Introduction

Infective Endocarditis Queensland [ieQ], founded in 2017 and based at The Prince Charles Hospital [TPCH], is a multidisciplinary collaborative of health professionals and academics established to support research, clinical care and outcomes of people with infective endocarditis.

Methods

ieQ has conceived a Bio.Bank for long-term storage of blood, tissue and microbes referenced to a Registry of patient demographics, outcomes, treatment and discipline-specific data of interest e.g. echocardiography, antibiotic therapy and health service utilisation. Establishment of the initiative was facilitated by a grant from the Queensland Health Metro North SEED Innovation Fund.

The Registry and Bio.Bank have received institutional ethics approval, with patients to be offered inclusion via informed consent.

A core feature of the Registry is its design that was developed in partnership with Queensland Health Metro North Information Technology, and which is a live and online database. This database includes clinical, pathology and imaging features, and is enabled to collate data from affiliated platforms [admission data] in addition to direct data entry. The long term future forecast is for the database to ‘link’ with additional data cohorts.

Results

The first 12 months have seen the consolidation of an ethical framework; development and deployment of the Registry platform.

Secondary outcomes to date:

- Supported collaborative and interdisciplinary engagement with regular IE Working Group meetings, inclusive of all of Metro North HHS, public and private pathology services, and academic institutions.
- Formulation of multi-disciplinary Endocarditis Advisory Team “EAT”, initially TPCH-centric with a long-term aim to provide support statewide.
- [In development] A University of Queensland sponsored Website with patient and practitioner information and a portal for national and international links.
- Supported collaboration and translation of research outcomes:
  - International Symposium on Modern Concepts in Endocarditis and Cardiovascular Infections; June 22-24 [Dublin]. 6 abstracts accepted posters
  - Cardiac Society of Australia and New Zealand; Aug 2017 [Perth]. 1 abstract.
  - The Prince Charles Symposium; Oct 2017. 2 abstracts accepted.
  - Infectious Diseases Society of America; Oct 2017 [San Diego]. 1 abstract accepted
  - Cardiac Society of Australia and New Zealand; August 2018 [Brisbane]; abstract in review

Conclusion

A quality Infective Endocarditis Registry and Bio.Bank is a pre-requisite for the clinically-critical work of improving diagnosis, management and patient outcomes of individuals affected by Infective Endocarditis.

Under a clinical and research framework, ieQ aims to improve understanding, in an Australian context, of this disease.

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