Schedule - Day 2: Wednesday, 8 September 2021

Time	Activity
09:00-10:00	Key legal requirements, for life sciences research, in GDPR and Health research Act (and a lot more!)
10:00-10:15	Break
10:15-10:45	Relevant Deposition Repositories / Data Archives
11:00-11:15	Licensing of data, biological material and software
11:15-11:30	Hands-on training and assistance to generate a Data Management Plan (DMP)



Legal Requirements for Data Management



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Disclaimer

This is not a legal advice

Important Relevant Legislations

Research Ethics Act

Health Research Act

Health Registry Act

Biotechnology Act

Archive Act

Patents Act

Copyrights Act



- Health Register Act: https://lovdata.no/dokument/NL/lov/2014-06-20-43
- Biotechnology Act: https://lovdata.no/dokument/NL/lov/2003-12-05-100
- Archives Act: https://lovdata.no/dokument/NL/lov/1992-12-04-126
- Patents Act: https://lovdata.no/dokument/LTI/lov/2019-06-21-49
- Copyright Act: https://lovdata.no/dokument/NL/lov/2018-06-15-40

Important Relevant Legislations

Personal Data Act

Regulations on the processing of personal data

General Data Protection Regulation (GDPR)

The GDPR is an EU Regulation that applies directly to Norway, as a member of the EEA.





Research Ethics Act



Withhold-, mislead about-, or selectively/secretly dispose of undesired results.



Conceal of scientific efforts and / or scientific achievements. Improper allocation of authorship etc.



Destruction of research data / material to prevent investigations of misconduct.

Research Ethics Act: https://lovdata.no/dokument/NL/lov/2017-04-28-23





General guidelines on research ethics

Guidelines for Research Ethics in Science and Technology

Guidelines for clinical trial of drugs

Guidelines for the use of genetic studies of humans

Guidelines for the inclusion of women

Guidelines for research ethics and scientific assessment of qualitative research projects

Read more at: **forskningsetikk.no**





The Vancouver Recommendations

Declaration of Helsinki

Oveido Convention

Otherwise known as: The Convention for the Protection of Human Rights and Dignity of the Human Being with regard to the Application of Biology and Medicine

Read more at: forskningsetikk.no



Health Research Act



Prior approval for health research



Consent from participants



Data access rights for participants



Biobank Regulations



Maximum data storage time for non-archived data (Default: 5 years after end of project – exemptions: approval)



Regional Committees for Medical and Health Research Ethics (REK)





GDPR: General Data Protection Regulation

- 1
- Protection of Personal Data
- Privacy by Design
- Data Protection Impact Assessment (DPIA)
- Processing of Personal Data
- Technical and organisational measure to secure data
- Records of Processing Activities
- Access rights, Right to be forgotten, Right on Information
- Fines: Up to 20 million €, ... up to 4 % of their total global turnover of the preceding fiscal year

GDPR: https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=OJ:L:2016:119:FULL



Personal Data Act & Personal Data Regulations

National Implementation of GDPR



Consent from participants (13 years and older)



Exceptions for archival, public interest, and scientific reasons



Authorities: Privacy Ombudsman, Privacy Committees, Data Inspectorates (datatilsynet)

More information at:

- Regulations on the processing of personal data: https://lovdata.no/dokument/SF/forskrift/2018-06-15-876
- Transitional rules on the processing of personal data: https://lovdata.no/dokument/SF/forskrift/2018-06-15-877
- Personal Data Act: https://lovdata.no/dokument/NL/lov/2018-06-15-38

Let's find out: What is...?

Personal Data

Sensitive Personal Data

Genetics Data

Pseudonymisation

Anonymisation

What defines personal data?

- Any information that relates to an identified or identifiable living individual
- What if data can be de-identified, encrypted, or pseudonymised?
- ▲ *Still, it is considered personal data!
- 2 Truly anonymised → anonymisation must be irreversible.

What is personal data? Examples:





- An email address such as name.surname@company.com;
- Location data
- An Internet Protocol (IP) address
- A cookie
- Data held by a hospital or doctor, which could be a symbol that uniquely identifies a person.

What personal data is considered sensitive?

- → Personal data revealing racial or ethnic origin, political opinions, religious, or philosophical beliefs
- → Trade-union membership
- → Genetic data, biometric data processed solely to identify a human being
- → Health related data

What defines genetic data?



Genetic data is defined as: "personal data relating to the inherited or acquired genetic characteristics of a natural person which give unique information about the physiology or the health of that natural person." - GDPR article 4(13)



Always both: Personal identifier and sensitive information!

Data Psuedonymisation



"The processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such additional information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person" - GDPR article 4(13)

- → De-identified and not back traceable for the researcher without the identifier
- Pseudonymised data is still personal data!

Anonymous Data

- → Anonymous data cannot in any way be used to identify individuals in a data material, either:
 - directly by name or personal identification number or
 - indirectly by additional information
- A Not possible for many data types, such as genetic data

What is...?

- Personal Data
- Sensitive Personal Data
- Genetics Data
- Pseudonymisation
- Anonymisation

What does GDPR say about...?

Data subjects, processing, controller, and processors

Storage and processing of personal (sensitive) data: How & When?

- ☐ Fairness and Transparency
- Data Minimisation
- Data Accuracy
- ☐ Storage Limitation
- Integrity and Confidentiality
- Accountability



What does GDPR say about:

Data subjects, processing, controller, and processors

→ Data subject:

"the natural person information relates to." - GDPR article 4(1)

→ Data Processing:

"any operation or set of operations which is performed on personal data or on sets of personal data." - GDPR article 4(2)

- → Data Controller: determines the purposes and means of the processing of personal data
- → Data Processor: processes personal data on behalf of the controller

Conditions to store/process personal (sensitive) data

- → Lawful and transparent manner ('lawfulness, fairness and transparency')
- → Specific purposes ('purpose limitation')
- → Only the personal data that is necessary to fulfil that purpose ('data minimisation')
- → Stored for no longer than necessary ('storage limitation')
- → Data Accuracy
- → Technical and organisational safeguards that ensure the security of the personal data, including protection against unauthorised or unlawful processing and against accidental loss, destruction or damage, using appropriate technology ('integrity and confidentiality')
- → Accountability → Immediate reporting of incidents

Criteria to store/process personal (sensitive) data



Explicit consent from participant

Health Research Act

- → The data is processed for **archiving**, **scientific or historical research** purposes or statistical purposes on the basis of EU or national law.
- → "Tasks carried out in the public interest" Article 6, GDPR
- "It is not always possible to fully identify the purpose of personal data processing for scientific research purposes at the time of data collection" - GDPR, Recital 33

- https://ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/legal-grounds-processing-data/sensitive-data/under-what-conditions-can-my-company-organisation-process-sensitive-data_en
- https://lovdata.no/dokument/NL/lov/2008-06-20-44/KAPITTEL_4#KAPITTEL_4



Criteria to store/process personal (sensitive) data



Explicit consent from participant



If you are using consent as your legal basis:

Make sure your consent form (& REK* approval) allows controlled access deposition (e.g. to EGA**) ...before you start!

* REK: Regional Committees for Medical and Health Research Ethics

** EGA: European Genome Archive

- https://ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/legal-grounds-processing-data/sensitive-data/under-what-conditions-can-my-company-organisation-process-sensitive-data_en
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What is...?

What does GDPR say about...?



Personal Data



Data subjects, processing, controller, and processors



Sensitive Personal Data



Genetics Data



Pseudonymisation



Anonymisation

Storage and processing of personal (sensitive) data: How & When?

- Fairness and Transparency
- Data Minimisation
- Data Accuracy
- **Storage Limitation**
- Integrity and Confidentiality
- Accountability

Fairness and Transparency

→ Fairness: Not taking advantage of your position as a research institution, and not taking advantage of your position in relation to the data subjects

- → **Transparency:** Your data subjects shall be informed of what you do with their personal data, and and of how to exercise their/his/her rights
- → Provision of the required information in a clear and plain language

- <a href="https://ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/legal-grounds-processing-data/sensitive-data/under-what-conditions-can-my-company-organisation-process-sensitive-data en
- https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=ČELEX:32016R0679&from=EN#d1e1888-1-1
- https://lovdata.no/dokument/NL/lov/2008-06-20-44/KAPITTEL 8#KAPITTEL 8

Data Minimisation

→ The amount of personal data shall be limited to that necessary to achieve the purpose of data processing

→ Obligation to avoid collecting, storing or in any other way processing personal data that is not strictly necessary, even if it may be "nice to have"

- <a href="https://ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/legal-grounds-processing-data/sensitive-data/under-what-conditions-can-my-company-organisation-process-sensitive-data en
- https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=ČELEX:32016R0679&from=EN#d1e1888-1-1

Data Accuracy

- → Important not only in consideration of the data subjects but also for your research
- → Obligation to rectify or delete inaccurate personal data
- → Your data subject can ask for deletion of the data at any time

- <a href="https://ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/legal-grounds-processing-data/sensitive-data/under-what-conditions-can-my-company-organisation-process-sensitive-data_en_data/sensitive-data_en_dat
- https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=ČELEX:32016R0679&from=EN#d1e1888-1-1

Storage Limitation

- → Personal data shall not be stored for longer than necessary to fulfil the purpose
- → Once the purpose has been achieved, the data shall in principle be deleted or made anonymous
- → REK usually sets requirements for storage beyond the project period for reasons of verifiability you may need to include this in your application!
- → Processing personal data for the purpose of verifiability is legitimate
- → Personal data may be stored for longer periods so far as the personal data is processed solely for scientific, historical, and/or statistical research purposes

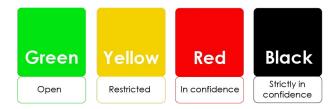
- <a href="https://ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/legal-grounds-processing-data/sensitive-data/under-what-conditions-can-my-company-organisation-process-sensitive-data_en_da
- https://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=ČELEX:32016R0679&from=EN#d1e1888-1-1

Integrity and Confidentiality

- → Personal data must be processed in a manner that ensures:
 - appropriate security of the personal data,
 - protect personal data against unauthorised access,
 - unlawful processing,
 - accidental loss, distribution, amendment, or damage

A

Follow institutional guidelines



- → Pseudonymisation
 - Dedicated data analysis platforms

Accountability

- → Data controller shall be responsible for, and be able to demonstrate compliance with the principles
- → Obligation to **document** the processing of personal (sensitive) data
- Follow institutional guidelines

What is...?

What does GDPR say about...?





Storage and processing of personal (sensitive) data: How & When?

- Genetics Data
- Pseudonymisation
- Anonymisation

- ☐ Fairness and Transparency
- □ Data Minimisation

Data subjects, processing,

controller, and processors

- Data Accuracy
- Storage Limitation
- Integrity and Confidentiality
- Accountability

Let's learn about (the importance of):



Data Protection Impact Assessment (DPIA)



Derogations for scientific purposes



International Data Transfers



Data Privacy Assessments



Approval/Reporting



Data Protection Impact Assessment (DPIA)

- → "Where a type of processing ... is likely to result in a high risk to the rights and freedoms of natural persons"
- → Based on new technologies, the nature, scope, context and purposes of the processing
- Your research work is based on:
 - "Processing of genetic data in conjunction with at least one other criterion" and
 - "Processing of personal data using innovative technology in conjunction with at least one other criterion"
- → Identify risks and take measures to reduce the risk; DPIA helps ensure privacy of your data subject(s)



Derogations for scientific purposes

- → Further processing and storage limitation Articles 5(1)(b) and (e), GDPR
- → Processing of special categories of data Article 9(2)(j), GDPR
- → Information provided by third parties Article 14(5)(b), GDPR)
- → Right to erasure Article 17(3)(d), GDPR
- → Right to object Article 21(6) GDPR

In addition, there are following derogations in the Norwegian Data protection act:

- Right to access
- Right to rectification
- Right to restrict processing



International Data Transfers

Key relevance in scientific research

Countries outside the EU/EEA ("Third countries")

Transfer mechanism pursuant to GDPR chapter 5

Adequacy Decision

Most common: Standard Contractual Clauses (SCCs) adopted by the European Commission (EC)

Additional safeguards - e.g. Pseudonymization

EC has recognized:

Andorra, Argentina, Canada, Faroe Islands, Guernsey, Israel, Isle of Man, Japan, Jersey, New Zealand, Switzerland, Uruguay, and the UK

- eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:32016R0679&from=EN#d1e4319-1-1
- ec.europa.eu/info/law/law-topic/data-protection/reform/rules-business-and-organisations/obligations/what-rules-apply-if-my-organisation-transfers-data-outside-eu_en
- gov.uk/government/news/eu-adopts-adequacy-decisions-allowing-data-to-continue-flowing-freely-to-the-uk



International Data Transfers

Key relevance in scientific research

Countries outside the EU/EEA ("Third countries")

Transfer mechanism pursuant to GDPR chapter 5

Adequacy Decision

Most common: Standard Contractual Clauses (SCCs) adopted by the European Commission (EC)

Additional safeguards - e.g. Pseudonymization



Exchange of personal data & biological material (for research) in any direction requires special and careful additional consideration!

EC has recognized:

Andorra, Argentina, Canada, Faroe Islands, Guernsey, Israel, Isle of Man, Japan, Jersey, New Zealand, Switzerland, Uruguay, and the UK

Responsible Authorities

NORSK SENTER FOR FORSKNINGSDATA













Data Privacy Assessments

Since 2020:

NSD carries out privacy assessments on behalf of Norwegian universities. Processing personal data in project → Apply to NSD

Minimum 30 days before data collection starts





Data Privacy Assessments

Since 2020:

NSD carries out privacy assessments on behalf of Norwegian universities. Processing personal data in project → Apply to NSD

Minimum 30 days before data collection starts

Medical and health research projects → Apply in parallel to NSD+REK (depends on faculty and institution)







Type of project

Research on personal data which are not health-related?

Approving authority

Privacy protection officer + NSD

Advisory authority

Datatilsynet/Privacy Protection ombud

Type of project	Approving authority	Advisory authority
Research on personal data which are not health-related?	Privacy protection officer + NSD	Datatilsynet/Privacy Protection ombud
Human biological material?	REK + NSD	REK

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Research on personal data which are not health-related?	Privacy protection officer + NSD	Datatilsynet/Privacy Protection ombud
Human biological material?	REK + NSD	REK
Health data?	REK + NSD	Datatilsvnet + REK

Type of project	Approving authority	Advisory authority
Research on personal data which are not health-related?	Privacy protection officer + NSD	Datatilsynet/Privacy Protection ombud
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Health data?	REK + NSD	Datatilsynet + REK
Involving test persons?	REK + NSD	REK

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Human biological material?	REK + NSD	REK
Health data?	REK + NSD	Datatilsynet + REK
Involving test persons?	REK + NSD	REK
Radiation on humans?	REK + NSD	REK

Type of project	Approving authority	Advisory authority
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Involving test persons?	REK + NSD	REK
Radiation on humans?	REK + NSD	REK
Medicines, dietary supplements, natural substances or other substances?	Norwegian Medicines Agency + REK +NSD	Norwegian Medicines Agency + REK

Type of project	Approving authority	Advisory authority
Research on personal data which are not health-related?	Privacy protection officer + NSD	Datatilsynet/Privacy Protection ombud
Human biological material?	REK + NSD	REK
Health data?	REK + NSD	Datatilsynet + REK
Involving test persons?	REK + NSD	REK
Radiation on humans?	REK + NSD	REK
Medicines, dietary supplements, natural substances or other substances?	Norwegian Medicines Agency + REK +NSD	Norwegian Medicines Agency + REK
Medical equipment is used on humans?	The Norwegian Directorate of Health + REK + NSD	The Norwegian Directorate of Health

Contact Information

Data Protection Officers

UiB Janecke.Veim@uib.no
NTNU: thomas.helgesen@ntnu.no
UiT personvernombud@uit.no
NMBU personvernombud@nmbu.no
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NSD - nsd.no





nsd.no





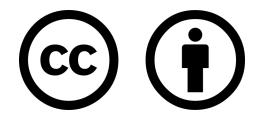


Data Management Life Cycle

Link to RDMkit: https://rdmkit.elixir-europe.org/

** rdmkit.elixir-europe.org/sensitive_data.html

Thank you!



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