बाल चिकित्सा एवं स्नातकोत्तर शैक्षणिक संस्थान
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Greetings from PGICH, Noida!!!!

The Postgraduate Institute of Child Health (an autonomous Institute under the Govt. of UP), located in Sector 30, Noida, is a unique facility conceptualized at par with the western children hospitals to provide high quality paediatric health care, postgraduate and postdoctoral teaching and training. The institute is in its infancy and developing phase, with 21 clinical and basic disciplines. Apart from that, several new departments and centres (trauma center, Paediatric cancer centre, Bone marrow, renal and Liver transplant centre, Skill development centre), are being planned to start in future. We are an autonomous State Government Institute in the heart of Noida catering to the health care needs of children in the region of western UP and Delhi NCR. Our institute is one of the unique institutes providing all specialized services for pediatric and neonatal care. Our services include neonatology, pediatric medicine, and pediatric surgery. Our pediatric super specialties include services include orthopedics, gastroenterology, hemato-oncology, endocrinology, cardiology, neurology, urology, ophthalmology, ENT, and medical genetics.

We have a Medical Genetics department which manages patients with rare genetic disorders and we also get referrals from different medical colleges in Uttar Pradesh and nearby states. Since the inception of this department, we have witnessed steady increase in footfall of such patients with genetic disorders.

Burden of Genetic Disorders on the society is paramount and should be taken care of as most of these are incurable and require various supportive treatment and medications.

- Worldwide, around 3%–5% of all live born infants have a major congenital anomaly.
- About 4–5% of all babies born have a genetic disorder. A chromosomal abnormality is detected in 0.5% of all newborn babies and 7% of all stillborns.
- Around 15% of all pediatric admissions have underlying genetic defects and around 20–30% of all infant deaths are due to genetic disorders.

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- About 50% of individuals found to have mental retardation have a genetic basis for their disability.

Most of these diseases require genetic testing like Exome sequencing, targeted multigene panel testing and transcriptomic sequencing and Cytogenetic Microarray which range between Rs. 15,000-20000. Genetic testing is must for these diseases as tailored treatment can be given, for prognostication and also for surveillance. An exact molecular diagnosis available after genetic testing is also used for prenatal diagnosis for these incurable diseases in future pregnancies of parents (of the child with genetic disorder). This prevents occurrence of such diseases in future and also decreases the morbidity for the family and the society as a whole.

Due to cost constraints, many such families are not able to go for genetic testing, thus resulting in continued morbidity and also birth of more children with such genetic incurable disorders. These disorders are present in all socioeconomic strata of the society; those to suffer most are those of the lower socioeconomic status.

Our institute would like to join and collaborate on the development of an NGS (Next Generation Sequencing) and cytogenetic laboratory. We have necessary space available for an NGS and cytogenetic laboratory. Those interested can apply for this MoU till 12th of July, 2022.

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