Details

Technology, Methods, and Infrastructure for Networked Medical Research (TMF)

TMF is the umbrella organization for networking in medical research in Germany. It is a platform for interdisciplinary exchange as well as cross-project and cross-location cooperation in order to identify and solve the organizational, legal/ethical and technological problems of modern medical research and data management. Solutions range from expert opinions, generic concepts, and IT applications to checklists, practical guides, training, and consultation services. The TMF makes these solutions available to the public free of charge. Our Aims: Our mission is as follows: to improve the quality, organization, and cooperation of medical research, to clarify the legal and ethical foundations for performing medical research and to provide model solutions, to promote quality assurance and quality management in medical research, for example in the field of clinical studies and in biobanking, and to develop and expand efficient IT infrastructures and data sharing. Our Method of Work: Our work focuses on interdisciplinary dialog in working groups and with research and health care Institutions and university clinics. The experts exchange experiences, analyze current problem areas of medical research and identify the need for solutions on a general basis. As a result of the joint discourse it is possible to initiate scientific methodology projects and fund them with the TMF's own resources, for example in order to develop expert opinions, practical guides, tools, or services. By developing sustainable infrastructures for medical research we are strengthening the position of Germany as an attartcive place for science and development and also considering European and international competition and cooperation.

Address: Charlottenstraße 42
10117 Berlin
Berlin
Deutschland
To website

Host Institution

Scientific Domain

Primary Subjects:
- Medicine

Secondary Subjects:
- Biology
- Agriculture, Forestry, Horticulture and Veterinary Medicine
- Computer Science, Electrical and System Engineering

Category

Virtual research environments

Scientific Services

Generic data protection concept for networking in medical research, coordinated with the federal and state data protection commissioners; assessment of data protection concepts; guidelines and checklist for patient consent; Legal opinions, sample contracts and sample texts for the establishment and operation of biobanks; Checklist for quality assurance in biobanks; Data protection concept and patient consent for biobanks; Expert opinions and sample texts for German biobanks in EU cooperation projects; Assessment of biobanks; Standard Operating Procedures (SOPs) for clinical trials; expert opinions and sample documents on sponsor responsibility in clinical trials; AMG checklist for conducting IITs; guideline, statistical tables and software for adaptive management of data quality in cohort studies and registries; concept for IT system validation in clinical trials; Legal opinions on data protection in medical research; various legal opinions on electronic archiving; legal opinions on electronic data trusteeship; sample data trusteeship agreement; legal opinions and sample texts on exploitation issues in biomedical research; quality management of high-throughput genotyping data; catalog of fluorescence cluster types; regulatory requirements for clinical evaluation and clinical testing of medical devices, web application for creation and management of online surveys and databases, especially for medical and translational research projects, development of model registries for health services research, coordination/support structure of the Medical Informatics Initiative, evaluation of ethical, legal and social implications of data sharing in medicine

Scientific Equipment

- Software assistent for web-based use of the TMF checklist for creation of patient information and informed consent
- PID generator: Pseudonymisation software for the creation of pseudonyms on the basis of identifying patient data
- PID service: eSevice for saving and administrating patient lists
- repliCheckSNP: Software for quality control of snp genotyping data
- SDTM converter: Software for the transformation of clinical data from CDISC-ODM structures to SDTM format
- Macro collection for the SAS software for the evaluation of clinical studies
- Pharmacovigilance software (report templates and narrative script)
- Hosting for SAE (Serious Adverse Events) software

Keywords

- ELSI (ethical, legal, and social issues)
- Quality standards (QS/QM)
- Secondary use (Use of electronic health records for clinical research)
- IT infrastructure
- TMF School
- Transfer between research and health care
- Interoperability
- Scientific consulting
- Political consulting
- Standardisation, harmonisation
- Metadata repository
- Forum Grid/Cloud
- Molecular Medicine
- Management and communication in research networks
- Education and training

Networks

National Research Platform for Zoonoses (funded by BMBF)
https://www.zoonosen.net/

Medical Informatics Initiative
https://www.medizininformatik-initiative.de/de/start

NFDI4Health
https://www.nfdi4health.de/de/what-is-nfdi4health-deutsch/

Users per annum

Internal Users: 106
External Users in total: 3500
External Users: Daten nicht erhoben
External Users in the EU: Daten nicht erhoben
External Users outside of EU: Daten nicht erhoben