Secondary Uses of Research Data and Specimens: Legal and Compliance Considerations

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What is the secondary use of health data?



World Health Organization

[t]he processing of health data for purposes other than the initial purposes for which the data were collected.

An example of this is when researchers re-process clinical and health insurance data to investigate the cost-effectiveness of a service or product. Secondary use of health data, including data on various determinants of health, provides an important resource for decision-making, health system management and improvement, and research.

With the growing role of artificial intelligence (AI) and big data in health care and the adoption of AI-powered solutions, there is an increasing demand for primary and secondary health data from traditional sources such as electronic health records and non-traditional sources like social media.

WHO Meeting on Secondary Use of Health Data 13 Dec 2022: https://www.who.int/europe/news-room/events/item/2022/12/13/default-calendar/meeting-on-secondary-use-of-health-data

What is the secondary use of health data?



American Medical Informatics Association

"non-direct care use of PHI [personal health information] including but not limited to analysis, research, quality/safety measurement, public health, payment, provider certification or accreditation, and marketing and other business including strictly commercial activities".

Can be distinguished between four types of secondary use of clinical data:

- research,
- improving quality and safety of care,
- informing financial management, and
- education.

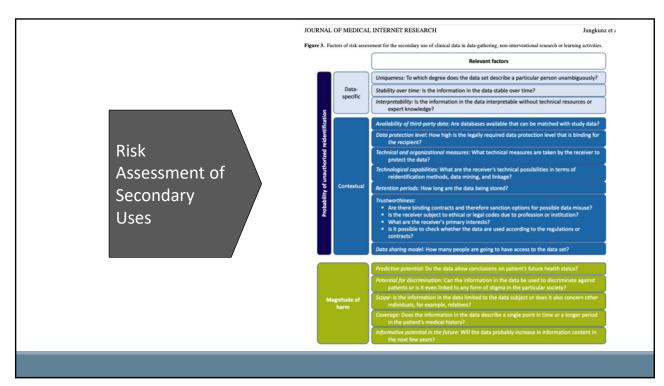
Secondary Use of Clinical Data in Data-Gathering, Non-Interventional Research or Learning Activities: Definition, Types, and a Framework for Risk Assessment – Journal of Medical Internet Research https://www.imir.org/2021/6/e26631/PDF

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Secondary Uses - examples

| Type of research or learning activities | Object of investigation | Area of application |
|--|--|---|
| Improvement of infection control | Clinical unit | Quality control and improvement |
| Early detection of possible hazards from germs | Clinical unit | Quality control and improvement |
| Public health surveillance | General public | Public health research |
| Epidemiology | General public | Public health research |
| Outcomes research | Patients or clinical unit | Public health research or quality control and improvement |
| Health services research | General public | Public health research |
| Register studies | General public | Public health research |
| In-silico hypothesis testing | Patients | Non-interventional (observational) clinical research |
| Comparative effectiveness research | Patients | Non-interventional (observational) clinical research |
| Experimental therapy evaluation | Patients | Non-interventional (observational) clinical research |
| Drug safety and efficacy studies | Patients | Non-interventional (observational) clinical research |
| Studies on risk factors | Patients | Non-interventional (observational) clinical research |
| Medical informatics research | Patients, clinical unit, or general public | Possible in all three areas of application |
| Explorative use | Patients, clinical unit, or general public | Possible in all three areas of application |

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Regulatory Obligations - The Usual Suspects

- NIH
- HIPAA
- GDPR
- State law
- Agreements and other documents

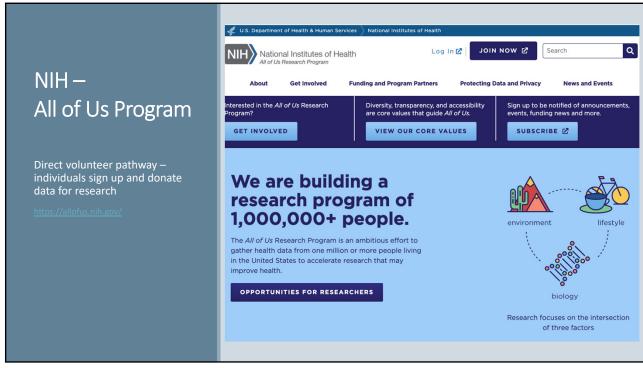
NIH requirements - examples

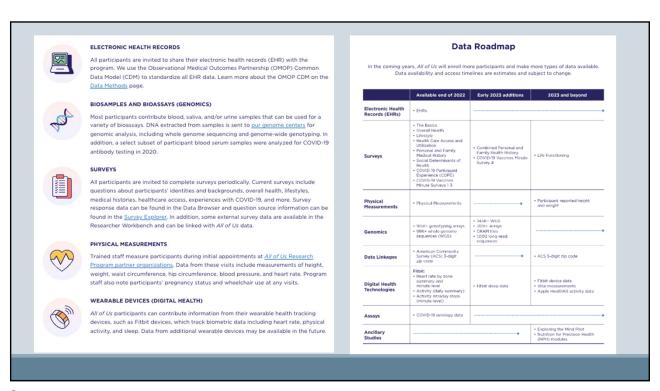
NIH Institute and Center Data Sharing Policies

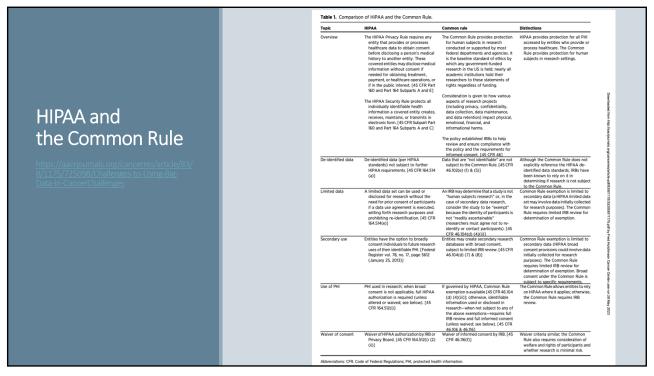
https://sharing.nih.gov/other-sharing-policies/nih-institute-and-center-data-sharing-policie

Consortium agreements:

- A provision addressing ownership and disposition of data produced under the consortium agreement.
 This includes whether cell lines, samples or other resources will be freely available to other investigators in the scientific community or will be provided to particular investigators only.
- A provision making NIH data sharing and inventions and patent policy, including a requirement to report inventions to the recipient (see Administrative Requirements-Availability of Research Results: Publications, Intellectual Property Rights, and Sharing Research Resources in IIA), applicable to each consortium participant and its employees in order to ensure that the rights of the parties to the consortium agreement are protected and that the recipient can fulfill its responsibilities to NIH. https://grants.nih.gov/grants/policy/nihgps/html5/section_15/15.2 administrative and other requirements.htm#Written







International Considerations - GDPR

Does not mention "secondary use" bur refers to "further processing" of personal data. Based on Recital 50 of the Regulation, further processing refers to "processing of personal data for purposes other than those for which the personal data were initially collected" (Recital 50).

Requires data processors to carry out an "assessment of the impact of the envisaged processing operations on the protection of personal data" where there is a high risk to the "rights and freedoms of natural persons" (Article 35, 1).

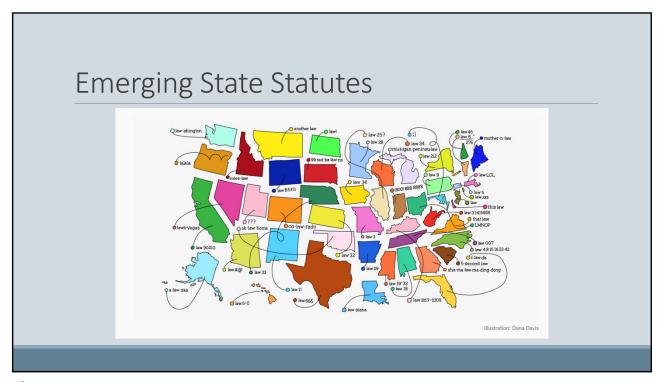
"personal data shall be collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes". Exceptions: where this general prohibition of incompatible further processing does not apply are when the further processing is based on: i) the data subject's consent; or ii) a "Union or Member State law which constitutes a necessary and proportionate measure in a democratic society to safeguard, in particular, important objectives of general public interest" (Article 6(4); Recital 50).

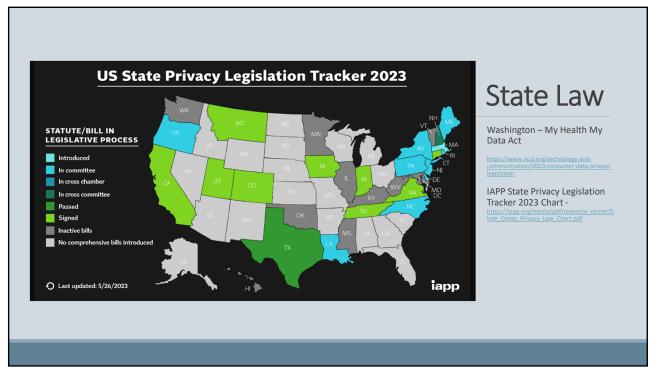
See - Secondary Use of Personal Health Data: When Is It "further Processing" Under the GDPR, and What Are the Implications for Data Controllers? European Journal of Health Law https://brill.com/view/journals/eihi/30/2/article-p129_1xml

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Other considerations . . .







Regulatory Obligations manifested

Mechanisms to Govern Responsibl Sharing of Open Data: A Progress Report

https://sagebionetworks.github.io/governanceGreenPaper/manuscript.pdf Table 3: Data collection mechanisms

| Design Pattern | Description | Example |
|-------------------|--|--|
| Clinical protocol | A written plan for how a health condition, drug, or device is to be studied and the procedure to be followed by the study, including technology. Connected to international and national laws in bioethics. | CDISC Clinical Trial Protocol Representation Model, ³⁶ NIH Protocol Templates for Clinica Trials ³⁷ |
| Informed consent | Standard language and user interfaces that have been vetted through legal and ethical review for specific types of data, e.g. health records or DNA | Sage Bionetworks Elements of Informed Consent, 38 GA4GH Model Consent Clauses 24 |
| Privacy policy | Standard language and user interfaces that have been vetted through legal and ethical review for apps and websites that collect user data | Sage Bionetworks Privacy Toolkit ³⁹ |
| Terms of service | Standard language and user interfaces that have been vetted through legal review for apps and websites that collect user data | Various auto-contract system e.g. Formswift, 40 LegalZoom |

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Authority and Oversight

Who decides if the data and biospecimens are identifiable?

Who decides if the data should be shared?

Who decides where and with who data will be shared?

Who reviews and approves contract language for data sharing and use?

Internal Stakeholders

- IRB / HRPP
- Research Contracting
- Legal
- Privacy Officer
- Data Administration / Data Stewards
- Procurement



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| Data Governance | Executive Management |
|--------------------|--|
| | Data Administrative Council / Data Commons |
| | Data Steward |
| | Data Manager |
| | IT Professionals / Management |
| | Researcher / User |
| | Data Classification |
| | |

Data Governance

Board of Trustees

The <u>Board of Trustees</u> is Indiana University's governing board, legal owner, and final authority. For the purposes of information security and privacy governance, the Board is the owner of all information, except information excluded from university ownership as set forth in <u>IU Policy UA-05</u>.

Executive Management

IU's <u>Executive Management</u> includes those individuals assigned executive management responsibilities, typically with the titles of President, Vice President, and Chancellor. This group also includes the Academic Deans.

University Data Management Council

The purpose of the University Data Management Council is to provide university-wide strategic planning, governance, and oversight for Indiana University's institutional data. The UDMC consists of eleven permanen members, including Data Stewards, the Chief Privacy Officer, and the UIPO.

Data Stewards

Individually, each <u>Data Steward</u> has management and policy-making responsibilities for their specific data subject areas. For the purposes of information security and privacy governance, the title of Data Steward describes an individual with a role title related to university-wide information governance purposes.

Data Managers

<u>Data Managers</u> are assigned responsibilities to receive, evaluate, and authorize or deny requests for access to systems, applications, and/or databases containing institutional information. They are assigned by their respective Data Steward to govern the daily operations of their data domain.

IT Management

Includes those individuals assigned technology management/director responsibilities for a unit or service.

IT Professionals

Includes those individuals assigned responsibilities for developing and implementing technology infrastructure, systems, and applications to support functional needs upon direction from IT Management. For a directory of the IT People for each department, see the IT People Database (IU Login required).

User

Refers to any individual who interacts with institutional information.

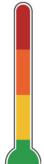
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Data Classification



There are four classification levels of institutional data at Indiana University.

Institutional Data is categorized into data classifications as defined in IT Policy <u>DM-01: Management of Institutional Data</u> to ensure proper handling and sharing of data based on sensitivity and criticality of the information. Data classifications are listed below from most sensitive to least sensitive:



Critical

Inappropriate handling of this data could result in criminal or civil penalties, identity theft, personal financial loss, invasion of privacy, and/or unauthorized access to this type of information by an individual or many individuals.

Restricted

Because of legal, ethical, or other constraints, this data may not be accessed without specific authorization. Only selective access may be granted.

University-Internal

This data may be accessed by eligible employees and designated appointees of the university for purposes of university business. Access restrictions should be applied accordingly.

Public

Few restrictions are placed on this data, as it is generally releasable to a member of the public upon request. Upon receipt of a request, seek advice from the appropriate data steward. If the request is made in regard to the Indiana open records statute, seek advice from the Office of the VP and General Counsel, as well as the appropriate Data Steward.

