

Biobank Workshop

**CLINICAL SETTING
CYSTIC FIBROSIS**

**Siobhain Mulrennan
Director Adult CF Unit SCGH
Clin/Assoc Prof UWA**

Adult CF Unit SCGH

- 180 Adult patients
- Numbers increasing each year from PCH, other units plus late diagnosis
- Biobank would be potentially useful for both current research projects plus future collaborations

Clinical/Research

- Clinical samples – sputum, stool, blood
- Research samples – sputum, stool, bacterial biobank
- Clinical trials – CF Modulation therapy – determined by CF genetics
- CF registry source of phenotypic & outcome data (based at Monash)

Research

Current – sputum (Pseudomonas study – molecular epi)

Stool (C.difficile & Microbiome)

Future – longitudinal studies following Arest CF cohort

Blood for genetic studies

Challenges

Funding & sharing resources

Established programs versus 'up and coming'

Ethics process & patient buy in

Who 'owns' the samples - custodianship

Access to data

Future

- Ideal would be to have sputum, stool and blood from every patient in a biobank
- Longitudinal studies important in CF particularly in the age of CFTR modulation
- Collaborative approach and sharing of resources (e.g. freezer space)/expertise
- Collaborations between pediatric/adult/Australian units/worldwide CF units potentially more streamlined
- Applicable to other respiratory conditions