

CHI Learning & Development (CHILD) System

Project Title

Setting Up a National Cancer Tissue and Data Catalogue

Project Lead and Members

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Organisation(s) Involved

SingHealth Tissue Repository, Singapore Translational Cancer Consortium, National Cancer Centre Singapore

Healthcare Family Group Involved in this Project

Healthcare Administration, Medical

Applicable Specialty or Discipline

Tissue Bank, Pathology, Medical Technology, Data Management

Project Period

Start date: Not Available

Completed date: Not Available

Aims

To facilitate effective collaboration, SingHealth Tissue Repository work jointly with the tissue repositories and cancer registries of NCCS, NUH and NHG under the auspices of the Singapore Translational Cancer Consortium to form a national platform of anonymised cancer biospecimen and data Centralised Catalogue.



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Background

See poster appended/below

Methods

See poster appended/below

Results

See poster appended/below

Conclusion

See poster appended/below

Project Category

Technology, Digitalisation

Organisational Leadership

Knowledge Management, Knowing Governance, Knowing Sharing, Knowledge System

Keywords

Centralised Catalogue, Common Governance Framework, Cancer Biospecimen and Data

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Setting Up a National Cancer Tissue and Data Catalogue

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2: Introduction

multiple institutions including universities, public health institutions and research institutions.

To facilitate effective collaboration, SingHealth Tissue Repository work jointly with the tissue repositories and cancer registries of National Cancer Centre Singapore, National University Hospital and National Healthcare Group under the auspices of the Singapore Translational Cancer Consortium to form a national platform of anonymised cancer biospecimen and data -Centralised Catalogue.

Methodology

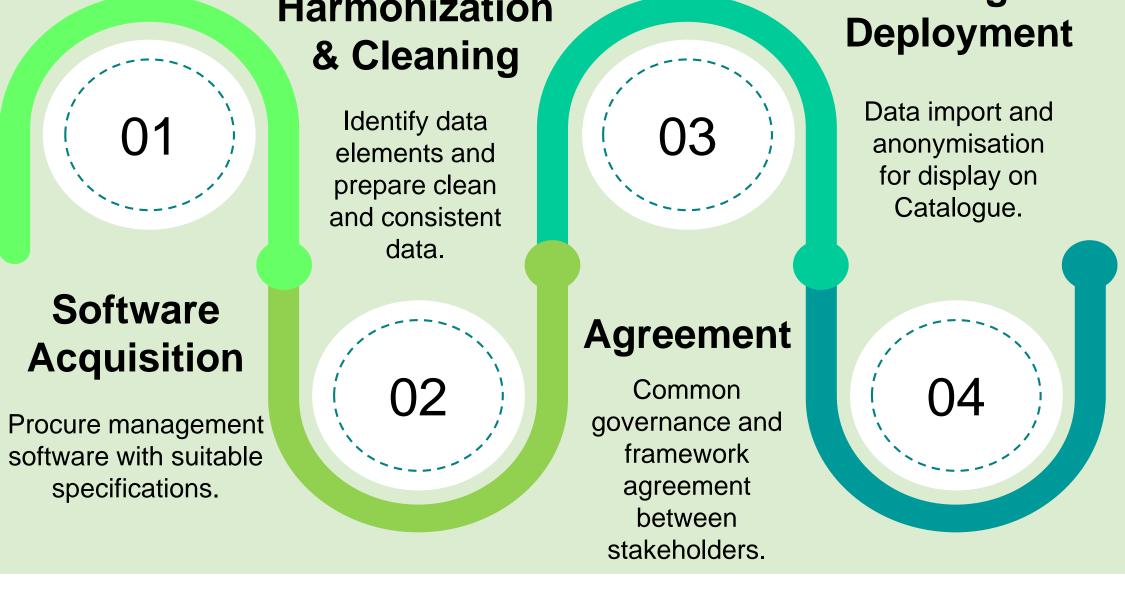
impact basic, translational and clinical With the high quality collection of human biospecimen in cancer research requires collaboration across tissue banks and rich data in cancer registries, we determined and harmonized relevant metadata fields across the healthcare clusters. These fields include:

- (i) specimen-level data with histopathological annotations,
- (ii) patient-level data including clinical information, and
- (iii) research metadata such as molecular profiling, in vitro or in vivo tumour lines.

We also developed a common governance framework for the catalogue to ensure data privacy, security and protection to support access in a safe, efficient and ethical manner.

Implementation

NUHS STCC Phase SingHealth NHG STCC NUHS Phase SingHealth Data Catalogue Harmonization **Deployment** & Cleaning



STCC Cancer Data Cancer Consortium Cancer Ca Workbench Catalogue Business Research Analytics Insights Network **W** 8000 Ai One-stop Quality Data Population Harmonised Longitudinal Federated Elastic Analysis and Machine Shop Interface Biospecimens Linkage Clinical Elements Study Query Compute Visualisation Learning **National** Healthcare NUHS Group SingHealth Adding years of healthy life National University Health System Defining Tomorrow's Medicine Cancer Research Tissue Registry Metadata Cancer Research Repository SingHealth Cancer Research Tissue Informatics Metadata Tissue Registry Metadata Repository NUH Repository NCCS

Landscape of Research Warehouse

Result

Investigators will browse the catalogue of anonymised cancer biospecimen linked with clinical and research metadata from multiple institutions, and identify specimens for collaborative research.

In addition, existing workflows will be streamlined to increase overall efficiency for investigators to apply and retrieve desired specimens and/or data.

Edd Conclusion

Centralised Catalogue creates We thank our NUH team led a one-stop platform through synergy to boost accessibility to cancer specimen and data, empower clinical science and foster collaborations in the Khin Zarchi Aung. cancer research community.

റ്റ്റ്റ് Acknowledgement

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