u> </u>		17.3 normal normal	Pterigium	Pterigium	_	normal	normal	normal	normal	normal	Normal	Normal	Pterygium	Pterygium	Med mag	Med Mag
4 Gangabai	55/F	176678 3yrs	Regular	6.6 156/235	5 Nil 6	6/36 6/36 6	6/9 6,	5/9 14.6	15.9 normal normal	normal	normal	normal	normal	normal	normal	PSC	PSC	Normal	Normal	cortical cataract	cortical cataract	Med mag	Med Mag
5 B B Jadhav		156049 7yrs	irregular	7 141/229		6/6 6/9	.,,	5/6 12	12 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
6 Gurappa G		176303 6yrs	Regular	6 112/123			<u> </u>		12.2 normal normal	normal	normal	normal	normal	normal	normal	PSC	PSC	Normal	Normal	PSC	Normal	Med mag	Med Mag
7 Annasahel 8 Vitabai	546/M	9382 3yrs 9704 5yrs	Regular irregular	6.8 156/186 6.6 266/281		-,,	-,,	5/9 12.2 5/18 12	12.2 normal normal 10 normal normal	Pterigium normal	Pterigium normal	normal	normal	normal normal	normal	normal normal	normal normal	Normal MILD NPDR + APMD	Normal MILD NPDR + APMD	Pterygium with PSC with Mild Mild NPDR	Pterygium with PSC with PSC Mild NPDR	Med mag Med mag	Med Mag Med Mag
9 Bhimanna	75/M	176490 17yrs	Regular	7 237/337		6/36 6/12 6	, ,	5/12 15.9	18.9 normal normal	normal	normal	normal	normal	normal	normal	PseudoP	PseudoP	Mild NPDR	Mild NPDR	Mild NPDR	Mild NPDR	Med mag	Med Mag
10 S M Shirha	- /	136431 8yrs	irregular	7.5 160/300		CF 6/9 I		6/6 13.2	13.2 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Mod NPDR	Mod NPDR		Mod NDPR	Focal Laser	Focal Laser
11 Sundraww	45/F	132313 6yrs	Regular	6 299/388	8 Nil 6	6/9 6/6	6/6 6,	6/6 17.3	17.3 normal normal	normal	normal	ulcer	normal	normal	normal	normal	normal	Normal	Normal	Cor ulcer	Normal	Med mag	Med Mag
12 Basanna N	58/M	111224 10yrs	Regular	6 150/192		6/6 6/6	6/6 6,	6/6 14.6	14.6 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
13 S S Kedach	-7	284098 30yrs	irregular	7.5 170/310		· · · ·			14.6 normal normal	normal	normal	normal	normal	normal	normal	PSC	PSC	Mod NPDR	Mod NPDR	PSC with Mod NPDR	PSC with NPDR	Med mag	Med Mag
14 Basayya H		294043 5mon	Regular	7.8 156/220		· · · ·		-	17.3 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Mod NPDR	Mod NPDR IT tributary		Mod NPDR with Arterial occlusion	Med mag	Focal Laser
15 M R Bhavi		291776 4yrs 192220 2yrs	Regular Regular	6 130/198 6 103/163		6/36 6/12 6 6/6 6/6 6	-,,	5/6 14.6 5/6 17.3	14.6 normal normal	normal normal	normal normal	normal	normal	normal	normal	PSC Cortical	PSC normal	Normal Normal	Normal Normal		PSC Normal	Med mag Med mag	Med Mag Med Mag
17 Kamanna	/	132290 5yrs	Regular	6 236/266		· · · ·	-, -	/-	12.2 normal normal	Pterigium	normal	normal	normal	normal	normal	NS1	NS2	Normal			Normal	Med mag	Med Mag
18 Rayappa N	- /	132242 1yr	Reg	6 110/134					17.6 Stye Chalazio		_	normal	normal	normal	normal	normal	normal	Normal		Stye+Conjunctivitis	Chalazion	Med mag	Med Mag
19 Shivamurt	i 48/F	107762 2yrs	Reg	6.6 82/200	Nil 6	6/6 6/6	6/6 6,	6/6 14.6	14.2 Ac Dacr normal	normal	normal	ulcer	normal	normal	normal	normal	normal	Normal	Normal	Ac Dacr	Cor Ulcer	Med mag	Med Mag
20 Uma	62/F	161798 13 yrs	Regular	6.4 150/312			CF-3m PI		17.3 normal normal	normal	normal	normal	normal	normal	normal	PseudoP	NS 2	Mod NPDR with CSME	Mod NPDR	Normal	Normal	PRP	Focal Laser
21 Chayavva		8688 6yrs	Regular	6.6 356/500		6/60 CF-3m 6			12.2 Blepharitis Blephari		normal	normal	normal	normal	normal	cortical cataract			Mild NPDR	'	Blepharitis with cataract with mild NPI	ŭ	Med Mag
22 Dundavva		7192 8yrs	Regular	8.8 198/309	-	6/36 CF-3m 6		-	12.2 normal normal	normal	normal	normal	normal	normal	normal	normal	normal Snow flako	Sev NPDR	Sev NPDR	Sev NPDR	Sev NPDR	Med mag	Med Mag
23 Umarmath 24 Jayalaxmi	58/F	81443 12 yrs 81502 3yrs	Regular Regular	6.5 168/200 6.6 101/222		6/36 6/36 6 6/60 6/9 6	6/24 6/ 6/60 6/	5/24 20.6	22.6 Xanthelesma Xanthele 15.9 normal normal	sma normal normal	normal	normal	normal	normal	normal	Snow Flake NS3	Snow flake Early cortical	Mod NPDR Normal	Mod NPDR Normal	Xa Normal	Normal Normal	Focal Laser Med mag	Focal Laser Med Mag
25 Gangabai	55/F	139499 10yrs	Regular	6.1 152/232			6/18 6/	5/9 12.2	12.2 Blepharitis Blephari		normal	normal	normal	normal	normal	normal	normal	Normal			DES	Med mag	Med Mag
26 Hulawwa I	52/F	139519 1yr	Regular	6 96/117		6/9 6/9	6/6 6/	6/6 8.9	7.6 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Normal		Normal	Normal	Med mag	Med Mag
27 Kusuma Al	59/F	139521 3yrs	Regular	6.4 180/263	3 Nil 6	6/12 6/12 6	6/12 6,	/12 22.4	20.6 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	POAG	POAG	Med mag	Med Mag
28 Sharda Gu	50/F	139520 4yrs	Regular	6 227/340	0 Nil 6	6/6 6/6	6/6 6,	5/6 17.3	17.3 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
29 Vijaylaxmi	40/F	139588 10yrs	Regular	6 113/237		6/6 6/6		6/6 11.2	12.2 normal normal	Pterigium	Pterigium	normal	normal	normal	normal	Cortical	normal	Normal	Normal	Pterygium+CC	Pterygium	Med mag	Med Mag
30 Sujatha M		139482 2yrs	Regular	6.2 223/343		6/6 6/6			12.3 Ac Dacr Stye	normal	normal	ulcer	normal	normal	normal	Cortical	Cortical	Normal	Normal	Ac Dacr+CC	Stye+Cortical cataract+Mild NPDR	Med mag	Med Mag
31 chandraka 32 Shardabai		139441 4yrs 134970 1yr	Regular Regular	7.8 145/205		6/9 CF-2M 6 6/60 CF-3m 6	-		17.3 normal normal 14.6 normal normal	normal	normal	normal	normal	normal	normal	normal PSC	Cortical PSC with NS3	Normal Normal	Normal Normal	Normal PSC	AIOL+Cortical PSC with NS3	Med mag Med mag	Med Mag Med Mag
33 Mahadevi	60/F	192240 8yrs	Regular	7.8 174/324					15.9 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Mod NPDR	Mod NPDR	Mod NPDR	Mod NPDR	Med mag	Med Mag
34 Shantabai	45/F	176293 7yrs	Regular	9 136/222			· ·		12.3 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Sev NPDR	Sev NPDR	Mild NPDR	Mild NPDR	Med mag	Med Mag
35 Gangabai	55/F	176678 3yrs	Regular	6.6 125/239	9 1+ 6	6/36 6/36 6	6/9 6,	5/9 11.2	12.2 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Mild NPDR	Mild NPDR	Mild NPDR	Mild NPDR	Med mag	Med Mag
36 Mahadevi	48/M 1	1922298 6mon	Regular	6.1 95/115	Nil 6	6/9 6/9	6/6 6,	5/6 11.2	12.2 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
37 Kantabai	60/F	3085 20yrs	irregular	9.7 247/437		· · · ·			13.4 normal normal	normal	normal	normal	normal	normal	normal	-	t Cortical catarac		Severe NPDR		Cortical Cataract with Sev NPDR	Focal Laser	Focal Laser
38 Hanumant 39 Prabhavat		37324 5yrs 7103 2yrs	Regular	8.8 166/240 6.4 164/347		6/60 CF-1.5n 6			14.6 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Severe NPDR	Severe NPDR	Severe NPDR Normal	Severe NPDR Normal	PRP Med mag	PRP
40 Mallawwa		7105 Zyrs 7146 5yrs	Regular Regular	7.6 130/190		· · · ·	-, -		14.6 normal normal	normal normal	normal normal	normal	normal	normal	normal	Normal cortical cataract	normal cortical catarac	Normal Mod NPDR	Normal Mod NPDR		Cortical cataract with Mod NPDR	Med mag	Med Mag Med Mag
41 Basavraj K		2494 15yrs	irregular	7.5 121/230		6/12 6/18 6			14.6 Stye Chr Daci	Conjunctivi	_	normal	normal	normal	normal	Normal	Cortical catarac		Normal	Stye+Conjunctivitis	Chr Dacr+CC	Med mag	Med Mag
42 Jamabai ch	46/F	347658 1.5yrs	Regular	8.5 159/229	9 Nil 6	6/6 6/6	6/6 6,	6/6 10.2	11.2 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Sev NPDR	Sev NPDR	Sev NPDR	Sev NPDR	PRP	PRP
43 Chandapp	60/M	330212 5yrs	REGULAR	7 69/89	Nil 6	6/60 cf-1.5m	6/36 N	NI 17.3	14.6 normal normal	normal	normal	normal	normal	normal	normal	Pseudo P	Cortical catarac	Mild NPDR	Mild NPDR	Pseudo P with mild NPDR	Mild NPDR	Med mag	Med Mag
44 Neelawwa		338940 4yrs	Regular		0 Nil 6				15.4 Xanthelesma Xanthele		normal	normal	normal	normal	normal	Normal	normal	Sev NPDR	Sev NPDR	Sev NPDR	Sev NPDR	Focal Laser	Focal Laser
	62/F	27488 20yrs				6/36 CF-2m 6	-		14.6 normal normal	normal	Pterigium		normal	normal	normal	Normal	PSC	Mod NPDR		Mod NPDR	Pterygium+Mod NPDR	Med mag PRP	Med Mag
46 Mallikarju 47 Rajashekh		339252 10yrs 34682 5yrs	Regular	8.4 196/268 8.8 140/266	8 1+ 6 6 Nil 6				11.2 normal normal 18.3 Xanthelesma Xanthele	normal	normal normal	normal	normal	normal	normal	Normal Normal	normal normal	Severe NPDR Normal	Very Sev NPDR Normal	Sev NPDR Normal	Very Sev NPDR ARMD	Med mag	PRP Med Mag
48 Shivaputra	· ·	325647 1yr	Regular	6.2 116/225		6/60 6/60 6		5/12 15.9		normal	normal	normal	normal	normal	normal	Normal	NS3	Normal	Normal	Normal	Normal	Med mag	Med Mag
49 Hanumant		3524 5yrs	Regular	8.2 233/298		6/60 6/36 6			17.3 Blepharitis Blephari		normal	normal	normal	normal	normal		cortical catarac		Mod NPDR		Cortical cataract with Mod NPDR	Med mag	Med Mag
50 Mallappa I	65/M	3641 4yrs	Regular	6.5 160/290		6/12 6/12		6/6 17.3		normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal	Mild NPDR	Mild NPDR	Med mag	Med Mag
51 Parvathi M		100049 20yrs	_	7.8 123/189				5/12 12.2		normal	normal	normal	normal	normal	normal	cortical cataract			Mod NPDR		Cortical cataract with Mod NPDR	Med mag	Med Mag
52 Lalita	59/F	6914 2yrs	Regular		-	6/24 6/24 6		6/9 12.2		normal	normal	normal	normal	normal	normal	Normal	normal	CRVO	Normal	CRVO	Normal	Med mag	Med mag
53 Gurappa Ja 54 Basappa B		312549 22yrs 28701 6yrs	irregular irregular	9.2 196/256 8.2 261/296	6 2+ F 6 Nil 6	. 2 0, 20 .		5/18 15.9 5/18 18.9		normal normal	normal normal	normal	normal	normal	normal normal	Pearly white Normal	PseudoP normal	Normal Mod NPDR	Very Sev NPDR Mod NPDR	PSC Mod NPDR	PseudoP with Very sev NPDR Mod NPDR	Med mag Focal Laser	Focal Laser Focal Laser
54 Basappa B 55 Mohan Sir		8884 6yrs	Regular	7.8 254/373					15.9 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal	Mod NPDR	Mod NPDR	Med mag	Med Mag
56 S C Pattar	-	103852 5.5yrs	_	6.4 90/124					14.6 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal			Mild NPDR	Med mag	Med Mag
57 Yallappa	41/M	103948 1 yr	Regular	6 96/126					12.2 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
58 B S Birada		103793 20yrs	Regular	6.3 95/110				•	15.9 Xanthelesma Xanthele	sma normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal		Mild NPDR	Med mag	Med Mag
0 11	45/M	7958 9yrs	irregular	6.3 156/256		CF- 3m CF-2M I			13.2 normal normal	normal	normal	normal	normal	normal	normal	normal	normal	Mild NPDR	Sev NPDR		Sev NPDR	Med mag	Med Mag
60 Sugandha		329227 2yrs	Regular	6 120/136		· · · ·			12.2 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal			Normal	Med mag	Med Mag
61 Shama Ma 62 Neelamma		30673 4yrs 330005 4yrs	Regular Regular	6 190/230		6/18 6/18 6 6/24 6/12 6			14.6 Xanthelesma Xanthele 14.6 normal normal	sma normal normal	normal normal	normal	normal	normal	normal normal	Normal Normal	normal normal	Normal Mod NPDR	Normal Mod NPDR	Xanthelesma with Mild NPDR Normal	Xanthelesma Normal	Med mag Med mag	Med Mag Med Mag
	60/F	24578 2yrs	Regular	6 140/248					15.9 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
64 Ramesh	41/M	18259 1yr	Regular	7.8 245/460			, ,		14.6 normal normal	normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal		Mod NPDR	Med mag	Med Mag
65 Shankar A	· ·	2478 1.5yrs		6.2 149/273				5/9 10.2		normal	normal	normal	normal	normal	normal	Normal	normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
66 Basavaraj	· ·	13726 12yrs		6.2 150/222		6/36 6/24 6		6/36 15.9		normal	normal	normal	normal	normal	normal	cortical cataract	Cortical catarac	Normal	Normal	Cortical Cataract	Cortical Cataract	Med mag	Med Mag
67 Basanna B	· ·	13656 4yrs	irregular	6 97/139			-		15.9 Blepharitis Blephari		normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Blepharitis	Blepharitis	Med mag	Med Mag
68 Bhagiratba		18316 6yrs	irregular	8.2 130/216				6/60 10.2		normal	normal	normal	normal	normal	normal	normal	normal	Mod NPDR	Mod NPDR		Mod NPDR	Med mag	Med Mag
69 Sujata Kan		2496 4yrs	Regular	6.1 130/251		6/12 6/18 6		6/6 17.3		normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal		Normal	Med mag	Med Mag
70 M S Birada 71 Basavaraj		363000 20yrs 49199 3yrs	irregular Regular	6.6 90/142 6.1 140/220		6/18 6/18 6 6/6 6/6 6			12.2 Xanthelesma Xanthele 13.4 normal normal	sma normal normal	normal normal	normal	normal	normal	normal normal	normal Cortical	normal normal	Normal Normal	Normal Normal	Xanthelesma Cortical	Xanthelesma Normal	Med mag Med mag	Med Mag Med Mag
72 Vithal Telli		35276 5yrs	Regular	6.1 150/185		CF-2m CF-3m I			14.6 normal normal	normal	normal	normal	normal	normal	normal	cortical cataract			Normal	cortical cataract	cortical cataract	Med mag	Med Mag
73 Mallikarju		254366 11yrs	_	6.1 108/202					13.4 Blepharitis Chr Daci	normal	normal	normal	normal	normal	normal	Normal	Normal	Mild NPDR	Mild NPDR		Chr Dacr+Mild NPDR	Med mag	Med Mag
	74/14	2637 20yrs	Regular	6.2 169/196	6 2+ 6	6/36 CF-2m		F-3m 15.9		normal	normal	normal	normal	normal	normal	PSC	Greyish white	Normal	Normal	PSC	Cortical cataract	Med mag	Med Mag
74 Rudrappa	/4/IVI																						1
74 Rudrappa 75 Rafiq 76 Yamanapp	56/M	33563 5yrs 329893 3yrs	Regular Regular	6.2 116/176 6.8 308/423				5/24 14.6 5/9 12.2		normal normal	normal normal	normal normal	normal	normal normal	normal normal	Normal Normal	Normal Normal	Normal Normal			Normal Normal	Med mag Med mag	Med Mag Med Mag

77 78																				,			,	_
78	Appasaheb 66			Regular	6.3		CF-2m CF-2M 6/			normal	normal	normal	normal		normal	normal	NS2	NS2	Normal	Normal	Cataract NS2	Cataract NS2	Med mag	Med Mag
70				Regular	6 7	166/189 Nil	6/9 6/12 6/9	-,-	.2 15.9 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
79 80	Ramesh Ar 25 Paradappa 65			Regular Regular	6.5	200/330 Nil 180/220 1+	6/9 6/9 6/9 6/60 6/60 6/3	6 6/6 12 18 6/18 14	.2 14.2 normal .2 14.2 Xanthelesm	normal	normal normal	normal	normal		normal normal	normal	Normal Nuclear cataract	Normal Nuclear catara	Normal	Normal Normal	Normal	Normal at Xanthelesma with Nuclear cataract	Med mag Med mag	Med Mag Med Mag
81	B B Budhih 51			Regular	8.8	160/220 1+	6/18 6/9 6/		.4 14.2 normal	normal	normal	normal	normal		normal	normal	cortical cataract			Severe NPDR		D Cortical cataract with sev NPDR	PRP	PRP
82	Rabiya Inar 55		30 1.5yrs	Regular	6	112/180 Nil	6/6 6/6 6/	,	.2 13.2 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
83	Mallangou 55			Regular	6	113/186 Nil	6/6 CF-F 6/	6 NI 14	.2 15.9 stye	normal	normal	normal	normal	normal	normal	normal	Normal	Cortical Catara	Normal	Normal	Stye	Cortical cataract	Med Mag	Med Mag
84	M S Patil 55	/M 4106	62 4yrs	Regular	6.2	136/180 Nil	CF-3M CF-2M 6/	60 CF-3M 14	.2 14.2 normal	normal	normal	normal	normal	normal	normal	normal	Cortical cataract	Cortical catara	Normal	Normal	Cortical cataract	Cortical cataract	Med mag	Med Mag
85	Appanna 80	/M 3730	09 10yrs	irregular	8.8	188/218 1+	6/24 6/36 6/3	18 6/24 18	.9 20.6 normal	normal	normal	normal	normal	normal	normal	normal	Cortical cataract	Cortical catara	CSME	CSME	Cortical cataract with CSME	Cortical Cataract wuth CSME	PRP	PRP
86			93 3yrs	Regular	6	115/158 Nil	6/6 6/12 6/		.2 12.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
87	Appa sahel 60		45 10yrs	irregular	7.9	96/170 Nil	6/18 6/12 6/9		.6 14.6 normal	normal	normal	normal	normal		normal	normal	Pseudo P	PseudoP	Mod NPDR	Mod NPDR	Pseudo P with Mod NPDR	Pseudo P with Mod NPDR	Med mag	Med Mag
88 89	Basappa Kd 66 Siddappa 64			Regular	8.6	230/330 1+ 137/157 Nil	6/24 6/24 6/2 6/12 6/18 6/2			normal Chalazion	normal	normal	normal		normal normal	normal	Cortical cataract Normal	Normal	Normal	Early PDR Normal	Cortical cataract with PDR Chalazion	Cortical cataract with PDR Chalazion	Med mag Med mag	Med Mag Med Mag
90	Basavrai t 47			Regular Regular	8.3	137/190 Nil	6/6 6/6 6/		.9 12.2 normal	normal	normal	normal	normal		normal	normal	Cortical cataract	INOTITIAL	Normal	Normal	Cortical cataract	Cortical cataract	Med mag	Med Mag
91	Vishalaxmi 50		46 14yrs	irregular	9	110/210 Nil	6/60 6/60 6/3	-,-	.2 14.2 normal	normal	normal	normal	normal		normal	normal	Normal	normal	Early PDR	Early PDR	PDR	PDR	Med mag	Med Mag
92				Regular	9.7	170/224 Nil	6/6 6/18 6/		.9 12.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	,	Sev NPDR with CSME	Sev NPDR with CSME	Sev NPDR with CSME	Focal Laser	Focal Laser
93	Awarappa 60	/M 2211	18 1yr	Regular	6	123/156 Nil	6/6 6/6 6/	6 6/6 12	.2 12.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
94	Digambaba 65	/F 1706	61 12yrs	irregular	6.4	167/210 Nil	6/18 CF-3m 6/9	9 6/60 13	.9 13.9 normal	normal	normal	normal	normal	normal	normal	normal	Pseudo P	Cortical catara	Normal	Normal	Pseudo P	Cortical Cataract	Med mag	Med Mag
95			81 3yrs	Regular	8.8	126/180 Nil	6/18 6/18 6/	-,-	.2 14.2 normal	normal	normal	normal	normal		normal	normal	PSC	PSC	Normal	Normal	PSC	PSC	Med mag	Med Mag
96	S Muliman 48			Regular	8.5	136/196 Nil	6/6 6/6 6/		.2 14.2 normal .9 15.9 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Sev NPDR with CSME		Sev NPDR with CSME	Sev NPDR with CSME	Focal Laser	Focal Laser
97 98	Shivanand 58			Regular Regular	7.6 8.2	126/172 Nil 260/310 Nil	6/12 6/12 6/ 6/12 6/24 6/9			normal	normal	normal	normal		normal	normal Pin point	Normal Pseudo P	Cortical Pseudo P	PDR with CSME	Normal Early PDR	Pseudo P with PDR with CSN	Cortical If Pseudo P with PDR	Med mag Focal Laser	Med Mag Focal Laser
99			37 2yrs	Regular	6.8	160/250 Nil	6/36 6/36 6/3	-, -	.2 14.2 normal	normal	normal	normal	normal		normal	normal	Normal	Cortical catara	Normal	Normal	Normal	CC WITH BK	Focal Laser	Focal Laser
100				Regular	7.2	110/168 Nil	6/24 6/24 6/3		.2 15.9 normal	normal	normal	normal	normal		normal	normal	Cortical witj NSII		Myopic fundus		Cortical witj NSII	Cortical witj NSII	Med mag	Med Mag
101	GURULING 80			regular	7	116/156 Nil	6/9 6/18 6/9		.2 12.2 Act Dacr	normal	normal	normal	normal		normal	normal	Pseudo P	Pseudo P	Normal	Normal	Act Dacr	Cor Ulcer	Med mag	Med Mag
				irregular	6.9	121/143 2+	6/60 6/36 6/3			normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Mild NPDR	Mild NPDR	Mild NPDR	Mild NPDR	Med mag	Med Mag
103				Regular	6	122/180 Nil	6/6 6/6 6/		.2 14.2 normal	normal	normal	normal	normal		normal	normal	Cortical	Normal	Normal	Normal	Cortical	Normal	Med mag	Med Mag
104	Sanabai Pa 70			Regular	6.3	101//150 Nil	6/60 6/60 6/3			normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Choroidal atrophy	Normal	Choroidal atrophy	Med mag	Med Mag
105	Sidangoud: 50 Sumashi G: 47			regular Regular	6 10.2	115/170 Nil 80/220 Nil	6/6 6/6 6/9 CF-3m CF-3m 6/9		.2 10.2 normal .9 15.9 normal	normal	normal	normal	normal		normal normal	normal	Normal	Normal Normal	Normal Normal	Normal Normal	Normal Vitreous hemorrhage	Normal Vitreous hemorrhage	Med mag Focal Laser	Med Mag Focal Laser
106	Annapurna 60		43 2yrs	Regular	7.1	86/200 Nil	CF-3ff CF-3ff 6/5		.2 13.2 normal	normal	normal	normal	normal		normal	normal	Cortical cataract			Normal	Cortical cataract	Vitreous hemorrhage Cortical cataract	Med mag	Med Mag
108	Heeranna 60		17 1.5yrs	Regular	6	90/123 Nil	6/60 6/60 6/3		.9 10.9 normal	normal	Conjunctivitis	Conjunctivi	ti normal		normal	normal	SIMC	SIMC	Normal	Normal	Conjunc+SIMC	Conjunc+SIMC	Med mag	Med Mag
109	Rajaram 75	/M 1929	90 5yrs	Regular	6	104/140 Nil	6/6 6/6 6/	6 6/6 10	.9 12.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
110	Geeta Patil 43	/F 21551	14 New		6.6	183/225 Nil	6/6 6/6 6/	6 6/6 10	.3 10.3 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
111	Annsuyaba 58	/F 21550	07 4yrs	irregular	6.3	124/217 Nil	6/9 6/9 6/	6 6/6 12	.2 14.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
	Paramanna 80			irregular	8.9	103/140 Nil	6/9 6/9 6/		.9 15.9 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Mod NPDR	Mod NPDR	Mod NPDR	Mod NPDR	Med mag	Med Mag
113			24 6yrs 63 7yrs	irregular	6.8 6	126/186 1+ 116/166 Nil	CF-3M CF-3m 6/6 6/60 6/60 6/		.2 12.2 normal .9 18.9 normal	normal	normal	normal	normal		normal	normal	Normal PSC	Normal PSC	Normal Mild NPDR	Normal Mild NPDR	Normal	Normal PSC	Med mag	Med Mag Med Mag
	Bhimappa 65 Drakshayar 55			Regular regular	6.4	116/166 Nil 145/222 Nil	6/12 6/9 6/		.2 14.2 normal	normal	normal	normal	normal		normal normal	normal	Normal	Normal	Normal	Normal	PSC Normal	Normal	Med mag Med mag	Med Mag
	Shrinivas D 83			Regular	6.1	146/286 2+	6/12 6/9 6/	-,-	.9 15.9 normal	normal	normal	normal	normal		normal	normal	PSC	PSC	Normal	Normal	PSC	PSC	Med mag	Med Mag
117	Shantappa 73	/M 2154	49 2yrs	Regular	6	95/116 Nil	6/24 6/24 6/5	9 6/6 13	.2 14.2 normal	normal	normal	normal	normal	normal	normal	normal	Cortical + PSC	Cortical catara	Normal	Normal	Cortical + PSC	Cortical cataract	Med mag	Med Mag
118	Siddhangor 50	/M 2157	73 1yr	Regular	6	96/159 Nil	6/6 6/6 6/	6 6/6 14	.2 14.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
119	S M Birada 50			Regular	6	108/150 Nil	6/6 6/6 6/	6 6/6 10	.3 10.3 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	CRAO	Normal	Med mag	Med Mag
120 121	Siddlingapa 45																							
	<u> </u>		77 4yrs	Regular	6.2	100/156 Nil	6/6 6/6 6/	-,-	.2 14.2 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Mild NPDR	Normal	Mild NPDR	Normal	Med mag	Med Mag
_	Lakshmibai 55	/F 23113	30 3yrs	Regular	6.2	116/178 Nil	6/18 6/12 6/	9 6/9 10	.3 12.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
122	Lakshmibai 55	/F 23113 /M 2784	30 3yrs 42 4yrs	Regular Regular	6.2 6.6		-, -, -,	9 6/9 10 12 6/18 14	.3 12.2 normal					normal normal				1 .						
122 123	Lakshmibai 55 Siddappa 49	/F 23113 /M 2784 /F 20812	30 3yrs 42 4yrs	Regular	6.2	116/178 Nil 93/201 Nil	6/18 6/12 6/9 CF-2m CF-2M 6/9	9 6/9 10 12 6/18 14 6 6/6 18	.3 12.2 normal .2 14.2 normal .9 15.9 normal	normal normal	normal normal	normal normal	normal normal	normal normal	normal normal	normal normal	Normal PSC	Normal PSC	Normal Normal	Normal Normal	Normal PSC	Normal PSC	Med mag Med mag	Med Mag Med Mag
122 123	Lakshmiba 55 Siddappa 49 Neermala 51	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New	Regular Regular irregular	6.2 6.6 6.6	116/178 Nil 93/201 Nil 131/208 1+ 188/227 Nil 90/180 Nil	6/18 6/12 6/5 CF-2m CF-2M 6/5 6/6 6/6 6/6 6/24 6/36 6/5 6/9 6/9 6/9	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10	.3 12.2 normal .2 14.2 normal .9 15.9 normal	normal normal	normal normal normal	normal normal	normal normal	normal normal normal	normal normal	normal normal	Normal PSC Normal	Normal PSC Normal	Normal Normal Normal	Normal Normal Normal Sev NPDR	Normal PSC Normal	Normal PSC Normal	Med mag Med mag Med mag	Med Mag Med Mag Med Mag
122 123 124 125 126	Lakshmibai 55 Siddappa 49 Neermala i 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr	Regular Regular irregular Regular	6.2 6.6 6.6 8.6 6.2 6.9	116/178 Nil 93/201 Nil 131/208 1+ 188/227 Nil 90/180 Nil 178/340 Nil	6/18 6/12 6/9 CF-2m CF-2M 6/9 6/6 6/6 6/6 6/24 6/36 6/9 6/9 6/9 6/9 CF-3M CF-3m 6/9	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 60 6/60 14	.3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal	normal normal normal	normal normal normal	normal normal normal normal normal	normal normal normal normal normal	normal normal normal normal	normal normal normal	normal normal normal	Normal PSC Normal Pseudo P	Normal PSC Normal PSC + Cortical Normal cortical catara	Normal Normal Normal (Sev NPDR Mild NPDR + Microand	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract	Med mag Med mag Med mag Focal Laser Med mag Med mag Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Med Mag Med Mag
122 123 124 125 126 127	Lakshmiba 55 Siddappa 49 Neermala 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs	Regular Regular irregular Regular irregular	6.2 6.6 6.6 8.6 6.2 6.9 6.2	116/178 Nil 93/201 Nil 131/208 1+ 188/227 Nil 90/180 Nil 178/340 Nil 110/178 Nil	6/18 6/12 6// CF-2m CF-2M 6// 6/6 6/6 6// 6/24 6/36 6// 6/9 6/9 6/9 CF-3M CF-3m 6// 6/6 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 60 6/60 14 6 6/6 10	3 12.2 normal 2 14.2 normal 9 15.9 normal 2 15.9 normal 3 12.2 Stye 2 15.9 normal 9 12.2 normal	normal normal normal stye normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal cortical catara	Normal Normal Normal (Sev NPDR Mild NPDR + Microand Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal	Med mag Med mag Med mag Focal Laser Med mag Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Med Mag Med Mag Med Mag Med Mag
122 123 124 125 126 127 128	Lakshmiba 55 Siddappa 49 Neermala 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr	Regular Regular irregular Regular	6.2 6.6 6.6 8.6 6.2 6.9 6.2 6.2	116/178 Nil 93/201 Nil 131/208 1+ 188/227 Nil 90/180 Nil 178/340 Nil 110/178 Nil 121/205 Nil	6/18 6/12 6// CF-2m CF-2M 6// 6/6 6/6 6// 6/24 6/36 6// 6/9 6/9 6/9 CF-3M CF-3m 6// 6/6 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 60 6/60 14 6 6/6 10 6 6/6 10 6 6/6 10	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 12.2 tye .2 15.9 normal .9 12.2 normal .2 12.2 normal	normal normal normal normal stye normal normal	normal normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Normal	Normal PSC Normal PSC + Cortical Normal cortical catarac Normal Normal	Normal Normal Normal (Sev NPDR Mild NPDR + Microand Normal Normal	Normal Normal Sev NPDR Mild NPDR Normal Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal	Med mag Med mag Med mag Focal Laser Med mag Med mag Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129	Lakshmiba 55 Siddappa 49 Neermala 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60	/F 23113 //M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022 //M 1737	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New	Regular Regular irregular Regular irregular Regular Regular	6.2 6.6 6.6 8.6 6.2 6.9 6.2 6.2 8.6	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI	6/18 6/12 6/ CF-2m CF-2M 6/ 6/6 6/6 6/6 6/24 6/36 6/ 6/9 6/9 6/9 6/9 CF-3M CF-3m 6/ 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/24 6/	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 60 6/60 14 6 6/6 10 6 6/6 12 24 6/18 17	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .9 12.2 normal .9 12.2 normal .2 12.4 normal .2 12.4 normal	normal normal normal stye normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal cortical catara	Normal Normal Normal (Sev NPDR Mild NPDR + Microand Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal	Med mag Med mag Med mag Focal Laser Med mag Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Med Mag Med Mag Med Mag Med Mag
122 123 124 125 126 127 128 129 130	Lakshmiba 55 Siddappa 49 Neermala 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022 /M 1737 /M 1909	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs	Regular Regular irregular Regular irregular	6.2 6.6 6.6 8.6 6.2 6.9 6.2 6.2	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+	6/18 6/12 6// CF-2m CF-2M 6// 6/6 6/6 6// 6/24 6/36 6// 6/9 6/9 6/9 CF-3M CF-3m 6// 6/6 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 14 6 6/6 12 24 6/18 17 24 6/36 15	3 12.2 normal 2 14.2 normal 9 15.9 normal 2 15.9 normal 3 12.2 Stye 2 15.9 normal 9 12.2 normal 2 12.2 normal 2 12.2 normal 9 12.2 normal	normal normal normal normal stye normal normal normal normal	normal	normal	normal normal normal normal normal normal normal normal	normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Normal Normal	Normal PSC Normal PSC + Cortical Normal cortical catarac Normal Normal Normal	Normal Normal Normal (Sev NPDR Mild NPDR + Microand Normal Normal Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal Normal Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130	Lakshmiba 55 Siddappa 49 Neermala 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj Hl 47 Mallikarjur 55 Sangappa 75	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022 //M 1737 /M 1909 /F 21548 /M 21552	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon	Regular Regular Irregular Regular Regular Regular Regular Regular Irregular Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI	6/18 6/12 6/- CF-2m CF-2M 6/- 6/6 6/6 6/- 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/24 6/- 6/36 6/24 6/- 6/36 6/24 6/- 6/36 6/60 6/- CF-3M 6/24 CF- 6/24 6/12 6/-	9 6/9 10 12 6/18 12 6 6/6 18 12 6/12 13 6 6/6 10 66 6/6 10 66 6/6 12 24 6/18 17 24 6/36 15 -1m 6/12 15 9 6/6 14	3 12.2 normal 2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .9 12.2 normal .9 12.2 normal .9 12.2 normal .9 18.2 normal .9 18.2 normal .9 13.6 normal .9 13.6 normal	normal normal normal normal stye normal normal normal normal normal	normal	normal	normal	normal	normal normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Normal Normal Normal	Normal PSC Normal PSC + Cortical Normal cortical catara Normal Normal Normal Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal Normal Normal Normal Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal Normal Normal Normal Normal Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132	Lakshmiba 55 Siddappa 49 Neermala 151 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Sangappa (75 Shatawaj 54 Shatawaj 54	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs	Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.2 8.6 9.4	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+	6/18 6/12 6// CF-2m CF-2M 6/ 6/6 6/6 6/6 6/24 6/36 6/ 6/9 6/9 6/9 6// CF-3M CF-3m 6/ 6/6 6/6 6/6 6/6 6/6 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/66 6/6 6/	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 12 24 6/18 17 24 6/36 12 9 6/6 14 6 6/6 14	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .9 12.2 normal .9 12.2 normal .3 24.6 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .9 15.9 normal	normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Normal Normal Normal Normal Normal Normal Normal	Normal PSC Normal PSC + Cortical Normal cortical catara Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal Normal Normal Normal Normal CRVO Normal Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR	Med mag Med mag Med mag Focal Laser Med mag Focal Laser	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser
122 123 124 125 126 127 128 129 130 131 132 133	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangapa (75 Laxmibai D 54 Shatawaj 54 Shankar Ha 55 Shatawaji \$64	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /F 1816 //M 1769 /F 21115 /F 21022 //M 1737 /M 1909 /F 21548 //M 21552 //M 21551	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs	Regular Regular Irregular Regular Irregular Regular Regular Regular Regular Regular Regular Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.2 8.6 9.4 6.6	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+	6/18 6/12 6// CF-2m CF-2m 6/ 6/6 6/6 6/6 6/24 6/36 6/ 6/9 6/9 6/9 6/ 6-6-6 6/6 6/6 6/6 6/6 6/6 6/36 6/24 6/36 6/36 6/24 6/36 6/36 6/24 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/36 6/60 6/ 6/24 6/12 6/ 6/24 6/12 6/	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 16 6/6 16 6 6/6 16 6 6/6 12 24 6/18 17 24 6/36 19 -1m 6/12 13 6 6/6 16 6 6/6 16 9 6/6 18	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .2 15.9 normal .2 15.9 normal .2 12.2 Stye .2 15.9 normal .9 12.2 normal .3 24.6 normal .9 18.2 normal .9 13.6 normal .9 13.6 normal .9 13.6 normal .9 15.9 normal	normal normal normal stye normal normal normal normal normal normal normal normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Cortical catarac Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microand Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai (60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shatawaji 64 Shivappa 55	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 //M 1769 //F 21115 /F 21022 //M 1939 /F 21548 //M 21552 //M 21552 //M 2145	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs	Regular Regular Regular Regular Regular Regular Regular Regular Regular Regular Regular Regular Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.2 8.6 7.2 6.2	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI	6/18 6/12 6// CF-2m CF-2M 6/ 6/6 6/6 6/6 6/24 6/36 6/ 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/24 6/36 6/36 6/60 6/ CF-3M 6/24 CF 6/24 6/12 6/ 6/6 6/6 6/6 6/6 6/6 6/6 6/24 6/12 6/ 6/18 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 12 4 6/18 17 24 6/36 15 -1m 6/12 15 9 6/6 18 9 6/6 18	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .3 12.2 stye .2 15.9 normal .9 12.2 normal .2 12.2 normal .3 24.6 normal .9 18.2 normal .9 13.6 normal .9 13.6 normal .9 15.9 normal	normal normal normal stye normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Cortical cataral Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai I 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shivappa 55 Jagdeesh 57	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21552 /M 21553 /M 21554 /M 21552	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5yrs	Regular Irregular Regular Irregular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.6 9.4 6.6 7.5 8.8	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+	6/18 6/12 6/- CF-2m CF-2m 6/- 6/6 6/6 6/6 6/24 6/36 6/- 6/9 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/60 6/- CF-3M 6/24 6/- 6/36 6/60 6/- 6/36 6/60 6/- 6/36 6/60 6/- 6/36 6/6 6/- 6/36 6/6 6/- 6/36 6/6 6/- 6/36 6/6 6/- 6/36 6/6 6/- 6/36 6/6 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/38 6/- 6/38 6/- 6/38 6/- 6/38 6/- 6/- 6/9 HM 6/-	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 11 2 4 6/18 17 2 4 6/36 15 -1m 6/12 13 9 6/6 14 6 6/6 16 9 6/6 18 9 6/6 18	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .3 12.2 stye .2 12.2 normal .2 12.2 normal .2 12.2 normal .3 24.6 normal .9 18.2 normal .9 18.0 normal .9 15.9 normal .1 normal .2 14.2 normal .3 12.2 normal .4 normal .5 15.9 normal .6 normal .7 normal .8 normal .9 18.9 Xanthelesm .8 12.2 normal .9 18.9 Xanthelesm .8 12.2 normal	normal normal normal stye normal Blepharitis	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal Normal Normal Normal Normal Normal Normal CRVO Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai (60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shatawaji 64 Shivappa 55	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /F 1816 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21552 /M 2145 /M 25348 /M 29929	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5Yrs 98 11 yrs	Regular Irregular Regular Irregular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.2 8.6 7.2 6.2	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI	6/18 6/12 6// CF-2m CF-2M 6/ 6/6 6/6 6/6 6/24 6/36 6/ 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/24 6/36 6/36 6/60 6/ CF-3M 6/24 CF 6/24 6/12 6/ 6/6 6/6 6/6 6/6 6/6 6/6 6/24 6/12 6/ 6/18 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 12 4 6/36 15 24 6/36 15 -1m 6/12 13 9 6/6 14 6 6/6 18 9 6/6 18 9 6/6 18	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .3 12.2 stye .2 15.9 normal .9 12.2 normal .2 12.2 normal .3 24.6 normal .9 18.2 normal .9 13.6 normal .9 13.6 normal .9 15.9 normal	normal normal normal stye normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Cortical cataral Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	Lakshmiba 55 Siddappa 49 Neermala 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shivappa 55 Jagdeesh 57 Mallikarjur 55	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022 /M 1909 /F 21548 /M 21552 /M 2155 /M 2145 /M 21552 /M 22548 /M 2929 /F 2446	30 Jyrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5yrs 98 11 yrs 68 5yrs	Regular Irregular Regular Irregular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 6.2 6.2 6.6 7.2 6.6 9.4 6.6 7.5 8.8	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI	6/18 6/12 6/- CF-2m CF-2m 6/- 6/6 6/6 6/- 6/24 6/36 6/- 6/9 6/9 6/9 6/- CF-3M CF-3m 6/- 6/6 6/6 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/24 6/- 6/24 6/- 6/24 6/- 6/24 6/- 6/24 6/- 6/24 6/- 6/24 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/-	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 12 24 6/18 17 24 6/36 13 -1m 6/12 13 9 6/6 14 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 17 9 6/6 18 9 6/6 18	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .1 15.9 normal .3 12.2 normal .9 12.2 normal .9 12.2 normal .9 18.2 normal .9 18.2 normal .9 18.4 normal .9 18.5 normal .9 18.6 normal .9 15.9 normal .2 14.2 normal .3 12.2 normal .4 normal .5 14.2 normal .6 14.2 normal .7 14.2 normal .8 14.2 normal .9 18.9 Xanthelesm .8 14.2 lelepharitis .9 14.2 lelepharitis	normal normal normal stye normal Belepharitis	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Cortical cataral Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangapa (75 Laxmibai D 54 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shiayapa 55 Jagdeesh 57 Mallikarjur 55 Saydamma 50 Kamalabai 60 Y Y Kabade 68	/F 23113 /M 2784 /F 20812 /M 20784 /F 20812 /M 1769 /F 1816 /M 1769 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21551 /M 21554 /M 21554 /M 29293 /M 30110	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 99 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5Yrs 98 11 yrs 68 5yrs 37 11yrs 04 3yrs	Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.6 9.4 6.6 7.5 8.8	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 99/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+	6/18 6/12 6/- CF-2m CF-2m 6/- 6/6 6/6 6/- 6/24 6/36 6/- 6/9 6/9 6/9 6/- 6/6 6/6 6/- 6/6 6/6 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/36 6/- 6/24 6/12 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/- 6/9 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/-	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 16 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 15 6 6/6 15 6 6/6 15 6 6/6 15 6 6/6 15 6 6/6 15 6 6/6 15	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .2 15.9 normal .2 15.9 normal .2 12.2 Stye .2 15.9 normal .3 24.6 normal .9 18.2 normal .9 18.2 normal .9 13.6 normal .9 13.6 normal .9 15.9 normal .9 15.9 normal .9 14.2 normal .9 15.9 normal .9 15.9 normal .9 18.9 Xanthelesm .3 12.2 normal .2 14.2 Blepharitis .9 14.2 normal .2 14.2 Stye .9 13.2 Stye .9 13.2 normal .3 10.3 normal	normal normal normal stye normal normal normal normal normal normal normal normal normal sa Xanthelesm normal Blepharitis normal Stye	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Cortical cataral Normal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR Stye Sev NPDR PDR	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 140	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shivappa 55 Jagdlesh 57 Mallikarjur 55 Saydamma 50 Saydamma 50 Kamalabai 60 Y Y Kabade 68 Parimala 58	/F 23113 /M 2784 /F 20812 /M 20784 /F 20812 /M 1769 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21551 /M 21552 /M 2446 /F 2446 /F 29933 /M 30110 /F 29602	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 99 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5yrs 84 9.5yrs 98 11 yrs 68 5yrs 37 11yrs 64 3yrs 26 2yrs	Regular irregular irregular irregular irregular irregular irregular Regular irregular Regular irregular Regular irregular Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.2 6.6 9.4 6.6 7.5 8.8 8.8 8.2 6.9 11.2	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+ 100/148 NiI 69/113 NiI	6/18 6/12 6/- CF-2m CF-2m 6/- 6/6 6/6 6/6 6/24 6/36 6/- 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/24 6/36 6/36 6/24 6/12 6/36 6/60 6/- 6/36 6/60 6/- 6/24 6/12 6/- 6/36 6/6 6/6 6/24 6/12 6/- 6/18 6/6 6/- 6/18 6/6 6/- 6/18 6/6 6/- 6/18 6/6 6/- 6/18 6/6 6/- 6/18 6/6 6/- 6/18 6/6 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/-	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 16 6/6 16 6 6/6 16 6 6/6 16 6 6/6 17 24 6/36 15 -1m 6/12 15 9 6/6 18 9 6/6 18 9 6/6 18 9 6/6 18 9 6/6 18 9 6/6 18 9 6/6 18 17 9 6/9 15 6 6/6 18 17 6 6/6 18 17 6 6/6 18 18 18 18 18 18 18 18 18 18 18 18 18 1	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .2 15.9 normal .2 15.9 normal .2 12.2 Stye .2 15.9 normal .3 24.6 normal .9 18.2 normal .9 18.2 normal .9 13.6 normal .9 13.6 normal .9 13.9 xanthelesm .3 12.2 normal .9 14.2 normal .9 15.9 normal .9 15.9 normal .9 15.9 type .1 10.2 normal .1 10.3 normal .2 14.2 stype .9 13.2 stype .9 13.2 normal .3 10.3 normal .3 10.3 normal .2 12.2 normal	normal normal normal stye normal stynormal normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Cortical cataract	Normal PSC Normal PSC + Cortical Normal Cortical catara	Normal Normal Normal Sev NPDR Mild NPDR + Microand Normal Sev NPDR PDR ONORMAL PDR ONORMAL NORMAL NO	Normal Normal Normal Sev NPDR Mild NPDR Normal Sev NPDR PDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev NPDR Sye Sev NPDR Cortical cataract	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR Stye Sev NPDR CRVO Mild NPDR COTtical cataract	Med mag Med mag Med mag Med mag Focal Laser Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 140 141	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 660 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shixappa 55 Jagdeesh 57 Mallikarjur 50 Saydamma 50 Kamalabai 60 Y Y Kabade 68 Parimala 58 B G Stavari 49	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /M 1769 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21551 /M 2456 /M 29929 /F 2446 /M 3010 /F 29602 /M 30690	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 99 1yr 53 2yrs 26 1yr 78 New 99 8yrs 87 7yrs 27 6mon 16 12yrs 55 5yrs 84 9.5yrs 98 11 yrs 68 5yrs 37 11yrs 60 3yrs 60 3yrs	Regular Irregular Irregular Regular Regular Regular Regular Regular Regular Regular Regular	6.2 6.6 8.6 6.2 6.9 6.2 8.6 7.2 6.2 6.6 9.4 6.6 7.5 8.8 8.8 6.2 11.2 8.9 6	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 110/160 NiI 120/180 1+ 100/148 NiI 69/113 NiI 115/196 NiI	6/18 6/12 6/- CF-2m CF-2m 6/- 6/6 6/6 6/6 6/24 6/36 6/- 6/9 6/9 6/6 6/- 6/6 6/6 6/- 6/36 6/6 6/- 6/36 6/24 6/- 6/36 6/60 6/- 6/36 6/60 6/- 6/24 6/12 6/- 6/18 6/6 6/- 6/19 6/6 6/- 6/9 6/6 6/- 6/9 6/6 6/- 6/12 6/9 6/- 6/12 6/9 6/-	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 12 24 6/18 17 24 6/36 15 -1m 6/12 15 9 6/6 18 6 6/6 18 9 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 18 6 6/6 13 6 6/6 13 6 6/6 13 6 6/6 13 6 6/6 13	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .3 12.2 normal .9 12.2 normal .9 12.2 normal .9 13.6 normal .9 13.6 normal .9 13.6 normal .9 13.6 normal .9 14.2 normal .9 15.9 normal .1 14.2 normal .1 14.2 normal .2 14.2 normal .3 12.2 normal .3 12.2 normal .4 13.3 Stye .5 13.2 Stye .7 13.3 Stye .9 13.3 normal .2 13.2 normal .3 10.3 normal .2 13.2 Stye .9 13.3 normal .2 15.9 Blepharitis .9 15.9 Blepharitis	normal normal normal stye normal normal normal normal normal normal normal normal normal stye normal normal normal normal normal normal normal stye normal Blepharitis normal stye normal normal Blepharitis	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Rormal Normal Cortical catara	Normal Normal Normal Sev NPDR Mild NPDR + Microand Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev NPDR Cortical cataract	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR Stye Sev NPDR CRVO Mild NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR COrtical cataract Blepharitis	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag Med Mag FRP Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 76 Sharanapp 65 Shantabai I 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Shatawaj 54 Shatawaj 54 Shatwaj 54 Shatwaj 54 Shatwaj 54 Shatwaj 54 Shatwaj 56 Shatawaj 57 Mallikarjur 50 Saydamma 50 Kamalabai 68 Parimala 58 B G Stavari 49 Sonabai Ra 70	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /F 1816 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21551 /M 2466 /M 29929 /F 2446 /F 29933 /M 30110 /F 29602 /M 30690 /F 30691	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 55 5yrs 84 9.5yrs 98 11 yrs 68 5yrs 37 11yrs 60 3yrs 26 2yrs 20 43yrs	Regular Irregular Regular Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 8.6 7.2 6.6 9.4 6.6 7.5 8.8 8.8 6.2 11.2 8.9 6	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 90/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+ 100/148 NiI 69/113 NiI 115/196 NiI	6/18 6/12 6/- CF-2m CF-2m 6/- 6/6 6/6 6/6 6/24 6/36 6/- 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/6 6/6 6/36 6/60 6/- 6/36 6/60 6/- 6/36 6/60 6/- 6/12 6/- 6/18 6/6 6/- 6/18 6/18 6/- 6/18 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/18 6/- 6/- 6/18 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/- 6/-	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 11 2 4 6/18 17 2 4 6/36 15 -1m 6/12 15 9 6/6 12 6 6/6 12 6 6/6 12 6 6/6 13 6 6/6 14 6 6/6 15 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 15	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .3 12.2 stye .2 12.2 normal .3 24.6 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .9 18.9 normal .9 15.9 normal .2 14.2 normal .2 14.2 normal .2 14.2 normal .3 12.2 normal .4 normal .9 15.9 Xanthelesm .3 12.2 normal .2 14.2 stye .1 13.2 Stye .1 13.2 normal .2 13.2 Stye .1 13.3 normal .2 12.2 normal .2 15.9 stye .1 10.3 normal	normal normal normal stye normal normal normal normal normal normal normal normal normal stya normal normal normal normal stya normal stye normal Stye normal normal stye normal normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Rormal Normal Cortical catara Normal Rormal Normal Rormal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal Sev NPDR PDR Construction Normal	Normal Normal Normal Normal Sev NPDR Mild NPDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev PDR Cortical cataract Blepharitis Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR CRVO Mild NPDR Sev NPDR DEPARATION OF THE NEW NPDR Mild NPDR Stye Sev NPDR Stye Sev NPDR PDR Cortical cataract Blepharitis Normal	Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 130 131 132 133 134 135 136 137 138 139 140 141	Lakshmiba 55 Siddappa 49 Neermala 55 Sharanapp 76 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangappa 75 Laxmibai D 54 Shatawaj 64 Shivappa 55 Jagdeesh 57 Mallikarjur 50 Saydamma 50 Kamalabai 60 Y Y Kabade 68 Parimala 58 B G Stavari 45 Sonabai Ra 70 S Y Malinm 48	/F 23113 /M 2784 /F 20812 /M 20784 /F 1816 /F 1816 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21552 /M 21554 /M 29929 /F 2446 /F 29933 /M 30110 /F 30691 /F 30691	30 3yrs 42 4yrs 42 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 48 9.5Yrs 84 9.5Yrs 98 11 yrs 68 5yrs 37 11yrs 04 3yrs 26 2yrs 20 4xyrs 27 1yr 00 New	Regular Irregular Regular Regular Regular Regular	6.2 6.6 8.6 6.2 6.9 6.2 6.2 6.2 6.2 6.6 7.2 6.6 7.5 8.8 8.8 6.2 11.2 8.9 6	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 99/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+ 100/148 NiI 69/113 NiI 115/196 NiI 115/196 NiI 115/196 NiI 115/196 NiI	6/18 6/12 6/12 6/16 CF-2m CF-2m 6/6 6/6 6/6 6/6 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 10 6 6/6 10 6 6/6 10 6 6/6 11 24 6/18 17 24 6/36 15 -1m 6/12 15 9 6/6 16 6 6/6 18 9 6/6 16 6 NI 14 9 6/9 15 6 6/6 16	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .15.9 normal .3 12.2 rormal .9 15.9 normal .9 12.2 normal .9 12.2 normal .9 18.2 normal .9 18.2 normal .9 18.5 normal .9 18.9 Xanthelesm .3 12.2 normal .2 14.2 lelepharitis .9 14.2 normal .2 14.2 stye .9 13.2 normal .1 normal .2 14.2 normal .2 14.2 lelepharitis .9 14.2 normal .1 normal .2 14.2 normal .2 14.2 lelepharitis .9 14.2 normal .1 normal .1 normal .2 13.2 stye .1 normal .2 13.3 logramal .3 10.3 normal .3 12.2 stye .9 17.3 normal .9 15.9 Blepharitis	normal normal normal stye normal normal normal normal normal normal normal normal normal stye normal normal normal normal normal stye normal Blepharitis normal normal Stye normal stye normal normal Chr Dacr	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical Normal Rormal Normal Rormal Normal Rormal Normal Rormal Normal Rormal	Normal Normal Normal Sev NPDR Mild NPDR + Microane Normal Sev NPDR PDR POR	Normal Normal Normal Normal Sev NPDR Mild NPDR Normal Sev NPDR PDR Normal Normal Normal Sev NPDR	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev NPDR Cortical cataract Blepharitis Mild NPDR Stye Sev NPDR DR Stye Sev NPDR DR D	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR CRYO Mild NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR Stye Sev NPDR DR Cortical cataract Blepharitis Normal Chr Dacr+Sev NPDR	Med mag Med mag Med mag Focal Laser Med mag Focal Laser Med mag Med mag Focal Laser Med mag Med mag Focal Laser	Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag Med Mag Med Mag Med Mag Focal Laser Med Mag Med Mag Med Mag Med Mag Med Mag Focal Laser
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122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 140 141 142 143 144 145 146 147 148 149 151 152 153	Lakshmiba 55 Siddappa 49 Neermala 151 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangappa 75 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 60 Sh	/F 23113 /M 2784 /F 20812 /F 20812 /M 20784 /F 1816 /F 1816 /M 1769 /F 21115 /F 21022 /M 1737 /M 1909 /F 21548 /M 21552 /M 21551 /M 21552 /M 2145 /M 25348 /M 29929 /F 2446 /F 29933 /M 30110 /F 29602 /M 30690 /F 30691 /M 30540 /M 30540 /M 30540 /M 30540 /M 30699 /M 30699 /M 30690 /M 30690 /M 30690 /M 30690 /M 30690 /M 30690 /M 31096 /M	30 3yrs 42 4yrs 42 14yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 99 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5yrs 84 9.5yrs 98 11 yrs 68 5yrs 68 5yrs 71 1yr 71	Regular Irregular Regular Irregular Regular Regular Irregular Regular Regular Regular Regular Regular Regular Regular Regular Regular Irregular Irregular Regular Regular Regular Irregular Irregular Irregular Irregular Irregular Irregular Irregular Irregular Regular Regular Regular Regular Regular Regular Regular Regular	6.2 6.6 6.6 8.6 6.2 6.2 8.6 7.2 6.6 9.4 6.6 7.5 8.8 6.2 11.2 8.9 6 6 6.1 6.9 6.4 6.8	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 99/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+ 100/148 NiI 69/113 NiI 115/196 NiI 101/136 NiI 101/136 NiI 101/136 NiI 100/156 NiI 100/156 NiI 100/164 NiI 100/164 NiI 100/164 NiI 100/164 NiI 100/164 NiI 100/164 NiI 100/166 NiI 100/167 NiI 100/167 NiI 101/176 NiI 103/201 NiI 110/176 NiI 110/176 NiI	6/18 6/12 6/12 CF-2m CF-2m 6/6 6/6 6/6 6/24 6/36 6/6 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/6 6/6 6/36 6/6 6/6 6/36 6/6 6/6 6/24 6/12 6/6 6/36 6/6 6/6 6/37 6/6 6/6 6/6 6/38 6/60 6/6 6/36 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 16 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 17 24 6/36 15 18 6/36 15 19 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 10	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .2 15.9 normal .2 15.9 normal .2 12.2 Stye .2 15.9 normal .3 12.2 normal .9 12.2 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .12 14.2 normal .2 14.2 normal .2 14.2 normal .3 12.2 normal .4 14.2 normal .5 15.9 normal .6 15.9 normal .7 16.9 normal .8 normal .9 15.9 normal .1 16.2 normal .1 17.3 normal .2 12.2 normal .3 10.3 normal .3 12.2 stye .3 10.3 normal .3 12.2 stye .3 10.3 normal .9 15.9 lBlepharitis .9 17.3 normal .9 12.2 normal .9 12.2 normal .9 13.2 normal	normal cormal normal sexanthelesm normal normal Blepharitis normal Chr Dacr normal normal Xanthelesm normal Recurrent st normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Cortical cataract Normal	Normal PSC Normal PSC + Cortical PSC	Normal Normal Normal Normal Sev NPDR Mild NPDR + Microand Normal Sev NPDR PDR Q Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal Sev NPDR PDR Normal	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Sev NPDR Zev NPDR Sev NPDR Ulcar Cortical cataract Blepharitis Normal Vitreous Hemorrhage with E Pterygium Blepharitis Pterygium Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR PDR Cortical cataract Blepharitis Normal Chr Dacr+Sev NPDR Normal P Cortical Cataract with Mild NPDR Xanthelesma Normal P Cortical Cataract with Mild NPDR Xanthelesma Rormal P Rormal R Recurrent Styes Pterygium Perforation Normal	Med mag Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag Med Mag Med Mag Focal Laser Med Mag Med Mag Focal Laser Med Mag Med Mag Focal Laser Med Mag
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122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 141 142 143 144 145 145 155 151 152	Lakshmiba 55 Siddappa 49 Neermala [51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 54 Shatawaji 56 Shatawaji 56 Shatawaji 60 Shatawaji 60 Shyana 50 Kamalabai 60 Y Y Kabade 68 Parimala 58 B G Stavarr 49 Sonabai Ra 70 S Y Malinin 48 S A Nadagd 50 Shrisashma 65 Sangamesi 45 Sangamesi 45 Sangamesi 45 Siddappa 70 Geetabai 50 Narmada P 58 Siddappa 70 Geetabai 70 Ra B Hadagl 54 Sumithra 56 Surappa Ja 70 Gurappa	/F 23113 //M 2784 //F 20812 //M 20784 //F 20812 //M 1769 //F 21115 //F 21022 //M 1737 //M 1909 //F 21548 //M 21552 //M 21551 //M 21552 //M 21551 //M 30690 //F 30690 //M 30690 //M 30690 //M 30690 //M 31254 //M 2133 //M 2267 //M 313265 //F 313265 //F 313265 //F 2845 //M 31254	30 3yrs 42 4yrs 20 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 90 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 27 20yrs 28 4 9.5yrs 37 11yrs 68 5yrs 37 11yrs 60 3yrs 60 4,5yrs 61 1yrs 62 2yrs 63 3yrs 64 9.5yrs 65 5yrs 68 5yrs 71 1yr	Regular Irregular Regular Irregular Regular Irregular Regular	6.2 6.6 6.6 8.6 6.2 6.9 6.2 6.2 6.2 6.6 7.2 6.6 9.4 6.6 7.5 8.8 8.8 6 6 6 8 9.6 6 6 8.8 6 7.2 8.9 6 6 9.4 6.6 7.5 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 99/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 121/205 NiI 230/319 NiI 121/205 NiI 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+ 100/148 NiI 120/180 1+ 100/148 NiI 100/148 NiI 100/148 NiI 100/148 NiI 100/148 NiI 100/160 NiI 115/196 NiI 101/136 NiI 100/156 NiI 1160/260 1+ 220/360 NiI 110/176 NiI 1160/200 NiI 1160/260 1+ 96/146 NiI	6/18 6/12 6/12 CF-2m CF-2m 6/6 6/6 6/6 6/6 6/9 6/9 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16	3 12.2 normal .2 14.2 normal .2 15.9 normal .2 12.2 Stye .2 15.9 normal .3 24.6 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .9 18.2 normal .2 14.2 normal .2 14.2 normal .2 14.2 normal .3 12.2 normal .4 12.2 normal .5 15.9 normal .6 15.9 normal .7 15.9 normal .8 15.9 normal .9 15.9 normal .1 15.9 normal .2 15.9 normal .2 16.2 normal .3 10.3 normal .3 10.3 normal .4 10.3 normal .5 15.9 normal .7 15.9 normal .9 17.9 normal .9 17.9 normal .9 17.1 normal .9 17.2 normal .9 18.2 normal .9 17.3 normal	normal sa Xanthelesm normal Blepharitis normal normal Chr Dacr normal normal Xanthelesm normal Recurrent st normal normal Normal normal Normal Normal normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Pseudo P Normal	Normal PSC Normal PSC + Cortical PSC	Normal Normal Normal Normal Sev NPDR Mild NPDR + Microand Normal	Normal Normal Normal Sev NPDR Mild NPDR Normal Norm	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Mod NPDR Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev NPDR Zanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev NPDR Ucer Cortical cataract Blepharitis Normal Stye with Sev NPDR Ulcer Cortical cataract with Mild N Normal Normal Vitreous Hemorrhage with E Pterygium Blepharitis Pterygium Blepharitis Normal Normal Mod NPDR with 3rd CN pals Normal Normal Normal Normal Normal Normal Mod NPDR with 3rd CN pals Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Sev NPDR Sev NPDR Mild NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR Cortical cataract Blepharitis Normal Chr Dacr+Sev NPDR Normal Chr Dacr+Sev NPDR Normal PCortical Cataract with Mild NPDR Xanthelesma Normal PCORTICAL CATARACT WITH MILD NPDR Recurrent Styes Pterygium Perforation Normal Pterygium + Mod NPDR + 3rd Cn Palsy Xanthelesma Sev PDR with CSME	Med mag Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Med Mag Focal Laser Med Mag Focal Laser Med Mag
122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 140 141 142 143 144 145 146 147 148 149 150 151 152 153	Lakshmiba 55 Siddappa 49 Neermala I 51 Sharanapp 71 Hazarthi Cl 60 Sharanapp 65 Shantabai I 60 Basavraj H 47 Mallikarjur 55 Sangappa (75 Laxmibai D 54 Sharkawaj 54 Shatawaj 54 Shatawaj 54 Shatawaj 54 Shivappa 55 Jagdeesh 57 Mallikarjur 50 Saydamma 50 Kamalabai 60 Y Y Mabade 68 Parimala 58 B G Stavarr 49 Sonabai Ra 70 S Y Mallimr 48 S A Nadago 50 Shrisashma 65 Sangames 45 Madiwalar 50 Chandraka 50 Rajendra P 58 Siddappa 70 Geetabai 50 Narmada P 67 R B Hadagl 54 Sumithra 59	/F 23113 //M 2784 //F 20812 //M 20784 //F 20812 //M 20784 //F 1816 //M 1769 //F 21115 //F 21022 //M 1737 //M 1909 //F 21548 //M 21552 //M 21551 //M 21552 //M 2145 //M 29929 //F 29933 //M 30110 //F 29602 //M 30690 //M 30690 //M 30690 //M 30690 //M 30690 //M 31100 //F 311100	30 3yrs 42 4yrs 42 12yrs 43 5yrs 67 New 92 1yr 53 2yrs 26 1yr 78 New 99 8yrs 87 7yrs 27 6mon 16 12yrs 27 20yrs 55 5yrs 84 9.5yrs 84 9.5yrs 86 5yrs 87 11yrs 88 11 yrs 98 11 yrs 99 3yrs 91 11yrs 90 New 91 3yrs 91 1yrs 91 1yrs 93 4yrs 94 3yrs 97 1yr 98 7yrs 99 1yr	Regular Irregular Regular Irregular Regular Irregular Regular Regular Regular Regular Regular Regular Regular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular	6.2 6.6 6.6 8.6 6.2 6.9 6.2 6.2 6.6 6.6 7.2 6.6 6.6 7.5 8.8 8.8 6.2 11.2 8.9 6 6 8 9.6 6.3 6.4 6.9 6.4 6.9 6.9 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	116/178 NiI 93/201 NiI 131/208 1+ 188/227 NiI 99/180 NiI 178/340 NiI 110/178 NiI 121/205 NiI 230/319 NiI 121/205 NiI 230/345 1+ 110/160 1+ 120/190 NiI 171/310 1+ 165/215 2+ 210/346 NiI 130/235 N1+ 115/230 NiI 110/160 NiI 120/180 1+ 100/148 NiI 15/196 NiI 100/148 NiI 100/148 NiI 100/148 NiI 100/148 NiI 100/148 NiI 100/148 NiI 115/196 NiI 110/160 NiI 120/180 1+ 100/164 NiI 110/176 NiI 116/200 NiI 116/200 NiI 116/201 NiI 116/201 NiI 116/201 NiI 116/176 NiI 116/176 NiI 116/176 NiI	6/18 6/12 6/12 CF-2m CF-2m 6/6 6/6 6/6 6/6 6/9 6/9 6/9 6/6 6/6 6/6 6/36 6/6 6/6 6/36 6/6 6/6 6/36 6/60 6/6 6/24 6/12 6/12 6/12 6/9 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	9 6/9 10 12 6/18 14 6 6/6 18 12 6/12 13 6 6/6 16 16 6/6 16 6 6/6 16 6 6/6 16 6 6/6 16 24 6/18 17 24 6/18 17 25 6/6 18 6	3 12.2 normal .2 14.2 normal .9 15.9 normal .2 15.9 normal .3 12.2 Stye .2 15.9 normal .3 12.2 normal .9 12.2 normal .9 13.6 normal .1 1.2 normal .1 1.2 normal .2 14.2 normal .2 14.2 normal .3 12.2 normal .3 12.2 normal .4 13.2 Stye .1 13.2 Stye .1 13.3 normal .2 14.2 normal .2 15.9 normal .2 15.9 normal .3 10.3 normal .2 12.2 normal .9 15.9 Blepharitis .9 17.3 normal .1 12.2 normal .1 12.2 normal .1 12.2 normal .2 12.2 normal .2 12.2 normal .3 12.2 stye .3 normal .3 12.2 normal .9 15.9 Blepharitis .9 17.3 normal	normal normal normal normal stye normal stye normal Blepharitis normal normal normal stye normal Stye normal normal normal Reurrent normal Recurrent st normal normal normal normal Recurrent st normal normal normal normal Normal normal Normal normal	normal	normal	normal	normal	normal	normal	Normal PSC Normal Pseudo P Normal Cortical cataract Normal Pseudo P Normal	Normal PSC Normal PSC + Cortical Normal PSC + Cortical Normal	Normal Normal Normal Normal Sev NPDR Mild NPDR + Microand Normal Mormal Mormal Mormal Mormal Mormal Mormal Mormal Mormal	Normal Normal Normal Sev NPDR Mild NPDR Normal Sev PDR with CSME	Normal PSC Normal Pseudo P with sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal Normal Mod NPDR Normal Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis Mild NPDR Stye Sev NPDR PDR Cortical cataract Blepharitis Normal Stye Sev NPDR PDR Cortical cataract Blepharitis Normal Stye with Sev NPDR Ulcer Cortical cataract with Mild N Normal Normal Normal Vitreous Hemorrhage with E Pterygium Blepharitis Normal Mod NPDR with 3rd CN pals Normal	Normal PSC Normal PSC + Cortical cataract with Sev NPDR Stye + Mild NPDR Cortical cataract Normal Normal POAG Mod NPDR CRVO Mild NPDR Sev NPDR Xanthelesma Mod NPDR Blepharitis with PDR Mild NPDR Stye Sev NPDR Ortical cataract Blepharitis Normal Chr Dacr+Sev NPDR Normal P Cortical Cataract with Mild NPDR Xanthelesma Normal P Perforation Normal P Perforation Normal P Petrygium + Mod NPDR + 3rd Cn Palsy Xanthelesma	Med mag Med mag Med mag Med mag Focal Laser Med mag	Med Mag Med Mag Med Mag Med Mag Focal Laser Med Mag

159 Madivalem 50	F 27219 13yrs	irregular	7.4	166/238 2+	6/36 6/60	6/24 6	6/12 15.9	15.9 stye	Stye	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Stye	Med mag	Med Mag
160 Kasturibai 65,	F 305407 14 yrs		7.2	136/196 1+	<u> </u>	6/9 6	6/9 13.2		normal	normal	normal	normal		normal	normal	Pseudo P	Pseudo P	Mod NPDR	Mod NPDR	Pseudo P + Mod NPDR	Pseudo P + Mod NPDR	Med mag	Med Mag
	M 19404 5yrs	Regular	6.9	110/170 Nil	CF-1m cf-1.5m	6/60 6	6/60 18.9	15.9 normal	normal	normal	normal	normal	normal	normal	normal	PSC+NSII Catarac	PSC+NSII Cata	raMild NPDR	Mild NPDR	PSC+NSII+Mild NPDR	PSC+NSII+Mild NPDR	Med mag	Med Mag
162 Vishwanatl 41,		Regular	7	116/160 Nil	6/9 6/9	6/6 6	6/6 13.2	10.3 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
163 Shantabai 60, 164 Mallappa T 55,		irregular irregular	6.7 8.6	183/410 Nil 170/280 Nil	CF-3M CF-3m 6/36 6/18	-	NI 14.2 6/9 13.4	15.9 Normal 14.2 normal	Stye normal	normal	normal	normal		normal normal	normal	Cortical cataract			Mild NPDR Normal	Cortical Cataract+Mild NPDR Cortical cataract	Stye+Cortical cataract+Mild NPDR Cortical cataract	Med mag Med mag	Med Mag Med Mag
165 Danakka Bi 57			6.6	170/204 Nil	 		6/6 15.9	14.2 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
166 Sadashiv 55	M 265431 4yrs	Regular	6.6	186/240 Nil	6/36 6/36	6/9 6	6/12 18.9	15.9 Blepharitis	Blepharitis	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Blepharitis	Blepharitis	Med mag	Med Mag
	M 274335 6yrs	irregular	8	120/168 Nil	6/9 6/9	-, -	6/6 10.3	10.3 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
168 Sangappa F53,		irregular	8.2	160/266 Nil	6/24 CF-3m	6/18 6	6/6 15.9	14.2 normal	normal	normal	normal	normal		normal	normal	Cortical Cataract		Early PDR	Early PDR+CSME	Cortical cataract+Early PDR	Cortical cataract+PDE+CSME	PRP	PRP
169 Sharada 51, 170 Shettappa 50,	F 272777 6yrs M 36354 2yrs	irregular Regular	6.6	171/290 Nil 110/156 Nil	6/6 6/6 6/24 6/18	6/9 6	6/6 10.3 6/6 14.2	13.2 normal 14.2 Blepharitis	normal Xanthelesma	normal	normal	normal		normal normal	normal	Normal	Normal Normal	Mild NPDR Normal	Mild NPDR Normal	Mild NPDR Blepharitis	Mild NPDR Xanthelesma	Med mag Med mag	Med Mag Med Mag
171 Prakash Ra 37		Regular	7.8	100/146 Nil		_	6/9 15.9	14.2 normal	normal	normal	normal	normal		normal	normal	Normal	Cortical	Normal	Normal	Normal	Cortical	Med mag	Med Mag
172 Shankargo 56	M 313763 12yrs	Regular	7.6	103/235 Nil	CF-2m 6/9	CF-2m 6	6/6 10.3	13.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Mod NPDR	Mod NPDR	Mod NPDR	Mod NPDR	Med mag	Med Mag
	M 313328 1.5yrs	- u	6.3	118/179 Nil		-, -	6/6 13.2	13.2 normal	normal	normal	normal	normal	-	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
174 Bhagirathi 69, 175 Raju Dalaw 47,	F 254120 8yrs M 313290 11yrs	Regular Regular	6.9	106/180 Nil 112/216 Nil	<u> </u>		6/6 15.9 6/6 18.9	17.9 Stye 15.9 normal	normal normal	normal	normal	normal	-	normal normal	normal	Cortical cataract Normal	PSC Normal	Normal Mild NPDR	Normal Mild NPDR+CSME	Stye+Cortical cataract Mild NPDR	PSC Mild NPDR+CSME	Med mag Med mag	Med Mag PRP
176 Paravathi 60	F 28492 7yrs	irregular	10.7	200/366 Nil	6/6 HM	-, -	NI 15.9	14.2 normal	normal	normal	normal	normal		normal	normal	Pseudo P	Brownish NSII	Mod NPDR	Glow absent	Pseudo P + Mod NPDR	NSII cataract	Med mag	Med Mag
177 Ranganna 48,			6.4	108/168 Nil	-, -	-, -	6/6 13.2	+ +	Normal	Pterigium	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Pterygium	Normal	Med mag	Med Mag
178 Neelkanth 66,	M 304791 26yrs	Regular	7.4	209/253 2+	6/12 6/12	6/9 6	6/9 17.9	15.9 normal	normal	normal	normal	normal	normal	normal	normal	PSC+ NSII	PSC+NSII Cata	ra Mod NPDR	Mod NPDR+CSME	PSC+NSII+Mod NPDR	PSC+NSII+Mod NPDR+CSME	Med mag	Focal Laser
179 Siddappa B 45,			8.4	190/296 Nil	6/6 6/6	6/6 6	6/6 10.3	12.2 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Dry ARMD	Dry ARMD	Dry ARMD	Dry ARMD	Med mag	Med Mag
180 Bangarawy 80, 181 Hanu Chay 62,		irregular irregular	6.3	187/260 1+ 180/280 Nil	CF-3M CF-1m 6/6 6/6		NI 14.2 6/6 15.9	12.2 Pterygium 14.2 Xanthelesma	Normal	Pterigium normal	normal	normal		normal normal	normal	NS-III Cataract Normal	NS III cataract Normal	Mild NPDR Normal	Mild NPDR Normal	Pterygium+NS III +Mild NPDI Xanthelesma	Xanthelesma	Med mag Med mag	Med Mag Med Mag
182 Gangamma Te		Regular	6.8	140/240 Nil	-, -		6/24 10.3	12.2 normal	normal	normal	normal	normal	-	normal	normal	Normal	Normal	Early ARMD	Early ARMD	Early ARMD	Early ARMD	Med mag	Med Mag
183 Ramappa F 54,		Regular	7	90/175 Nil	<u> </u>		6/6 14.2	15.9 Stye	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal		Stye	Cor ulcer	Med mag	Med Mag
184 Huvanna A 72,		- u	6.6	-, -	-,-		6/6 18.9	15.9 Blepharitis		normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Blepharitis	Normal	Med mag	Med Mag
185 Arjun Vand 58,		Regular	6.4	 			6/6 13.2	14.2 Normal	Normal	normal	normal	normal		normal	normal	Normal Cortical+NSII	Normal Subluvated in	Normal it Mod NRDR	Normal Mod NRDR	Normal Cortical+NSII + Mod NPDR	Normal Subjuvated lons+Med NPDP	Med mag	Med Mag
186 Pandappa 60, 187 G K Birada 72	M 7859 9yrs M 81444 2yrs	irregular Regular	7.2	118/178 Nil 102/156 Nil	CF-3M CF-3M 6/6 6/6	6/6	6/60 15.9 6/6 10.3	10.3 normal 10.3 Normal	normal Normal	normal	normal	normal		normal normal	normal	Cortical+NSII Normal	Subluxated -in	Mod NPDR Normal	Mod NPDR Normal	Normal	Subluxated lens+Mod NPDR Normal	Med mag Med mag	Med Mag Med Mag
188 Vishal Bida 50,		Ŭ	7	114/166 Nil	6/6 6/6	6/6 6	6/6 18.9	15.9 Normal	Normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
	M 37324 4.5Yrs	Regular	10.2	166/256 1+	6/60 CF-1M	_	NI 14.2	12.2 normal	normal	normal	normal	normal	normal	normal	normal	Normal	Cortical catara	Sev NPDR	Sev NPDR	Sev NPDR	Cortical+PSC + Sev NPDR	PRP	PRP
190 Ravindrana 50, 191 Shankar Hi 60.		Regular	6.4	180/280 Nil	6/9 6/6	_	6/6 15.9	14.2 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
191 Shankar Hi 60, 192 Rajendra K 51,		irregular Regular	7.8 6.4	260/340 Nil 96/146 Nil			6/9 10.3 6/6 10.3	12.2 normal 15.9 Normal	normal Normal	normal	normal	normal		normal normal	normal	Normal Normal	Normal	Mod NPDR Normal	Mod NPDR Normal	Mod NPDR Normal	Mod NPDR Normal	Med mag Med mag	Med Mag Med Mag
193 Ashok Nara 45			6.4	130/200 Nil	-,, -		6/6 15.9	15.9 Normal	Normal	normal	normal	normal		normal	normal	Normal	Normal	BRAO	Normal	BRAO	Normal	Med mag	Med Mag
194 Shrishail 70	M 9406 11yrs	Regular	6.4	92/158 Nil	6/60 6/60	6/24 6	6/24 18.9	15.9 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Mild NPDR	Mild NPDR	Mild NPDR	Mild NPDR	Med mag	Med Mag
195 Laxman Hd 57,		Regular	7.4	145/287 Nil			6/24 15.9	13.4 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Mod NPDR	Mod NPDR	Mod NPDR	Mod NPDR	Med mag	Med Mag
196 S R Narale 80, 197 Arjun Bidai 55,	M 35566 15yrs M 34365 15yrs	irregular	7.4 7.2	134/190 2+ 140/240 1+	6/18 6/24	6/18 6	6/18 17.3	15.9 Normal 13.4 normal	Normal normal	normal	normal	normal		normal normal	normal	Pseudo P Cruciform Catara	Pseudo P Cruciform Cata	Normal Mod NPDR	Normal Mod NPDR	Pseudo P	Pseudo P Cruciform cataract+ Mod NPDR	Med mag Vitrectomy	Med Mag
197 Arjun Bidar 55,		irregular Regular	6.4	140/240 1+ 110/160 Nil	6/18 6/18	6/6 6	6/6 17.3	17.3 normal	normal	normal	normal	normal		normal	normal	Normal	Normal	Sev NPDR	Sev NPDR	Sev NPDR + Asteroid H	Sev NPDR + Asteroid H	Med mag	Vitrectomy Med Mag
199 Chandappa 60,			8.8	80/128 Nil	6/36 CF-3M	6/12 6	6/60 14.6	17.3 normal	normal	normal	normal	normal	-	normal	normal	Pseudo P	PSC + Nuclear	I Sev NPDR	Sev NPDR	Sev NPDR+PP	Sev NPDR+PSC	Med mag	Med Mag
200 N R Jadhav 84	M 300387 25yrs	irregular	7	164/250 2+	CF-3M 6/24	NI 6	6/18 12.2	13.4 normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Wet AMD	Dry ARMD	Wet ARMD	Dry ARMD	Med mag	Med Mag
		<u> </u>			,								1 . 1	-				1 .					
201 Tarabai Ra 62,	F 291778 1yr	Regular	6.8	159/264 Nil	6/12 CF-3m		NI 10.3	14.6 normal	Normal	normal	normal	normal		normal	normal	1	1 .	Normal	Normal	Normal	NSII cataract	Med mag	Med Mag
	F 291778 1yr F 291898 1mon		6.8 8.2 6.9	139/380 Nil	6/12 CF-3m 6/6 6/6	6/6 6	NI 10.3 6/6 14.6 6/6 10.3	+	Normal Normal normal	normal normal	normal normal	normal normal	normal	normal normal	normal normal	Mature cataract Normal Normal	NSII cataract Normal Normal	Normal Normal	Normal Normal	Normal Normal Normal	NSII cataract Normal Normal	Med mag Med mag Med mag	Med Mag Med Mag Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Ga 50,	F 291778 1yr F 291898 1mon	Regular	8.2	139/380 Nil	6/12 CF-3m 6/6 6/6	6/6 6 6/6 6	6/6 14.6	15.9 normal	Normal	normal	normal	normal	normal normal	normal	normal	Normal	Normal Normal NS II Cataract	Normal	Normal	Normal	Normal	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs	Regular Regular irregular irregular	8.2 6.9 7.4 7.2	139/380 Nil 116/138 Nil 148/261 1+ 113/215 1+	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9	6/6 6 6/6 6 6/36 N 6/9 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal	Normal normal Normal normal	normal normal normal Pterigium	normal normal normal Pterigium	normal normal normal	normal normal normal	normal normal normal	normal normal normal	Normal Normal Normal PSC	Normal Normal NS II Cataract PSC	Normal Normal Normal	Normal Normal Normal	Normal Normal Normal PSC	Normal Normal NSII cataract PSC	Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Med Mag Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gal 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs	Regular Regular irregular irregular Regular	8.2 6.9 7.4 7.2 8	139/380 Nil 116/138 Nil 148/261 1+ 113/215 1+ 146/296 Nil	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal	Normal normal Normal normal	normal normal normal Pterigium normal	normal normal normal Pterigium normal	normal normal normal normal	normal normal normal normal	normal normal normal normal	normal normal normal normal	Normal Normal Normal PSC Normal	Normal Normal NS II Cataract PSC Normal	Normal Normal Normal Normal Mod NPDR	Normal Normal Normal Normal Mod NPDR	Normal Normal Normal PSC Mod NPDR	Normal Normal NSII cataract PSC MOd NPDR	Med mag Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Med Mag Med Mag Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gal 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs	Regular Regular irregular irregular	8.2 6.9 7.4 7.2	139/380 Nil 116/138 Nil 148/261 1+ 113/215 1+	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/18 C	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal	Normal normal Normal normal	normal normal normal Pterigium	normal normal normal Pterigium	normal normal normal	normal normal normal normal normal	normal normal normal	normal normal normal	Normal Normal Normal PSC	Normal Normal NS II Cataract PSC	Normal Normal Normal	Normal Normal Normal	Normal Normal Normal PSC	Normal Normal NSII cataract PSC	Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Med Mag Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs	Regular Regular irregular irregular Regular	8.2 6.9 7.4 7.2 8 6.8	139/380 Nil 116/138 Nil 148/261 1+ 113/215 1+ 146/296 Nil 118/168 Nil 170/270 Nil	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/18 C	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 10.3 normal	Normal normal Normal normal Normal	normal normal normal Pterigium normal	normal normal normal Pterigium normal	normal normal normal normal normal	normal normal normal normal normal normal	normal normal normal normal normal	normal normal normal normal normal	Normal Normal Normal PSC Normal NS II Cataract	Normal Normal NS II Cataract PSC Normal NS III cataract	Normal Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Normal Mod NPDR Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract	Normal Normal NSII cataract PSC MOd NPDR NS III cataract	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gal 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs	Regular Regular irregular irregular Regular Regular Regular Regular irregular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/18 0 6/60 6 6/60 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 10.3 normal 14.2 Normal 14.2 Normal	Normal normal Normal normal Normal Normal normal Normal	normal normal Pterigium normal normal normal normal normal normal	normal normal normal Pterigium normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	Normal Normal Normal PSC Normal NS II Cataract Normal PSC Normal	Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal	Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal	Med mag prp Med mag Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gau 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs	Regular Regular irregular irregular Regular Regular Regular Regular Regular irregular Regular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6	6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/66 11.3	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 10.3 normal 14.2 Normal 14.2 Normal 17.3 Normal	Normal normal Normal normal Normal Normal normal Normal Normal	normal normal normal Pterigium normal normal normal normal normal	normal normal normal Pterigium normal normal normal normal normal normal	normal	normal	normal normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal normal	Normal Normal Normal PSC Normal NS II Cataract Normal PSC Normal	Normal Normal NS II Cataract PSC Normal NS III cataract NS III cataract Normal PSC Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal	Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Normal	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gau 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs	Regular Regular irregular irregular Regular Regular Regular Regular Regular Regular irregular Regular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 6.4	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 PL cf-1.5m	6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/66 11.3 NI 17.3	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 10.3 normal 14.2 Normal 14.2 Normal 17.3 Normal 17.3 normal	Normal normal Normal normal Normal Normal Normal Normal normal normal	normal normal normal Pterigium normal normal normal normal normal normal normal	normal normal Pterigium normal normal normal normal normal normal	normal	normal	normal	normal normal normal normal normal normal normal normal normal normal	Normal Normal Normal PSC Normal NS II Cataract Normal PSC Normal PSC Normal Normal Mature cataract	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal Normal Intemuscent C	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Normal Mature cataract	Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gau 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs	Regular Regular irregular irregular Regular Regular Regular Regular Regular irregular Regular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6	6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 11.3 NI 17.3 6/18 14.6	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 10.3 normal 14.2 Normal 14.2 Normal 17.3 Normal 17.3 normal	Normal normal Normal normal Normal Normal normal Normal Normal	normal normal normal Pterigium normal normal normal normal normal	normal normal normal Pterigium normal normal normal normal normal normal	normal	normal	normal normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal normal	Normal Normal Normal PSC Normal NS II Cataract Normal PSC Normal	Normal Normal NS II Cataract PSC Normal NS III cataract NS III cataract Normal PSC Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal	Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Normal	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendra 36, 214 Madevi 49, 215 Shantidevi 70,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs M 2014412 2yrs F 49955 9yrs F 49955 9yrs F 50429 3yrs	Regular Regular irregular irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 6.4 7.6	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/36 6/36 6/34 6/24 6/12 6/12	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/18 C 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 NI N 6/18 6 6/24 6 NI N	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9	15.9 normal 14.2 normal 17.3 Normal 15.9 Normal 15.9 Normal 16.3 normal 16.3 normal 16.4 Normal 17.3 Normal 14.2 Normal 17.3 Normal 17.3 normal 17.3 normal 17.3 normal 17.4 normal 17.5 normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal	Normal	normal normal normal Pterigium normal	normal normal normal Pterigium normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal Normal Intemuscent C Normal Normal Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal a Normal a Normal ta Normal A Normal A Normal Normal A Normal Normal A Normal Normal Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal Normal Normal High risk PDR Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Normal	Normal Normal NSII cataract PSC MOM NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamm 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New	Regular Regular irregular irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8.2 8.2 6.6 6.4 7.6 7	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 PL cf-1.5m 6/36 6/36 6/24 6/24 6/12 6/12 6/6 6/6	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/36 C 6/6 6 6/18 C 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 NI NI N 6/18 6 6/24 6 NI NI N 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 17.3 Normal 17.3 Normal 14.2 Normal 14.2 Normal 14.3 Normal 17.3 Normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal 17.9 normal 17.9 normal 17.9 normal 17.9 normal	Normal	normal normal normal Pterigium normal	normal normal normal Pterigium normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal Normal Mature cataract Cortical Normal Normal Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal Normal Normal Normal Normal Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal Normal Normal Normal Normal High risk PDR Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Normal Normal Normal	Normal Normal NSII cataract PSC MOD NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal Normal Normal Normal	Med mag prp Med mag	Med Mag Prp Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamm 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawwa 40,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 50429 3yrs F 50429 3yrs M 2014519 New F 1253 1yr	Regular Regular irregular irregular Regular Irregular Regular Regular	8.2 6.9 7.4 7.2 8 6.8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/34 6/24 6/12 6/12 6/6 6/6 6/6 6/6	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/18 6 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 6/6 10.3 6/6 10.3 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 12.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.3 Normal 14.2 Normal 14.2 Normal 17.3 Normal 17.3 Normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.8 normal 17.9 normal 17.9 normal 17.9 normal 17.9 normal	Normal	normal normal normal Pterigium normal	normal normal normal Pterigium normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal Normal Normal Mature cataract Cortical Normal Normal Normal Normal Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal Normal Intemuscent C Normal Normal Normal Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal High risk PDR Normal Normal Normal Normal Normal High risk PDR Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal Normal High risk PDR Normal Normal Normal Normal Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Normal Normal Normal Normal Normal Normal	Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal Normal Normal Normal Normal Normal Normal	Med mag Prp Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamm 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 50429 3yrs M 2014519 New F 1253 1yr /F 7568 3mon	Regular Regular irregular irregular Regular Irregular Regular Regular	8.2 6.9 7.4 7.2 8 6.8 8.2 8.2 6.6 6.4 7.6 7	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/114 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/34 6/24 6/12 6/12 6/6 6/6 6/6 6/6	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/8 C 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/18 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 6/6 10.3 6/6 10.3 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 6/6 17.3	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 17.3 Normal 17.3 Normal 14.2 Normal 14.2 Normal 14.2 Normal 17.3 normal 17.3 normal 17.4 normal 17.2 normal 14.2 normal 14.2 normal 14.2 normal 15.9 normal 17.3 normal	Normal	normal normal normal Pterigium normal	normal normal normal Pterigium normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal Normal Mature cataract Cortical Normal Normal Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal Normal Normal Normal Normal Normal Normal Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal	Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal Normal Normal Normal Normal High risk PDR Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Normal Normal Normal	Normal Normal NSII cataract PSC MOD NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal Normal Normal Normal	Med mag prp Med mag	Med Mag Prp Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawwa 40, 218 Dnyaneshw 35, 219 Kashibai D 55, 220 M H Utama 52,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 12yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 2955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 7568 3mon F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs	Regular Regular Irregular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 7 6.4 7.8 6.6 9 7.1	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/114 NiI 98/110 NiI 136/206 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/24 6/24 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/6 6/6 6/12 6/12 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 0/6/6 10.3 6/6 10.3 6/6 10.3	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 15.9 Normal 16.3 normal 14.2 Normal 17.3 Normal 14.2 Normal 17.3 Normal	Normal	normal normal normal Peterigium normal	normal normal Pterigium normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal NS II Cataract Normal PSC Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Sev NPDR	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Sey NPDR Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Sey NPDR Normal	Normal Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal Normal Normal Normal Normal Sev NPDR Normal	Med mag Prp Med mag	Med Mag
201 Tarabai Rai 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrag 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanappi 60, 217 Siddhawwa 40, 218 Dnyaneshy 35, 220 M H Utama 52, 221 Basavraj 44,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 7568 3mon F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs	Regular Regular Irregular Irregular Regular	8.2 6.9 7.4 7.2 8 8.8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6 9 7.1 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/114 NiI 98/110 NiI 136/206 NiI 136/206 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/12	6/6 6 6/6 6 6/36 N 6/9 6 6/9 6 6/6 6 6/9 6 6/9 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 6/6 10.3 6/18 14.6 6/6 10.3 6/6 10.3	15.9 normal 14.2 normal 17.3 Normal 15.9 Normal 15.9 Normal 16.2 normal 17.3 Normal 17.3 Normal 17.3 Normal 14.2 Normal 17.3 Normal 17.3 Normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal 17.9 Normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal a Normal a Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal High risk PDR Normal Mod NPDR	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Normal Normal Normal Normal Sev NPDR Normal Normal Normal Normal Normal Normal	Normal Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal Normal Normal Normal Sev NPDR Normal	Med mag prp Med mag	Med Mag
201 Tarabai Rai 62, 202 Shreedevi 28, 203 Vishnu Gai 50, 204 Khajisab 65, 205 Mallawa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamm 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhaww; 40, 218 Dnyaneshv 35, 219 Kashibai D 55, 220 M H Utami 52, 221 Basavraj 44, 222 Savithri 48,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 7568 3mon F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs	Regular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8.2 8.2 6.6 6.4 7,7 6.4 7.8 6.6 9 7.1 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/114 NiI 98/110 NiI 136/206 NiI 210/286 NiI 200/290 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/24 6/24 6/12 6/12 6/6 6/6 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/6 6/6 6/6 6/6 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/8 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 NI NI N 6/6 6 6/6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 6/6 14.6 6/6 10.3	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 15.9 Normal 17.3 Normal 16.2 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal 17.9 Normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal Normal Mature cataract Cortical Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal	Normal Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal	Normal Normal Normal NSII cataract PSC MOD NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal	Med mag	Med Mag
201 Tarabai Rai 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrag 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanappi 60, 217 Siddhawwa 40, 218 Dnyaneshy 35, 220 M H Utama 52, 221 Basavraj 44,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 7568 3mon F 529 4yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs	Regular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 8.8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6 9 7.1 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 140/256 NiI 140/256 NiI 94/176 NiI 94/114 NiI 98/110 NiI 136/206 NiI 210/286 NiI 200/290 NiI 170/229 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/12	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/18 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 NI NI N 6/18 6 6/24 6 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 11.3 NI 17.3 6/6/2 10.3 NI 15.9 6/6 12.2 6/6 17.3 0/6 14.6 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3 6/6 10.3	15.9 normal 14.2 normal 17.3 Normal 15.9 Normal 15.9 Normal 16.2 normal 17.3 Normal 17.3 Normal 17.3 Normal 14.2 Normal 17.3 Normal 17.3 Normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal 17.9 Normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal a Normal a Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal High risk PDR Normal Mod NPDR	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Normal Normal Normal Normal Sev NPDR Normal	Normal Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Normal Normal Normal Normal Sev NPDR Normal	Med mag prp Med mag	Med Mag
201 Tarabai Ra 62 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawa 40, 218 Dnyaneshy 35, 220 M H Utam 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 96, 224 Shantabai 75, 225 Chandapp 65,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 11yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 1253 1yr F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs F 1489 2yrs F 1489 2yrs F 1489 2yrs F 1489 2yrs F 1337 2.5yrs M 46719 5yrs	Regular Regular Irregular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6 9 7.1 6.8 7.2 7.2 7.2 6.4	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 256/307 NiI 256/307 NiI 250/310 NiI 250/310 NiI 40/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 140/256 NiI 176/290 NiI 176/290 NiI 170/229 NiI 160/198 1+ 220/310 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/24 6/26 6/6 6/6 6/6 6/6 6/6 6/18 6/18 6/18	6/6 6 6/6 6 6/6 6 6/9 6 6/6 6 6/9 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 NI NI N 6/18 6 6/24 6 NI N 6/18 6 6/6 6 6/	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/36 15.9 6/6 13.2 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 12.2 6/6 12.2 6/6 10.3 6/18 14.6 6/6 10.3 6/18 14.6 6/6 10.3 6/18 14.6 6/6 10.3 6/18 14.6 6/6 10.3 6/18 14.6 6/6 10.3 6/18 14.6 6/6 10.3 6/18 14.6	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.3 Normal 14.2 Normal 14.2 Normal 17.3 normal 14.6 Normal 12.2 normal 14.2 normal 14.2 normal 14.2 normal 14.2 normal 15.9 normal 17.3 normal 14.1 Normal 15.9 normal 14.2 Normal 14.2 Normal 14.2 Normal 14.3 Normal 14.4 Normal 15.9 Normal 15.9 Normal 15.9 Normal 15.9 Normal 16.9 Normal 16.9 Normal 16.9 Normal 16.9 Normal 16.9 Normal 16.9 Normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal NS II Cataract Normal PSC Normal	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal	Normal Normal Normal Normal Mod NPDR Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Normal High risk PDR Normal Mod NPDR Normal Normal Mod NPDR Normal Normal Normal	Normal Normal Normal Normal Normal Mod NPDR Normal Mod NPDR Normal Normal Normal Normal High risk PDR Normal Sev NPDR Normal Mod NPDR Normal Normal Normal Mod NPDR Normal Normal Normal Sev NPDR	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Normal Mature cataract High risk PDR Normal Pseudo P Aphakia + Sev NPDR	Normal Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal	Med mag Prp Med mag	Med Mag
201 Tarabai Rai 62 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawwa 40, 218 Dnyaneshw 35; 219 Kashibai 0 55, 220 M H Utama 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 76, 224 Shantabai 75, 225 Chandappa 65, 226 Gundappa 61,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 11yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 1253 1yr F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 13697 5.5yrs M 13697 5.5yrs M 13679 5yrs F 1489 2yrs F 1499 5yrs F 1499 5yrs M 13697 5.5yrs M 13697 5.5yrs M 13697 5.5yrs M 1373 2.5yrs M 46719 5yrs M 46719 5yrs M 1323 11 yrs	Regular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 7 6.4 7.6 7 6.4 7.8 6.6 9 7.1 6.8 7.2 7.2 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/176 NiI 94/176 NiI 136/206 NiI 136/206 NiI 136/206 NiI 136/207 NiI 136/207 NiI 136/208 NiI 136/208 NiI 136/209 NiI 170/229 NiI 160/198 1+ 220/310 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/18 6/18 6/24 PL 6/60 6/36	6/6 6 6/6 6 6/8 6 6/9 6 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/36 15.9 6/6 11.3 7.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 12.2 6/6 12.2 6/6 13.2 6/18 14.6 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6/6 15.9 6/6/9 14.6 6/6/9 13.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 15.9 Normal 16.2 normal 17.3 Normal 16.2 normal 17.3 normal 17.2 normal 17.2 normal 17.3 Normal	Normal	normal normal normal Peterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal PSC Normal Normal Normal Normal Normal Normal Pseudo P Aphakia Pseudo P	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal PSC Normal PSeudo P Mature catara Pseudo P	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal ANORMA NORMA Sev NPDR NORMA NORMA MOD NPDR NORMA NORMA MOD NPDR NORMA MOD NPDR NORMA MOD NPDR NORMA MOD NPDR NORMA MOD NORMA MILITARY MOD NORMA MOD NORMA MOD NORMA MOD NORMA MILITARY MOD NORMA MILITARY MILITARY MOD NORMA MILITARY MILITARY MOD NORMA MILITARY MILITARY MOD NORMA MILITARY MILITARY MILITARY MILITARY MOD NORMA MILITARY MI	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal High risk PDR Normal Sev NPDR Normal Mod NPDR Normal Normal Mod NPDR Normal Normal Normal Mod NPDR Normal Normal Normal Mod NPDR Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal PSev NPDR Normal Normal Normal Sev NPDR Normal Normal PSev NPDR Normal	Normal Normal Normal NSIII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal PSev NPDR Normal Normal Normal Sev NPDR Normal Normal Pseudo P Mature cataract+Sev NPDR Pseudo P + mild NPDR	Med mag	Med Mag
201 Tarabai Rai 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallaman 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanappi 60, 217 Siddhawwa 40, 218 Dnyaneshv 35, 219 Kashibai D 55, 220 M H Utama 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 76, 224 Shantabai 75, 225 Chandappa 65, 226 Gundappa 61, 227 Parvathibai 60,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 12yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 50429 3yrs M 2014519 New F 1253 1yr F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs F 1489 2yrs M 46719 5yrs M 1323 11 yrs F 36346 4yrs	Regular Regular irregular irregular Regular	8.2 6.9 7.4 7.2 8 8.8 8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6 9 9 7.1 6.8 7.2 7.2 6.4 7.2 6.6 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/114 NiI 98/110 NiI 136/206 NiI 210/286 NiI 210/286 NiI 210/290 NiI 170/229 NiI 170/229 NiI 160/198 1+ 220/310 NiI 120/180 NiI 120/180 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/12 6/13 6/14 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/6 6/18 6/18 6/18 6/18 6/29 6/6 6/10 6/36	6/6 6 6/6 6 6/8 6 6/8 6 6/8 6 6/8 6 6/8 6 6/8 6 6/6 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 6/6 10.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 6/18 14.6 6/6 14.6 6/6 15.9 6/6 15.9 6/6 13.2 6/9 14.6 6/6 13.2 6/9 14.6 6/9 18.9 NI 14.2 6/9 14.2	15.9 normal 14.2 normal 17.3 Normal 15.9 Normal 15.9 Normal 16.2 normal 17.3 Normal 17.3 Normal 16.2 normal 17.3 Normal 17.3 Normal 17.3 normal 17.3 normal 17.4 normal 17.5 normal 17.6 normal 17.7 normal 17.8 normal 17.9 normal 17.9 normal 17.9 normal 17.1 normal 17.1 normal 17.2 normal 17.3 normal 17.3 normal 17.3 normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.8 normal 17.9 normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal PSC Normal Poseudo P Aphakia Pseudo P	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal a Normal Sev NPDR Normal Mod NPDR Normal Normal Normal Mod NPDR Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal High risk PDR Normal Sev NPDR Normal Mod NPDR Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Mod NPDR Normal Mod NPDR	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal Sev NPDR Normal Mod NPDR Normal Normal Hod NPDR Normal Normal Normal Sev NPDR Normal	Normal Normal Normal NSII cataract PSC MOD NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal PSev NPDR Normal Normal Normal Normal Normal Normal Sev NPDR Normal	Med mag Prp Med mag	Med Mag
201 Tarabai Rai 62 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawwa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawwa 40, 218 Dnyaneshw 35; 219 Kashibai 0 55, 220 M H Utama 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 76, 224 Shantabai 75, 225 Chandappa 65, 226 Gundappa 61,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs F 1489 2yrs F 3137 2.5yrs M 1323 11 yrs F 36346 4yrs M 1323 11 yrs F 36346 4yrs M 331338 8yrs	Regular Regular Irregular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 7 6.4 7.6 7 6.4 7.8 6.6 9 7.1 6.8 7.2 7.2 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/176 NiI 94/176 NiI 136/206 NiI 136/206 NiI 136/206 NiI 136/207 NiI 136/207 NiI 136/208 NiI 136/208 NiI 136/209 NiI 170/229 NiI 160/198 1+ 220/310 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/24 CF-3M 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/18 6/18 6/24 6/24 6/24 6/24 6/24 6/6 6/18 6/18 6/18 6/18 6/24 PL 6/60 6/36 6/12 6/6 6/12 6/6 6/13 6/36	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/8 6 6/6 6 6/72 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/72 6 6/8 6 6/8 6 6/8 6 6/9 6 6/8 6 6/9 6 6/8 6 6/8 6 6/9 6 6/8 6 6/9 6 6/18 N 6/8 6 6/18 N 6/8 6 6/9 6 6/18 N 6/9 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/36 13.2 6/36 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 6/6 14.6 6/6 10.3 6/12 12.2 6/9 14.6 6/6 13.2 6/9 14.6 6/6 15.9 6/9 14.2 6/9 14.2 6/9 14.6	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 16.3 normal 16.3 normal 16.4 Normal 17.3 Normal 16.4 Normal 17.3 normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal 17.9 Normal	Normal	normal normal normal Peterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal PSC Normal Normal Normal Normal Normal Normal Pseudo P Aphakia Pseudo P	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal PSC Normal PSeudo P Mature catara Pseudo P	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal Normal ANORMA NORMA Sev NPDR NORMA NORMA MOD NPDR NORMA NORMA MOD NPDR NORMA MOD NPDR NORMA MOD NPDR NORMA MOD NPDR NORMA MOD NORMA MILITARY MOD NORMA MOD NORMA MOD NORMA MOD NORMA MILITARY MOD NORMA MILITARY MILITARY MOD NORMA MILITARY MILITARY MOD NORMA MILITARY MILITARY MOD NORMA MILITARY MILITARY MILITARY MILITARY MOD NORMA MILITARY MI	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal High risk PDR Normal Sev NPDR Normal Mod NPDR Normal Normal Mod NPDR Normal Normal Normal Mod NPDR Normal Normal Normal Mod NPDR Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal PSev NPDR Normal Normal Normal Sev NPDR Normal Normal PSev NPDR Normal	Normal Normal Normal NSIII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal PSev NPDR Normal Normal Normal Sev NPDR Normal Normal Pseudo P Mature cataract+Sev NPDR Pseudo P + mild NPDR	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawa 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamm 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrag 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawwa 40, 218 Dnyaneshu 35, 229 Kashibai D 55, 220 M H Utam 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai \ 66, 224 Shantabai 75, 225 Chandappa 65, 226 Gundappa 61, 227 Parvathiba 60, 228 Gurunath 75,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 22125 3yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 7568 3mon F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs F 1489 2yrs F 1489 2yrs F 3137 2.5yrs M 16719 5yrs M 1323 11 yrs F 36346 4yrs M 331338 8yrs M 3313449 12 yrs	Regular Regular Irregular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6 9 7.1 6.8 7.2 7.2 6.4 7.2 6.6 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/114 NiI 94/114 NiI 136/206 NiI 210/286 NiI 210/286 NiI 210/290 NiI 170/229 NiI 160/198 1+ 220/310 NiI 120/180 NiI 120/180 NiI 120/180 NiI 120/180 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/6 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/12 6/12 6/12 6/12 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/6 6/6 6/12 6/12 6/12 6/12 6/12 6/12 6/12 6/12 6/12	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/8 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/12 6 6/6 6 6/6 6 6/6 6 6/12 6 6/6 6 6/12 6 6/6 6 6/12 6 6/1	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/36 11.3 NI 17.3 6/36 15.9 6/6 12.2 6/6 11.3 NI 17.3 6/6/6 12.2 6/6 12.2 6/6 14.6 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/9 14.6 6/9 14.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 16.3 normal 16.3 normal 16.4 Normal 17.3 Normal 16.4 Normal 17.3 normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.7 normal 17.8 normal 17.9 Normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal PSeudo P Pseudo P Pseudo P	Normal Normal Normal NS II Cataract PSC Normal Normal Normal PSC Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Mormal Normal Mod NPDR Normal Mod NPDR Normal Mormal Mormal Mormal Mormal Mormal Mormal Mod NPDR Normal Mormal Normal Mormal Normal Normal Mormal Mormal Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal PSev NPDR Normal Mod NPDR Normal Mod NPDR Normal Normal Pseudo P Aphakia + Sev NPDR Pseudo P Pseudo P Blepharitis + Pseudo P	Normal Normal Normal NSII cataract PSC MOM NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Mod NPDR Normal	Med mag Prp Med mag	Med Mag
201 Tarabai Ra 62 202 Shreedevi 28, 203 Vishnu Gau 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawas 40, 218 Dnyaneshy 35, 220 M H Utam 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 96, 224 Shantabai 75, 225 Chandappa 61, 227 Parvathiba 60, 228 Gurndappa 61, 227 Parvathiba 60, 228 Gurndappa 62, 229 Shankar 62, 230 Mahadevi 48, 231 Parvathi 65,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 11yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs F 21044 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 1253 1yr F 529 4yrs M 13697 5.5yrs M 13697 5.5yrs M 13697 5.5yrs M 12218 9yrs F 40386 3yrs F 1489 2yrs F 1489 2yrs F 3137 2.5yrs M 46719 5yrs M 1323 11 yrs F 36346 4yrs M 331349 12 yrs F 291813 2yrs F 291813 2yrs F 291848 4yrs	Regular Regular Irregular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 6.8 8 8.2 8.2 6.6 7 6.4 7.8 6.9 7.1 6.8 7.2 7.2 6.8 6.8 6.8 6.8 6.8 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 256/307 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/176 NiI 94/176 NiI 136/206 NiI 120/286 NiI 210/286 NiI 210/280 NiI 150/290 NiI 170/229 NiI 160/198 1+ 220/310 NiI 120/180 NiI 116/176 NiI 116/176 NiI 116/176 NiI 114/200 NiI 114/200 NiI 187/222 NiI 190/320 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/24 6/6 6/6 6/6 6/18 6/18 6/12 6/6 6/18 6/18 6/12 6/6 6/18 6/18 6/12 6/6 6/18 6/18 6/12 6/6 6/18 6/18 6/19 6/6 6/18 6/18 6/19 6/6 6/10 6/6	6/6 6 6/6 6 6/6 6 6/9 6 6/6 6 6/9 6 6/6 6 6/9 6 6/18 NI 6/9 6 6/9 6 6/9 6 6/9 6 6/9 6 6/9 6 6/9 6 6/9 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/36 15.9 6/6 13.2 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 12.2 6/6 12.2 6/9 14.6 6/6 15.9 NI 14.2 6/9 14.2 6/9 14.2 6/9 14.6 6/9 14.2 6/9 14.6 6/9 14.5 6/9 14.5 6/9 14.5 6/9 14.6 6/6/18 15.9 6/6/18 15.9 6/6/18 15.9 6/6/18 15.9 6/6/18 15.9 6/9 14.2 6/6/9 14.2 6/6/9 14.2 6/6/9 14.2	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 15.9 Normal 16.2 Normal 17.3 Normal 16.2 Normal 17.3 Normal 16.2 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.3 normal 17.4 normal 17.2 normal 17.2 normal 17.2 normal 17.3 normal 17.3 Normal 17.3 Normal 17.3 Normal 17.4 Normal 17.5 Normal 17.6 Normal 17.7 Normal 17.8 Normal 17.9 Normal	Normal	normal	normal normal normal Pterigium normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal PSC Normal Pseudo P Pseudo P Pseudo P Pseudo P PSC Normal Cortical Cataract	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal PSC Normal Pseudo P Mature catara Pseudo P PSC Normal Cortical Cataract	Normal Normal Normal Normal Mod NPDR Normal Mod NPDR Normal Mod with csme Normal Normal Normal High risk PDR Normal Mod NPDR Normal	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal High risk PDR Normal Mod NPDR Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Normal Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Normal Mature cataract High risk PDR Normal Nor	Normal Normal NSIII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal PSev NPDR Normal Normal Sev NPDR Normal Normal Sev NPDR Normal Normal Blepharits + Pseudo P PSC Normal Cortical Cataract	Med mag	Med Mag
201 Tarabai Ra 62 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawas 40, 218 Dnyaneshv 35; 219 Kashibai D 55, 220 M H Utam 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 66, 224 Shantabai 75, 225 Chandappa 61, 227 Parvathiba 60, 228 Gurunath 75, 229 Shankar 62, 230 Mahadevi 48, 231 Parvathi 65, 232 Bagappa 85,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 11yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 291441 3yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 7568 3mon F 529 4yrs M 13697 5.5yrs M 1377 2.5yrs M 46719 5yrs M 31338 8yrs M 331349 12 yrs F 291848 4yrs M 21880 11yrs	Regular Regular Irregular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 8.8 8.2 8.2 6.6 7 6.4 7.8 6.6 9 7.1 6.8 7.2 7.2 6.4 7.2 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/176 NiI 94/176 NiI 136/206 NiI 210/286 NiI 200/290 NiI 170/229 NiI 160/198 1+ 220/310 NiI 120/180 NiI 138/222 NiI 190/320 NiI	6/12 CF-3m 6/6 6/6 6/6 6/6 6/6 6/6 6/60 CF-3M 6/18 6/9 6/12 6/9 6/24 CF-3M 6/6 6/6 CF-3M CF-2M 6/6 6/6 6/6 6/6 PL cf-1.5m 6/36 6/36 6/12 6/12 6/6 6/6 6/12 6/12 6/12 6/12 6/6 6/6 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/18 6/18 6/12 6/12 6/6 6/6 6/6 6/6 6/18 6/18 6/12 6/6 6/18 6/18 6/24 PL 6/60 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	6/6 6 6/6 6 6/8 6 6/9 6 6/6 6 6/8 6 6/6 6 6/9 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/36 13.2 6/36 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 12.2 6/6 17.3 6/18 14.6 6/6 10.3 6/12 12.2 6/9 14.6 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6 15.9 6/6/9 14.2 6/6/9 14.2 6/6/9 14.2 6/6/9 14.2 6/6/9 15.9 6/6/9 15.9 6/6/9 15.9 6/6/9 15.9	15.9 normal 14.2 normal 17.3 Normal 14.2 normal 15.9 Normal 15.9 Normal 16.2 Normal 17.3 Normal 16.2 Normal 17.3 normal 17.4 normal 17.2 normal 17.3 normal 17.2 normal 17.3 Normal 17.4 Normal 17.5 Normal 17.5 Normal 17.9 Normal	Normal	normal normal normal Peterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal Normal PSC Normal PSC Normal Cortical	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal NS III cataract Normal Pseudo P Mature catara Pseudo P MSII cataract Pseudo P SC Normal Cortical Catarac Cortical Catarac Cortical Catarac	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal High risk PDR Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal PSE Normal Normal Normal Normal Normal Normal PSE NORMA N	Normal Normal Normal NSII cataract PSC MOd NPDR NS III cataract Normal PSC Normal Normal Intemuscent Cataract PDR+Cortical Normal Sev NPDR Normal Mod NPDR Normal Normal Normal Normal Beparits + Pseudo P PSC Normal Blepharitis + Pseudo P PSC Normal Cortical Cataract Cortical Cataract	Med mag	Med Mag
201 Tarabai Ra 62, 202 Shreedevi 28, 203 Vishnu Gat 50, 204 Khajisab 65, 205 Mallawas 59, 206 Subhas 42, 207 Mallapa 66, 208 Gangamma 50, 209 Rajendra 68, 210 Mahadevi 50, 211 Mallamma 52, 212 Siddhamm 72, 213 Devendrap 36, 214 Madevi 49, 215 Shantidevi 70, 216 Yamanapp 60, 217 Siddhawas 40, 218 Dnyaneshv 35, 220 M H Utama 52, 221 Basavraj 44, 222 Savithri 48, 223 Kaushibai 76, 224 Shantabai 75, 225 Chandappa 65, 226 Gundappa 61, 227 Parvathiba 60, 228 Gurunath 75, 229 Shankar 62, 230 Mahadevi 48, 231 Parvathi 65, 232 Bagappa 85, 233 Shankar Ha 50,	F 291778 1yr F 291898 1mon M 26537 3yrs M 25518 10yrs M 29176 11yrs M 29176 11yrs M 29176 12yrs M 23990 6yrs F 24236 2yrs M 21339 3yrs F 2014315 4yrs F 9856 2yrs M 2014412 2yrs F 49955 9yrs F 50429 3yrs M 2014519 New F 1253 1yr F 50429 3yrs M 2014519 New F 1253 1yr F 50429 3yrs M 2014519 New F 1253 1yr F 50429 3yrs M 2014519 New F 1253 1yr F 50429 3yrs M 13697 5.5yrs M 13698 3yrs F 291888 3yrs M 331449 12 yrs F 291888 4yrs M 21880 11yrs M 205235 13 yrs	Regular Regular Irregular Regular	8.2 6.9 7.4 7.2 8 8.8 8.2 8.2 6.6 6.4 7.6 7 6.4 7.8 6.6 9 9 7.1 6.8 7.2 7.2 6.4 7.2 6.6 6.8 6.8 6.8 6.8 6.8	139/380 NiI 116/138 NiI 148/261 1+ 113/215 1+ 146/296 NiI 118/168 NiI 170/270 NiI 130/220 NiI 256/307 NiI 96/120 NiI 108/239 NiI 250/310 NiI 86/168 1+ 156/260 NiI 140/256 NiI 94/176 NiI 94/176 NiI 136/206 NiI 136/206 NiI 170/229 NiI 170/229 NiI 170/229 NiI 120/180 NiI 120/180 NiI 120/180 NiI 120/180 NiI 120/180 NiI 120/180 NiI 126/176 NiI 126/176 NiI 126/176 NiI 114/200 NiI 187/222 NiI 190/320 NiI 190/320 NiI	6/12	6/6 6 6/6 6 6/36 N 6/9 6 6/6 6 6/8 6 6/6 6 6/9 6 6/12 6 6/9 6 6/13 6 6/9 6	6/6 14.6 6/6 10.3 NI 18.9 6/6 12.2 6/6 17.3 6/6 10.3 CF-2M 18.9 6/6 10.3 6/36 15.9 6/6 13.2 6/6 13.2 6/6 11.3 NI 17.3 6/18 14.6 6/24 10.3 NI 15.9 6/6 12.2 6/6 17.3 6/18 14.6 6/6 14.2 6/6 15.9 6/6 13.2 6/9 14.6 6/6 13.2 6/9 14.2 6/9 14.2 6/9 14.2 6/9 14.2 6/6 15.9 6/9 14.6 6/6 15.9 6/9 14.6 6/6 15.9 6/9 14.2 6/6/9 15.9 6/9 15.9 6/9 14.5 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9 6/9 15.9	15.9 normal 14.2 normal 17.3 Normal 15.9 Normal 15.9 Normal 16.2 normal 17.3 Normal 16.2 normal 17.3 Normal 16.2 normal 17.3 normal 17.3 normal 17.3 normal 17.4 normal 17.5 normal 17.6 Normal 17.7 normal 17.8 normal 17.9 normal 17.9 normal 17.9 normal 17.1 normal 17.1 normal 17.2 normal 17.3 normal 17.3 normal 17.3 normal 17.3 normal 17.4 Normal 17.5 normal 17.6 Normal 17.7 normal 17.8 normal 17.9 Normal	Normal	normal normal normal Pterigium normal	normal	normal	normal	normal	normal	Normal Normal Normal PSC Normal Normal PSC Normal PSC Normal Cortical Cataract	Normal Normal Normal NS II Cataract PSC Normal NS III cataract Normal PSC Normal Pseudo P NSII cataract Pseudo P NSII cataract Pseudo P NSII cataract Pseudo P SC	Normal Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Mod NPDR Normal Normal Normal Normal Normal Mod NPDR Normal Mod NPDR	Normal Normal Normal Normal Normal Mod NPDR Normal mod with csme Normal Normal Normal Normal High risk PDR Normal	Normal Normal Normal PSC Mod NPDR NS II Cataract Normal PSC Normal Normal Mature cataract High risk PDR Normal PSeu NPDR Normal Mod NPDR Normal Normal Feed of P PSeudo P Aphakia + Sev NPDR Pseudo P Blepharitis + Pseudo P PSC CRAO Cortical Cataract Normal Mod NPDR	Normal Normal Normal NSII cataract PSC MOD NPDR NS III cataract Normal PSC Normal Normal Internuscent Cataract PDR+Cortical Normal Sev NPDR Normal Mod NPDR Normal Normal Normal Hormal Normal Cortical Normal Cortical Cataract Mod NPDR	Med mag prp Med mag	Med Mag Prp Med Mag
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	259 M B Pattan 66/M	276999 20yrs	irregular	6.4	110/170 1+	6/6 6/6 6/6	6 6/6	14.2	14.2 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Mild NPDr	Mild NPDR	Mild NPDR	Mild NPDR	Med mag	Med Mag
The control of the						 					_	<u> </u>	_	normal	normal	normal						7.0		
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Fig. Section Column Co	266 Ishwarappa 65/M	28884 11yrs	irregular	8.8	180/266 1+	6/60 6/24 6/2	24 6/18	12.2	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract	Cortical Catara	Sev NPDR	Sev NPDR+Macular ed	Cortical cataract+Sev NPDR	Cortical Cataract+Sev NPDR+Mac.eder	m PRP	PRP
19						-,, -,					+		ti normal	normal	normal	normal						,		
Fig. State						· · ·															-			
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27 25-25 26-25			_	7				_									NSII							
17 18 18 18 18 18 18 18	273 Shalini Han 62/F	323274 12yrs	Regular	7.8	160/230 Nil	6/36 6/60 6/9	9 6/9	10.3	10.3 Xanthelesma	Xanthelesma	normal	normal	normal	normal	normal	normal	psc	psc	Mod NPDR	Mod NPDR	Xan+PSC+Mod NPDR	Xan+PSC+Mod NPDR	Med mag	Med Mag
12 12 12 12 12 13 13 14 15 15 15 15 15 15 15						 				Normal	_	Pterigium	normal	normal	normal	normal		Cortical catara	Mod NPDR		, ,	7.0		
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Fig. Paper						-,,	_				+	-	_			_		<u> </u>	l			· ' '		
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18.2 Subbase 18.1 17.1 18.2	280 Basappa 50/M		irregular	6.5	171/230 Nil	6/6 6/6 6/6	6 6/6	17.3	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	BRAO	Normal	Normal	Normal	Med mag	Med Mag
287 Sealth-Light	281 Apaanna 81/M	27200 12 yrs	De sulle s																					
28 Septem 1,57 6,57 Septem 1,57	- I F I- /		Regular	7.4	85/188 Nil	6/36 6/36 6/1	18 6/18	14.6	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal				Mod NPDR+CSME	Cortical Cataract+Mod NPDF	+ Cortical Cataract+Mod NPDR+CSME	Focal Laser	Focal Laser
25 Septimber 15	282 Mahadevi 48/F	17781 2yrs	Regular	8	110/168 Nil	6/24 6/24 6/1	18 6/18	15.9	15.9 Meibomitis	Chr Dacr	normal	normal	normal	normal	normal	normal	Cortical Cataract	Cortical Catara	Normal	Normal	Meibomitis+Cortical Catarac	t Chr Dacr	Med mag	Med Mag
280 Commission 157 771 1571 1572	282 Mahadevi 48/F 283 Subhadram 48/F	17781 2yrs 46110 2yrs	Regular Regular	8	110/168 Nil 120/160 Nil	6/24 6/24 6/2 6/36 6/24 6/2	18 6/18 24 6/18	15.9 14.6	15.9 Meibomitis 14.6 Normal	Chr Dacr Normal	normal normal	normal normal	normal normal	normal normal	normal normal	normal normal	Cortical Cataract PSC	Cortical Catara PSC	Normal Normal	Normal Normal	Meibomitis+Cortical Catarac PCS	t Chr Dacr PSC	Med mag Med mag	Med Mag Med Mag
22 Statistical April A	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F	17781 2yrs 46110 2yrs 46151 10yrs	Regular Regular Regular	8 6.4 8	110/168 Nil 120/160 Nil 170/330 Nil	6/24 6/24 6/1 6/36 6/24 6/2 6/36 6/36 6/2	18 6/18 24 6/18 24 6/24	15.9 14.6 13.4	15.9 Meibomitis 14.6 Normal 14.6 Normal	Chr Dacr Normal Normal	normal normal	normal normal	normal normal	normal normal	normal normal normal	normal normal normal	Cortical Cataract PSC Normal	Cortical Catara PSC Normal	Normal Normal Normal	Normal Normal	Meibomitis+Cortical Catarac PCS Normal	t Chr Dacr PSC Normal	Med mag Med mag Med mag	Med Mag Med Mag Med Mag
299 Vallage March 1977 1978 Variety March 1977 1978 Variety March 1977 1978 Variety Variety 1978 Variety 1	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs	Regular Regular Regular irregular	8 6.4 8	110/168 Nil 120/160 Nil 170/330 Nil 101/150 Nil	6/24 6/24 6/1 6/36 6/24 6/2 6/36 6/36 6/2 6/60 6/60 6/1	18 6/18 24 6/18 24 6/24 18 6/18	15.9 14.6 13.4 12.2	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 Normal	Chr Dacr Normal Normal Normal	normal normal normal	normal normal normal	normal normal normal	normal normal normal	normal normal normal	normal normal normal	Cortical Cataract PSC Normal Normal	Cortical Catara PSC Normal Normal	(Normal Normal Normal Mod NPDR	Normal Normal Normal Mod NPDR	Meibomitis+Cortical Catarac PCS Normal Mod NPDR	t Chr Dacr PSC Normal Mod NPDR	Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Med Mag
Part Designation Part	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs	Regular Regular Regular irregular irregular	8 6.4 8 8.3 7	110/168 Nil 120/160 Nil 170/330 Nil 101/150 Nil 140/200 Nil	6/24 6/24 6/2 6/36 6/24 6/2 6/36 6/36 6/2 6/60 6/60 6/6 6/6 6/6 6/6	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6	15.9 14.6 13.4 12.2 17.3	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal	Chr Dacr Normal Normal Normal	normal normal normal normal	normal normal normal normal	normal normal normal normal	normal normal normal normal	normal normal normal normal	normal normal normal normal	Cortical Cataract PSC Normal Normal	Cortical Catara PSC Normal Normal Pseudo P	Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Mod NPDR Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P	t Chr Dacr PSC Normal Mod NPDR Pseudo P	Med mag Med mag Med mag Med mag Med mag	Med Mag Med Mag Med Mag Med Mag Med Mag Med Mag
Part	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon	Regular Regular Regular irregular irregular Regular	8 6.4 8 8.3 7 6.4	110/168 Nil 120/160 Nil 170/330 Nil 101/150 Nil 140/200 Nil 98/138 Nil 116/200 Nil	6/24 6/24 6/3 6/36 6/24 6/2 6/36 6/36 6/3 6/60 6/60 6/6 6/6 6/6 6/6 6/24 6/24 6/24 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6 6 6/6 18 6/18	15.9 14.6 13.4 12.2 17.3 14.6 14.6	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal	Chr Dacr Normal Normal Normal Normal Normal	normal normal normal normal normal normal	normal normal normal normal normal	normal normal normal normal normal	normal normal normal normal normal	normal normal normal normal normal	normal normal normal normal normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P	Normal Normal Normal Mod NPDR Normal Normal	Normal Normal Normal Mod NPDR Normal Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P	Med mag	Med Mag
282 Nisipagang 15/14 273 2	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs	Regular Regular Regular irregular irregular Regular Regular irregular	8 6.4 8 8.3 7 6.4	110/168 Nil 120/160 Nil 170/330 Nil 101/150 Nil 140/200 Nil 98/138 Nil 116/200 Nil 142/200 Nil	6/24 6/24 6/3 6/36 6/24 6/2 6/36 6/36 6/3 6/60 6/60 6/1 6/6 6/6 6/6 6/24 6/24 6/24 6/36 6/36 6/3 CF-2m CF-2M 6/6	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 18.9 Normal	Chr Dacr Normal Normal Normal Normal Normal Normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	normal normal normal normal normal normal normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract	Normal Normal Normal Mod NPDR Normal Normal Normal Normal	Normal Normal Normal Mod NPDR Normal Normal Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract	Med mag	Med Mag
Part	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs	Regular Regular Regular irregular irregular Regular Regular irregular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9	110/168 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 116/200 NiI 142/200 NiI 230/372 NiI	6/24 6/24 6/1 6/36 6/24 6/2 6/36 6/36 6/3 6/60 6/60 6/1 6/6 6/6 6/6 6/24 6/24 6/2 6/36 6/36 6/3 CF-2m CF-2M 6/9 6/9 6/9 6/9 6/6	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6 6 6/6 18 6/18 60 6/60 6 6/6	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 14.6 Normal 14.7 Normal 17.3 Normal	Chr Dacr Normal Normal Normal Normal Normal Normal Normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal	Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH	Med mag	Med Mag
250 Signardia Signal S	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs	Regular Regular Regular irregular irregular Regular Regular irregular Regular irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5	110/168 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 116/200 NiI 142/200 NiI 230/372 NiI 110/130 NiI	6/24 6/24 6/16 6/36 6/24 6/2 6/36 6/36 6/3 6/60 6/60 6/1 6/6 6/6 6/6 6/24 6/24 6/2 6/36 6/36 6/3 CF-2m CF-2M 6/6 6/9 6/9 6/6 6/12 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6 6 6/6 18 6/18 60 6/6 6 6/6 6 6/6 6 6/6	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal 18.9 Normal 14.6 Normal 14.6 Normal 17.3 Normal 17.3 Normal 17.3 Normal	Chr Dacr Normal Normal Normal Normal Normal Normal Normal Normal	normal normal normal normal normal normal normal normal normal	normal normal normal normal normal normal normal normal normal sCH normal	normal normal normal normal normal normal normal normal normal	normal	normal normal normal normal normal normal normal normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Sev NPDR+CSME	Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Sev NPDR+CSME	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME	Med mag	Med Mag
Part	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon	Regular Regular Regular irregular irregular Regular Regular Regular irregular irregular irregular Regular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5	110/168 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 116/200 NiI 142/200 NiI 230/372 NiI 110/130 NiI 110/146 NiI	6/24 6/24 6/16 6/36 6/24 6/2 6/36 6/36 6/3 6/60 6/60 6/16 6/6 6/6 6/6 6/24 6/24 6/2 6/36 6/36 6/3 6/9 6/9 6/6 6/9 6/6 6/6	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6 6 6/6 18 6/18 60 6/60 6 6/6 6 6/6 6 6/6 6 6/6	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal 18.9 Normal 14.6 Normal 14.9 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.3 Normal	Chr Dacr Normal Normal Normal Normal Normal Normal Normal Normal Normal	normal	normal normal normal normal normal normal normal normal normal	normal	normal	normal	normal normal normal normal normal normal normal normal normal normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Sev NPDR+CSME Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Sev NPDR+CSME Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC	Med mag	Med Mag
Samma StyN 2320 Samma StyN 2320 Six regular 7.9 115/130 Nil 8/9 8/12 6/8 6/8 7.9 12.2 Normal	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs	Regular Regular Regular irregular irregular Regular Regular Regular Regular irregular Regular irregular Regular irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3	110/168 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 98/138 NiI 116/200 NiI 142/200 NiI 142/200 NiI 130/372 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI	6/24 6/24 6/16 6/36 6/24 6/26 6/36 6/36 6/36 6/26 6/60 6/60 6/6 6/24 6/24 6/24 6/36 6/36 6/36 6/36 6/36 6/36 6/12 6/36 6/6 6/12 6/36 6/6 6/9 6/6 6/6 HM 6/60 NII 6/24 6/18 6/18	18 6/18 24 6/18 24 6/24 18 6/18 6 6/6 6 6/36 18 6/18	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6 17.3 12.2 18.9	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 17.3 Normal 17.3 Normal 17.4 Normal 14.6 Normal 14.6 Normal 14.6 Normal 17.9 Normal 17.9 Normal 17.9 Normal	Chr Dacr Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal	normal	normal	normal normal normal normal normal normal normal normal normal normal normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Pseudo P	Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P	Med mag	Med Mag
288 S/M 12/20 Gyr gregular 6.4 12/81/8 Mi G/24 5/24 6/18 12/2 12/2 Normal	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21339 5yrs	Regular Regular Regular irregular irregular Regular Regular Regular Regular irregular Regular irregular irregular irregular irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2	110/168 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 98/138 NiI 116/200 NiI 142/200 NiI 142/200 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI	6/24 6/24 6/1 6/36 6/24 6/2 6/36 6/36 6/2 6/60 6/60 6/6 6/6 6/6 6/6 6/24 6/24 6/2 6/36 6/36 6/1 CF-2m CF-2M 6/6 6/9 6/9 6/6 6/9 6/6 6/6 HM 6/60 NII 6/24 6/18 6/1 6/24 6/24 6/24 6/2	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 68 6/6 66 6/6 66 6/6 66 6/6 66 6/6 6736 18 6/18 18 6/18	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 18.9 Normal 17.3 Normal 17.3 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 17.3 Normal 17.4 Normal 17.4 Normal 18.9 Normal	Chr Dacr Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Pseudo P NSI I Cataract PSC PSEUDO P NS II Cataract PSC	Normal Normal Normal Mod NPDR Normal Sev NPDR+CSME Normal Normal Normal Cupping 0.8	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Normal Normal Cupping 0.8	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PSC Pseudo P	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PSC PSEUDO P PYF + NSII cataract	Med mag	Med Mag
296 Singapum 56/F 926 275 Singapum 56.4 14/155 Nil 67/5 67/5 67/5 13/155 Nil 67/5 67/5 67/5 13/155 Nil 67/5 13/155 Nil 67/5 67/5 13/155 Nil 67/5 67/5 13/155 Nil 67/5 67/5 13/155 Nil 67/5 67/5 Nil 67/5 67/5 Nil 67/5 67/5 Nil 67/5 67/5 Nil	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M	17781 2yrs 46110 2yrs 46151 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21339 5yrs 211212 New	Regular Regular Regular Regular irregular irregular Regular Regular irregular Regular irregular Regular irregular irregular irregular irregular irregular irregular irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.2	110/168 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 120/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 210/341 NiI	6/24 6/24 6/24 6/24 6/24 6/24 6/24 6/24	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 67 6/7 67 7 67 7	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.4 Normal 14.6 Normal 14.6 Normal 14.6 Normal 14.6 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Normal PSC Normal	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Pseudo P NS II Cataract PSC Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Normal Normal Cev NPDR+CSME Normal Normal Normal Normal Normal Normal Normal Normal Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Normal Normal Cupping 0.8 Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PSC Pseudo P	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P RSC GORDER OF NPDR+CSME PSC	Med mag	Med Mag
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313 Gangabai A 58/M 23769 9yrs Regular 7 180/321 Nil 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabi Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosama 57/M 305 Sangappa 175/M 306 Chandabas 58/M 307 Yallappa 85/M 308 Chandappa 60/M 309 Malakari 60/M 309 Malakari 60/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21139 5yrs 21212 New 287871 2yrs 21200 6yrs 926 2yrs 331507 5yrs 22129 2yrs 203122 15yrs 260509 4yrs 348011 20yrs 2148651 2yrs 2148656 6yrs 330212 5yrs 2148651 6yrs 330212 5yrs	Regular Regular Regular Regular Regular irregular irregular Regular Regular irregular Regular irregular Regular irregular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.5 7.9 6.4 6.6 6.6 6.6 8.8 7 7.2 7.2 7.2 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	110/168 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 120/193 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 210/341 NiI 116/130 NiI 128/148 NiI 114/155 NiI 130/180 NiI 100/140 NiI 108/150 NiI 221/340 1+ 90/176 NiI 88/200 2+ 160/280 1+ 126/186 NiI 86/169 NiI 180/340 NiI 180/340 NiI	6/24 6/24 6/24 6/26/36 6/36 6/36 6/36 6/36 6/36 6/36 6	18 6/18 24 6/18 24 6/24 18 6/18 6/6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 18 6/18 6 6/8 6 6/6 6 6/6 18 6/18 6 6/6 18 6/18 6 6/6 18 6/18 6 6/6 18 6/18 6 6/6 6 6/6 18 6/18 6 6/6 6 6/6 18 6/18 6 6/6 6 6/6 18 6/18 6 6/6 6 6/	15.9 14.6 13.4 12.2 17.3 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 15.9 12.2 14.4 14.6 17.3 14.6 17.3	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 12.2 Normal 18.9 Normal 18.9 Normal 14.1 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 14.6 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Normal Cortical cataract Pseudo P PSC+Cuneiform Normal Normal	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal Cortical catara Normal Seeudo P PSC+Cuneiforn Pseudo P Normal Cortical catara Normal	Normal Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Sev NPDR Normal Sev NPDR Normal Sev NPDR	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PSE PSE PSE PSE PSE PSE PSE PSE PSE PS	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal Normal PCOrtical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Normal Cortical cataract	Med mag	Med Mag
Signature Sign	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmibai 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosam 57/M 305 Sangappa 75/M 306 Chandabas 58/M 307 Yallappa 38/M 308 Chandapa 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21339 5yrs 21212 New 287871 2yrs 21200 6yrs 329227 6yrs 331507 5yrs 22129 2yrs 203122 15yrs 203122 15yrs 260509 4yrs 348011 20yrs 214865 6yrs 330212 5yrs 15601 6yrs 260580 10yrs	Regular irregular Regular irregular Regular irregular irregular Regular irregular Regular irregular Regular irregular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.5 7.9 6.4 6.6 6.6 6.6 8.8 8.8 7 7.2 7.2 7.2 8.3 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	110/168 NiI 120/160 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 198/138 NiI 116/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 130/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 132/150 NiI 132/150 NiI 132/150 NiI 148/220 NiI 132/150 NiI 130/140 NiI 100/140 NiI 108/150 NiI 100/140 NiI 108/150 NiI 186/160 NiI 88/200 2+ 160/280 1+ 126/186 NiI 186/169 NiI 180/340 NiI 180/340 NiI	6/24 6/24 6/2 6/36 6/36 6/36 6/2 6/36 6/36 6/36 6/2 6/60 6/60 6/6 6/64 6/24 6/24 6/6 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/12 6/36 6/6 6/12 6/36 6/6 6/12 6/36 6/6 6/12 6/36 6/6 6/24 6/18 6/18 6/24 6/24 6/24 6/24 6/24 6/24 6/36 6/36 6/36 6/36 6/36 6/36 6/38 6/18 6/18 6/3 6/36 6/36 6/3	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 67 6/6 66 6/6 66 6/6 66 6/6 67 6/6 67 6/7	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 18.9 12.2 14.4 14.6 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 13.3 Normal 18.9 Normal 17.3 Normal 18.9 Normal 17.3 Normal 14.6 Normal 14.1 Normal 14.2 Normal 14.3 Normal 14.4 Normal 15.9 Normal 16.9 Normal 17.3 Normal 17.3 Normal 18.9 Normal 18.1 Normal 18.1 Normal 18.1 Normal 18.2 Normal 18.3 Normal 18.4 Normal 18.5 Normal 18.5 Normal 18.6 Normal 18.7 Normal 18.7 Normal 18.7 Normal 18.8 Normal 18.9 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Pseudo P PSC Cortical cataract Normal Normal Normal Normal Normal Cortical cataract Pseudo P PSC+Cuneiform Normal Cortical cataract Vormal Cortical cataract	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal Normal PSC Cortical cataract Normal Normal Normal Normal Cortical cataract PSC Cortical cataract Normal Normal Normal Normal Cortical cataract Pseudo P PSC+Cuneiforn Pseudo P NSC+Cuneiforn Pseudo P Cortical cataract Normal Cortical cataract Pseudo P Cortical cataract Pseudo P Cortical cataract Pseudo P Cortical cataract Pseudo P Normal Cortical cataract Normal Cortical cataract Normal Normal	Normal Normal Normal Normal Mod NPDR Normal Sev NPDR Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Sev NPDR Normal Sev NPDR Dry ARMD Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P PXF+Pseudo P POAG Normal Normal PSC+Mild NPDR Cortical cataract Normal Normal Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium-Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium-Pseudo P Cortical cataract Pterygium-Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD	Med mag Med ma	Med Mag
316 B S Masuli 55/M 53608 9yrs irregular 55/M 53608 9yrs irregular 55/M 53608 9yrs irregular 6.4 96/148 Nil CF-3M CF-3M NI 6/60 14.6 14.6 Normal Norm	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosam 57/M 305 Sangappa 75/M 306 Chandabas 58/M 307 Yallappa 85/M 308 Chandappa 60/M 309 Malakari 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 311 Gurappa M 76/M 312 S D Shinde 64/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 2104 8yrs 21880 10yrs 21880 10yrs 21212 New 287871 2yrs 329227 6yrs 329227 6yrs 329227 6yrs 329227 15yrs 203122 15yrs 260509 4yrs 214865 6yrs 330212 5yrs 21601 6yrs 21860 10yrs 21870 10yrs 21880 10yrs 2199 2yrs	Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.5 7.9 6.4 7.6 6.6 6.6 8.8 7 7.2 7.2 7.2 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	110/168 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 1898/138 NiI 116/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 130/130 NiI 110/130 NiI 120/193 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/220 NiI 148/220 NiI 130/140 NiI 116/130 NiI 116/130 NiI 116/130 NiI 128/148 NiI 114/155 NiI 130/180 NiI 100/140 NiI 108/150 NiI 221/340 NiI 160/240 NiI 88/200 2+ 160/280 1+ 126/186 NiI 180/340 NiI 180/340 NiI 167/256 1+ 160/260 NiI	6/24 6/24 6/26 6/36 6/36 6/36 6/36 6/60 6/60 6/60 6/66 6/66 6/66 6/24 6/24 6/24 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 67 6/6 66 6/6 66 6/6 67 6/6 67 6/6 67 6/7 67 6/	15.9 14.6 13.4 12.2 17.3 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 18.9 12.2 14.6 17.3 17.3 14.6 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 15.9 Normal 14.1 Normal 16.1 Normal 17.2 Normal 18.9 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Pseudo P PSC Cortical cataract Normal Normal Normal Normal Cortical cataract Pseudo P PSC+Cuneiform Normal Cortical cataract Normal Cortical cataract Pseudo P	Cortical Catara PSC Normal Normal PSeudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Pseudo P NS II Cataract PSC Pseudo P NS II Cataract PSC Normal Normal Normal Normal Normal Cortical catara Pseudo P PSC+Cuneiforn Pseudo P Normal Cortical catara Pseudo P Normal Cortical catara Pseudo P Normal Cortical catara Pseudo P Normal	Normal Normal Normal Normal Mod NPDR Normal Sev NPDR	Normal Normal Normal Mod NPDR Normal Sev NPDR Dry ARMD Normal Early dry AMD	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Cortical cataract Pterygium+Pseudo P PCC-Cuneiform+Mod NPDR Cortical cataract Pterygium+Pseudo P	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal BRVO Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD	Med mag	Med Mag
317 Shridhar H 49/M 5081 Zyrs Regular 7.4 169/234 Nil 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/6 6/	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosam 57/M 305 Sangappa 175/M 306 Chandabas 58/M 307 Yallappa 85/M 308 Chandappa 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 312 S D Shinde 64/M 313 Gangabai 4 58/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21880 10yrs 21212 New 287871 2yrs 21210 6yrs 329227 6yrs 331507 5yrs 22129 2yrs 203122 15yrs 260509 4yrs 214865 6yrs 330212 5yrs 15601 6yrs 260580 10yrs 260580 10yrs 271391 2yrs 260569 4yrs 260569 4yrs 260569 4yrs	Regular Regular Regular Regular Regular Irregular Regular Regular Regular Regular Irregular Regular Irregular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.5 7.9 6.4 6.6 6.6 8.8 8.8 6.7 7.2 7.2 7.2 7.5 7.9 6.4 7.6 6.6 8.8 8.8 7.7 7.2 7.2 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8	110/168 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 142/200 NiI 142/200 NiI 116/200 NiI 130/372 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/210 NiI 132/150 NiI 148/220 NiI 110/140 NiI 108/150 NiI 100/140 NiI 108/150 NiI 122/1340 1+ 90/176 NiI 88/200 2+ 160/280 1+ 126/186 NiI 180/340 NiI 167/256 1+ 160/260 NiI 160/210 NiI 180/321 NiI	6/24 6/24 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 67 6/6 67 6/6 67 6/6 67 6/6 67 6/6 67 6/6 67 6/6 67 6/7 67 6/	15.9 14.6 13.4 12.2 17.3 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 14.9 15.9 12.2 14.6 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 18.9 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 14.6 Normal 10.3 Normal 12.2 Normal 14.6 Normal 12.2 Normal 14.6 Normal 13.4 Normal 13.4 Normal 14.5 Normal 15.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Pseudo P PSC Cortical cataract Normal Normal Normal Normal Normal Normal Normal Cortical cataract Pseudo P PSC+Cuneiform Normal Normal Cortical cataract Normal Normal	Cortical Catara PSC Normal Normal PSeudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal Normal Normal Normal Normal Normal Normal Normal PSC+Cuneiforn Pseudo P Normal	Normal Normal Normal Normal Mod NPDR Normal Sev NPDR Normal Sev NPDR Myopia+PVD Normal Early dry AMD	Normal Normal Normal Mod NPDR Normal Sev NPDR Dry ARMD Normal Early dry AMD	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PCSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PCSC+Cuneiform+Mod NPDR Mod NPDR+CSME Normal Cortical cataract+Sev NPDR Cortical + NS II cataract Early dry AMD Stye	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal Normal PSC+Grigum+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract PEterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD Early dry AMD Normal	Med mag	Med Mag
318 Shankare 60/M 77348 11yrs irregular 6.4 96/196 1+ 6/60 6/60 NI 6/18 10.3 10.3 Normal norm	282 Mahadevi 48/F 283 Subhadran 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosama 57/M 305 Sangappa 175/M 305 Sangappa 175/M 306 Chandabas 58/M 307 Yallappa 85/M 308 Chandapa 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa 76/M 312 S D Shinde 64/M 313 Gangabai 758/M 314 M S Gurab 62/M 315 Danakka 65/F	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21339 5yrs 21212 New 287871 2yrs 21210 6yrs 22129 2yrs 331507 5yrs 22129 2yrs 203122 15yrs 260509 4yrs 348011 20yrs 214865 6yrs 330212 5yrs 15601 6yrs 260580 10yrs 271391 2yrs 260569 4yrs 260569 4yrs 260569 4yrs 260569 19yrs 260569 19yrs 260569 4yrs 260569 19yrs 260569 19yrs 260569 19yrs 260569 19yrs 260569 19yrs 260569 19yrs 260569 15yrs 260569 19yrs 260569 19yrs 260569 15yrs	Regular Regular Regular Regular Regular Irregular Regular Regular Regular Regular Irregular Regular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 7.2 7.5 7.9 6.4 6.6 6.6 8.8 8 6.8 7 7.2 7.2 7.2 7.2 7.5 6.6 8.8 8.8 6.8 7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	110/168 NiI 120/160 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 140/200 NiI 142/200 NiI 142/200 NiI 142/200 NiI 1230/372 NiI 110/146 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 148/220 NiI 148/210 NiI 148/210 NiI 148/210 NiI 16/130 NiI 128/148 NiI 114/155 NiI 130/180 NiI 100/140 NiI 100/140 NiI 108/150 NiI 1221/340 1+ 90/176 NiI 88/200 2+ 160/280 1+ 160/280 NiI 160/280 NiI 180/340 NiI 167/256 1+ 160/260 NiI 180/341 NiI 180/321 NiI 180/321 NiI 180/321 NiI	6/24 6/24 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/24 18 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 6 6/6 18 6/18 8 6/18 8 6/18 8 6/18 8 6/18 6 6/6 18 6/18 6 6/6 6 6/6 18 6/18 6 6/6 6 6/6 18 6/18 6 6/6 6 6/6 6 6/6 18 6/18 6 6/6 18 6/18 6 6/6	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 14.4 14.6 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 14.6 Normal 18.9 Normal 14.6 Normal 14.6 Normal 10.3 Normal 12.2 Normal 18.9 Normal 18.9 Normal 18.9 Normal 17.3 Normal 18.9 Normal 17.3 Stye 14.6 Normal 17.3 Stye 14.6 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal PSEU PSEU PSEU PSEU PSEU PSEU PSEU PSEU	Cortical Catara PSC Normal Normal Pseudo P Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal	Normal Normal Normal Normal Mod NPDR Normal Sev NPDR Normal Sev NPDR Mod NPDR Mod NPDR Mod NPDR Normal Early dry AMD Normal Mild NPDR	Normal Normal Normal Normal Mod NPDR Normal Sev NPDR Normal Normal Normal Normal BRVO Normal Normal Normal Normal SevO Normal Sev NPDR Normal Sev NPDR Dry ARMD Normal Early dry AMD Normal Mild NPDR Mod NPDR	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDR-CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Cortical cataract Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract+Sev NPDR Cortical + NS II cataract Early dry AMD Stye Mild NPDR Cortical Cataract+Mod NPDR	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PKF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Perydion+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract+Sev NPDR Normal Normal Cortical cataract+Sev NPDR Normal Mild NPDR Cortical cataract+Sev NPDR Dry ARMD Normal Mild NPDR Cortical cataract+Mod NPDr+AION	Med mag Focal Laser Med mag Med mag Focal Laser Med mag Med mag Med mag Focal Laser Med mag Med mag Med mag Focal Laser Med mag Med mag Med mag Med mag Focal Laser	Med Mag
319 Kanthabai 65/F 77702 8yrs Regular 6.2 115/130 Nil 6/36 6/12 Ni 6/6 14.6 15.9 Normal norma	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabi Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosami 57/M 305 Sangapa 75/M 306 Chandabas 58/M 307 Yallappa 85/M 307 Yallappa 85/M 308 Chandapa 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 312 S D Shinde 63/M 313 Gangabai 758/M 314 M S Gurab 62/M 315 Danakka 65/F 316 B S Masuli 55/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21339 5yrs 21121 New 287871 2yrs 21212 15yrs 203122 15yrs 203122 15yrs 203122 15yrs 260509 4yrs 348011 20yrs 214865 6yrs 330212 5yrs 15601 6yrs 260580 10yrs 271391 2yrs 260569 4yrs 27769 9yrs 267681 15yrs 194775 2yrs 53608 9yrs	Regular Regular Regular Regular Regular irregular irregular Regular Regular Regular Regular irregular Regular irregular Regular irregular irregular irregular irregular irregular irregular Regular irregular irregular Regular irregular Regular irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 7.2 7.5 7.9 6.4 6.6 6.6 8.8 6.8 7 7.2 7.2 6.2 8.6 8.6 8.6 6.8 7 7.2 6.2 8.6 8.6 8.6 9.6 8.6 9.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8	110/168 NiI 120/160 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 140/200 NiI 142/200 NiI 142/200 NiI 1230/372 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/210 NiI 132/150 NiI 148/220 NiI 100/140 NiI 180/200 2+ 160/280 1+ 126/186 NiI 86/169 NiI 180/340 NiI 160/256 1+ 160/260 NiI 180/341 NiI 180/341 NiI 180/342 NiI 180/341 NiI 180/342 NiI 180/341 NiI 180/341 NiI 180/341 NiI 180/341 NiI 180/342 NiI	6/24 6/24 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 67 67 68 6/8 68 6/8 69 6/9 69 6/9 69 6/9 69 6/9 69 6/9 60 6/6 60 6/6 618 6/18	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 18.9 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 14.6 Normal 13.4 NOrmal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 14.6 Normal 17.3 Normal 14.6 Normal 15.9 Normal 14.6 Normal 14.6 Normal 14.6 Normal 14.6 Normal 15.9 Normal 14.6 Normal 15.9 Normal 14.6 Normal 17.3 Normal 17.3 Normal 14.6 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Normal Cortical cataract Normal Normal Cortical cataract Normal Normal Cortical cataract Normal Normal Cortical cataract	Cortical Catara PSC Normal Normal Pseudo P PSC Pseudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal	Normal Normal Normal Normal Mod NPDR Normal Sev NPDR Normal Normal Normal Normal Normal Normal Sev NPDR Normal Sev NPDR Mod NPDR Mod NPDR Mod NPDR Mod NPDR Mormal Early dry AMD Normal Mild NPDR Mod NPDR	Normal Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Sev NPDR Normal Normal Normal Sev NPDR Normal Mod NPDR Normal Sev NPDR Dry ARMD Normal Early dry AMD Normal Mild NPDR Mod NPDR+ AION Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Cortical cataract+Sev NPDR Cortical Cataract+Mod NPDR Mid NPDR Cortical Cataract+Mod NPDR	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PKF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal Normal Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD Learly dry AMD Normal Mild NPDR Cortical cataract+Mod NPDR+AION PSC+NSIII Cataract	Med mag Focal Laser Med mag	Med Mag
320 Ningappa 70/M 77629 12yrs irregular 10.2 100/186 1+ 6/24 CF-2M 6/12 6/36 14.6 14.6 Normal	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmibai 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosam 57/M 305 Sangappa 75/M 306 Chandabas 58/M 307 Yallappa 35/M 307 Yallappa 35/M 308 Chandappa 60/M 309 Malakari 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 312 S D Shinde 64/M 313 Gangabai 75/M 314 M S Gurab 62/M 315 Danakka 65/F 316 B S Masuli 55/M 317 Shridhar H 49/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21339 5yrs 21212 New 287871 2yrs 21200 6yrs 329227 6yrs 331507 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180/340 NiI 167/256 1+ 160/260 NiI 180/321 NiI 180/321 NiI 180/321 NiI 180/321 NiI 180/321 NiI 180/323 NiI	6/24 6/24 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 67 68 6/8 69 6/9 69 6/9 69 6/9 69 6/9 60 6/6 618 6/18 6/18 618 6/18 618 6/18 618 6/18 618 6/18 618 6/6 61 6/6	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 18.9 12.2 14.4 14.6 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 13.3 Normal 14.6 Normal 14.6 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 10.3 Normal 14.6 Normal 11.2 Normal 14.6 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Pseudo P PSC Cortical cataract Normal Normal Normal 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NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Normal PSC+Mild NPDR Cortical cataract Normal Normal Normal Normal Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Early dry AMD Stye Mild NPDR Cortical Cataract+Mod NPDR PSC+NSIII Cataract	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Normal Cortical cataract PECYCuneiform+Mod NPDR Normal Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD Mormal Mormal Cortical cataract+Sev NPDR Dry ARMD Cortical cataract+Mod NPDR Cortical cataract+Mod NPDR Dry ARMD Normal Mild NPDR Cortical cataract+Mod NPDR Cortical cataract+Mod NPDR PSC+NSIII Cataract Normal	Med mag Focal Laser Med mag	Med Mag
321 Khurshid A 58/M	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmibai 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosama 57/M 305 Sangappa 75/M 306 Chandabas 58/M 307 Yallappa 85/M 307 Yallappa 385/M 308 Chandappa 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 312 S D Shinde 64/M 313 Gangabai 75/8/M 314 M S Gurab 65/F 316 B S Masuli 55/M 317 Shridhar H 49/M 318 Shankarep 60/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 33159 2yrs 21880 10yrs 21880 10yrs 21880 10yrs 21212 New 287871 2yrs 32922 6yrs 329227 6yrs 329227 6yrs 329227 6yrs 32921 2yrs 203122 15yrs 260509 4yrs 34801 20yrs 214865 6yrs 330212 5yrs 21601 6yrs 260580 10yrs 271391 2yrs 260569 4yrs 23769 9yrs 267681 15yrs 267681 15yrs 256080 9yrs 256080 9yrs 267681 15yrs	Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Regular Irregular Regular Irregular Regular Irregular Regular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.5 7.9 6.4 6.6 6.6 6.6 8.8 7 7.2 7.2 6.2 8.6 6.8 7 7.2 7.2 6.4 6.4 7.2 7.2 6.4 6.6 6.7 6.6 6.7 6.7 6.6 6.6 6.6 6.6 6.6	110/168 NiI 120/160 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 140/200 NiI 116/200 NiI 142/200 NiI 142/200 NiI 130/372 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/220 NiI 130/341 NiI 116/130 NiI 116/130 NiI 116/130 NiI 116/130 NiI 128/148 NiI 114/155 NiI 130/180 NiI 100/140 NiI 108/150 NiI 180/160 NiI 188/200 2+ 160/280 1+ 126/186 NiI 180/340 NiI 167/256 1+ 160/260 NiI 160/210 NiI 180/321 NiI 180/321 NiI 180/321 NiI 198/149 NiI 138/228 NiI 196/148 NiI 169/234 NiI 196/196 1+	6/24 6/24 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 67 6/6 66 6/6 66 6/6 67 6/6 67 6/6 67 6/7	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 14.4 14.6 17.3 17.3 14.6 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 15.9 Normal 14.6 Normal 16.9 Normal 17.3 Normal 17.3 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Pseudo P PSC Normal Normal Normal Normal Normal Normal Normal Cortical cataract Pseudo P PSC+Cuneiform Normal Cortical cataract Normal Cortical cataract Normal Normal Cortical cataract Normal Normal Cortical cataract	Cortical Catara PSC Normal Normal PSeudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal	Normal Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Mod NPDR Mod NPDR Normal Sev NPDR Dry ARMD Normal Early dry AMD Normal Mild NPDR Mod NPDR Mod NPDR Mod NPDR Mormal Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract+Sev NPDR Cortical cataract Early dry AMD Stye Mild NPDR Cortical Cataract+Mod NPDF PSC+NSIII Cataract Normal PSC	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal BRVO Normal Cortical cataract PEtrygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD Early dry AMD Normal Mild NPDR Cortical cataract+Mod NPDR Cortical cataract+Mod NPDR Cortical cataract+Sev NPDR Dry ARMD Cortical cataract+Mod NPDR Normal Cortical cataract+Mod NPDR Cortical cataract+Mod NPDR Normal Learly dry AMD Normal Mild NPDR Cortical cataract+Mod NPDr+AION PSC+NSIII Cataract Normal PSC	Med mag Focal Laser Med mag Med mag Med mag Med mag Med mag Focal Laser Med mag	Med Mag
	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/F 294 Bagappa 55/M 295 Rajendra 58/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamm 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosam 57/M 305 Sangappa 175/M 306 Chandabas 58/M 307 Yallappa 85/M 308 Chandapa 60/M 309 Malakari 60/M 309 Malakari 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 312 S D Shinde 64/M 313 Gangabai / 58/M 314 M S Gurab 62/M 315 Danakka 65/F 316 B S Masuli 55/F 317 Shridhar H 49/M 318 Shankarep 60/M 319 Kanthabai 65/F	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21880 10yrs 21212 New 287871 2yrs 21210 6yrs 22122 6yrs 331507 5yrs 22129 2yrs 2331507 5yrs 22129 1yrs 260509 4yrs 260509 4yrs 214865 6yrs 330212 5yrs 15601 6yrs 260580 10yrs 271391 2yrs 260580 10yrs 271391 2yrs 260569 4yrs 23769 9yrs 267681 15yrs 194775 2yrs 53608 9yrs 5081 2yrs 77348 11yrs 77702 8yrs	Regular Regular Regular Regular Regular Irregular Regular Regular Regular Regular Irregular Regular Irregular Irregular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Regular Regular Regular Regular Irregular Regular	8 6.4 8 8.3 7 7.6.4 6.3 6.9 9.5 6.7 8.3 7.2 7.5 7.9 6.4 7.6 6.6 6.6 8.8 6.8 7 7.2 7.2 6.2 8.6 8.6 8.6 8.6 8.7 7.2 7.2 7.2 8.6 8.6 8.7 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	110/168 NiI 120/160 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 101/150 NiI 140/200 NiI 198/138 NiI 116/200 NiI 142/200 NiI 142/200 NiI 130/372 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/220 NiI 130/140 NiI 116/130 NiI 128/148 NiI 1100/140 NiI 108/150 NiI 130/180 NiI 100/140 NiI 108/150 NiI 1221/340 1+ 90/176 NiI 88/200 2+ 160/280 1+ 126/186 NiI 180/340 NiI 167/256 1+ 160/260 NiI 160/210 NiI 180/321 NiI 198/149 NiI 138/228 NiI 169/234 NiI 169/234 NiI	6/24 6/24 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 67 6/6	15.9 14.6 13.4 12.2 17.3 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 14.4 14.6 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 14.6 Normal 18.9 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 12.2 Normal 18.9 Normal 12.2 Normal 14.6 Normal 17.3 Normal 18.9 Normal 18.9 Normal 18.9 Normal 14.6 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Pseudo P PSC Normal Normal Normal Normal Normal Normal Normal Cortical cataract Pseudo P PSC+Cuneiform Normal Cortical cataract Normal Cortical cataract Normal Normal Cortical cataract Normal Normal Cortical cataract	Cortical Catara PSC Normal Normal PSeudo P PSC Pseudo P NSII Cataract Normal Cortical Catara PSC Normal	Normal Normal Normal Normal Mod NPDR Normal	Normal Normal Normal Mod NPDR Normal Sev NPDR Dry ARMD Normal Early dry AMD Normal Mild NPDR Mod NPDR Normal Early dry AMD Normal	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDr+CSME Normal Cortical cataract Early dry AMD Stye Mild NPDR Cortical Cataract Early dry AMD Stye Mild NPDR Cortical Cataract+Mod NPDR PSC+NSIII Cataract Normal PSC Cortical Cataract	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal Normal PSC+Gortical cataract PEscyum+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD Early dry AMD Normal Cortical cataract+Sev NPDR Dry ARMD Early dry AMD Normal Mild NPDR Cortical cataract+Mod NPDr+AION PSC+NSIII Cataract Normal	Med mag Focal Laser Med mag	Med Mag
	282 Mahadevi 48/F 283 Subhadram 48/F 284 Savithri 62/F 285 Sonabai Ra 72/F 285 Sonabai Ra 72/F 286 Kamalabai 53/F 287 Lakshmiba 64/F 288 Shivanand 61/M 289 Kasturibai 50/F 290 Yallappa 48/M 291 Chandraka 65/M 292 Hulagappa 55/M 293 Tularabai 65/F 294 Bagappa 85/M 295 Rajendra 58/M 296 Parasappa 50/M 297 Basanna 64/M 298 Balu 65/M 299 Gangamma 56/F 300 Sunanda 60/F 301 Shanta 60/F 302 Mutthappa 45/M 303 Subhadra 65/F 304 L C Hosam 57/M 305 Sangappa 75/M 305 Sangappa 75/M 306 Chandabas 58/M 307 Yallappa 85/M 308 Chandappa 60/M 310 S P Jangina 71/F 311 Gurappa M 76/M 312 S D Shinde 64/M 313 Gangabai 758/M 314 M S Gurab 62/M 315 Danakka 65/F 316 B S Masuli 55/F 316 B S Masuli 55/F 317 Shridhar H 49/M 318 Shankarep 60/M 319 Kanthabai 65/F 320 Ningappa 70/M	17781 2yrs 46110 2yrs 46111 10yrs 268812 2yrs 7107 3yrs 6745 6yrs 6754 3mon 10286 2yrs 1027 2yrs 33159 2yrs 30450 3mon 21004 8yrs 21880 10yrs 21880 10yrs 21339 5yrs 21212 New 287871 2yrs 21020 6yrs 331507 5yrs 22129 2yrs 203122 15yrs 260509 4yrs 214865 6yrs 339212 5yrs 15601 6yrs 260580 10yrs 271391 2yrs 260569 4yrs 260569 4yrs 260569 4yrs 271391 2yrs 260569 4yrs 260569 4yrs 271391 2yrs 260569 4yrs 271391 2yrs 260569 4yrs 271391 2yrs	Regular Regular Regular Regular Regular Irregular Regular Regular Regular Regular Regular Regular Irregular Regular Regular Irregular Regular Irregular Regular Irregular Regular Irregular Regular Irregular	8 6.4 8 8.3 7 6.4 6.3 6.9 9.5 6.7 7.2 7.5 7.9 6.4 6.6 6.6 8.8 8.8 6.8 7 7.2 7.2 6.2 8.6 8.6 8.6 8.6 8.6 8.6 9.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	110/168 NiI 120/160 NiI 120/160 NiI 120/160 NiI 170/330 NiI 101/150 NiI 140/200 NiI 140/200 NiI 140/200 NiI 116/200 NiI 142/200 NiI 110/130 NiI 110/130 NiI 110/146 NiI 120/193 NiI 132/150 NiI 148/220 NiI 132/150 NiI 148/210 NiI 132/150 NiI 148/210 NiI 132/150 NiI 148/220 NiI 120/134 NiI 116/130 NiI 128/148 NiI 116/130 NiI 128/148 NiI 100/140 NiI 108/150 NiI 180/160 NiI 180/160 NiI 180/160 NiI 180/340 NiI 167/256 1+ 160/260 NiI 160/210 NiI 180/321 NiI 198/149 NiI 138/228 NiI 196/148 NiI 196/148 NiI 196/148 NiI 196/149 NiI 138/228 NiI 196/148 NiI 196/140 NiI	6/24 6/24 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/26 6/36 6/36 6/36 6/36 6/36 6/36 6/36 6/36	18 6/18 24 6/18 24 6/24 18 6/18 66 6/6 66 6/6 66 6/6 66 6/6 66 6/6 67 68 6/18 67 68 6/18 67 68 6/18 67 68 6/18 67 68 6/18	15.9 14.6 13.4 12.2 17.3 14.6 14.6 20.6 17.3 14.6 17.3 12.2 18.9 22.4 14.6 10.3 12.2 18.9 12.2 18.9 12.2 14.4 14.6 17.3 17.3 14.6 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	15.9 Meibomitis 14.6 Normal 13.4 Normal 17.3 Normal 18.9 Normal 18.9 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 17.3 Normal 14.6 Normal 18.9 Normal 14.6 Normal 18.9 Normal 14.6 Normal 10.3 Normal 12.2 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 18.9 Normal 17.3 Normal	Chr Dacr Normal	normal	normal	normal	normal	normal	normal	Cortical Cataract PSC Normal Normal Pseudo P PSC Pseudo P NSII Cataract Normal Pseudo P PSC Pseudo P PSC Pseudo P PSC Normal	Cortical Catara PSC Normal Normal PSeudo P PSeudo P PSC Pseudo P NSII Cataract Normal PSC Normal	Normal Normal Normal Normal Mod NPDR Normal Mild NPDR Normal Normal Normal Normal Normal Early dry AMD Normal Mid NPDR Normal Mod NPDR Mod NPDR Mod NPDR Mod NPDR Mod NPDR Mormal Normal	Normal Normal Normal Mod NPDR Normal Normal Normal Normal Normal Normal Normal Sev NPDR+CSME Normal Mid NPDR Normal Normal Normal Normal Sev NPDR Dry ARMD Normal Sev NPDR Mod NPDR Normal Sev NPDR Dry ARMD Normal Mild NPDR Normal Sev NPDR Normal Sev NPDR Normal Mod NPDR Normal Sev NPDR Normal Normal Sev NPDR	Meibomitis+Cortical Catarac PCS Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract Normal Pseudo P+Sev NPDR+CSME PSC Pseudo P+Sev NPDR+CSME PSC Pseudo P PXF+Pseudo P POAG Normal Cortical cataract Pterygium+Pseudo P PSC+Cuneiform+Mod NPDR Mod NPDR+CSME Normal Cortical cataract Early dry AMD Stye Mild NPDR Cortical Cataract+Mod NPDR Cortical Cataract+Mod NPDR Cortical Cataract+Mod NPDR Mod NPDR Cortical Cataract+Mod NPDR Normal Cortical Cataract-Sev NPDR Cortical Cataract-Mod NPDR Stye Mild NPDR Cortical Cataract-Mod NPDR SC+CURL Cataract NORMAL PSC-CORTICAL CATARACT NORMAL PSC-CORTICAL CATARACT NORMAL PSC-CORTICAL CATARACT PSC-CORTI	t Chr Dacr PSC Normal Mod NPDR Pseudo P PSC Pseudo P NS II Cataract SCH Cort.Cataract+Sev NPDR+CSME PSC Pseudo P PXF + NSII cataract POAG Stye Normal PSC+Mild NPDR Cortical cataract Normal BRVO Normal Normal RVO Normal Normal Cortical cataract Persygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract Perygium+Pseudo P PSC+Cuneiform+Mod NPDR Pseudo P+Mod NPDR Normal Cortical cataract+Sev NPDR Dry ARMD Early dry AMD Normal Mild NPDR Cortical cataract+Mod NPDr+AION PSC+NSIII Cataract Normal Mild NPDR Cortical cataract+Nod NPDr+AION PSC+NSIII Cataract Normal PSC Cortical Cataract	Med mag Focal Laser Med mag Med mag Focal Laser Med mag	Med Mag

323 Nandakum 56/M 47236	vrs Regular	7.9 99/125	Vil 6/18	6/18 6/6	6/9	9 10.3	12.2 Normal	Normal	normal	normal	normal	normal	normal	normal	PSC	PSC	Mod NPDR	Mod NPDR+PVD	PSC+Mod PDR	PSC+PVD	Med mag	Med Mag
324 Janamma 55/F 45813 5	yrs Regular	8.9 126/162	Nil CF-3N	л 6/36 CF-	2m 6/2	24 14.6	12.2 Normal	Normal	normal	normal	normal	normal	normal	normal	PSC	PSC	Normal	Normal	PSC	PSC	Med mag	Med Mag
325 Basalingam 68/F 169094	yrs Regular	7.3 160/286	Vil 6/36	6/60 6/1	2 6/	18 14.6	15.9 Normal	Normal	normal	normal	normal	normal	normal	normal	Early PSC	Early PSC	Mod NPDR	Mod NPDR	PSC+Mod PDR	PSC+Mod PDR	Med mag	Med Mag
326 Maruti 55/M 169091	yrs Regular	7.1 108/170	Vil 6/6	6/6 6/6	6/	6 12.2	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
327 Shivanand 50/M 45731	.5yrs Regular	6 116/180	Vil 6/9	6/9 6/6	6/	6 15.9	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
328 Sharada 60/F 73653	yrs Regular	6.2 168/256	Vil 6/9	6/6 6/6	6/	6 14.6	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	Normal	Normal	Pseudo P	Pseudo P	Med mag	Med Mag
329 Shivanand 49/M 203230	yrs Regular	6.4 94/170	Vil 6/6	6/6 6/6	6/	6 14.6	20.6 Normal	Normal	Conjunctivitis	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Conjunctivitis	POAG	Med mag	Med Mag
330 Vishnu T 79/m 193138	yrs irregular	8.3 116/180	Nil HM	CF-3M NI	6/	60 15.9	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	High risk PDR+ CSME	High risk PDR	Pseudo P +PDR+CSME	Pseudo P+PDR	PRP	Med Mag
331 Sharanamr 70/F 194215	1yrs irregular	7.6 220/345	Vil 6/24	No PL 6/2	4 NI	13.3	10.3 Normal	Normal	normal	normal	normal	normal	normal	normal	PSC+ PXF	Complicated ca	Mod NPDR	NA	PSC+PXF+Mod NPDR	Complicated Cataract	Med mag	Med Mag
332 Mamta 56/F 156230	2yrs Regular	7.3 180/250	Nil CF-3N	Λ CF-3M NI	NI	14.6	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	PDR	PDR	Pseudo P+PDR	Pseudo +PDR	PRP	PRP
333 Basavraj 50/M 160902	yrs Regular	8.1 214/320	Nil 6/60	CF-3M 6/3	6 6/	60 10.3	10.3 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Mod NPDR	Mod NPDR+BRVO	Mod NPDR	Mod NPDR+BRVO	Focal Laser	Focal Laser
334 Meenakshi 70/F 110441	5yrs Regular	9.2 220/350	L+ CF-3N	и HM 6/6	0 NI	12.2	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	PDR	PDR+VH	Pseudo P+PDR	Pseudo P + PDR+VH	PRP	Vitrectomy
335 Gurupadap 68/M 143659	Oyrs Regular	7.8 173/285	Nil HM	CF-2M NI	NI	18.9	18.9 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	Mod NPDR+TRD	Mod NPDR	Pseudo P+Mod NPDR+TRD	Pseudo P+Mod NPDR	Vitrectomy	PRP
336 Basavantar 59/M 13328	yrs Regular	8.4 198/265	Nil CF-3N	/ CF-2M NI	NI	15.9	15.9 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	Early PDR+CSME	Early PDR+CSME	Pseudo P+ PDR+CSME	Pseudo P+ PDR+CSME	PRP	PRP
337 Vishnukala 79/F 143297	1 yrs Regular	9.4 120/180	Nil 6/60	CF-2M 6/3	6 NI	14.6	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	Mild NPDr	Mild NPDR	PP+Mild NPDR	PP+Mild NPDR	PRP	Vitrectomy
338 Annaray 60/M 143714	yrs Regular	8.2 160/230	Nil 6/60	6/60 NI	NI	17.3	17.3 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P	Pseudo P	Sev NPDR+CSME	Mod NPDR+CSME	Pseudo P + mSev NPDR+ CSM	Pseudo p+ Mod NPDR	PRP	Focal Laser
339 Channamm 60/F 144712	Oyrs irregular	6.3 180/240	l+ 6/12	6/18 6/9	6/:	18 16	18 Normal	Normal	normal	normal	normal	normal	normal	normal	PSC+NSI cataract	PSC+NSI Catara	Mild NPDR	Mild NPDR	PSC+NSI Cataract+Mild NPDR	6thCN Palsy+PSC+NSI+Mild NPDr	Med mag	Med Mag
340 Jannubai 44/F 14428	yrs irregular	7.2 138/190	Nil CF-2m	n CF-2m 6/6	0 6/	60 12.2	12.2 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Mod NPDr+CSME	Mod NPDr+CSME+Aste	Mod NPDr+CSME	Mod NPDr+CSME+Asteroid hyalosis	PRP	PRP
341 Shankar 55/M 134554	yrs irregular	6.2 110/170	Vil 6/6	6/6 6/6	6/	6 10.3	12.2 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
342 Shantamm 48/F 102322	yrs irregular	9.4 110/160	Vil 6/36	6/36 6/1	8 6/	18 12.2	12.2 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Sev NPDR+CSME	Sev NPDR+CSME	Sev NPDR+CSME	Sev NPDR+CSME	PRP	PRP
343 Parvathi 55/F 77525 8	, ,	6.8 130/190	Vil 6/24	6/36 6/1	2 6/		14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag
344 Danawwa 65/F 77635	, ,	6.6 110/167	Vil 6/6	6/6 6/6	6/		12.2 Normal	Normal	normal	normal	normal	normal	normal	normal			Normal	Normal	Normal	Normal	Med mag	Med Mag
345 M M Tupp; 45/M 78199	, - 0	7.1 108/180	Vil 6/6	6/6 6/6	6/		18.9 Normal	Normal	normal	normal	normal	normal	normal	normal		110111101			Normal	Normal	PRP	PRP
346 M V Kattim 68/M 87038		6.6 95/136		и CF-3M 6/6			10.3 Normal	Normal	normal	normal	normal	normal	normal	normal	PSC+Cortical cata				PSC+Cortical cataract		Med mag	Med Mag
347 Subai chav 70/F 86917	,	6.2 98/130	Nil 6/24	6/24 6/1	/-		12.2 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal		Normal	Normal	Normal		Med mag	Med Mag
348 Renuka B 57/F 77858	- 7	8.4 190/290	2+ 6/36	6/36 6/1			15.9 Normal	Normal	normal	normal	normal	normal	normal	normal	Pseudo P		Mod NPDr+CSME		PseudoP+Mod NPDR + CSME		Med mag	Med Mag
349 Mallawwa 43/F 87407	- 0	7.2 168/178	Nil CF-2m	-,,			14.6 Xanthelesm		Pterigium	normal	normal	normal	normal	normal	Normal		Normal	Normal	Xanth+Pterygium		Med mag	Med Mag
350 Mallappa P 75/M 193896	yrs irregular	6.3 160/246	Nil CF-3N	л 6/60 6/6	6/3	36 15.9	14.6 Normal	Normal	normal	normal	normal	normal	normal	normal	Normal	Normal	Normal	Normal	Normal	Normal	Med mag	Med Mag