

EYE CARE AND OPHTHALMOLOGY AT MMC

INTRODUCTION:

Ophthalmology is a branch of medicine and surgery that deals with the diagnosis and treatment of disorders of eye. We are committed to the excellent provision of a complete range of ophthalmic services, from accurate eyeglass prescriptions to complex intraocular surgeries. Our ophthalmologists deliver exceptional patient care in state-of-the-art and award-winning eye care facilities.

HEAD OF DEPARTMENT:



Dr. Suman Bhartiya

Professor and Head OF Department, Ophthalmology

Dr. Suman Bhartiya is a professor in the Ophthalmology department. After passing MS in Ophthalmology from LLRM medical college Meerut in 2005, she served as a faculty in the Department of Ophthalmology at Saraswathi Institute of Medical Sciences and Hospital, Hapur for more than eight years. She has been one of the best teachers among undergraduates.

She joined our prestigious institution Muzaffarnagar Medical College & Hospital, Muzaffarnagar, as Professor and Head in August 2018. She is well versed in managing a wide range of anterior segment surgeries (cataract, glaucoma & Oculoplasty). She is enthusiastically involved in Postgraduate training; academic programs & has successfully conducted multiple CMEs & workshops. She's quite a popular teacher among students and always emphasizes on comprehensive patient eye care.

Awards and achievements:

- She has 16 publications in national & international indexed journals to her credit.
- Six postgraduate students are currently pursuing course under her supervision.
- She has attended many conferences, presented papers, chaired sessions & has participated actively in panel discussions both offline & online.
- She has life membership of All India Ophthalmological Society, Delhi Ophthalmological Society, U.P. State Ophthalmological Society, Women Ophthalmological Society, and Meerut Ophthalmological Society.

- She has been invited as an external examiner for undergraduate examinations in various universities
- She has been felicitated by UP Ophthalmological Society, as a corona warrior.
- She received the award for one year ACME (Advanced course in medical education) by Christian Medical College, Ludhiana & being resource faculty of the Medical Education Unit, has taken multiple sessions of Revised Basic Workshop and CISP.
- She has been actively involved as a member of the monitoring team concern with the treatment of Covid 19 patients at this institution.

VISION OF THE DEPARTMENT:

To be the most trusted healthcare partner through our unsurpassed quality and care. And by striving to provide accessible, affordable and best available healthcare services in India

MISSION OF THE DEPARTMENT:

To provide, teach, discover and promote cost-effective eye care by working as a team and offering the highest standards of medical service in an ethical manner for delivering extraordinary customer satisfaction.

FACILITIES AND EQUIPMENTS:

The department extends exemplary services to the patients with eye disorders in and around Muzaffarnagar. The department is well equipped with both diagnostic as well as therapeutic set-up facilities, including intraocular lens implantation, glaucoma evaluation, vtero-retinal services, eye banking, Oculoplasty and strabismus. We take pride in offering our patients fully functional Air-conditioned modular OT with two operating tables.

List of Equipments at Our Department

- Phaco machine: AMO Compact Intuitive system
- Carl Zeiss -FR1pro, TOPCON operating microscopes with camera and LED screen.
- Haagstreit Slit Lamp System with camera and LED screen
- AScan(Biomedix)(Nidek) Ultrasound
- Nd: YAG Laser (Zeiss)
- Fundus Photography (Zeiss) with fluorescein angiography
- Synaptophore (topmost)
- Humphrey visual field analyser with progression analysis (zeiss).
- Green Laser (Zeiss)
- Fundus Fluorescein Angiography
- Biomedix Biometry System
- Auto-Refractometer (Grand-Seiko).

- Pachymetry and OCT (Nidek)
- Non-contact tonometer (Nidek)
- Direct (Heinz) and indirect Ophthalmoscope (Appasamy).
- Streak retinoscope

Many histopathological investigations are also conducted with full cooperation with the microbiology and pathology department. These investigations are conducted at nominal prices to serve the poor and needy. At present, there are total of 30 beds in the department of Ophthalmology.

SUB-SPECIALITIES:

The Department of Ophthalmology is pleased to provide a wide range of ophthalmic clinical services to the general public. We provide diagnostic, therapeutic and surgical expertise in the sub-specialties of:

- Cornea & Anterior Segment
- Glaucoma
- Neuro-Ophthalmology
- Ocular Oncology
- Oculoplasty
- Paediatric and Strabismus
- Retina and Vitreous
- Uveitis

Some clinics run on specific days such as:

- Cornea and eye-bank clinic every Monday.
- Glaucoma clinic every Tuesday.
- Squint and Oculoplasty clinic every Friday.
- Retina clinic every Saturday.

COURSES:

We offer undergraduate training and postgraduate courses [MS Ophthalmology] Post graduate [MS]. We were permitted for two post-graduate seats since 2017, which have been now recognised.

EFFORTS WORTH MENTIONING:

- **Story of Kamil-** After being turned away from many prestigious ophthalmic setups, Kamil a 25 year old man from Muzaffarnagar came to our department with a complicated cataract and extremely low vision in one eye and blind from another. After being counselled by the doctors he was taken for cataract surgery. The surgery was successful and gave Kamil's old pitiable, socially withdrawn life a new beginning. Later he got married and started earning and living a respectful social life.

- **Story of Mohd Kamaluddin-** A 60-year old man suffering from abnormal growth on the upper and lower lid of the right eye for many years came to the ophthalmology department seeking treatment. After appropriate investigations, he was diagnosed with right eye Basal Cell Carcinoma with orbital spread. He and his family members had accepted his situation as a terminal illness and were completely unaware that it can be treated. He underwent right eye exenteration; complete removal of cancerous tissue was confirmed histopathologically. Following the surgery not only he improved his physical well-being but also found a new life and is currently living a very happy and healthy cancer-free life.
- **Story of Ayaan** - 12 year old Ayaan was hit in the left eye with a stick while playing “gilli-danda.” There was the diminution of vision, associated with pain. The child was agitated and his parents were worried. He was thoroughly examined and was admitted for iris abscission with corneal repair after due anaesthesia consultation. Since they belonged to a poor family, their ayushman card was accepted. Post-operatively, his vision improved to 6/9 with glasses.

ACADEMIC ACTIVITIES

- The curriculum of the programme sheds light on topics like Ocular Physiology, Orbital and Ocular Anatomy, Gross Anatomy, Histology, Ocular Pathology, Immunology and others
- The purpose of the programme is to create professionals who would provide high-quality eye care to the patients and advance the cause of science through research & training.
- Students who are looking for their career dedicated to ophthalmic care must opt for this programme.
- The department aims for academic excellence by following a strict PG teaching schedule including lectures, case discussions and journal clubs and also encourages Residents are encouraged for paper and poster presentations in national and international conferences.
- Department also conducts Phacoshala training for better understanding and hands-on experience of phacoemulsification in a dummy eye for residents at regular interval to uplift the clinical excellence.
- Criteria: As per NMC guidelines candidate must be NEET Qualified and allotted through UPDGME Uttar Pradesh Lucknow.

PRACTICE PROTOCOL DURING PANDEMIC

Entire faculty, residents and staff underwent training for managing Covid patients and performed rotational duties in Covid ward during the first and second waves. Special care and observation was given to the cases of Mucormycosis in Covid positive patients in the covid ward and post covid patients presenting in the OPD.

A protocol for ophthalmic practice in the era of the COVID-19 pandemic was established. The protocol covered patient screening, clinic flow, required personal protective equipment, and modifications of ophthalmic equipment for improved safety.

A separate slit-lamp had been designated for screening patients with unknown covid status. Signs and symptoms of Conjunctiva injection, follicular reaction, viral conjunctivitis, and keratitis are dealt with in all permissible precautions.

Our operative procedures entail a detailed screening of patients. All admitted patients require a negative RT-PCR report and are enquired about any systemic signs and symptoms suggestive of covid. If any signs are found, they are managed before taking the patient for surgery.

PREPARATION FOR THE THIRD WAVE:

Social distancing will be maintained at all times. All measures including N95 mask, gloves, and the surgical cap will be worn at all times by the team of doctors, nursing staff as well as OT technicians on their respective days. Single patient will be allowed to enter into the OPD at a time.

The operative procedures will be conducted keeping in mind the guidelines established by the government