

**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.**

**Phone: 080-22443143 & 22442421 Telefax:080-26541799
email: ihealthchild@yahoo.in / igichfellowship@gmail.com
Web : www.igich.karnataka.gov.in**

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



**PROSPECTUS
FOR
FELLOWSHIP PROGRAMME IN PAEDIATRIC & ADOLESCENT
ENDOCRINOLOGY**

1) **Name of the subject:** Paediatric and adolescent endocrinology.

2) **Please describe:**

a. **Goals:**

The primary goal of this Course will be to train interested and committed paediatricians in the subspecialty of paediatric and adolescent endocrinology with the aims of imparting knowledge regarding

- prompt recognition of clinical symptoms and signs,
- accurate clinical diagnosis,
- appropriate, most practical and cost-effective approach to biochemical and other relevant investigations,
- optimal management and treatment of common endocrine disorders in children and adolescents.

In India, at present, since the number of specialists in the field of paediatric and adolescent endocrinology is only a few and greatly lacking, the course and its curriculum are formulated with the specific goal of providing expertise to paediatricians to treat children and adolescents in the community at large, who require specialized paediatric endocrine care. There are only few centers offering this course.

b. Statement of objectives of the Course:

The objectives of this Course will to provide pediatrician trainees (Fellows) with

Knowledge –to gain adequate knowledge of normal endocrine physiology and pathophysiology of common endocrine conditions in children and adolescents in order to recognize, diagnose, investigate and treat them effectively. The aim of this Course will be to also provide the trainees with up to date knowledge of all aspects of pediatric endocrinology.

Skills and attitudes – To enable pediatricians to acquire appropriate skills in the specialty for providing quality care to children and adolescents needing endocrine care and to provide health education to their parents in order to help them attain the right attitude toward their child's chronic disorder.

Communication abilities –To impart counseling skills to the trainees in the subject, because nearly all of the endocrine conditions require life-long treatment, and hence the parents will need to be counseled in detail regarding all aspects of the patient's disorder.

b. Course contents (syllabus): Curriculum attached as Annexure A.

Essential knowledge: The curriculum gives details of all the topics that will be covered during the training period.

Essential investigations and diagnostic procedures – Theoretical knowledge and practical aspects of all basic hormonal assays will be imparted, viz., serum levels of Growth hormone, LH, FSH, ACTH, TSH, TRH, ADH, GnRH, prolactin, oxytocin, ADH, parathormone, T4, T3, Calcium profile, Lipid profile, Testosterone, Estradiol, DHEAS, androstenedione, Estradiol, DHT, insulin, IGF-I25 OH vitamin D3, 25 (OH)2 vitamin D3, and various other relevant hormonal investigations as required.....

Imaging procedures: MRI, CT scans, ultrasonography, vascular studies, skeletal surveys her investigations: Karyotype, FISH techniques, Methylation test, MPS screening, antenatal screening tests, Chorionic villous biopsy, amniocentesis and others.....

Stimulation tests, metabolic investigations, etc.:

| | | |
|----------------------------|----------------------------|-------|
| Clonidine stimulation test | Synacthen stimulation test | |
| GnRH stimulation test | hCG stimulation test | |
| Dexamethasone suppression | | water |
| deprivation test | | |
| Oral GTT | Fasting study | |
| Obesity workup | and others.... | |

b. Teaching / Learning activities:

The faculty will provide intensive hands-on training for all the trainees in all outpatient clinics, in carrying out various metabolic investigations and stimulation tests. The trainee will also actively participate in discussion with the biochemist, pathologist, radiologist surgeons, Dietician child psychologist and other specialists in the management of every endocrine patient seen. The trainee will function as a consultant in training and hence will learn all aspects of management of endocrine patients in order to serve as a competent endocrinologist, in future, after successfully completing the Course.

The trainee to learn the importance of general pediatric skills in relation to ped. Endocrinological issues + associated / coexisting general pediatric problems which can precipitate / aggravate the endocrinological problems.

The trainee will be given every opportunity to participate in all teaching / learning and research activities of the department to enrich his/her knowledge of the subject. He/she will be encouraged to present cases for clinical discussions daily, CPC discussions, mortality meetings, journal clubs, seminars, symposia and to attend other teaching activities of the Institute. He / she will be favored to present scientific papers in national and international conferences.

The trainee will be expected to undertake a short and focused research project during the Course with the aim of publication of this paper in an indexed journal.

The trainee will be expected to attend any important and relevant lecture in the City, provided the regular clinical duties of the trainee are not disrupted.

e. (1). Participation in departmental activities:

1. **Journal review meetings:** Once a week
2. **Seminars:** Once a week
3. **Clinico Pathological Conferences:** once a month
4. **Inter Departmental Meetings:** Radiology, Biochemistry once a week
5. **Community Work:** – Camps / field visits: Childhood diabetes camps twice a year,

- CAH camps twice a year, thyroid camps twice a year
6. **Clinical rounds:** – daily
 7. **Participation in Conferences / presentation of papers:** National and State conferences once year. International conference once a year
 8. **Any other:** Active participation in research projects of the department and submission of a short research dissertation carried out by the candidate.

(2). Rotation and posting in other departments

(Duration and Learning requirements to be specified for a, b, & c.):

Paediatric and neonatal ICU – 6 weeks/year; Biochemistry – 2 weeks/year

(3). Orientation Programme:

- Eg.
- (a) Use of Library: regular use will be encouraged.
 - (b) Laboratory procedures: 2 weeks posting per year. Will need to become familiar with the performance and interpretation of RIA and other assays performed by the department and to “sign” daily the reports generated.
 - (c) National Programmes: World Diabetes Day, World Thyroid Day
 - (d) Any other

(4). Training in Teaching Skills and Research Methodology:

The candidate will be expected to teach paediatric endocrinology periodically to trainee postgraduates (DCH, MD, DNB courses) by way of seminars, case presentations, etc.

Diabetes education of patients and their parents as well as the nurses involved in the treatment will be the responsibility of the candidate concerned. A research methodology course for 3-5 days will be arranged at the beginning of the course every year.

f. Monitoring of Teaching / Learning activities:

- (a) Methods: Journal reviews, seminars, case presentations etc.
- (b) Frequency: 3 – 4 / week,
- (c) Schedules or Checklists, log books, diary: The department will have a trainee handbook/manual outlining all the diagnostic and clinical procedures done in paediatric endocrinology. Log books will be maintained by the trainee. Diary of all clinical cases seen and handled will also be kept.

g. Scheme of Examination: (Total marks: 400).

- (a) Written: Two theory papers – 100 marks each, two essays 20 marks each, six short notes questions 10 marks each
- (b) Clinical: Number & Type of cases: 2 to 4 clinical cases (100 marks) and “spotters” (50 marks)
- (c) Viva Voce (50 marks)

h. Recommended Books and Journals:

1. Paediatric Endocrinology by F. Lifshitz, 4th edition,
2. Textbook of Paediatric Endocrinology, O. Pescovitz, 1st edition,
3. Short Textbook of Paediatric Endocrinology by M. McGillivray,
4. Textbook of Paediatric Endocrinology by C.M. Brook,
5. Journal of Clinical Endocrinology & Metabolism,

6. Endocrinology,
7. Hormone Research,
8. Journal of Paediatric Endocrinology & Metabolism,
9. Endocrine Reviews,
10. Indian Journal of Thyroid,
11. CAPE News.

Duration of Course:

18 Months (full time work as per RGUHS guidelines and not permitted to work elsewhere)
Private practice of any kind not allowed.

Eligibility:

- i) MD Pediatrics, 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.

Attendance & Leave:

As per University Guidelines

Faculty:

Staff from Indira Gandhi Institute of Child Health

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.
8. Publications

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