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### Sources of open data

- QLD Health Open Data Portal
- <u>NSW Health Open Data</u> also (and confusingly),
- NSW Government Open Data
- <u>AIHW Data Downloads</u> also (and confusingly),
- AIHW Reports & Data
- ABS Free Data
- •

# NSW

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- PBS Statistics
- MBS Statistics

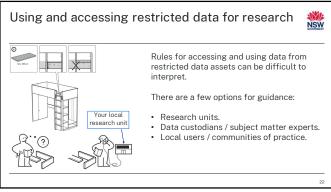
# How does open data support research? NSW Open data can be sufficient to support publication of research. Where it isn't sufficient as a standalone data source to answer a research question, it can still be insightful. Some use cases are: Generation of ideas. - Feasibility assessment. - Results triangulation.

- Supporting information.
- Location of more detailed data sources & subject matter expertise.

### Restricted data - what is it? NSW In this context - restricted data is data sources / assets held by health organisations, but where access & use requires approval (especially for research). Access is not always limited in terms of who can use, but rather by the reason for use. This data may be made available by application, depending on use case Certain data assets are available for use in research but only for certain types of research. . Generally specific and stringent requirements around data usage, storage, analysis and publication. The data might be kept as unit record data, but also as aggregated data. The rules for use are often unique to the data source.

· Includes public health registers utilising linked data.

Data that is available and possibly easily accessible for clinical management will generally be restricted for research.



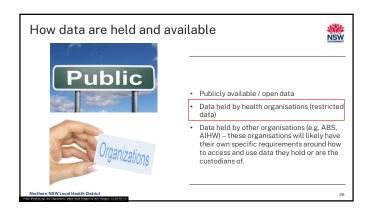
### Restricted data sources NSW SAPHaRI - Secure Analytics Platform for Population Health Research & Intelligence. Data assets accessible via SAPHaRI LUMOS - The Linking Up & Mapping Of Systems data asset. Lumos access information (data accessible via secure portal) QIDS - Quality Improvement Data System. OIDS - Clinical Excellence Commission Statewide Data Assets & Metadata Registry Link Metadata via HIRD 23



Purpose of access and use of personal health information

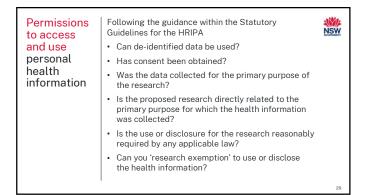
- Research
- · Management of health services

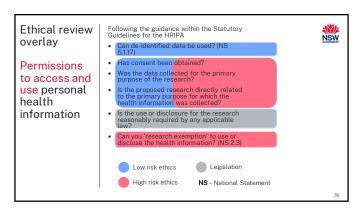


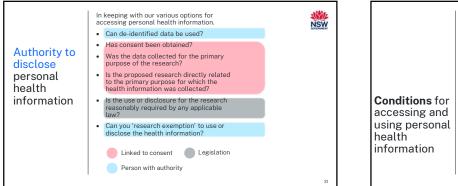


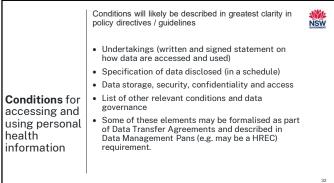


Permissions to access and use and authority to disclose personal health information	What provides the permission to use personal health information? What provides the authority to disclose/access personal health information? What are the <b>conditions</b> for using personal health information? Step through the process through the lens of accessing unit record data?	
	We are not covering the special case of accessing and using aggregate data, noting that this data may be openly accessible or, if held by organisations, would follow similar processes to unit record data.	28













### Data linkage – what, who & how

Data linkage is combining data from different sources about the same entity to create a richer dataset.

Usually, for health data linkage, the entity is a person.

- Health data linkage is generally managed by a specialised unit in a given jurisdiction:
- NSW The Centre for Health Record Linkage (CHeReL)
- QLD <u>Statistical Analysis & Linkage Unit</u>
- National <u>AIHW Data Integration Services Centre</u> (DISC)
- Data linkage uses matching algorithms which run over identifying information to determine

whether records belong to the same entity or not.

To limit privacy risks, personal information (identifying data) is separated from health service interaction data (content data), and then recombined after deidentification.

# Data linkage – when / why

Data linkage is typically used to answer two similar types of questions:

- 1. To answer a question that spans multiple care settings
- E.g. Does an intervention during patient transport decrease length of admitted patient stay?
   To answer a question that requires data held outside health services
- E.g. Does a perinatal intervention affect NAPLAN scores?

There are broadly two types of linked data assets that are created by data linkage units:

- 1. Statutory linked data collections (In NSW Public Health Registers).
- 2. Research linked data assets.

NSW

NSW

Northern NSW Local Health District	Recap
	We've covered off:
	- Aspects of the creation of health data.
	<ul> <li>The difference between open data and restricted data, where you can locate sources of both, and where you can locate more information about both.</li> </ul>
	- How access to restricted data is governed and how ethical approval fits into this.
Summary	- What data linkage is, and how you can find out more about linked data.
	One more slide to go.
Recap and some last thoughts	
Northern NSW Local Health District	38

