

Beyond its proven biomedical imaging analysis software, PMOD offers tailored support for pre-clinical imaging studies in animals and humans. In this space, PMOD's own in-house expertise is complemented by a scientific advisory board which includes several international medical imaging experts.

## Input into Study Design for Medical Imaging Studies

Practical factors crucial to a successful implementation include equipment setup, calibration and validation, scanning protocol optimization, appropriate image reconstruction as well as imaging data management. Sub-optimal preparation will have an impact on the quality of the data and limit the insight which can be achieved with imaging data. Our experts are able to offer support during any phase of study development, according to the direct needs of the study team.

## Post-Processing of Medical Imaging Data

The analysis of medical imaging data is demanding, time-consuming and needs to be standardized. Medical imaging data analysis methods have to be evaluated, trading detail against robustness and taking the physiological background into account. The optimum method should be defined on statistical grounds and on the method's sensitivity for detecting changes. Our experts can help with method selection, proper use of the PMOD software, quality control of the data, and data analysis.

## Generation and Delivery of Study Results

Individual processing results need to be pooled for overall statistical analysis. This is a delicate task, which has to properly account for the study design and the structure of the data. The PMOD software supports the aggregation of study results as well as sophisticated statistics via the open-source R software. This infrastructure has been streamlined for the analysis of standard types of medical imaging studies. Our experts can provide support for data analysis, interpretation, and report writing.

## Custom Software Development

The PMOD software development team has a long and successful track record of delivering fit-for-need software applications. Thanks to the modular structure of the PMOD software, new functions or entire applications can be designed and refined in short development cycles. The scale of projects we can support ranges from adding individual quantification measures and dedicated model structures to the PMOD infrastructure, to providing full-blown tools tailored for proprietary use.

## Contracting Options

The degree of support offered on contract by PMOD is highly adjustable: it may range from individual coaching on a dedicated topic to deploying customized software solutions. As each imaging center's requirements are unique, we encourage interested study teams to contact us for personalized discussion of their needs.

