



dynamika

Standardising Analysis of Dynamic Contrast MRI

“Advanced visualisation and quantitative analysis functions allow measuring a wide range of biomarkers in objective and fully automated manner. This significantly increased the productivity of our radiologists and objectivity of the results. At the same time, DYNAMIKA reduced the time required for data reading and possibility of a diagnostic error.”

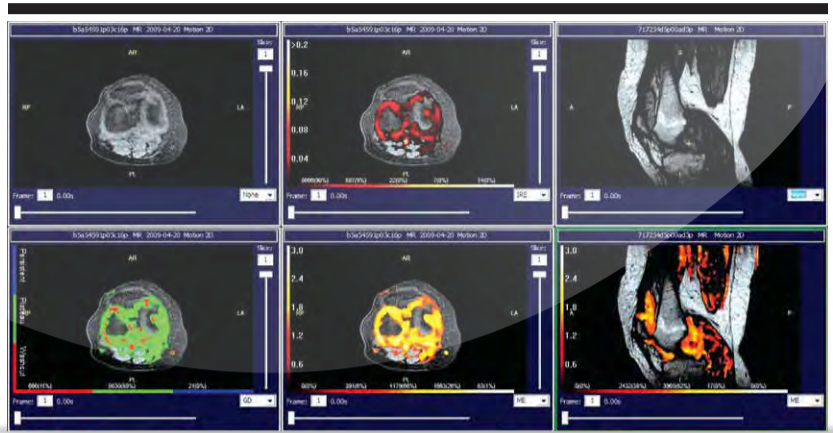
Users from Oxford & London, UK



ISO 13485:2003
MD 565340



0086



Dynamika is the standard for quantitative analysis of Dynamic Contrast Enhanced (DCE)-MRI data in cross sectional and longitudinal studies.

This award winning software improves the quality and efficiency of data analysis, speeding-up interpretation and offering computer-guided decision support.

DCE-MRI determines the actual pharmaco-dynamics of soft tissue inflammation in rheumatology and of tumour contrast enhancement, specifically the degree and rate of early enhancement.

This type of imaging requires careful interaction between the MRI physician, radiologist, technologist and supportive technology for post-acquisition data analysis.

Features & Benefits

“An advantage of using Dynamika is that the method ensures the usability of any examination, regardless of the motion artefacts. No scans have to be repeated and no patient needs to be called back to the hospital.”

User from Poland

“We received outstanding support from the Image Analysis team. They have endless enthusiasm and are very responsive to our enquiries. We have been delighted by their support during the entire [clinical] trial.”

User from the UK

- Patient motion correction functionality illuminates artefactual enhancement and increases signal-to-noise ratio by up to 3-fold. “This was especially valuable when aligning the data corrupted by shivering or heart beat motion.”
- Visual representation of inflammatory activity using parametric maps of maximum enhancement, initial rate of enhancement and time of onset of enhancement, is used for “faster interpretation and more reliable assessment of dynamic studies...”
- Quantitative interpretation of early changes allowed for “reliable detection of even subtle changes in patient condition post treatment”
- A map of tissue specific GD-DTPA uptake is “a quick way to separate healthy controls from active patients” and to “perform comprehensive assessment of overall inflammatory activity in the entire image”
- Traditional semi-automated and innovative fully-automated analysis techniques for computer-guided signal intensity vs. time curve and computer-guided Region-of-Interest (ROI) analysis
- Automated reporting was seen as “the quickest way to store the results in follow-up studies”
- Automation of data reading is the best way to achieve 100% reproducible and repeatable results



imageanalysis

Call: +44 1274 535 225 /
+44 79 859 39 915

Email: info@ImageAnalysis.co
Visit: www.ImageAnalysis.co

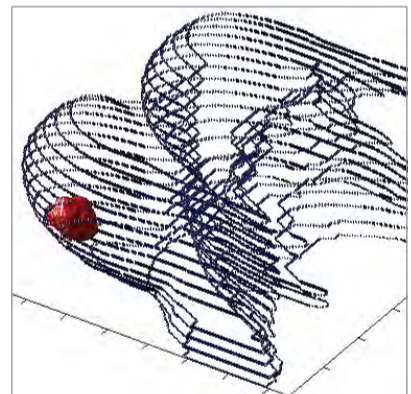
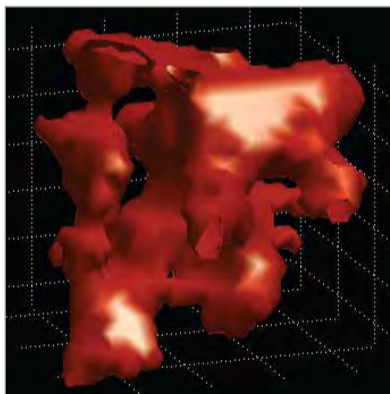
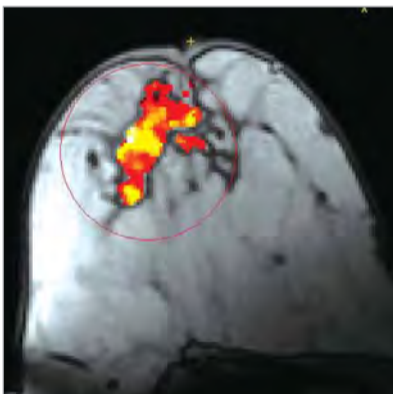
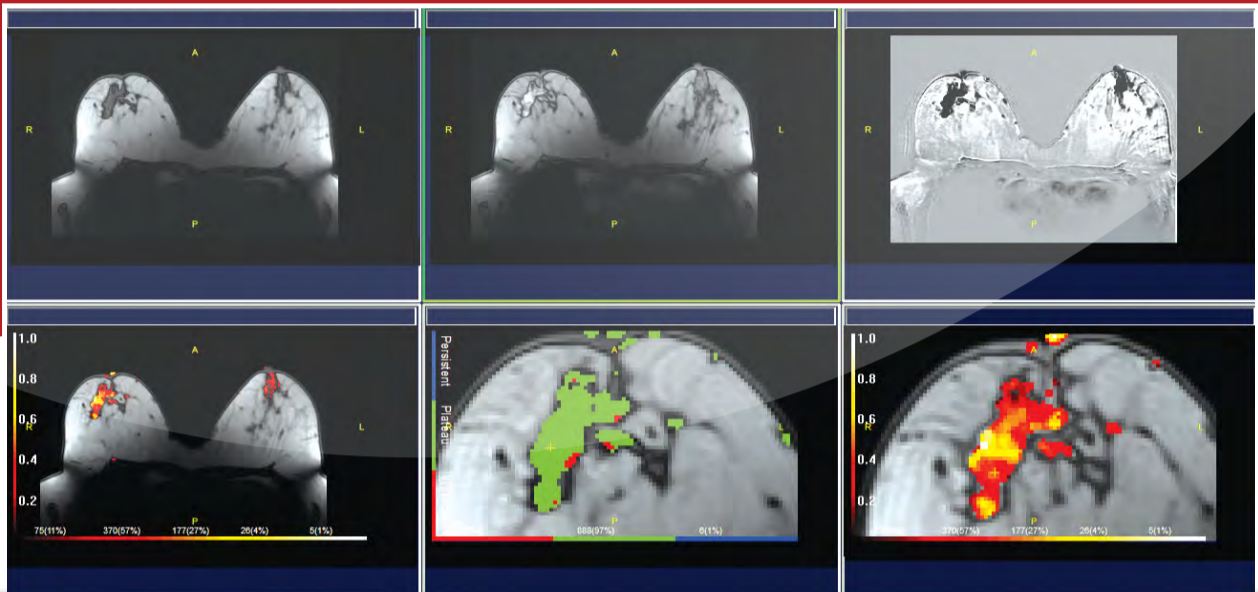
2011 © Image Analysis Ltd

Image Analysis Ltd, www.imageanalysis.co develops and sells DYNAMIKA software for automated standardised analysis of DCE-MRI data in Randomised Control Trials (RCT), clinical research, and clinical practice, which

- Provides an ideal communication platform in multi-centre clinical trials or research studies
- Reduces the time needed for data analysis by at least 50%
- Increases signal-to-noise-ratio by removing patient movement artefacts
- Through automation of key processes, gives confidence in diagnostic decisions and removes human bias
- Independent from imaging or PACs manufacturer equipment
- Compliant with EU regulations for medical devices and medical standards

“Dynamika is a fantastic tool for evaluation of our patients. We were able to save significant time diagnosing each patient and to get a quantitative measure of the local perfusion in the joints reflecting ongoing disease.”

User from the UK



imageanalysis

Schedule a demo
or meeting

ImageAnalysis Ltd
The Waterfront
Salts Mill Road
Saltaire
BD177EZ
United Kingdom

Email: info@ImageAnalysis.co
Visit: www.ImageAnalysis.co

Call: +44 1274 535 225 /
+44 79 859 39 915

For product information
www.dynamika-mri.com

Publications (available on request):

1. M. Boesen, M. Cimmino, M. Ostergaard, P. C. Taylor, and H. Bliddal, DCE-MRI can monitor early inflammatory treatment response upon intra articular steroid injection. Arthritis, 2011
2. M. Axelsen, K. Hørslev-Petersen, M. Østergaard, Reliability and Responsiveness of DCE-MRI in Arthritic Knee Joints, Radiology 2011
3. M. Boesen et al DCE-MRI for quantification of inflammation in patients with rheumatoid arthritis of the wrist: Impact of movement correction on signal to noise ratio and ROI analysis using a novel automatic computer algorithm. ECR 2011
4. M. Boesen, O. Kubassova, M. Parodi, H. Bliddal, S. Innocenti, G. Garlaschi, M.A. Cimmino, DCE-MRI evaluation of wrist synovitis on a dedicated scanner: comparison of manual and a novel computer aided analysis technique, ECR 2011
5. M. Boesen et al, Correlation between computer aided DCE-MRI assessment of inflammation and semi quantitative synovitis and bonemarrow oedema scores of the wrist in patients with rheumatoid arthritis, Rheumatology 2010
6. O. Hatsiopoulou, Olga Kubassova, I J Jolley, C E Ingram, A Novel Threshold Independent Computer-Aided Detection Algorithm For Breast MRI, Radiology Cancer Research 2010



O. Kubassova

“We envisage DYNAMIKA will become essential to clinical and research workflow by reducing the time spent on data analysis and increasing the accuracy of diagnostic decisions.”

Dr. Olga Kubassova, Founder & Managing Director of Image Analysis Ltd