Overview of Governance Framework for Data Science Health Research in Nigeria

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Data Science Health Research

- > has enormous potential for discovery and optimization of healthcare
- raises several ethical, legal, and social (ELSI) challenges
- The content and quality of the consent given by individuals
- Ownership of data

Benefits and harms to individuals participating in DSHR Privacy

This is particularly important in Low- and Middle-Income Countries (LMIC) like Nigeria where legal protections and ethical regulations are evolving.

What is BridgELSI doing?

BridgELSI Project

Bridging Gaps in the ELSI of Data Science Health Research

Review of existing legal and ethical oversight for DSHR in Nigeria as a foundation for development of novel ethical oversight of DSHR in the country.



Objectives of the BridgELSI Project

1

Evaluate current governance framework for Data Science Health Research in Nigeria 2

Survey the knowledge, attitude and practices of key stakeholders to current and emerging ELSI of data science health research in Nigeria

3

Engage with key stakeholders to develop novel Governance Framework 4

Implement training and mentoring in Data science and General Research capacity building for DSHR and ethics committees

Methodology for Objective 1

Evaluate current governance framework for Data Science Health Research in Nigeria



Legal research & analysis approaches



Text analysis



Case law research



Primary and secondary data



Identified specific themes in these laws

The Questions

What are the laws, that provide a legal and ethical framework for oversight of DSHR in Nigeria? Do these laws and regulations provide sufficient framework for governance of DSHR in Nigeria?

What are the gaps?

deidentified health data

secondary use of identifiable health data

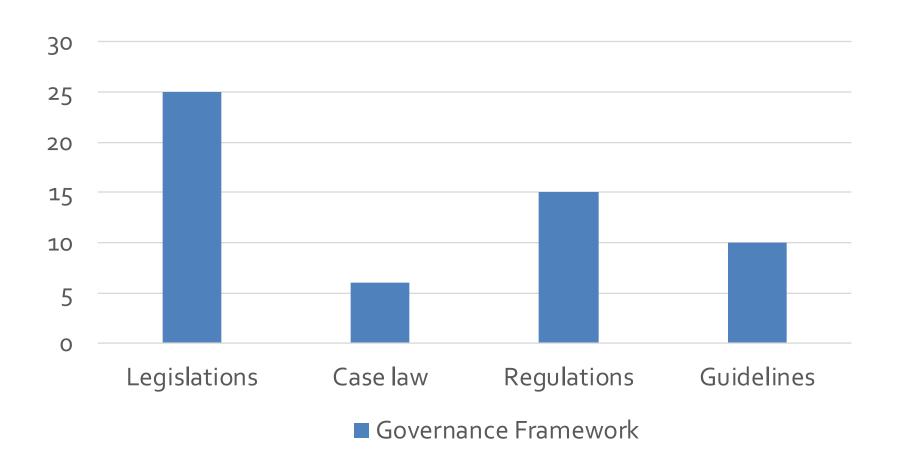
commercialization of data

Commercialization of tissue

Specific Themes



Extant Governance Framework



Question	CFRN	NHA	NCHRE	NDPR	NCME	CRA
Secondary use of existing identifiable health data in health research?	×	×	✓	✓	×	×
Govern what happens to deidentified health data used in research?	×	×	✓	✓	✓	×
Commercialization of tissue?	✓	✓	✓	×	✓	×
Commercialization of data?	✓	×	✓	×	×	×

FINDINGS

CFRN – Nigerian Constitution

NHA – National Health Act

 ${\sf NCHRE-National\ Code\ for\ Health\ Research\ Ethics}$

NDPR – Nigeria Data Protection Regulation

NCME – Nigerian Code of Medical Ethics

CRA – Child's Right Act

	CFRN	NHA	NCHRE	NDPR	NCME	CRA
Consent	✓	✓	✓	✓	✓	✓
privacy	✓	✓	✓	✓	✓	✓
Cultures, groups & communities	✓	✓	✓	×	✓	✓
Rights of data subject	✓	✓	✓	✓	✓	✓
Dignity	✓	×	✓	✓	✓	✓
Discrimination	✓	✓	✓	✓	✓	✓
Publicly available data	✓	×	✓	✓	✓	×
Anonymization/ de-identification of data	×	×	✓	✓	✓	✓
Ethics Review	×	✓	✓	×	✓	×
Use of secondary or existing research data	×	×	√	✓	×	×
Public health	✓	✓	×	✓	✓	×
Data collection	✓	✓	✓	✓	✓	×

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Nigeria has a robust research ethics framework

Data privacy and protection fall under several laws and regulations

The laws provide guidance particularly in relation to data subject rights, privacy and confidentiality, consent of research participants, protection of cultures, groups and communities, commercial uses of data, and protection from discrimination.

However, there are gaps or deficiencies regarding the ethical review of DSHR and the use of anonymized data, de-identified data, and publicly available data for health research

RECOMMENDATIONS

- There is a need for the development of new governance frameworks for DSHR.
- That builds on existing laws and includes broad stakeholders' engagement.
- This ensures the protection of participants, researchers, and their products, and enhances trust and buy-in by the general population.

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Thank you for listening