

FACULTY OF HUMAN SCIENCES

RESEARCH DATA



The [Faculty of Human Sciences](#) at the University of Bern includes: The Institute of Educational Science ([IfE](#)), the Institute of Psychology ([IfP](#)) and the Institute of Sport Science ([ISPW](#)).

Personal- & health-personal data

- Sociodemographic data
- Personality- and ability-related data
- Psychophysiological data
- Mental health-related
- Behaviors and attitudes
- Anthropometric data
- Cardiovascular data

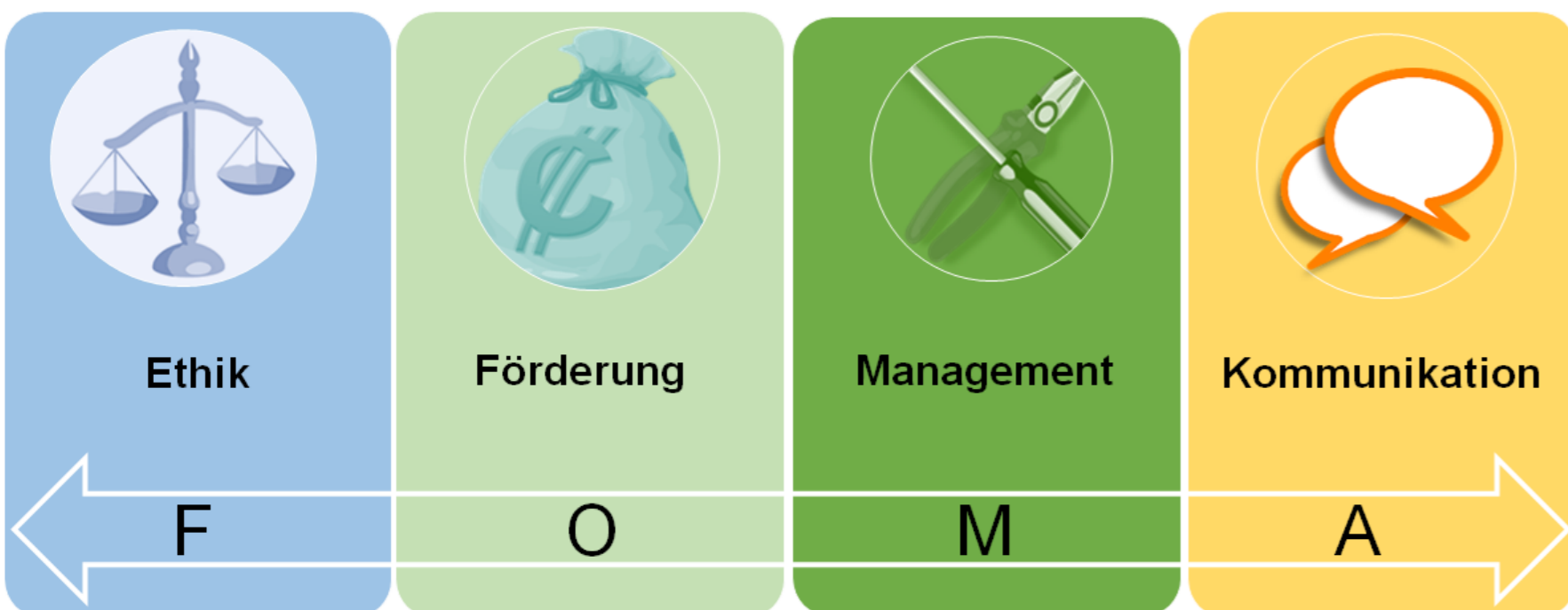
Clinical data

- Symptom severity and changes during therapy
- Online-assessments
- Randomized online studies
- Confidentiality agreements
- Inform consent forms
- Study protocols
- Case report forms
- Monitoring reports



RESEARCH MANAGEMENT GROUP

[Research management \(FOMA\)](#) at the Faculty aims to support researchers by strengthening excellent research and managing research data ethically in line with the Swiss federal laws and ordinances.



We advise researchers where and how, and under which conditions and formats to store their research data, consulting on requirements and best practices for metadata and documentation description, data monitoring, coding of variables.

LEGAL ASPECTS

We inform researchers on the legal ordinance of the [Swiss Federal Act on Data Protection \(FADP\)](#) for the management of sensitive data ethically, [Findable, Accessible, Interoperable, and Reusable \(FAIR\)](#) data principles and on available IT-solutions in accordance to the [General Data Protection Regulations \(GDPR\)](#).

CHALLENGES

- Where and how to store the identifying data or personal participants' data additionally to separate database with anonymised encoded data?
- Possible delays in the study due to amendments to the ethics commissions.
- Where is the right place to store encrypted and password-protected video/audio interviews?
- Which is the most appropriate Software to use for surveys?
- Is it necessary to use licensing under continuous games integration?
- Where is the right place to store neurophysiological data?
- What is the right criteria to use pseudonymisation vs. anonymisation?
- How can video/audio images of interviews be anonymised? If not at all, then what are the possible solutions?

IT- and software applications

- Computer games
- Applications for kids
- Educational applications
- Self-help applications
- Phone applications
- Survey & interviews (Qualtrics, Atlas.ti)
- Clinical trials and surveys (RedCap, Qualtrics)
- Statistical software (R, Stata, SAS, SPSS)

Data format

- Anonymised scans (.tiff, .png)
- Tables (.csv encoded in UTF-8)
- Text documents (txt, A/PDF) coded as ASCII
- Audio (.wav, .mp4)
- Video (.mov, .avi, .mj2, .mkv, FFV1 codec)
- Graphics (HDF5, .svg)

STRENGTHS & OPPORTUNITIES

- Use professional software, which correspond to the GDPR and store the data within national Swiss data repositories or within European Union.
- Follow the [Good Clinical Practice \(GCP\)](#) and International Council for Harmonization of Technical Requirements for Pharmaceuticals for Human Use ([ICH](#)) rules and prepare applications for the ethics committees earlier enough by better study planning.
- Use collaborative approach at the institutional level and with other research centers to strengthen network.
- Follow Open Science strategy by "open data as possible, as close as necessary" under legal ordinance of the [FADP](#) for the management of sensitive data ethically based on the [FAIR](#) data principles and on available IT-solutions in accordance to the [GDPR](#).
- Identify the overall strategy for data management processes before the project starts. Apply for licenses for presentations, talks, developed games, phone applications etc.

COLLABORATION

The [FOMA data management support](#) at the Faculty is offered in collaboration with the [Clinical Trial Unit \(CTU, University of Bern\)](#); IT-persons of the [IfE](#), [IfP](#), [ISPW](#) and the [Ethics Committee at the Faculty](#); and the [Open Science Team at the University of Bern, Switzerland](#).