Unitat de Patologia Infecciosa i
Immunodeficiències de Pediatria
Pg. Vall d'Hebron 119-129 | 08035 Barcelona

PAEDIATRIC INFECTIOUS DISEASES AND IMMUNOLOGY UNIT TRAINING PROGRAMME

Objective:

The Paediatric Infectious Diseases and Immunology (PID) training programme aims to equip trainees with comprehensive knowledge and clinical skills in the diagnosis and management ofchildren with complex infections and primary and secondary immunodeficiency. The curriculum encompasses both common and complex infections in neonates, children, and adolescents as well as primary and secondary immunodeficiency. Trainees will work under the supervision of consultants specialising in Paediatric Infectious Diseases and Immunology at St. George's University Hospital.

St. George's University Hospital is one of the largest teaching hospitals in South London and it is affiliated with City St. George's University of London Medical School. It is a major centre for clinical care, teaching and research. Children's services provide local and tertiary Paediatric services and the PID team works closely with specialist Paediatric services including surgery, , Neurology, Genetics, Respiratory, Ophthalmology, ENT, Plastic Surgery, Endocrinology, Gastroenterology, Orthopaedics, Neurosurgery, Radiology, Metabolic Diseases Paediatric Intensive care Neonatal Intensive Care Services and microbiology.

Programme Structure:

1. **Clinical Training**
   - Ward-based, outpatient, and inpatient consultation services
   - Multidisciplinary meetings
   - Case presentations and discussion
   - Antimicrobial stewardship rounds
2. **Didactic Learning**
   - Weekly PID lectures (including twice a month a joint teaching session (case presentation or Journal Club) with the Paediatric Infectious Diseases and Immunology team at Evelina Children's Hospital, London)
   - Journal clubs and case presentations under general paediatrics
   - Weekly academic seminars at the Centre of Neonatal and Paediatric Infection and the Institute of Infection and Immunity at City St. George's at City St. George's University of London (which is onsite)
3. **Research and Quality Improvement**
   - Participation in clinical audits and quality improvement projects

- Opportunities for case reports or publications

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Core Competencies

1. **Clinical Skills**
    - Diagnosis and treatment of common paediatric infections (e.g., pneumonia, sepsis, meningitis, UTIs)
    - Febrile neutropenia, fungal infections in children with an oncological diagnosis
    - Management of complex or chronic infections, including:
        - Immunocompromised patients (primary immunodeficiency syndromes, HIV or secondary to chemotherapy)
        - Multidrug-resistant organisms
        - Congenital infections (e.g., congenital syphilis, toxoplasmosis)
        - Tuberculosis
    - Understanding of febrile illnesses in returning travellers
    - Utilization of diagnostic tools (e.g., cultures, serology, PCR, imaging)
2. **Infection Prevention and Control**
    - Knowledge of hospital-acquired infections (HAIs) and their prevention strategies
    - Isolation protocols, hand hygiene, and personal protective equipment (PPE)
    - Antimicrobial stewardship principles, ensuring appropriate antibiotic use
    - High Consequence Infectious Diseases
3. **Antimicrobial Therapy**
    - Rational use of antimicrobials
    - Dose adjustments in special populations (e.g., neonates, children with renal or hepatic impairment)
    - Management of antibiotic resistance
    - Participation in antimicrobial stewardship meetings and case reviews
4. **Immunology and Vaccinology**
    - Screening and follow-up of primary immunodeficiencies
    - Management of a child with recurrent infections
    - Immunization schedules (routine and special vaccines for immunocompromised children)
    - Vaccine-preventable diseases
5. **Research activity and quality improvement**
    - Trainees are encouraged to get involved in ongoing infectious diseases research within the department.
    - Opportunities for presenting at national or international infectious disease conferences.
    - Guidance and mentorship will be provided for those interested in publishing case reports or review articles in relevant journals.

- Encouragement to be involved in audits, service improvement or protocol review.

Weekly Schedule

PID TIME TABLE	Monday	Tuesday	Wednesday	Thursday	Friday
	08.30 – 09.00 Handover	08.30 – 09.00 Handover	08.30 – 09.00 Paediatric Journal Club	08.30 – 09.00 Handover	08.15 – 09.00 Grey Cases
	09.30 Consultant Teaching Ward Round with p-OPAT board round p-OPAT and ward attenders appointment daily	09.30 Ward Round p-OPAT and ward attenders appointment daily	09.30 Ward Round with p-OPAT board round p-OPAT and ward attenders appointment daily	09.30 Ward Round p-OPAT and ward attenders appointment daily	09.30 Consultant Teaching Ward Round & Audit of ward cases p-OPAT and ward attenders appointment daily
			9.30 PENTA MDT (2nd Wed) 9.30 Immunology Clinic (3rd Wed) 11.00-13.00 Antimicrobial Stewardship round.	10.00 TB MDT (2nd Thu) 10.30 Psychosocial MDT 12.15 PENTA antenatal meeting, monthly	
	13.30 Microbiology meeting	13.00 – 14.00 Paediatric Radiology MDT	13.00 – 14.00 ST2-3 / F1 Service teaching		13.00 Microbiology Seminar

		13.30 Congenital Infection clinic (1st Tue of the month)	14.00 NICU and PICU Infectious Diseases ward rounds 15.30 – 16.00 Joint Paediatric Immunology & ID meeting (Evelina & St. George's) 16.00 – 17.00 PID Clinical meeting – 16.00 – 19.00 Adolescent PENTA clinic (1st wed)	13.30 General Infectious Diseases Clinic weekly ID/TB clinic (2nd Thu) (4th Thu) 13.30 PENTA clini (1st Thu)	13.30 Immunology clinic (2nd & 4th Fri) 13.30 PID clinic (3rd Frid and 4th Frid)

p-OPAT: Paediatric Outpatients Parenteral Antimicrobial Therapy. PENTA (Paediatric European Network for Treatment of AIDS) was used instead of the HIV clinic to avoid stigma. TB: Tuberculosis. MDT: Multidisciplinary team meeting. NICU: Neonatal Intensive Care Unit. PICU: Paediatric Intensive Care Unit.

Contact adress

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