



## PCSI Fellowship in Paediatric Critical Care

### Objective:

- a) To facilitate and encourage our young post-graduates aspiring to provide for higher level of specialized services in own country.
- b) To promote medical research and innovations adaptable to the socio-economic and culture of our country.
- c) To impart training to student in such manner so that they function as competent Consultant / Faculty with adequate skills required to deliver quality intensive care.

### Prerequisites/Eligibility:

1. The Fellow must possess the qualification of MD/DNB in Anaesthesia or Paediatric or be a trained Paediatric cardiologist desiring ICU subspeciality training
2. Registration with State Medical Council/ Medical Council of India.

### Benefits

1. Round a clock dedicated fellows work in paediatric cardiac intensive care unit & PICU.
2. Remuneration as paid to the Senior Resident
3. Access to Library and Online Journals

### Plan

1. Duration: One & Half year.
2. Evaluation: Six Monthly. Theory Papers and Practical
3. Feedback
4. Indemnity Bond
5. Certification

### Course Curriculum

1. Introduction to congenital and rheumatic heart diseases.
2. Pre op management of cyanotic and a cyanotic CHD.
3. Post-operative management of CHD in details.
4. Understanding of cardio pulmonary bypass and its post-operative implication.
5. Post-operative pain and sedation.
6. Basic neurology and pulmonology in setting of post-operative care.
7. Ventilator management including High frequency Ventilations.
8. ECMO.
9. ABG and Hemodynamics

10. Infection control.
11. Understanding of Trans thoracic and Trans esophageal echo cardio graphy.
12. Understanding of Paediatric cardiac cath
13. Understanding of Radiology as connected to the ICU.
14. Nutritional and other aspects of neonates and pediatrics with heart disease

**Training includes:**

1. Weekly Seminars/Journal club
2. Monthly Lectures by faculty
3. Infection Control Committee Meeting
4. Six monthly internal assessment
5. Final certifying examination (Clinical and Practical)  
(Examiners- National Faculty)

**Hands on:**

- Ventilator management
- ECMO management
- TEE/TTE echocardiography
- Central line cannulation
- ICU emergency procedures

**Activities of the Fellow:**

**a) ICU Rounds**

The Fellow will carry out daily ICU rounds and these ICU rounds will, at least twice a week, be carried out as a formal teaching ward round supervised by a member of the consultant staff.

The Fellow will have to attend Emergency Duty and Night duty as per the institutional requirements

**b) Weekly Cardiac Multidisciplinary Meeting**

The Cardiology Department conducts a series of one to one weekly meetings which include:

**a) Cardiac Procedure Review & Planning**

- Weekly assessment of a combined Cardiac Surgery & Cardiology Conference.
- The weekly Conference includes the presentation of Cardiac Cases, difficult problem cases and the discussion of management by members of the Consultant Staff including Cardiac Surgeons, Intensivists and Cardiologists. Fellows are freely involved in the discussion of the surgery and management of these patients and given guidance.
- There is a monthly Mortality & Morbidity meeting carried out by the Fellow on a rotational basis which is purely of a teaching and educational na-

ture. Teaching rounds occur at least twice a week and the attention is given to discussion of management of patients during these rounds.

- The Fellow will maintain the Morbidity & Mortality Register and present the same to the Head of the Department next morning following the event.
- The Fellow will attend Interdepartmental meetings held as per the institutional guidelines

**b) Teaching**

The trainee will be involved in the teaching of Residents and Registrars. The teaching will be carried out both formally and informally; formal teaching sessions of medical students by Fellows takes place on a regular basis whilst the students are within the Hospital.

**c) Research**

The Fellow will work on at least one Research Project directly supervised by the designated Faculty

The Fellow can carry out several research projects during their 18 months in the Department. These projects are decided upon by discussion between the Fellow and members of the Department. Research is supervised by the designated supervisor of training who ensures that the work is carried out adequately and arranges for its ultimate publication. The research is generally clinical research, though facilities are available for laboratory research.

**Log Book**

The Fellow will maintain the Log Book stating his role as Observed, Assisted or Performed.

1.	Central line insertion	50 minimum
2.	Arterial line insertion	25 minimum
3	Intubation	40 minimum
4	Peritoneal dialysis	
5	Chest drainage insertion	
6	Journal club	12
7	Number of Seminars/Symposia	06
8	Number of Research Projects	01
9	Number of Research Papers published or accepted for publication	01