

# Doing Research with Data and Biospecimens Under the Common Rule Part 2 – How Does that Work with Repositories and Future Use?

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# Disclaimer

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The opinions expressed are those of the presenter and do not necessarily reflect the policy of the U.S. Department of Health and Human Services.

For a complete and accurate description of the regulatory requirements, please refer to the text of the regulations available on [OHRP's website](#).



# Scope

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- Repositories supported by HHS funding
  - When there is no funding from HHS (or other Common Rule (CR) agencies), generally, CR has no jurisdiction and does not apply.
- The repositories are created/maintained to support future downstream secondary research.
  - **Reminder: secondary research** is the research use of data or biospecimens originally acquired for non-research purposes or for research other than the research being proposed.

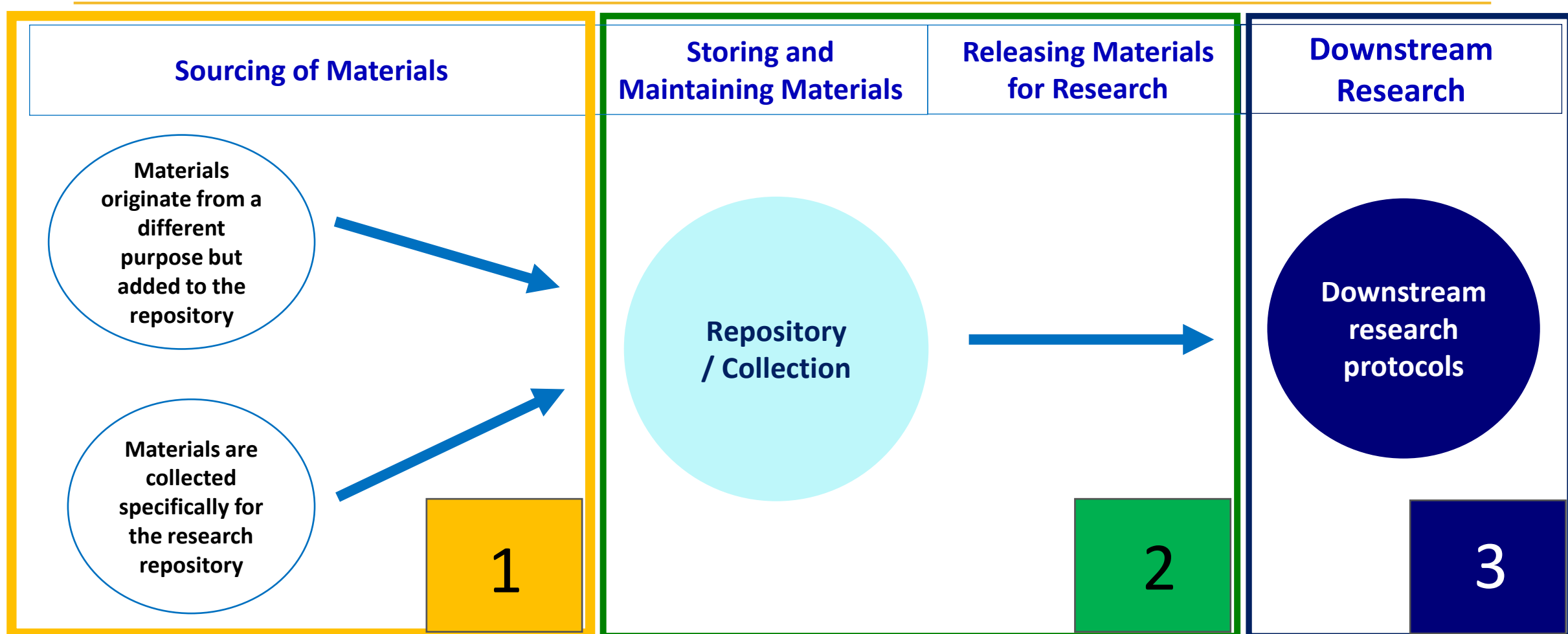
# Common Rule Considerations for Setting up a Research Repository

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OHRP's [Guidance on Issues to Consider in the Research Use of Stored Data or Tissues \(1997\)](#) note:

- Operation of repositories should be subject to oversight by an IRB
- Repository will have policies/procedures for 3 separate components of repository activities to include:
  1. When data/biospecimens are accepted,
  2. The storage and maintenance of the repository, and
  3. The distribution of the repository materials for downstream research

# Three Components of A Research Repository



# Making Determinations on Whether the Common Rule (CR) Applies to a Repository

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Ask these questions in this order:

1. Is the repository supported by **funding** from the Department of Health and Human Services (HHS)?
  - Typically, CR considerations are applicable when there is HHS funding for the project.
2. Does the activity involve **Research**?
  - Is the repository set up/maintained for research purposes?
3. Does the research involve **Human Subjects**?
  - Does the repository obtain data/biospecimens through intervention or interaction with individual participants? Or,
  - Does the repository receive and/or maintain individually identifiable data or biospecimens?
4. Is the human subjects research **Exempt**?
  - Does the entire research meet one or more exemption categories (4,5,7,8)?

# Repository Accepting Only Secondary Research Data and Biospecimens –

Materials **Not** Collected Specifically Through Interaction or Intervention with Individual Participants for the Research Repository

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# Research Repository Accepting Only Data and Biospecimens **Not** Collected Specifically for the Repository

- There's **no interaction or intervention** with individuals specifically to obtain their private information or biospecimens to put into the research repository.
- Data/biospecimens come from non-research sources or sources other than the proposed research.
- This is **secondary research**.
- Any CR oversight requirements depend on whether the data/biospecimens received are **identifiable or not**.





# Data and Biospecimens **Without** Associated Individually Identifiable Information

If only *nonidentifiable* private information or biospecimens are provided to the repository, **no** applicable CR requirements.

- This will be considered ***secondary research that is not human subjects research***.
- Repository should probably know that the sources of materials are proper and legitimate.
- It should have robust policies for protecting confidentiality.
- There should also be policies on the operation of the repository including policies for downstream distribution of materials for research.



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# Data and Biospecimens **With** Associated Individually Identifiable Information

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If repository will receive *individually identifiable* private information associated with the data and biospecimens but will not keep the identifiers,

- The activity may meet the conditions for exemption 4 at **§46.104(d)(4)(ii)**.
  - Oversight will be similar to that described in the previous slide for materials without associated individually identifiable information.



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# Data and Biospecimens **With** Associated Individually Identifiable Information, cont'd

If repository will receive *individually identifiable* private information or biospecimens and keep the **identifiers**, check if the activity meets the conditions for exemptions 4 (but not provision ii), 5, or 7.

If not, CR regulatory requirements apply. IRB reviews include (among others):

- The acceptability of the protocol for the sources, the storage, maintenance, and subsequent use of the materials.
- The availability and appropriateness of any informed consent for the materials the repository receives, maintains, distributes for downstream research.
- The appropriateness and adequacy of the measures for protecting privacy and confidentiality of the materials.



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# Reminder: Possible Exemptions for Secondary Research with *Identifiable* Materials

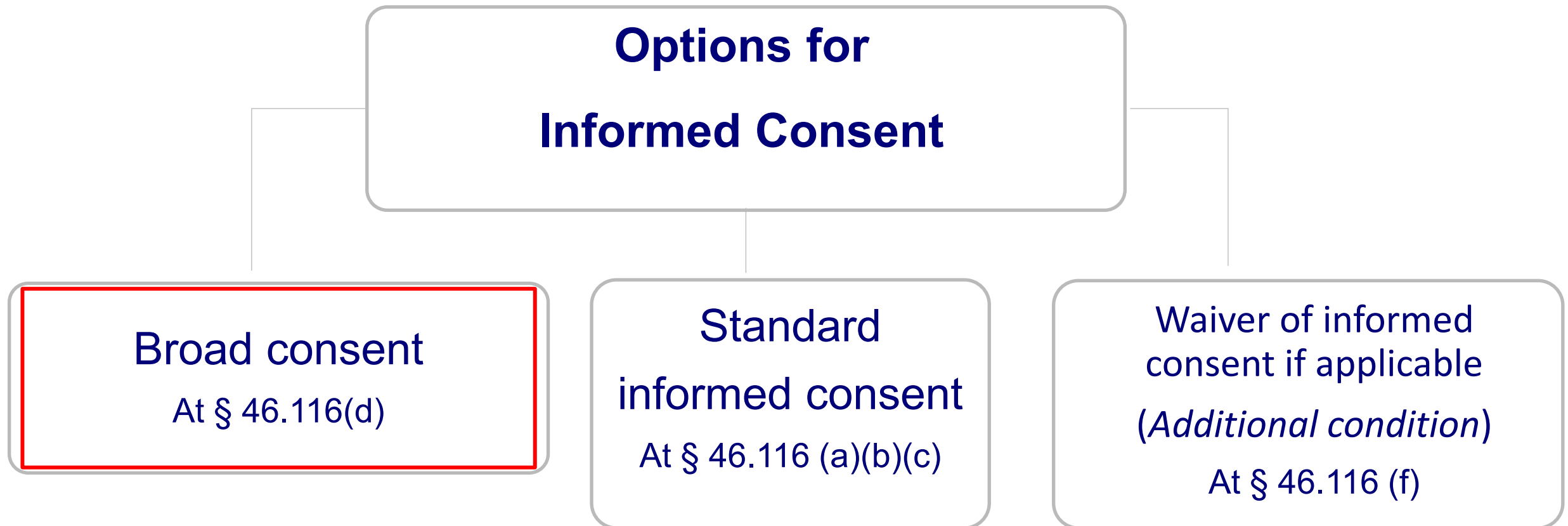
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Main Exemption Categories for *Secondary Research Involving Human Subjects* (§46.104(d))

- Exemption 4: Secondary research use of identifiable biospecimens or private information with four different provisions
  - Exemption 5: Evaluation of public benefit and service programs
  - \*Exemption 7: Storage and maintenance of identifiable materials for unspecified secondary research **with broad consent**
  - \*Exemption 8: Secondary research use of stored identifiable materials **with broad consent**
- \* Need limited IRB review to ensure that the conditions described for the exemption have been met.

# Informed Consent

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# Broad Consent Under Revised CR (2018 Requirements)

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- An option permissible **only for secondary research**. It cannot be used for specifically collecting identifiable private information or identifiable biospecimens through research interaction or intervention with individuals for the repository.
- Is a means to enable subjects to agree to a broad range of secondary research studies when details of such research may not be available
- Broad consent may be obtained for the secondary research:
  - At the time when standard informed consent is obtained for research involving interaction or intervention with subjects, or
  - In the nonresearch setting when information or biospecimens are collected
- If broad consent is sought and refused, IRB cannot waive the requirement for consent.

# Use of Broad Consent

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- Main advantage with broad consent is the opportunity to benefit from exemptions 7, 8
- **If used, all of the elements for broad consent must be included** (§46.116(d)), including, amongst others:
  - a general description of the types of research that may be conducted,
  - the types of institutions or researchers who might conduct research with the subject's information or biospecimens

**No flexibility for alteration is allowed!**
- Use of broad consent will involve some mechanism for tracking the affected information or biospecimens; the cost and logistical difficulties involved may limit its use

# Research Repository Accepting Data and Biospecimens **Collected Specifically** Through Interaction or Intervention with Individual Participants for the Research Repository

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# Research Repository Accepting Data and Biospecimens Collected Specifically for the Repository

- There is **interaction or intervention** with individuals **specifically** to obtain their private information or biospecimens for the research repository.
- This is **(primary) human subjects research** regardless of whether the data/biospecimens are identifiable or not.
- Unless exemption 5 applies, this primary research is **non-exempt human subjects research** that needs to comply with CR regulatory requirements, including IRB reviews, informed consent (broad consent use applicable only to secondary research materials), etc.



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# Research Repository Involved in Primary Research

- Typically, such a repository is an integral part of a multi-institutional cooperative non-exempt human subjects research project.
- Revised Common Rule has a mandate at [§46.114](#) for institutions engaged in such cooperative research to rely on the review and approval of a single IRB of record (with few exceptions).
  - The institutions document the reliance arrangements and the responsibilities of each according to [§46.103\(e\)](#).



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# Subsequent Downstream Research

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## Third Component - Repository Providing for Downstream Research

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- The research repository should follow its own “approved” protocol for the dissemination of data/biospecimens for downstream research.
  - If providing **identifiable** materials for downstream research, repository may need to check the conditions for any applicable consent that may have been provided for the downstream research use.
- If the repository is **solely providing** for downstream secondary research, CR oversight for the downstream research remains **the responsibility of the IRB/IRB office of the requestor-investigators**.
  - For a data repository, solely providing may also include assistance with filtering out appropriate datasets before supplying to downstream investigators for their research.

## Third Component - Repository Providing for Downstream Research, cont'd

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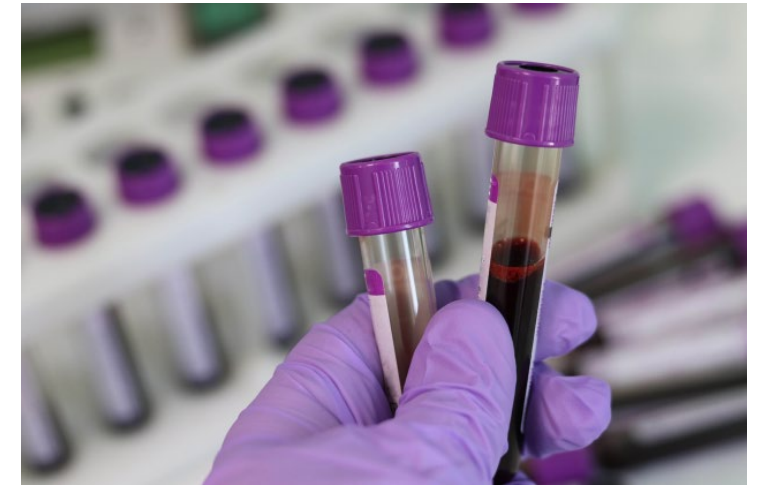
- Beware of any involvement of downstream investigators in the operation of the research repository! For example,
  - When a “repository” takes “orders” from investigators to acquire private information or biospecimens from individuals **specifically** for the purpose of the proposed research, the downstream investigators are conducting **primary human subjects research** and the repository is acting as an agent for the investigators.
    - ✓ The repository will become “engaged” in the research project

# Downstream Research – Requesting Investigators’ Perspectives

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Investigators request data/biospecimens from the repository for their research.

- Typically, this is **secondary research** because the materials the repository provide for the research have not been obtained through interaction/intervention with individuals specifically for the purpose of the proposed research.



# Downstream Research – Requesting Investigators’ Perspectives, cont’d

The IRB office of the requesting investigators make the following determinations:

- If the investigators receive materials that they cannot readily link back to living individuals from the repository = hence, outside CR, **secondary not human subjects research**
- If the investigators receive materials that have individually identifiable information = **secondary human subjects research** that may or may not meet the conditions for an exemption category (exemptions 4, 5,7,8).
  - If investigators have a role in the operation of the repository, the materials obtained for secondary research will usually be considered identifiable to the investigators.



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# OHRP Resources

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- Issues to Consider in the Research Use of Stored Data or Tissues (1996, 1997) [www.hhs.gov/ohrp/regulations-and-policy/guidance/issues-to-consider-in-use-of-stored-data-or-tissues/index.html](http://www.hhs.gov/ohrp/regulations-and-policy/guidance/issues-to-consider-in-use-of-stored-data-or-tissues/index.html)
- Review video “Doing Research with Data and Biospecimens Under the Common Rule Part 1 – What Researchers Should Know,” – available in due course at <https://www.hhs.gov/ohrp/education-and-outreach/human-research-protection-training/ohrp-webinars-on-45-cfr-46/index.html>
- Video “Broad Consent in the Revised Common Rule” at <https://www.youtube.com/watch?v=jpqH2sHmOF4>



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