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Research Data Management Plan — Epidemiological Studies

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No.	Question	Answer
1	General information on research proposal	
1.1	What is the title of the study? (baseline study or further study as part of the baseline study)	The title of the study is ...
1.2	What is the primary research question?	The primary research question is ...
1.3	Which institution or individual is responsible for project management and coordination?	Personal name
		Organizational name
		Project manager / sponsor (primary)
		Name of the affiliation:
		Address of the affiliation:
		Webpage of the affiliation:
1.4	Which project partners are there (institutions, persons)?	ROR ID of the affiliation:
		Personal name
		Organizational name
		Personal name (if applicable)
		Type of role of partner:
		Name of the affiliation:

	Address of the affiliation:	
	Webpage of the affiliation:	
	ROR ID of the affiliation:	
1.5	What is the project duration? When does the project start and end?	The project is planned to run / has received funding for [Number of months]. The project will start / has started on and will end on .
1.6	What DFG discipline does the study belong to?	The study belongs to the following disciplines: 204 Microbiology, Virology und Immunology 205 Medicine 206 Neurosciences Please specify further:
1.7	Are there rules or guidelines for handling research data and/or data management requirements in these disciplines, at your institution, from the sponsor or for the study? If yes, briefly outline these and refer to further	On institutional level: FDM policy On discipline-level: Good epidemiological practice Good clinical practice

information if necessary. To what extent are they binding (e.g. obligation to publish study metadata in a register, sharing of personal data on request)?

1.8 Who is funding the study?

ICH	
Declaration of Helsinki	
Other:	
The study / project is funded by:	
Name of Funder:	
Funding identifier:	

2 Types of data – content

2.1 What data types are generated?

Administrative databases Biological samples Cognitive measurements Genealogical records Imaging data Interview Medical records Omics technology Physiological/Biochemical measurements Questionnaire Registries Other	Biosamples: Blood Buccal cells Cord blood DNA Faeces Hair Immortalized cell lines Isolated pathogen Nail Plasma RNA Saliva Serum Tissue (FFPE) Tissue (frozen) Urine Other biological samples	Imaging data: Computed tomography (CT) Magnetic resonance imaging (MRI) Radiography (x-ray) Ultrasound Other imaging data Omics technology: Biomarkers Genomics Metabolomics Proteomics Transcriptomics Other omics technology
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2.2 Are data reused?

Yes
No -> skip question 2.2.a + 2.2.b

2.2.a Which data are reused?

Administrative databases Biological samples Cognitive measurements	Biosamples: Blood Buccal cells	Imaging data: Computed tomography (CT) Magnetic resonance imaging
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2.2.b Are the re-used data publicly available?

Genealogical records Imaging data Interview Medical records Omics technology Physiological/Biochemical measurements Questionnaire Registries Other	Cord blood DNA Faeces Hair Immortalized cell lines Isolated pathogen Nail Plasma RNA Saliva Serum Tissue (FFPE) Tissue (frozen) Urine Other biological samples	(MRI) Radiography (x-ray) Ultrasound Other imaging data Omics technology: Biomarkers Genomics Metabolomics Proteomics Transcriptomics Other omics technology
No		
Yes, some of the re-used data are publicly available here:		
Yes, all re-used data are publicly available here:		
DOI:		
URL:		
arXiv:		
EAN13:		
EISSN:		
Handle:		
ISBN:		
ISSN:		
ISTC:		
LISSN:		
LSID:		
PMID:		
PURL:		
URN:		
w3id:		
Other:		

2.3 Which data are not digitally available?

Administrative databases Biological samples Cognitive measurements Genealogical records Imaging data Interview Medical records Omics technology Physiological/Biochemical measurements Questionnaire Registries Other	Biosamples: Blood Buccal cells Cord blood DNA Faeces Hair Immortalized cell lines Isolated pathogen Nail Plasma RNA Saliva Serum Tissue (FFPE) Tissue (frozen) Urine Other biological samples	Imaging data: Computed tomography (CT) Magnetic resonance imaging (MRI) Radiography (x-ray) Ultrasound Other imaging data Omics technology: Biomarkers Genomics Metabolomics Proteomics Transcriptomics Other omics technology
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3 [Data Formats](#)

3.1 In which file formats and volumes are the data types created?

Text documents .pdf .docx .rtf .odt Data Volume:	Plain text .txt Data Volume:
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Markup language .xml .html .css Data Volume:	Audio .bwf .mxf .mka .flac .wav .mp3 .m4a Data Volume:
Programming languages - Python - Java - MATLAB - NetCDF Data Volume:	Video .mxf .mkv .mp4 .m4a .mpg .avi Data Volume:
Spreadsheets .ods .csv .xlsx .pdf Data Volume:	Computer Aided Design (CAD) .dxf .svg .dxf .dwg Data Volume:

Databases .sql .siard .csv Data Volume:	Geographical Information Systems (GIS) .gml .mif/.mid .json Data Volume:
Statistical data .dat/.sps .dat/.DO .csv/.html - R .sav Data Volume:	Georeferenced images .tif/.tiff Data Volume:
Raster images .jpg/.jpeg .tif/.tiff .png .dcm Data Volume:	3D .obj .ply .x3d .dae .pdf Data Volume:

		Vector images .svg .ai .eps .cdr Data Volume:	RDF .rdf .trig .ttl .nt Data Volume:
3.2	What is the data volume of all the digital data types to be collected?	[Number of] KB / MB	
3.3	What is the expected data volume per year?	[Number of] KB / MB	
3.4	Which instruments, software, tools are used to generate data?	The following tools / software / instruments are used to generate the data ...	
3.5	What software, processes or technologies are required to analyse the data?	The following software / tools are needed to analyse the data ...	
3.6	What software or analysis scripts will be necessary in order to be able to reuse data?	The following software / tools are needed to reuse the data ...	
		Scripts:	

3.7 Where is the data saved during the research project?

Software:	
Documentation:	
local server	
cloud service	
if applicable, insert URL:	

3.8 Are there internal project guidelines for the uniform data organisation?

There are no project-internal guidelines for the uniform organisation of data.	
There are project-internal guidelines for the uniform organisation of data:	
Storage space	
Folder structure	
File naming	
If applicable: insert LINK to guidelines	

3.9 Who is authorised to access which data during the research project?

Authorised person/group:

Type of access:

Type of accessible data:

3.10 Who backs up the data and how often?

IT

How often:

Researchers

How often:

Other

How often:

3.11 What measures are taken to ensure data security?

Protection against unauthorized access by:

Transfer of sensitive data is protected by:
Data recovery by means of:
Other:

4 Interoperability/Metadata

4.1 Which metadata standards, ontologies, classifications etc. are used to describe the data?

The following metadata standards / ontologies / classification are used to describe the data:	
MeSH	
ICD-10	
ICD-11	
MedDRA	
SNOMED CT	
Other vocabulary:	

4.2 Which data are not interoperable? For which data types/content are no (common) standards or project-specific (or rare) ontologies, metadata schemas, vocabularies etc. used?

None

Describe the type of data:

4.3 Will mappings be created for common metadata standards?

If applicable, name the standard:

4.4 Are metadata collected automatically (e.g. from devices)? Which ones?

Yes

Instruments:

Software:

Variables:

No

5 Quality assurance

5.1 Are metadata and contextual information checked for correctness and completeness?

Metadata and contextual information are not checked for completeness and correctness.

Metadata and contextual information are checked for completeness and correctness.

5.2 Who is responsible for documenting and checking the metadata and context information for accuracy and completeness?

Metadata and context information are checked for completeness and correctness by:

Responsible Person / Department:

5.3 What quality assurance measures are taken for the generated data?

Data completeness

The following person/s is/are responsible for ensuring data quality during the indicated phases:

Check whether all information is included

Check whether any files are missing

Data consistency

Check whether structure and formatting are consistent throughout the dataset

Data integrity

Check whether the data content is correct and complete

There is a procedure in case of missing or incorrect data

Procedure:	
Check for duplicates	
Data is supplemented or enriched	
Supplementation / Enriching:	
Data collection	
Responsible person / position:	
Measures taken:	
Data compiling	
Responsible person / position:	
Measures taken:	

Data processing	
Responsible person / position:	
Measures taken:	

6 Persistent Identifiers (PIDs)

6.1 Which PID system(s) is/are used?

	DOI URL arXiv EAN13 EISSN Handle ISBN ISSN ISTD LISSN LSID PMID PURL URN w3id Other
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6.2 Which data are given its own identifier?

Raw data:	
Cleaned data:	

Analysed data:	
Processed data:	
Published data:	

7 Laws and ethics

7.1 Which law is relevant for the project with regard to personal data protection issues?

7.2 Does the data set contain sensitive data (BDSG §3, para.9))?

No	
Yes, information on:	
racial and ethnic origin political opinions religious or philosophical beliefs trade union membership health sex life	
other non-personal sensitive data:	

7.3	Will the sensitive data anonymised be pseudonymised?	Personal data will be anonymized
		Personal data will be pseudonymised
		Undecided
7.4	Is the "informed consent" of the data subjects obtained? What research purposes does informed consent cover?	Research purposes covered by informed consent:
		Where are the informed consent documents stored:
7.5	Are data used that are protected by copyright?	Yes
		No
7.6	Is there a license or usage agreement for the re-used data specified in 2.2.a?	No
		Yes, the following license / usage agreement applies:

7.7 Who is the ethics committee?

The Ethics Committee of:

7.8 Who decides if data access is granted in response to requests?

There is no data access committee.

There is a data access committee that decides whether access is granted for access requests. The committee consists of [Person / Department]:

8 [Reuse and publication of data](#)

8.1 Where will the metadata and/or study documents be published?

Institutional repository:

Specialised repository:

Generic repository:

- 8.2** Which data will be published?
- Study metadata
 - Study documents, which ones?
 - - Instruments (templates), which ones?

Data Journal:	
Other:	
Study metadata will be made publicly available on:	
Repository:	
Link:	
The following study documents/instruments will be made available on: Repository, Link	
Substudy/Data collection event	
Biobank	
Case report form	
Code book	
Data dictionary	

Data management plan	
Dataset	
Discussion guide	
Informed consent form	
Interview scheme and themes	
Manual of operations (SOPs)	
Observation guide	
Participant tasks	
Patient information sheet	
Questionnaire	
Registry	
Secondary data source	

.....

	Statistical analysis plan	
	Study protocol	
	Other data collection instrument	
	Other study document	
	Other	
8.3	Under which terms of use / which licence should the data be published?	Creative Commons 4.0
		Please specify:
		Individual data usage contracts
8.4	Are there embargo periods (for political/commercial/patent law reasons)? If yes, please provide details.	Yes:
		No

9.2 Which data will be archived for the long term?

URL:	
The data will be archived in a non-public repository (i.e., the data's existence is verifiable, but data is only accessible on request)	
Name of repository:	
URL:	
The data will be archived in a storage service, integrity and accessibility of the data are guaranteed	
Name of repository:	
URL:	
Study metadata:	
Study documents:	
Instruments (templates):	

IPDs:	
Software/Scripts:	

Basis: RDMO catalogue of questions (generic catalogue) of 19.11.2019

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