

# NEUROLOGY



OLEA SPHERE

OPTIMIZED READING AND INTERPRETATION  
SUPPORT SOLUTIONS FOR ADULT  
AND PEDIATRIC BRAIN IMAGING

MRI



CE 0459

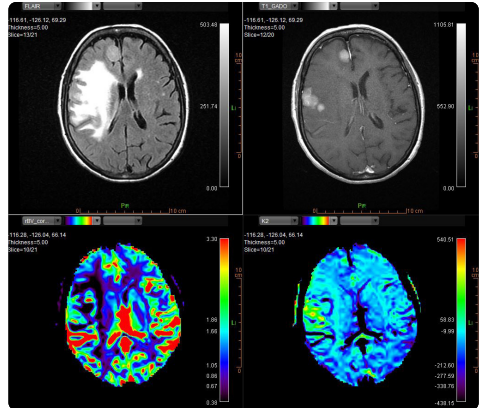


MULTIVENDOR



## QUICK ACCESS TO QUANTITATIVE AND QUALITATIVE INFORMATION

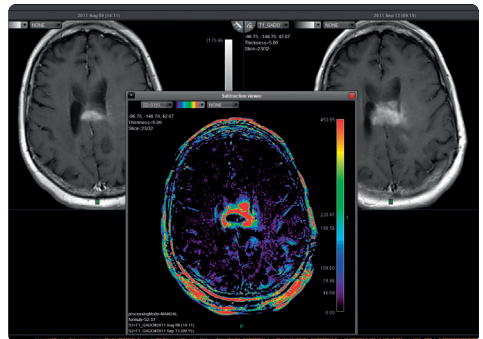
- ✔ Computation of diffusion and perfusion maps (including  $rBV^{\text{corrected}}$  and  $K_2$ )
- ✔ Configurable display of multiparametric maps
- ✔ Fusion of parametric maps and conventional images



## LONGITUDINAL ANALYSIS

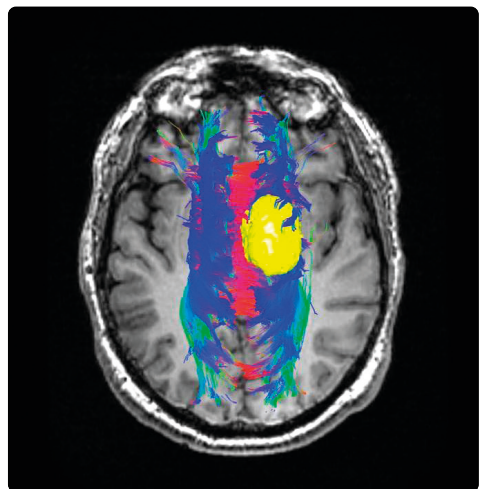
### Examples of clinical applications: MS, brain tumors...

- ✔ Recalibration for optimal analysis
- ✔ Quantitative and qualitative follow-up of the evolution of volumes of interest
  - ✔ Temporal subtraction of volumes of interest



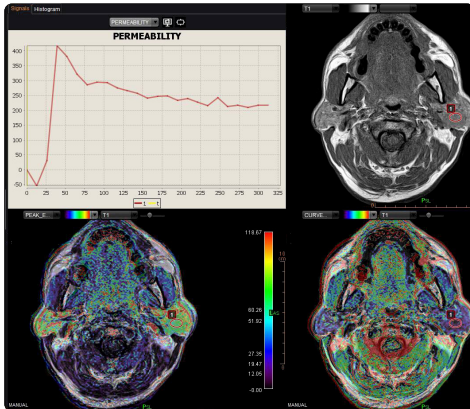
## TRACTOGRAPHY (DTI) AND FMRI

- ✔ Fusion of conventional images and tractography fibers
- ✔ Quantitative diffusion maps
  - ✔ Compatible with neuronavigation systems
  - ✔ Tractography considering the crossing fibers (research only)
- ✔ Highlighting of potential results such as: motion detection, laterality index and BOLD signal



## HEAD & NECK

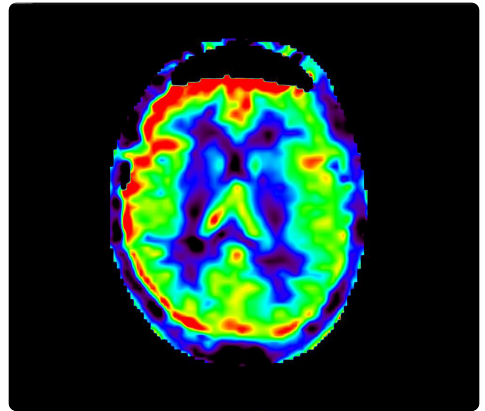
- ✓ ADC maps
- ✓ Automatic analysis of kinetic curves enhancement
- ✓ Quantitative permeability maps
- ✓ Contrast washout: specific to head & neck pathologies threshold



## ASL

**Examples of clinical applications:**  
pediatrics, renal contraindication,  
epilepsy, dementia...

- ✓ Non-invasive perfusion imaging assessing blood flow without contrast agent injection
- ✓ PASL and pCASL data processing



## KEY FEATURES

- Computation of perfusion T2\* (DSC) maps
- Computation of perfusion T1(DCE) maps
- Computation of ADC map (diffusion)
- Tractography (DTI) & functional MRI (fMRI)
- Computation of volumes of interest
- Temporal subtraction
- Image fusion
- ASL

## THEY TRUST US



# OLEA MEDICAL®

Our ambition is to innovate and push the boundaries of medical imaging to help preserve life.

Olea Medical® offers an advanced solution for the post-processing of MRI and CT images. Olea Sphere® v3.0 allows the visualization, processing and analysis of medical images. Our solution assists practitioners in their analysis of numerous conditions by providing instantaneous multi-parametric maps to deliver quantitative and qualitative data.

Today, our technology is used by hundreds of reference sites around the world in both clinical and research use.

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## OLEA MEDICAL®

ZI Athelia IV - 93, avenue des Sorbiers  
13600 La Ciotat - FRANCE  
PH +33 4 42 71 24 20 - FAX +33 4 42 71 24 27

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Europe: medical device Class IIa - CE 0459  
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FOR LIFE**