The Alfred Department of Infectious Diseases Registrar Information Session Aug 2019

The Alfred

• Major role in specialist tertiary and quaternary services on a state-wide and national basis

• Largest number of state-wide services (n = 14)
  • Lung and Heart Transplantation
  • Adult Cystic Fibrosis Service
  • Burns
  • Vic HIV Service
  • MSHC
  • BMT
  • Haemophilia
  • Trauma and Intensive Care
  • Hyperbaric medicine
Department of Infectious Diseases

• Comprehensive Infectious Diseases Service
  • Over 120 staff
  • 15 full-time Infectious Diseases Physicians
    • Dual appointments
      • Central Clinical School, Monash University
      • Department of Epidemiology and Preventative Medicine, SPHPM, Monash University
      • Department of Microbiology, Clayton Campus, Monash
      • Burnet Institute
  • ~ 20 VMO Physicians

• Full Academic Department of Monash University
  • Central Clinical School, FMNHS

• Part of the Alfred Medical Research and Education Precinct

Our Philosophy

“We are driven by excellence in patient care and this is underpinned by our passion for research, quality improvement and infectious diseases education and training”
Structure of the Inpatient Clinical Service

Team 1  General ID Inpatients
Team 2  HIV Inpatients
Team 3  General ID Consults
Team 4  ICH Consults
Team 5  Antimicrobial Stewardship
Team 6  ICU-Burns Service

CONSULTANTS
REGISTRAR
Residents
BPT
REG
Micro REG
Clinical Inpatient Activity

• General ID Inpatients ~ 45 admissions / month

• HIV Inpatients ~ 30 admissions / month

• Consults ~ 125 new consults per month
  • Initial and reviews ~ 350 - 450 / month

• On call
  • Divided between 5 registrars
  • Weekend – Sat / Sun round

State-wide HIV Service

• ~ 1100 patients

• Acute and subacute inpatient services

• HIV Complex Care service
  • Multidisciplinary team: Victorian HIV consultancy, mental health services, social work, multicultural service

• Victorian NPEP Service

• State-wide PrEP Program

• Diverse Research Program
Immunocompromised Host Service

- Integrated into Haem / SCTx Units
  - Acute leukemia
  - Auto and Allo SCTx
- One of the premier lung transplant units
  - > 100 transplants over the last year!
  - Paediatric lung transplant program
- Heart and heart-lung transplant program
- Renal transplant
- Oncology, Rheum, Gastro, Neuro

Ambulatory Care

12 Alfred-based clinics per week
400 – 500 patients per month
~ 50:50 Gen ID and HIV

- General ID
  - HIV
  - HIV Complex Metabolic
  - Viral Hepatitis Service
  - Travel Clinic
- Specialised Surgical Infections Clinic
  - Outreach clinics
- HITH
  - Travel Clinic
  - Sexual Health (MSHC)
  - HIV Neurocognitive
  - PrEP Clinic
- Regional ID Clinics
- Telemedicine Clinic
- Adult Immunisation Service Clinic
DID Registrar Training Program

- Structured, comprehensive training
- Layered and integrated approach
  - Clinical → Laboratory
  - Self-directed → Didactic
  - Follows Core Curriculum
  - Focus on Evidence Based
  - Critical Review of Literature
  - Research Approach and Methodology
- Supervision and support
- Post-training opportunities and career planning

Clinical Rotations

3 months on each inpatient unit and consult service
Antimicrobial stewardship rounds

Outpatient Clinics
Gen ID, HIV, ICH, Viral Hepatitis, Travel, HITH

“Bug of the Week” and Clinical DID Grand Rounds
Weekly Microbiology and Bedside Teaching

Journal Club
Strong focus on methods and stats

Core ID Training Lecture Series
Follows an ID Curriculum

Infections in ICH Lecture Series
Weekly, covers stem cell and SOTx

Registrars Teaching the Residents
During Gen ID Inpatient rotation

Sexual Health
Week at Melbourne Sexual Health Centre

Advanced Short Courses
ICHE, ICU, ICH, Trop Med, Stats-Epi
**Research Opportunities**

- HIV
- Viral Hepatitis
- Influenza
- AMR / Hospital-acquired Pathogens
- Infectious Diseases Genomics
- General ID and Microbiology
- Infections in ICH
- Health Services Research
- Evidence Synthesis
- Antimicrobial Pharmacology
- Surgical Site Infections
- Clinical Trials
- International Health and Travel Medicine
- Spleen Australia
- Machine Learning and ID

**Research in Progress Meeting**

- To support and guide registrar projects
- Education and training: research methods / approaches
- Problem solving through the year
- Writing abstracts / manuscripts
- Future research opportunities
- Every 2 months
The Department of Infectious Diseases supports physician-researchers who wish to undertake a PhD and has opportunities in a wide area of infectious diseases and public health.

The PhD Program provides:
- Support in project design, scholarship applications
- Funding support for project and education costs
- Statistical support and research training
- Mentorship and career development
- Support for post-PhD path

Successful candidates may also have the opportunity for clinical work within their area of interest.

### Streams Post Core Training

- HIV Medicine
- Infections in ICH
- Hospital Epidemiology / IPC / AMS
- Abx Resistance, Pathogenesis
- Microbial Genomics - Bioinformatics
- Infections in ICU
- Antimicrobial Pharmacology (PK-PD Modelling)
- Influenza
- Viral Hepatitis
- Surgical site infections
- Artificial Intelligence Applications
- Adult Immunisation
- Infections in People who Inject Drugs
- International / Public / Travel Health