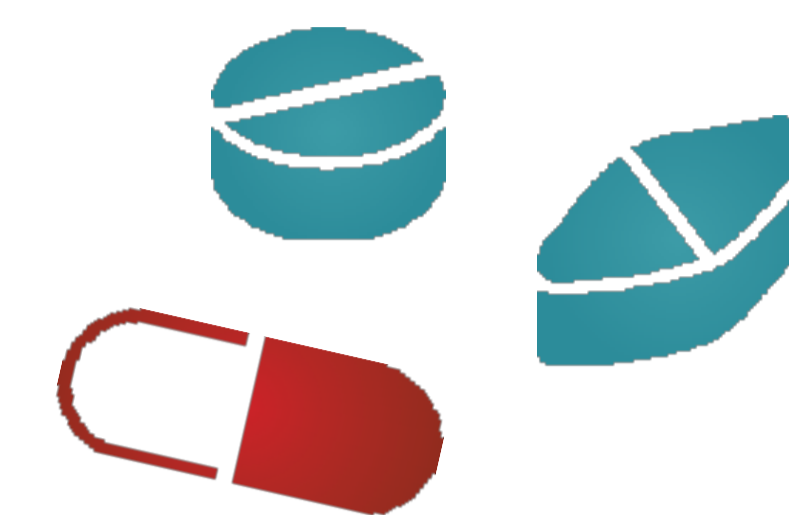


## OPTIMAL USE OF MEDICINES

### How do we get there?



- INDIVIDUALISING DRUG THERAPY IN PATIENTS
- SUPPORTING CLINICIANS IN MEDICATION DECISION MAKING
- UNDERSTANDING DRUG USE

### Current projects include:

#### Optimising drug dosage

- Pharmacogenomics - impact on clinical decision-making.
- Impact of haemodialysis on the pharmacokinetics of antibiotics
- Evaluation of routine drug monitoring data to describe novel drug interactions

#### Clinical toxicology of illicit drug use

- Wastewater analysis at night time music venues
- GHB overdose management and prevention
- Management of GHB dependence
- Understanding morbidity and outcomes from opioid overdose
- Frailty assessment in people who use alcohol or other drugs

#### Psychedelic psychotherapy

- Designing and implementing a survey of people who regularly use psychedelics

#### Support for clinical decision making

- Economic analysis of the cost-benefit of therapeutic drug monitoring.
- Social network analysis of therapeutic drug monitoring processes.
- Observational studies of pharmacist workflow – how are they talking?
- Telepharmacy – Service adaptations for the post-COVID era?
- Evaluation of prescribing trends of antineoplastic tyrosine kinase inhibitors to inform drug monitoring strategies

#### How can outcomes for gout sufferers be improved?

- Studies of quality of gout management in hospital especially in transplant population
- Develop educational materials for people with gout and better understand their perception of the disease

## ULTIMATE GOAL

PATIENTS RECEIVE THE BEST THERAPY FOR THEM

### WHAT CAN YOU EXPECT FROM DOING HONOURS WITH US?

- » Friendly atmosphere & great team environment (lots of support!)
- » Access to a hospital environment (e.g. medical grand rounds)
- » Real life application – how medicines are utilised in a hospital
- » High probability of publication and attending a conference
- » Journal Club & Research Meetings
- » Social events (lunches, dinners and trivia)

### WHAT RESEARCH SKILLS CAN BE GAINED?

- » Interviewing skills
- » Reviewing patient information
- » Auditing skills
- » Computer modelling
- » Drug assay (HPLC)
- » Pharmacokinetics
- » Pharmacodynamics
- » Critical analysis
- » Data analysis
- » Statistical analysis

