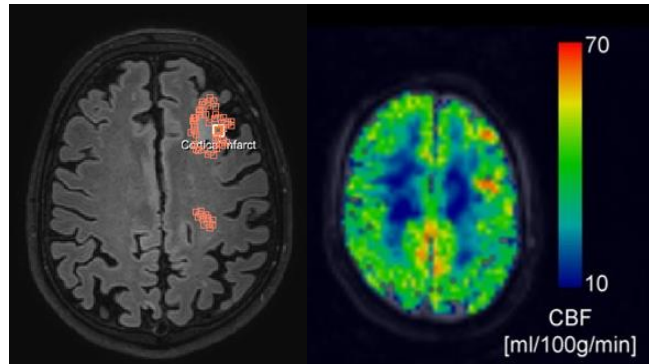


Erasmus MC
Imaging Office



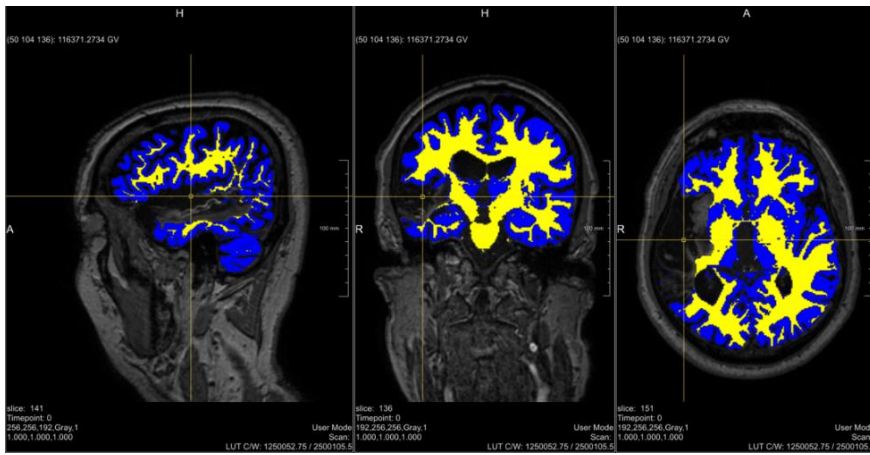
Expertise on imaging data and image analysis is essential for integration, testing and validation of image-related technologies for health (e.g., AI-based technologies). The Imaging Office, embedded in the Erasmus MC department of Radiology & Nuclear Medicine, offers support for all medical imaging-related questions by clinicians, scientific researchers and companies. Regarding companies, the Imaging Office enables start-ups, SMEs, larger companies and knowledge institutions to test, validate or experiment with their products and services on imaging data in research, clinical and hospital settings.

The Imaging Office supports medical imaging-related projects from the planning to the execution phases, and targets external parties that would need access to medical imaging data, image analysis software and radiological expertise. This includes service and support related to acquisition of imaging data, data management and storage for medical images, coordinating projects with imaging data, connecting to the right imaging-related expertise, setting up studies with imaging data, validation of existing and new image analysis techniques, and the development and application of automatic techniques for high-quality image analysis.

List of services:

The Imaging Office offers a wide range of imaging-related services at a central place. Imaging data here includes, but is not limited to: MRI, CT, Ultrasound, X-ray, PET, and SPECT. The services are:

- **Assistance with project proposals**
 - o Assistance with imaging data management plan
 - o Assistance with acquisition and analysis plan
 - o Assistance with making budgets for imaging within projects
- **Acquisition services**
 - o Finding existing imaging data within and outside Erasmus MC
 - o Assistance with image acquisition protocols
- **Trial support**
 - o Trial logistics
 - o Assistance with trial administration
 - o Monitoring progress and quality
 - o Assistance with ethical approval
 - o Coordination of participants/volunteers
- **Dataservices for using imaging data**
 - o Sending and receiving data
 - o Assistance with data transfer agreement (DTA)
 - o Anonymization and/or pseudonymization of data
 - o Supporting data storage (e.g. XNAT)
 - o Other datamanagement procedures



- **Digital imaging processing**
 - Supplying software for manual annotation of images
 - Supplying software for (semi-)automatic segmentation of images
 - Expertise by a.o. radiologists and technicians
 - Experts (e.g. radiologists, technicians, trained students) for annotation of images
 - Automatic annotation methods (developed in-house or externally)
 - Quantitative imaging biomarkers
 - Procedures, methods and software for quantification
 - Procedures, methods and software for quality control
 - Assistance in development of novel methods and software for annotation or image quantification, e.g. using AI.
- **Use and implementation of existing software for digital image analysis**
- **Development of software based on existing methods for image analysis**
- **Selection, implementation and integration of automated image analysis software in clinical practice**
 - Assistance with selection, integration and implementation of developed certified analysis methods for clinical use
 - Assistance with translation of developed analysis methods to the clinic
- **Infrastructure**
 - Infrastructure for large studies with imaging component
 - Infrastructure for testing and validation of novel methods in a clinical setting.

