Research Seminar
Telemedicine and e-health Research Unit

Portal of Medical Data Models

medical data models
MDM Portal

The Portal of Medical Data Models (MDM-Portal, https://medical-data-models.org) is a metadata registry for creating, analyzing, sharing and reusing medical forms, developed by the Institute of Medical Informatics, University of Münster in Germany.

Electronic forms for documentation of patient data are an integral part within the workflow of physicians. A huge amount of data is collected either through routine documentation forms for electronic health records (EHRs) or as case report forms (CRFs) for clinical trials. However, different health information systems are not necessarily compatible with each other and thus information exchange of structured data is hampered. Software vendors provide a variety of individual documentation forms, which function as isolated applications. Furthermore, the vast majority of those forms is not available to the scientific community. Based on this lack of transparency harmonization of data models in health care is extremely cumbersome, thus work and know-how of completed clinical trials and routine documentation in hospitals are hard to be re-used.

The MDM-Portal serves as an infrastructure for academic medical research to contribute a solution to this problem. It already contains more than 14,000 system-independent forms with more than 1,5 million annotated terms. Among those, numerous core data sets, common data elements or data standards, code lists and value sets are provided, which can be exported in ~20 formats e.g. CDISC ODM, OpenClinica, HL7 FHIR, Excel or SPSS.

Venue
Escuela Nacional de Sanidad. Room ´Joaquin Pereira´.

Date and time
Friday, November 24th, 2017. 12.30-14h.

Invited by
Dr. Fernando Martin Sanchez. Ext 22479. Email: fmartin@isciii.es

PROF. MARTIN DUGAS

Prof Dugas holds a doctoral degree in human medicine as well as a diploma in computer science. His research is focused on informatics for personalised medicine, in particular medical data models, electronic health records (EHRs), single source information systems, cancer genomics and next generation sequencing (NGS) data analysis. He received the venia legendi for medical informatics in 2002 at the University of Munich, Germany. From 2004 to 2005 he was a research fellow at Siemens Medical Health Services, USA. Since 2005 he is professor of Medical Informatics at the University of Münster. Since 2011 he holds a dual faculty membership (medicine as well as mathematics and informatics). Since 2013 he is a member of the ERCIS director's board (European Research Center for Information Systems). In 2011 he and his team established the Portal of Medical Data Models, a research information infrastructure funded by the German Research Foundation.