

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



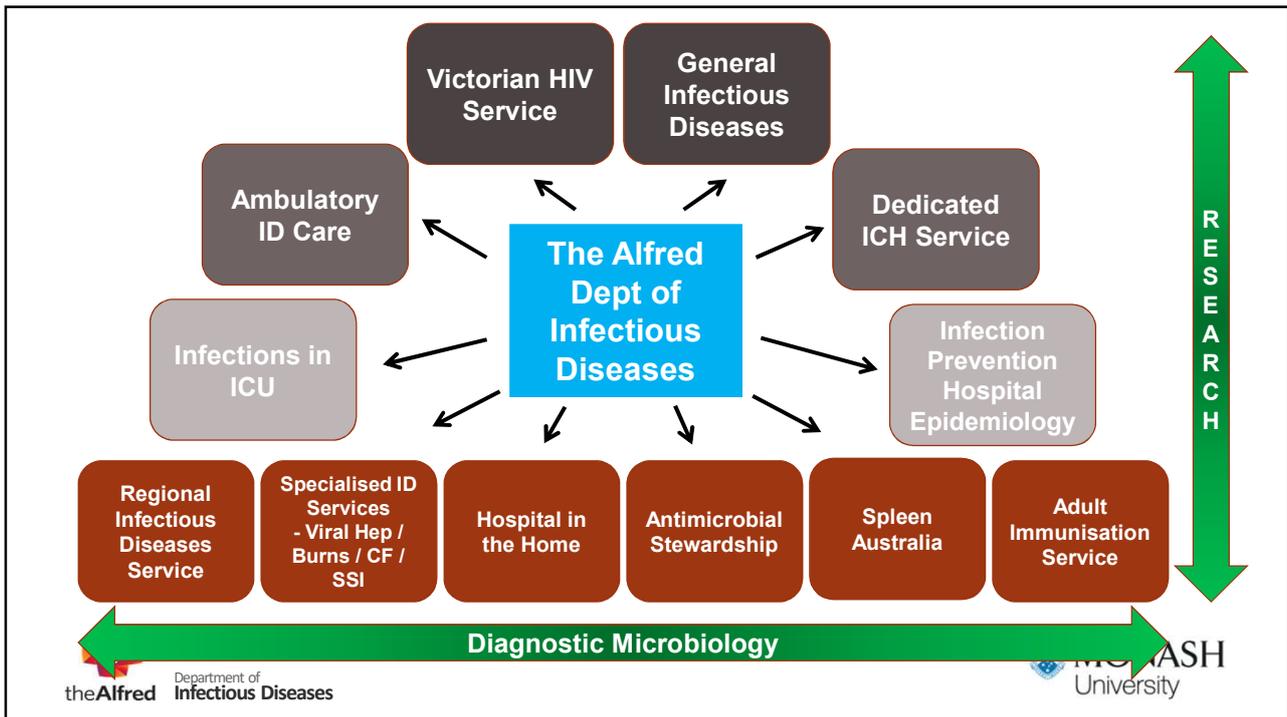
- **Comprehensive Infectious Diseases Service**
 - Over 120 staff
 - **15 full-time Infectious Diseases Physicians**
 - Dual appointments
 - Central Clinical School, Monash University
 - Department of Epidemiology and Preventative Medicine, SPPM, Monash University
 - Department of Microbiology, Clayton 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**



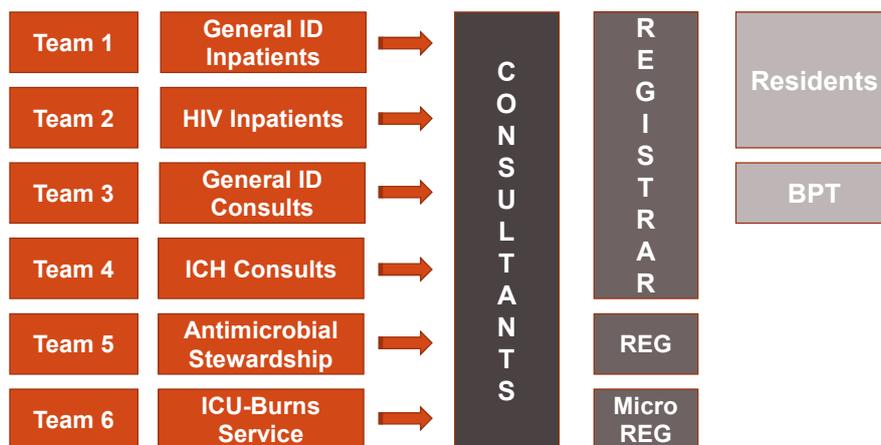
Our Philosophy

“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



Clinical Inpatient Activity

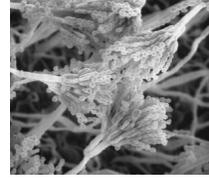


- **General ID Inpatients ~ 45 admissions / month**
- **HIV Inpatients ~ 30 admissions / month**
- **Consults ~ 125 new consults per month**
 - Initial and reviews ~ 350 - 450 / month
- **On call**
 - Divided between 5 registrars
 - Weekend – Sat / Sun round

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**

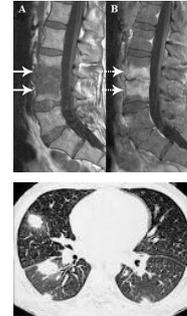
Ambulatory Care

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

- | | |
|--|---|
| <ul style="list-style-type: none"> • General ID <ul style="list-style-type: none"> • HIV • HIV Complex Metabolic • Viral Hepatitis Service <ul style="list-style-type: none"> • Travel Clinic • Specialised Surgical Infections Clinic <ul style="list-style-type: none"> • Outreach clinics | <ul style="list-style-type: none"> • HITH <ul style="list-style-type: none"> • Travel Clinic • Sexual Health (MSHC) • HIV Neurocognitive <ul style="list-style-type: none"> • 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

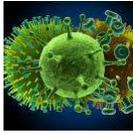
Sexual Health

Week at Melbourne Sexual Health Centre

Advanced Short Courses

ICHE, ICU, ICH, Trop Med, Stats-Epi

Research Opportunities



HIV



Viral Hepatitis



Influenza



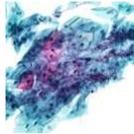
AMR / Hospital-acquired Pathogens



Infectious Diseases Genomics



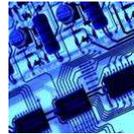
General ID and Microbiology



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 Alfred Department of Infectious Diseases PhD Program



- 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



Microbiology

