

The Integration of Biobanking as standard practice across a range of haematological malignancies in the Australian private healthcare setting.



Epworth
Research

Petley EV¹, Nguyen-Ngo C¹, Brooks N¹, Johnston H¹, Tan C¹, Happell GS¹, Ramnarain J^{1,2}, Prince HM^{1,2}, Yannakou CK^{1,2}.

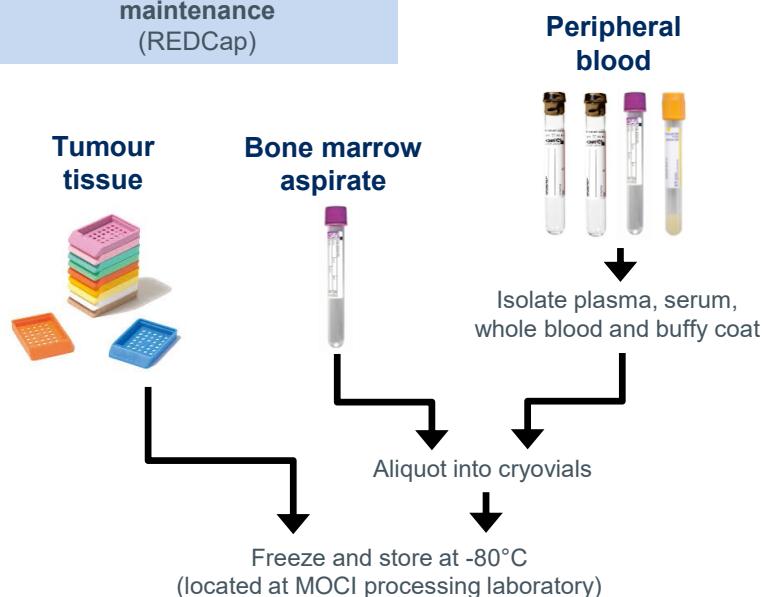
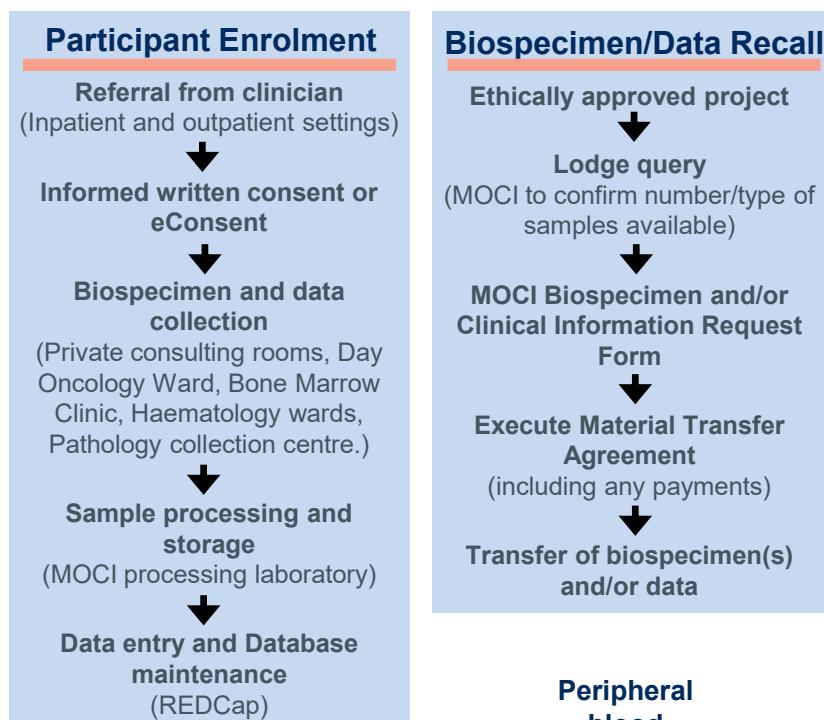
1. Department of Molecular Oncology and Cancer Immunology (MOCI), Epworth HealthCare, Richmond, Melbourne, VIC, Australia
2. These authors contributed equally

Introduction and Aims

Biobanks are essential tools for researching risk factors that underlie complex diseases, including cancer. The Molecular Oncology and Cancer Immunology (MOCI) Biobank Study at Epworth HealthCare is a repository of biospecimens and clinical information of participants from a variety of clinical backgrounds. The primary aim of this study is to maintain a resource to facilitate ethically approved research studies to discover new ways to treat, monitor and prevent diseases with the overarching goal of developing a foundation for improved personalised medicine.

Methodology

This is a single site, multi-centre study across Epworth HealthCare's 11 sites in Victoria.



Results

- > 376 consented participants
- > 94% of patients consent
- Accrual = ~8 patients/month
- > 6000 frozen aliquots (-80°C)

Fig 1. Number of repeat sample collection from patients

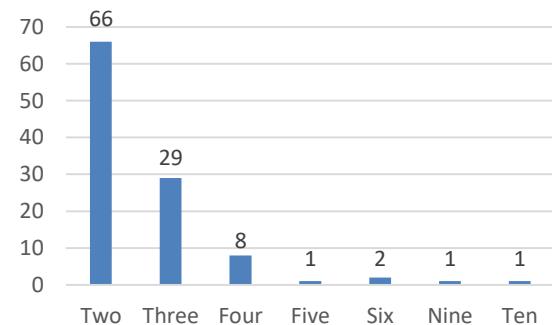
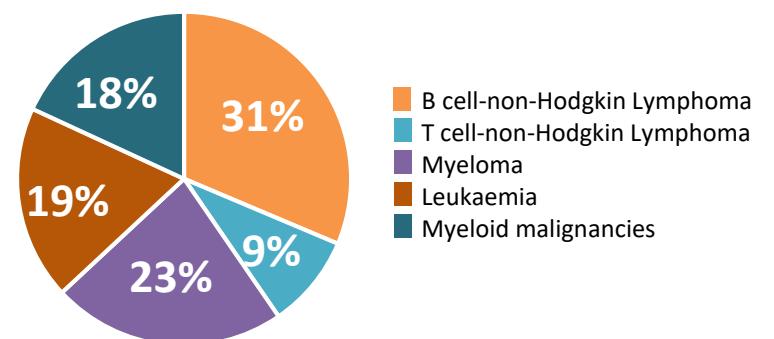


Fig 2. Haematological malignancy subtypes



Conclusion

Epworth MOCI has successfully established and maintained a substantial Biobank containing samples and clinical information from a range of patients across numerous haematological malignancies, which are readily available for future collaboration with both internal and external researchers. Such collaboration will add value to the investigation of haematological malignancies and promote the pursuit of personalised medicine.

Next Steps:

- > Expand our biospecimen and data repository.
- > Invite future collaborations from researchers within Epworth HealthCare private sector and externally with other academic institutions.

Current Collaborations

Epworth Research Epworth Investigator-Initiated Trials (IITs)

