Implementation of Framework for Research Data Governance and Sharing
Benefits of Data Sharing

- Promote open scientific inquiry
- Promote novel research
- Greater returns from public investment
- Share unique data that cannot be easily replicated
Implementation – 2-Phase Approach

Phase 1
- Requirement of Open Access of Publication
  - Involves all existing or new projects
  - May 2015

Phase 2
- Requirement of Sharing of Dataset
  - Involves new projects seeking funding of $250,000 and above
  - Nov 2015
What is Research Data?

Recorded factual material commonly accepted in the scientific community as necessary to document and support research findings.

- **Publications with data**: Includes conference papers, peer-reviewed journal articles.
- **Processed data & tools**: Includes software or computer code that is required for replication, etc.
- **Metadata**: Includes experimental protocols, statistical methods, etc.
- **Original data; Data generated from past research or research by other researchers**: Includes observations, measurements etc.

*Does not include laboratory notebooks, preliminary analyses, drafts of scientific papers, plans for future research, peer review reports, communications with colleagues, or physical objects, such as gels or laboratory specimens*
Workflow of Sharing

Has the investigator published paper using the dataset?

Yes

Sharing of Dataset Required
- By 12 months after publication

No

Open Access of Publication Required

Does Journal allow open access after a period of time?

Yes

Allow Open Access Automatically

No

Sharing of Dataset Required
- By 24 months after grant completion

Is there publication within 24 months after grant completion?

Yes

No

Request for Open Access
- By 12 months after publication
Principles for Research Data Sharing

I. Timeliness

II. Human Subjects and Privacy

III. Methods of Sharing

IV. Governance of Data Access
Implementation

Implement through integration into MOH NMRC’s grant processes

Applications requesting at least S$250,000 of direct research cost must include a Data Sharing Plan

Data Sharing Plan to show how investigators will meet data sharing responsibilities
Data Sharing Plan Template

Type of Study & Data
- Type of study
- Type of data

Data Sharing and Access
- Suitability for sharing
- Timeframe for sharing
- Format of data
- Method of sharing
- Access of data and governance
- Human subject and privacy
- Budget considerations
Review of Data Sharing Plan

- Review by Local Review Panel or equivalent body
- Assess independently from the proposed research
- Mandatory requirement for award of the grant
Review of Data Sharing Plan

• If Data Sharing Plan is unsatisfactory, comments from the panel discussion will be sent to the applicant.

• Applicant will be required to revise Data Sharing Plan during the budget revision stage.

• Revised Data Sharing Plan will be re-assessed by the Local Reviewers.
Compliance of Data Sharing

Data Sharing Plan

Review

Compliance

Monitor progress and compliance via progress/final reports