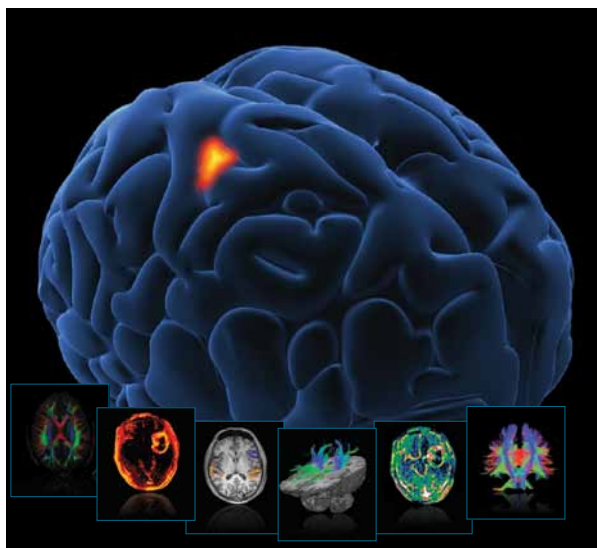


nordicICE

Image processing and analysis application for functional imaging methodologies



- *Module-based post-processing and analysis of Perfusion/DCE, BOLD and Diffusion/DTI image data*
- *Integrated DICOM database for easy image/data retrieval and saving*

nordicICE is a general-purpose image processing and analysis application with emphasis on the clinical use of functional imaging methods. nordicICE is a module-based solution for BOLD, Diffusion/DTI, and Perfusion/DCE imaging.

nordicICE is easy-to-use Windows-based software that can be readily integrated into the clinical workflow in any hospital. Simultaneously, nordicICE provides flexibility for the research-oriented user who wants to explore and take advantage of the state-of-the art visualization

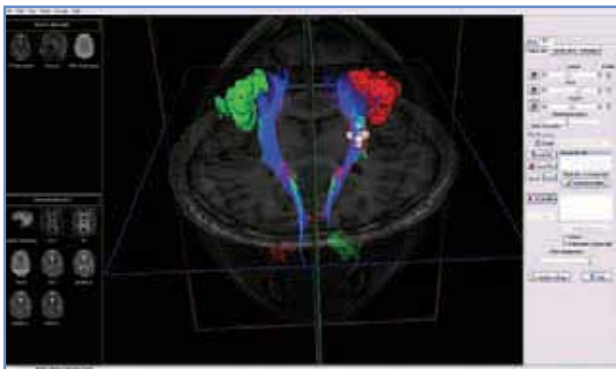
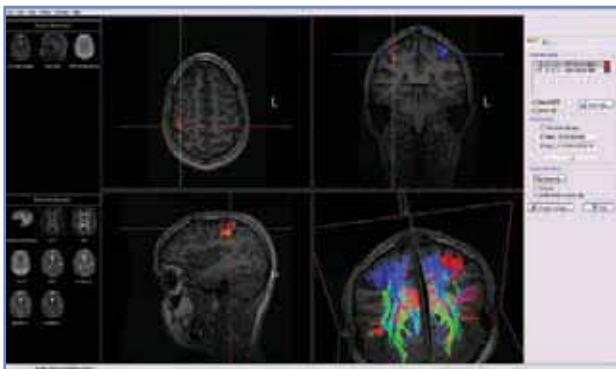
and post-processing techniques offered by this versatile, high-performance application.

nordicICE BOLD Module

The nordicICE BOLD Module has been specifically designed for clinical users and has been tailored to fit their demands and workflow. Easy to use due to the intuitive and user-friendly interface offered by the nordicICE BOLD Module, fMRI exam protocols can be integrated effortlessly into the everyday clinical routine. Fast, reliable, and standardized BOLD analysis can be performed with minimal user interaction. Additionally, it is possible for the advanced user to optimize or customize the computational procedures for more complex experimental procedures.

The analysis procedure includes the standard (optional) pre-processing steps such as slice-time and motion correction. Intermodality co-registration algorithms ensure the best possible correspondance between different types of image data – a critical requirement for clinical application to ensure anatomical accuracy. Statistical analysis is based on the General Linear Model (GLM). The obtained results can be displayed as color-coded overlays on structural images, and can easily be thresholded by the user

nordicICE BOLD Module



FEATURES

- Intuitive interface guides the user through the complete analysis process
- Automated data analysis for all paradigms included in nordicAktiva
- State-of-the-art 2D/3D visualization of resulting activations on structural datasets
- Combined 3D visualization of BOLD activations and white matter fiber tracts from Diffusion Tensor Imaging studies
- Interactive thresholding of statistical maps
- Automated coregistration of functional and structural datasets
- Minimal user interaction or full user specification of all parameters
- Ability to save statistical maps, 3D snapshots or animations to various file formats and/or to PACS
- Export results to neuronavigation systems
- Generation of customizable exam report