

# Resource and Data Sharing (or Why We are Never All Set)

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# NIH Data Sharing Policy and Implementation Guidance

- The privacy of participants should be safeguarded.
- Data should be made as widely and freely available as possible.
- Data should be shared no later than the acceptance for publication of the main study findings.
- Initial investigators may benefit from first and continuing use of data, but not from prolonged exclusive use.

# Original Mandate (from first RFA):

“The HCS Research Collaboratory program encourages sharing of study data from Demonstration Projects in a timely manner with appropriate privacy and confidentiality protections to facilitate further research, reuse of data, and replication. Thus the HCS Research Collaboratory program expects grantees to implement a Resources and Data Sharing Plan consistent with achieving these program goals.”

# Why share resources and data?

- Transparency: People can see everything we did
- Reproducibility: People can re-create everything we did
- Secondary use: People can ask and answer questions we didn't think of.

# Shrinking realm of secondary use

- All health system data? – No
- All health system data regarding study participants? – No
- Final analytic variables regarding study participants? - Maybe

# Barriers to secondary use

- Patient privacy
- Health system privacy
- HIPAA “minimum necessary information” requirement
- Scientific quality and integrity

# Our Policy Summarized

- Investigators will each share, at a minimum, a final research data set upon which the accepted primary publication is based.
- Sharing data may require precautions to protect specific interests of collaborating health care systems.
- Precautions may include data sharing in more supervised or restricted settings, such as access to researchers who agree to limited pre-approved research goals.
- Investigators will choose the least restrictive method for sharing of research data that provides appropriate protection for participant privacy, health system privacy, and scientific integrity.
- Investigators will work with NIH to implement this data sharing policy, to ensure the appropriate administrative processes and technical infrastructure are in place.



# Three levels of data

- What we can touch: original health system data
- What we can use: limited by consent or waiver
- What we can share: further limited by regulation (and possibly health system policy)

You can't share what you never had!

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# Alternative structures and tools (from least to most restrictive)

- Private archive – send data to approved users
  - For any purpose
  - For approved purposes only (e.g. governed by DUA)
- Public enclave – any user may send questions to data
- Private enclave – some users may send questions to data
  - Automatically executed
  - Moderated (either queries or results)

It's like real life: The more you want to control things, the more it's going to cost you!

# Three levels of data – applied to SPOT

- What we can touch: all original health system data
- What we can use: analytic dataset (failure-time structure) with outcome and short list of covariates (sex, age group, baseline item 9 score, site, race/ethnicity, primary care vs. MH specialty)
- What we can share: analytic dataset less site variable

Privacy risk is very low – but so is value for secondary analyses