

# **PEDIATRICS AND PARTURITION AT MMC**

## **INTRODUCTION:**

Pediatrics is the branch of dealing with health and medical care of newborns, infants, children, and adolescents.

The Postgraduate Pediatrics department of Muzaffarnagar Medical College is one of the top class departments currently present in the Uttar Pradesh State. Doctors here are working around the clock for the Care of the patients and babies.

## **HEAD OF DEPARTMENT:**



### **Dr. Manish Agrawal**

#### **Dean Academics and Head of Department, Pediatrics**

Dr. Manish Agrawal is an MBBS from Lala Lajpat Rai Memorial Medical College, Meerut and has done his MD from King George's Medical University, Lucknow. With more than 28 years of experience and 15 plus articles being published in various National and International Journals, he is an Internal as well as External Examiner for MBBS & MD examinations in various colleges and universities.

He has done basic (rBCW) and Advance course in Medical Education (ACME). He is a Master trainer of Pediatric Covid 19 Training by UP DGME. He is the National Instructor of the IAP respiratory chapter CAMP module, National TB Elimination Program (NTEP), Helping Baby Survive (HBS), Advanced Newborn Resuscitation Program (IAP NNF NRP FGM), Basic Neonatal Care and Newborn Resuscitation Program (BNRCP), Basic Life Support (BLS), Pediatric Advanced Life Support (IAP, PALS, MAP), co-branded with American Heart Association & American Academy of Pediatrics.

He is also a member of various institutional committees such as the Medical Education Unit, Curriculum Committee, etc. And also Social Media Secretary of IMA Meerut, Vice-president of IAP Meerut and UP state academic coordinator of IAP-NNF NRP FGM.

## **Awards and achievements:**

- IMA President Appreciation Award for rendering exemplary services 2016-2017, 2017-2018 and 2018-2019.
- UP IAP certificate of appreciation 2017 for conducting Basic Life Support Workshops throughout the year across the state.
- UP IAP certificate of appreciation in 2021 and 2017 for excellent and dedicated academic performance held under IAP Neonatal Resuscitation Program.
- Chairman Appreciation Award as Dean Academics in 2021

## **VISION OF THE DEPARTMENT:**

To provide high quality care, with the aim to start DM Neonatology and also to increase our Post-Graduates seats from 2 to 7.

## **MISSION OF THE DEPARTMENT:**

Our mission is to provide daily free immunization, run different specialty OPD clinics, and provide level 3 nurseries with quality, innovation, and teamwork.

## **FACILITIES AND EQUIPMENTS:**

Here we have high-class facilities for newborns & children in the form of Level 3 NICU & PICU. There are in total of 100 beds in the department of pediatrics, 60 beds in the isolation ward, 20 beds in HDU, and 20 beds in NICU/PICU. Each bed in the isolation ward is equipped with oxygen and suction port. Each bed in HDU is equipped with oxygen and suction port, CPAP, HNFC & BIPAP machines as well. And each bed in PICU is equipped with oxygen port, suction port and ventilator machine. We also have two ventilators for newborn babies and twenty ventilators for pediatric patients.

Apart from this we have servo controlled radiant warmers for newborn babies who suffer from hyperthermia, single & double surface phototherapy machine to reduce the level of jaundice in babies. And for problems related to respiration, we have a Continuous Positive Airway Pump (CPAP), High Flow Nasal Cannula (HNFC), multipara monitors and infusion pumps.

## **SUB-SPECIALITIES:**

We have different clinics running on each day such as:

- Immunization clinic on daily basis.
- Child guidance clinic every Monday.
- Hematology clinic every Tuesday.

- Neurology clinic on every Wednesday.
- Well-baby and gastroenterology every Thursday.
- Endocrinology every Friday.
- Nephrology every Saturday.
- Bronchial asthma clinic on 29<sup>th</sup> of every month.

### **COURSES:**

The courses that we offer are Under-graduate and Post-Graduate courses. And time to time we conduct training courses such as Pediatric Advance Lab Support (PALS) that helps in how to revive a child at an initial stage and also the Newborn Resuscitation Program (NRP).

### **POST GRADUATE DEPARTMENT:**

- Permitted and Recognized for two post-graduate seats since 2013.
- Accredited Centre for Neonatal Resuscitation program and basic life supports training since 2015.

### **EFFORTS WORTH MENTIONING:**

Since the beginning of the pandemic, our doctors are making it possible for their patients to have healthy babies. Working under PPE kits for long hours and testing positive for COVID-19, there have been a total of 61 deliveries out of which 9 were normal and 52 were done by operation, all the patients have been revived successfully with zero casualties so far. And our department has provided around 1,200 COVID-19 vaccinations to adults.

Out of 61 deliveries let's take a look at some of the heart warming and unbelieving stories of doctors and their patients of the Pediatrics department of Muzaffarnagar medical college:

- **Story of Shivani:**

Shivani, a baby girl was brought to the MMC pediatrics department at just 4 hours of life, as she was suffering from pneumonia, intrauterine growth retardation (IUGR), meconium aspiration syndrome (MAS), shock, sepsis, disseminated intravascular coagulation (DIC) and borderline personality disorder (BPD).

Under the guidance of Dr. Manish Agrawal and his team of doctors Dr. Renu Yadav, Dr. Shekhar Sharma, Dr. Shivam Yadav, Dr. Sakshi Tiwari, Dr. Monika Kapoor, and Dr. Moin Ahmed, Shivani was mechanically ventilated for 7 days, continuous positive airway pressure therapy (CPAP) was given to her for 4 days and High flow nasal cannula (HFNC) was given for 10 days.

The mother of the baby had counseling on breastfeeding and how to take care of the baby. After overcoming many complications and with proper support, guidance, and a humanitarian approach Shivani was discharged after one month with no charges.

### **ACADEMIC ACTIVITIES:**

- Regular participation in international / national / state conferences and workshops as faculty and also presenting paper posters.
- Organizing and participating in IAP UG and PG quizzes.
- Skill lab training for Neonatal resuscitation program. Basic life support and other pediatric skills for UGs, interns, 4 PGs.
- Conducting pediatric COVID-19 training for doctors and nurses as directed by DGME Lucknow.
- Regularly organizing pediatric COVID-19 training for faculty, PGs, interns, and paramedical workers.

### **PREPARATION FOR THIRD WAVE:**

A third possible wave in India due to prevailing COVID-19 variant is likely to affect children more than adults and the pediatrics department is fully geared to face it. A short orientation program under the leadership of respected Principal Dr. (Brig) G.S. Manchanda, Dean Academic Dr. Manish Agrawal was held for district administration including CDO, ADMs, SDM, BDOs, and sector magistrates.

Pediatrics COVID-19 training workshops are being held regularly for all departments- faculties, post-graduate residents, interns, and nursing staff including hand-on training in the skill lab.

A ventilation workshop was also conducted in the district hospital for PMHS doctors regarding use of different ventilation modalities- ventilator, HFNC, BIPAP, C-PAP, etc. 110 bedded pediatric covid wards is already prepared (10 triage, 50 isolation, 50 HDU/ICU beds).