Olea Sphere® MR Brain Tumors applications were designed for the detection, characterization and grading of brain tumors. These applications provide instantaneous diffusion and perfusion (DSC/DCE) maps computation and direct access to quantitative and qualitative multiparametric analyses, with brain tumor specific display.

- Instant quantitative & qualitative multiparametric analysis

- Mono or multimodalities longitudinal analysis: to follow lesions progression with temporal subtraction

"Ready-to-use perfusion imaging for clinical routine"
DTI / Tractography
3D reconstruction of neural tracts

ASL: measurement of blood flow without contrast agent injection

“Post-processing time per study decreased by 10x”
Tested & trusted solution

Clinical impact of bayesian method
“By using Olea Sphere®, I take advantage of inherent noise-resistant nature of Bayesian deconvolution to accomplish both DCE and DSC perfusion using a routine 0.01 mmol/kg of Gadolinium contrast.”

Automated workflows
“I really enjoy the automated workflow and ability to create my own algorithm that fits my diagnostic approach in interpretation of advanced brain tumor imaging. By using this automated workflow DCE, DSC and diffusion will be automatically processed and subsequently coregistered with conventional imaging such as FLAIR and T1-post-contrast images and will be available for me in the analysis module for final analysis and interpretation.”

User friendliness and accuracy
“Ease and accuracy of this process is excellent and what it makes “advanced image processing” feasible and a reality in our extremely busy clinical schedule.”
Kambiz Nael, M.D, Icahn School of Medicine at Mount Sinai, New York, NY, USA

Powerful perfusion imaging
“The quantitative and qualitative perfusion analysis including regional histogram and multiparametric permeability analyses offer complementary information on the intrinsic properties of brain tumors in order to narrow down the differential diagnosis of brain tumors. They further may accomplish the diagnostic attempts in separating a recurrent tumor and therapy-associated tissue changes. e.g. after radiation and/or chemotherapy. Beyond DSC and DCE perfusion MRI, the ASL plug-in allows adaptive quantitative blood flow computation that can be employed in patients with contraindications to Gadolinium applications in stroke and brain tumors and offers a great potential in identifying regional patterns of hyperperfusion related to reduced metabolic activity in neurodegenerative disorders.”
Prof. Dr. med. Roland Wiest, Stv. Chefarzt University Hospital, Bern, Switzerland

The biggest impact we’ve felt is again the use of maps that only Olea Sphere® can provide, i.e. permeability in the application of perfusion in brain tumours. We’ve had very positive feedback from our neurosurgeons, who have used the new data for their patients’ diagnosis and treatment.”
Dr Raphaëlle Souillard Scemama, Sainte-Anne Hospital Centre, Paris, France

*Olea Sphere® v3.0, medical imaging post-processing software, is a medical device manufactured and marketed by Olea Medical*. This medical device is reserved for health professionals. This software program has been designed and manufactured according to the EN ISO 13485 quality management system. Read the instructions in the notice carefully before any use. Instructions for Use are available on [http://www.olea-medical.com/en/](http://www.olea-medical.com/en/)
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**Study from E. Knopp, MD, Zwanger-Pesiri, New York, USA**