

CATARACT SERVICES

Cataract is an age related problem in the eye which can cause blindness if not treated in a timely manner. The treatment for cataract is surgery in the form of PHACOEMULSIFICATION or Small incision cataract surgery along with an intraocular lens (IOL) implantation. **Phacoemulsification** is a surgery in which ultrasound energy in a fine phaco probe is used to liquify the cataract within the eye and remove it from a small incision (micro incision) which usually doesn't need sutures(suturesless surgey). At the same sitting the surgeon implants a foldable IOL.

SICS(Small Incision Caratact Surgery) is a manual surgery which is performed in advanced cataracts not suitable for phacoemulsification or in certain situations which do not allow phacoemulsifaication. It is also a very effective way of treating cataracts.

IOL s (Intraocular lens implants) are of various types:

MONOFOCAL IOL

TORIC IOL (Aims to correct preexisting astigmatism in a persons eyes)

MULTIFOCAL IOL (Aims to reduce the need for spectacles for distance and reading after cataract surgery)

EXTENTED DEPTH IOLs (Helps to see better depth and range of vision)

All the above IOL types are available at the department with state of art equipment for **BIOMETRY**(measurements taken before cataract surgery), (**ZEISS IOL MASTER 700, A SCAN**) along with **Specular microscopy** to check the health of the cornea before surgery

GLAUCOMA SERVICES:

Glaucoma is the second commonest cause of irreversible blindness worldwide. As it has no symptoms until late when a lot of damage has occurred, a thorough screening of all at risk individuals can help detect it early and prevent vision loss.

Glaucoma diagnostic package- includes along with evaluation of visual acuity and spectacle power, a measurement of the eye pressure(**TONOMETRY**), evaluation of the fluid outflow passages of the eye (**GONIOSCOPY**), Evaluation of the health of the optic nerve and retina(**FUNDOSCOPY**), and documentation of the structure and function of the optic nerve of the eye(**OCT&PERIMETRY**)

Additional supportive tests like **PACHYMETRY**(measurement of corneal thickness), **BIOMETRY**(measurement of length of eyeball and thickness of lens) are done in specific types of glaucoma.

TREATMENT OPTIONS FOR GLAUCOMA

Medical: Using eye drops and sometimes tablets

Lasers: **YAG laser iridotomy and iridoplasty**

Surgery:

1. Trabeculectomy & Glaucoma tube implant surgery which are offered when the eye pressure is not adequately controlled by other means.
2. Trabeculotomy with trabeculectomy for Congenital glaucoma

LASER REFRACTIVE SURGERY:

Laser vision correction (It can be used to correct myopia, astigmatism and hypermetropia)

LASIK- Laser treatment happens below a thin flap made in a painless way on the cornea. It ensures fast vision recovery.

LASIK treatments with the help of the advanced **WAVELIGHT EX-500** LASER machine ensure a precise and effective treatment. It is one of the fastest laser systems which is very gentle on the eye. **CONTOURA LASIK** is yet another advanced LASIK treatment available which is suitable in selected individuals who have aberrations which distort vision in their cornea. These can be corrected enabling a sharper vision after the surgery.

Surface ablation (PRK): Is a useful and safe technique especially when corneal thickness is slightly less

Orbit and Oculoplasty

Ptosis surgery

Eyelid surgeries for various deformities of eyelids

Cosmetic lid surgeries: Blepharoplasty, Brow lift for droopy lids. Facial cosmetic surgeries and BOTOX injections.

Blocked tear duct surgery – Dacryocystorhinostomy and Probing, Surgeries for watering eye.

Medical and surgical treatments of various orbital diseases causing protrusion of the eye.

Surgical reconstruction of eyelid tears, orbital fracture repair, trauma related deformities.

Eye socket reconstruction, anophthalmic socket and Prosthetic eye - For patients with absent eye or unsightly blind eye.

ONCOLOGY SERVICES: Surgical Treatment and reconstruction of various cancers of the eyelid, eye sockets(orbital), eyeball and conjunctiva.

RETINA SERVICES:

Treatment for retinal diseases like diabetic retinopathy, vascular occlusions or age related macular degeneration Ocular investigations like **Fundus Photography / FFA/ FAF, OCT / OCTA, Automated Perimetry** (For diagnosing retinal conditions, prognosis & planning timely treatment). Treatment with Oral Medication, Periocular / Intraocular injections are provided based on need for retinal disorders.

Vitreo-retinal surgery (surgical treatment) for conditions such as **complex diabetic eyes disorders, retinal detachments, macular disorders(macular holes and epiretinal membranes) and ocular trauma.**

State-of-the equipments such as constellation vision system, EIBOS visualisation system and the latest surgical instrumentation.

UVEA SERVICES:

Uvea is the middle coat of the eye. Inflammation of this is known as uveitis. Uveitis is one of the major causes of blindness. Timely treatment can help in preventing blindness. Managing uveitis is multidisciplinary task. Many of these patients have other systemic diseases.

Diagnosis : It requires many targeted investigations to find cause of inflammation.

Ocular investigations like Fundus photo and FFF (fundus fluorescein angiography), OCT (optical coherence tomography) Perimetry etc. Lab facilities. Examination of ocular fluid / tissue or biopsy.

Treatment: In the form of local drops, injection in and around the eye. Oral / intravenous medication that require team work with involvement of ophthalmologist / physician / rheumatologist, etc. A team of specialists at DMH are involved in diagnosis and treatment of this complex condition.

Paediatric Ophthalmology and Squint :

Eye checkup of newborn, infants, toddlers and teenagers:

Check up of refractive error (i.e. glasses number), treatment of lazy eyes, evaluation of squint, evaluation of paediatric cataract, red eyes, paediatric ocular trauma, other hereditary corneal/ retinal conditions.

Vision therapy for lazy eyes and other binocular vision problems in kids and adults Prism therapy for double vision as well as rehabilitation for neuro ophthalmic problems is given in the department. Low vision aids for kids

Squint and nystagmus evaluation:

Evaluation of squint (crossed eyes) in kids as well as adults is done in the department. Nystagmus evaluation (shaking eyes) and evaluation of other paediatric neurophthalmology related problems and their management is also done.

Paediatric cataract treatment:

With its state of art cataract services, DMH team aims to provide best surgical management of paediatric cataract (congenital,developmental as well as traumatic cataracts). Post surgery, children are regularly followed up by our expert team to ensure the best possible outcomes in this specialized field.

Squint management :

Surgery for horizontal ,vertical squint, complex squints, special squints, squints related to systemic disorders like thyroid eye disease, diabetes mellitus, trauma , intracranial tumors. Surgeries for nystagmus are also performed.

Paediatric glaucoma treatment,treatment for neurophthalmic problems, tumors like retinoblastoma is done by a team of accomplished and experienced paediatric ophthalmologists in the department.

Ophthalmic evaluation of special kids and catering to their visual needs.