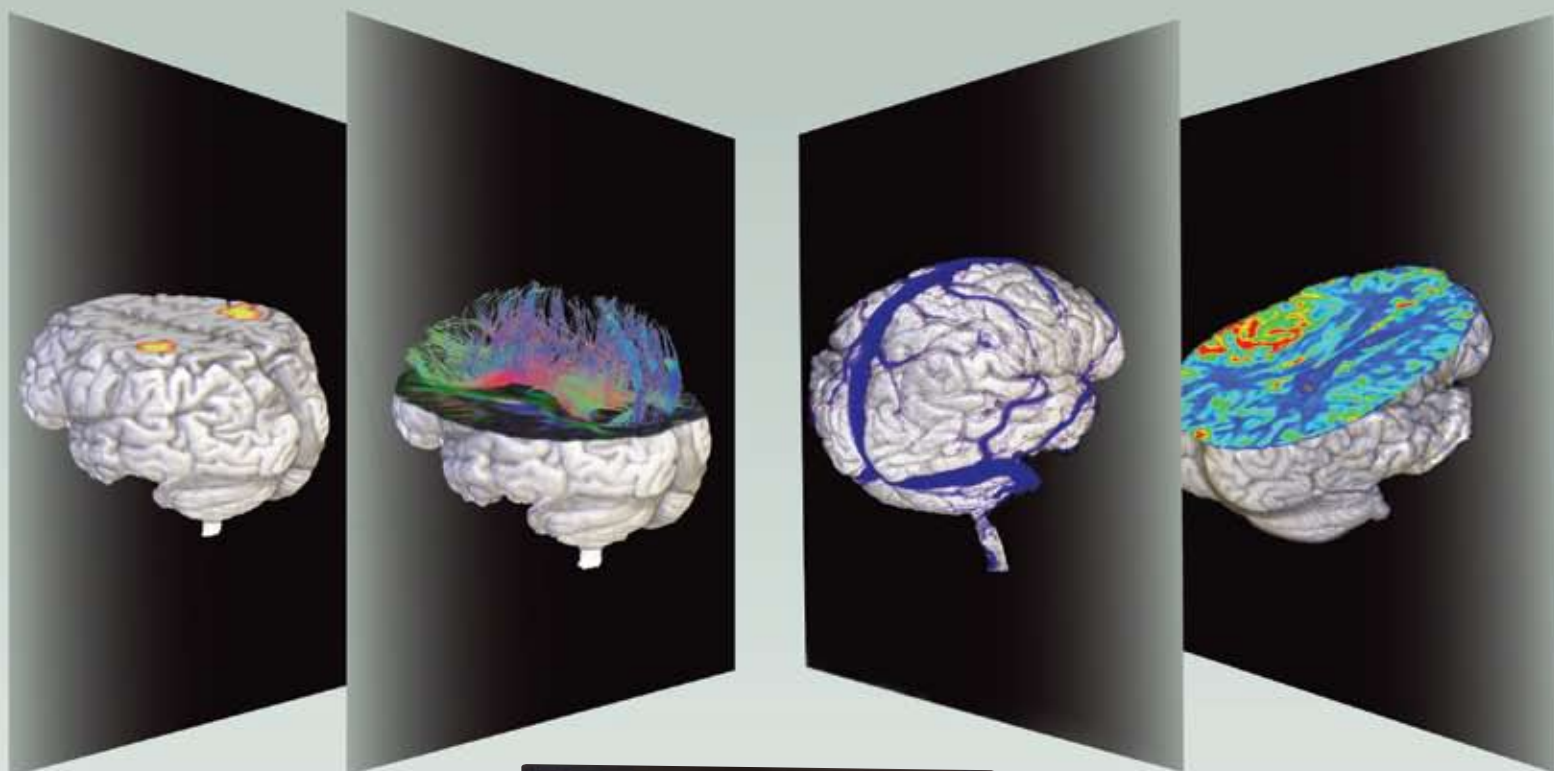# DynaSuite neuro

## The Advanced Neuro MR Processing & Visualization Solution



Invivo

# Optimized Workflow

Automated Processing Provides Answers Faster and More Efficiently

The **DynaSuite Neuro** Workstation is a high performance advanced MR Neuro solution for rapid and repeatable diagnosis of MR Neuro images.  DynaSuite Neuro has  simplified time-intensive MR Neuro diagnostic analysis into a powerful, easy to use system for clinical use.

DynaSuite Neuro contains a collection of advanced MR techniques – diffusion, fiber tracking, perfusion analysis, fMRI, and vessel analysis.  Data can be easily fused to any anatomical image in both 2D and 3D views, providing answers faster and more efficiently.

DynaSuite Neuro is DICOM compatible and automatically processes all data from major MRI systems. To improve your diagnostic confidence and workflow, a comprehensive set of automatic image processing tools and layouts are available and easily configured for physician preference.  Reports and Result Series may be sent in DICOM format to PACS, Computer Assisted Surgery, and Treatment Planning systems.

**Fully Integrated with ESys, Eloquence, and IFIS fMRI aquisition systems from Invivo and third party solutions.**

# Smart Viewing

Unlocking Possibilities with More Comprehensive Reviews
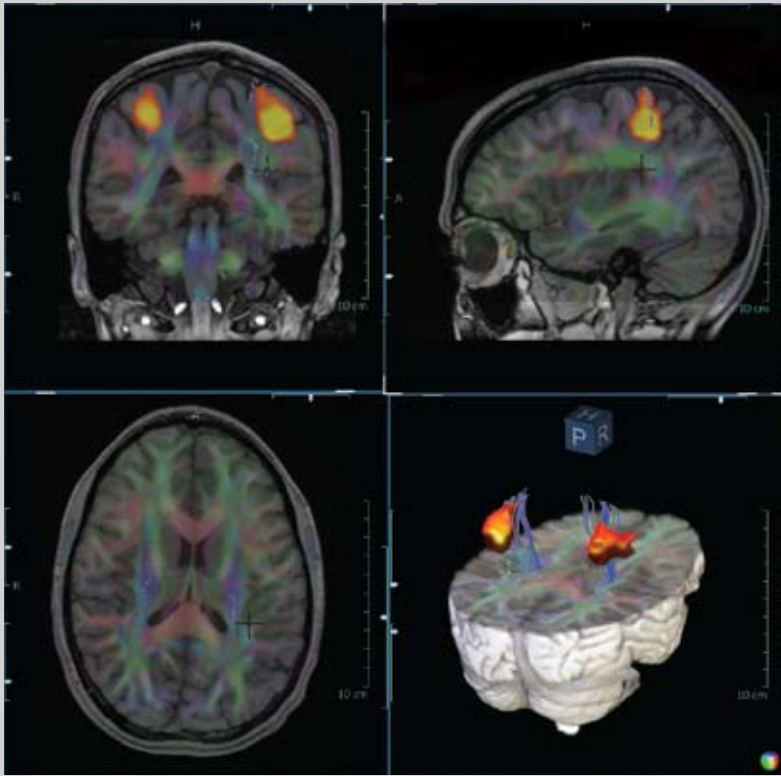


## SmartFusion

- Complete advanced neurological assessment in one integrated display
- Interactive 3D model with adjustable thresholds and transparency levels
- Fusion of any dataset for more flexible review options
- Adjustable thresholds for fMRI, perfusion and vessel analysis
- Versatile options for tracking fibers

## Custom layouts provide in-depth analysis tools

### fMRI Review

- Multiple fMRI studies displayed at once
- Use any anatomic dataset as underlay
- EPI underlay provides reassurance of data integrity
- Activation time course graphs for user defined ROIs
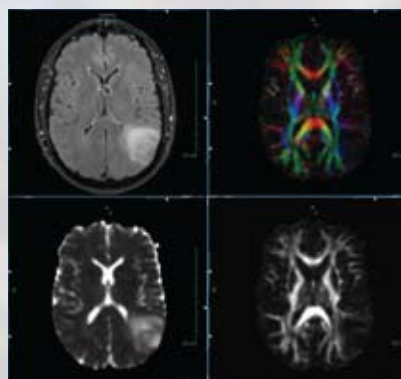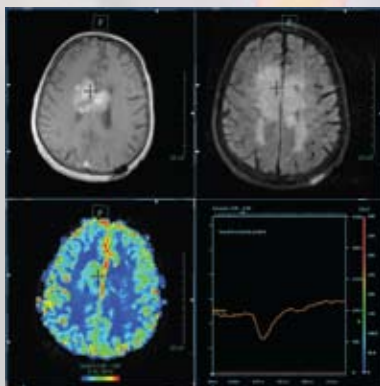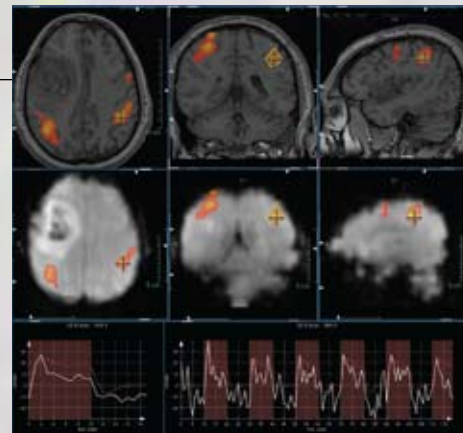




### Perfusion/Diffusion Review

- Image synchronization streamlines viewing
- Quantitative measurements and Curve analysis are available for comprehensive review

# SmartCheck

Quality Checks if You Need Them!



**DynaSuite Neuro** offers comprehensive quality checks with its unique SmartCheck portfolio. DynaSuite Neuro algorithms optimize your neuro information providing automated motion correction and registration of all datasets to the highest resolution images.

In addition, it provides visual inspection of fMRI, and adjustment of 3D vessels, 3D cortex surface rendering and fiber tracking noise minimization. SmartCheck gives the physician confidence in data integrity and is especially useful for clinicians new to advanced neuro techniques. No special processing required.

## Auto Registration

- Automatically registers all data sets to the highest resolution images
- For difficult cases, additional fast translation and rotation in x, y, z directions are easily achieved
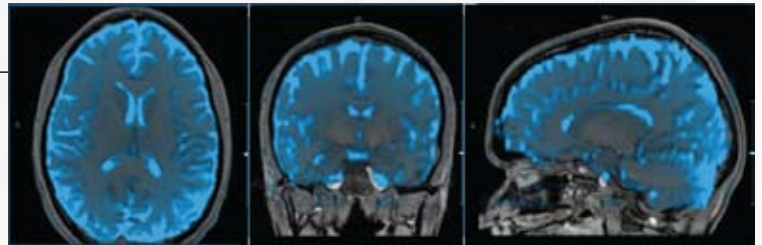


## fMRI QC

- Automatic motion correction is performed
- Cine loop review to verify data integrity
- Artifact assessment tools are available
- Graphical and numerical presentation of original and motion corrected data
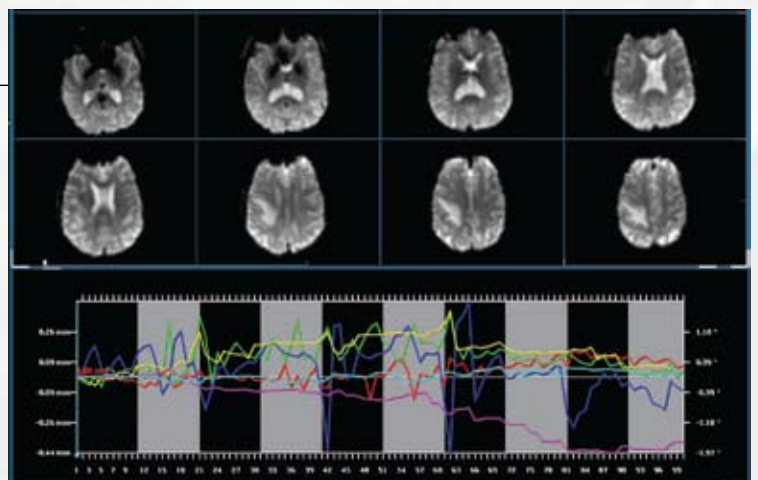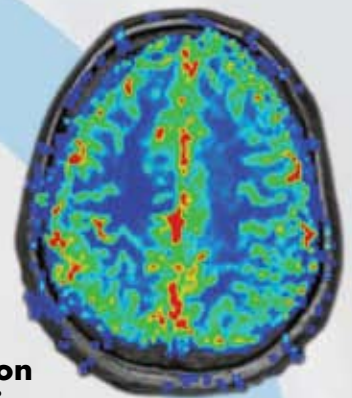
# Total Integration

Bringing ALL Your Neuro MR Data into ONE Review Workstation

**fMRI Analysis** displays optimized activation maps based on user specified paradigms
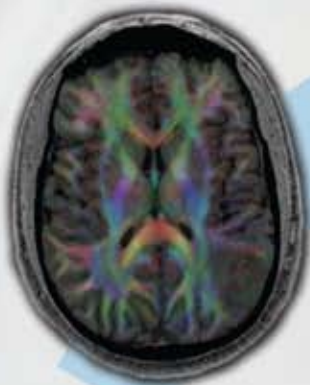
**Diffusion** FA,ADC, and DTI color maps
**Fiber Tracking** with robust subvoxel calculation

**Perfusion Analysis** calculates rCBV, rCBF, MTT, TTP

**3D Vessels** offers valuable landmarks for Neurosurgeons

**Reporting** provides diagnostic results compatible with PACS
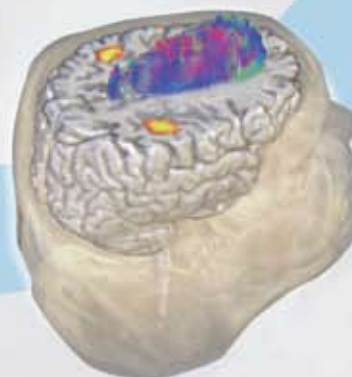
**SmartFusion** fuses all the image data into one convenient interactive model
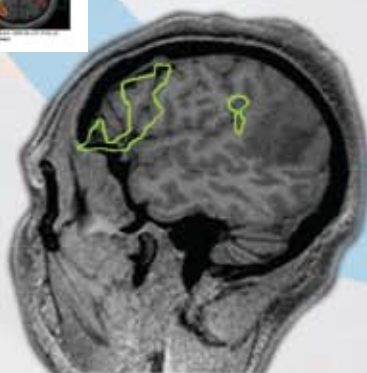
**DICOM Export** to Treatment Planning & CAS systems

# DynaSuite Neuro

**DynaSuite Neuro is a comprehensive solution providing world class analysis, workflow, and fusion of MR images.**



## Invivo