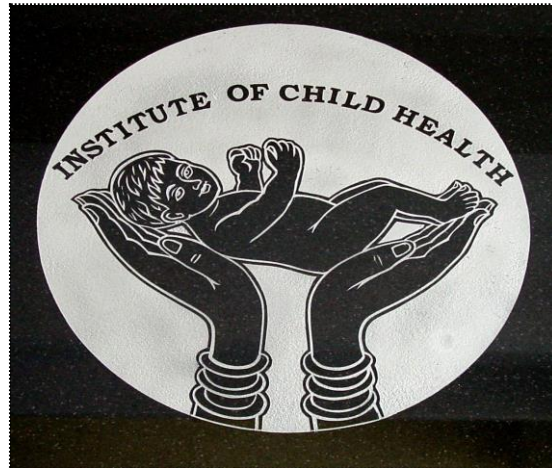


**INDIRA GANDHI INSTITUTE OF CHILD HEALTH
AUTONOMOUS INSTITUTE OF GOVT. OF KARNATAKA
(A Post Graduate Institute of Higher Medical Sciences)**

**South Hospital Complex,
Dharmaram College Post, (Near NIMHANS)
Bengaluru-560 029.**

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**(AFFILIATED TO RAJIV GANDHI UNIVERSITY OF
HEALTH SCIENCES, KARNATAKA)**



**PROSPECTUS
FOR
FELLOWSHIP IN NEONATAL INTENSIVE CARE**

**INDIRA GANDHI INSTITUTE OF CHILD HEALTH,
South Hospital Complex,
Dharmaram College Post, (Near Nimhans)
Bangalore-560 029.**

**FELLOWSHIP PROGRAMME IN NEONATAL INTENSIVE
CARE**

GOALS

- To provide Basic and Advanced training in 'Neonatology', producing highly competent doctors in this field.
- To be able to provide clinical care of the highest order to the newborn infants.
- To enable the doctor to view the baby as a special individual with unique needs and Neonatal-Perinatal medicine as a superspeciality.
- To inculcate and further human values of empathy, ethics, care and discipline with a sound background of knowledge and clinical skills to practice Neonatology.
- To empower the doctor with a necessary knowledge / expertise required to set up a Neonatal unit encouraging set ups in the far reach areas.

OBJECTIVES

1. KNOWLEDGE
2. SKILLS (CLINICAL /TEACHING/RESEARCH)
3. COMMUNICATION SKILLS

1. KNOWLEDGE :- (To be able)

- To acquire knowledge and be conversant with common neonatal problems -their Etiology, Pathophysiology, Diagnosis, Management and prevention.
- To acquire knowledge regarding Neonatal Morbidity, Mortality and prevention strategies to further decrease these.
- To acquire knowledge in Neonatology with respect to neonatal care in the community.
- To acquire knowledge with respect to organizing and managing a tertiary level Neonatal Intensive care Units.

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2. SKILLS :-(*To be able*)

- To be able to identify and manage neonatal problems effectively and early.
- To analyze neonatal health problems and develop preventive strategies to decrease Neonatal morbidity and mortality at a hospital and community level.
- To provide primary ,secondary and tertiary level care of the highest standard to critically ill Neonates.
- To Plan ,establish and manage Level 1,2 and 3 Neonatal units.
- To Appropriately use and maintain Equipments,/Technology in the care of Newborn babies .
- To involve in Active research in neonatology and its basic sciences applied to neonatology , publishing papers in peer reviewed journals .
- To involve in active teaching of pediatric Postgraduates Residents in their Neonatology electives

3. COMMUNICATION SKILLS (*To be able*)

- To take rational decisions in the face of ethical dilemmas in Neonatal –Perinatal medicine .
- To exhibit skills of a good team worker including nurses ,paramedical workers.
- To exhibit communication skills of a high order and demonstrate compassionate attributes befitting a caring Neonatologist.
- To have effective interdepartmental relationship.
- To counsel parents regarding Neonatal problems and Genetic /Hereditary diseases

DUTIES/RESPONSIBILITIES

1. Provide in-hospital medical care to patients in the NICU with complex medical needs.
2. Attend all “very high risk” resuscitations in the Delivery Room and NICU or other resuscitations when requested by Obstetrics.

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3. Initiate and support specialized care required by babies in NICU including, but not confined to, assisted ventilation including high frequency ventilation, parental nutrition and exchange transfusion.
4. Confirm the history and physical examination on all admissions, document additional findings and generate a problem list and plan of acting, and countersign the junior doctors notes and examining infant.
5. Perform/supervise procedures on newborns (e.g. lumbar puncture, placement of long peripheral lines, placement of arterial lines, placement of central lines, thoracentesis, placement of chest tubes) within limits of expected competence at the discretion of the attending neonatologist; and/or supervise the junior doctor/Nurse as required.
6. Be available in hospital for all emergencies in NICU and delivery room.
7. Provide information to Antenatal-Perinatal patients and newborn consultations when required.
8. Assist with data collection sheets, documentation of procedures, patient progress notes and discharge summaries.
9. Provide assistance to pediatricians/family physicians with patients admitted under their care in the level II NICU's.
10. Work as an effective member of the health care team.
11. Maintain appropriate communication with the attending neonatologist.
12. Supervise ,Teach the junior resident's bedside care of the newborn infants.

EXPECTED ORDER OF INCREASED RESPONSIBILITIES

DESIGNATION	TIME FRAME	DUTIES	UPON SUCCESSFUL COMPLETION
Junior fellow	First 3 months	Function initially as a senior resident following complex and sick infants with close supervision	Senior call at night Senior fellow during the day (in rotation). Interaction with the Transport Team. Report to the neonatologist on all orders given.
Senior fellow	Next 6 months (assessments are based on clinical skills on service and knowledge base at teaching sessions)	Junior/senior fellow Functions as a fellow, performing resuscitations independently, supervising junior residents and Nurses	Membership in neonatology academies ex: nnfi
Supervisor	Next 6 months	Run rounds in level II nurseries, occasional rounds in level III, educational role for junior staff, interact with Transport Team	More time available for research. Chief resident role. Independent interaction with the Transport Team
Junior consultant	Last 3 months	Run rounds in level III units, supervises whole team, responsible for education of residents and medical students etc	Successful completion of the Clinical Fellowship

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SYLLABUS

Systemic Neonatology:

Respiratory system:-

- Examination and interpretation of respiratory signs and symptoms
- Congenital malformations of Respiratory system
- Pulmonary diseases: Hyaline membrane disease, Transient tachypnea of Newborn, Meconium aspiration syndrome, Pneumonia, Pulmonary airleak syndromes ,Pulmonary Hemorrhage, Persistent fetal circulation.
- Apnea.
- Oxygen therapy and its monitoring
- Neonatal ventilation
- Pulmonary infections

Other Pulmonary Disorders

Cardiovascular system:-

- Fetal circulation .transition from fetal to neonatal physiology
- Examination and interpretation of cardiovascular signs and symptoms
- Congenital Heart disease
- Cardiac Arrhythmias
- Hypertension in neonates
- Shock: Pathophysiology ,monitoring & management
- Congestive Cardiac failure
- Other cardiac disorders

Gastrointestinal system and hepatobiliary:-

- Congenital malformation of GIT
- Disorders of liver and Biliary system
- Bilirubin Metabolism
- Neonatal Jaundice ,diagnosis, monitoring , management ,phototherapy and exchange transfusion.
- Conjugated hyperbilirubinemia
- Necrotizing Enterocolitis.
- Diarrheal diseases

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Duration of Course:

18 months (full time work as per RGUHS guidelines and not permitted to work elsewhere)

Eligibility:

- i) MD (Paediatrics), DNB or its Equivalent/DCH with Three Years Clinical Experience.

Selection:

- 1) Candidates will be selected from 4 member panel by interview
(Approved by RGUHS)
- 2) If necessary entrance test will be conducted.

Fees & Stipend:

Fees for the course	:As per IGICH norms
Monthly stipend	:Rs.60000/- Per Month

*In the event of the candidate leaving the course by discountenance or otherwise and thus failing to complete course;

1. The fee paid by candidate will not be refunded.
2. The stipend drawn by the candidate from the Institute during the period of the Fellowship programme to be paid to Institute.

Experience:-

Preference will be given to candidates having three years experience after post graduation in the concerned specialty.

COURSE CONTENTS (SYLLABUS)

Systemic Neonatology:

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Training includes:

1. Weekly Seminars/Journal club
2. Monthly Lectures by faculty
3. CTS Seminars
4. CTC discussions
5. One publications or two representations at State/National level.
6. Internal assessment every six months
7. Final certifying examinations (clinical & Practical) examiners-National Faculty)

Attendance & Leave:

As per University Guidelines

Faculty:

Staff from Indira Gandhi Institute of Child Health, Bangalore.

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SCHEME OF EXAMINATION

THEORY EXAMINATION – includes 2 theory papers 100 marks each.

- Two long essays(20 marks each)
- Remaining six short essays (10 marks each)

PRACTICAL EXAMINATION – 2 Cases – 75 marks each

VIVA VOCE – 50 marks

Total – 400 marks

Copies of certificates to be enclosed with application (Originals at the time of Interview)

1. Photos –2
2. SSLC Marks card.
3. MBBS Degree Certificate and marks cards for all the four years.
4. MD(Paediatrics)/DCH Certificates / Marks card / Convocation Certificates
5. KMC Registration Certificate(updated qualification)
6. Application of in-service candidates should be routed through proper channel only.
7. Experience Certificate if any.

*** This Fellowship Programme is not recognized by Medical Council of India.**

