Clinical Speciality
Neuro-vascular Imaging

STROKE APPLICATIONS
Recognized expert in medical imaging, Olea Medical® gathered a large advisory panel's expectations on stroke to further improve Olea Sphere® MR & CT acute care stroke applications. Whatever the degree of emergency, these applications now provide radiologists with direct access to stroke report in no time.

- Instant volumetric estimation of infarct, penumbra & mismatch ratio

- Multiple volumes automatic computation

"Unique dynamic thresholding perfusion maps to visually assess hypoperfused area"
Automated & customizable stroke report

Bayesian method: contrast-dose reduction**

- Qualitative & quantitative results comparable with full-dose protocol ones
- Reduction of contrast agent related risk for patients
- Reduction of overall health care costs

Half dose
0.05 mmol/kg of Gadolinium

Full dose
0.1 mmol/kg of Gadolinium
Enhanced confidence & productivity with Olea Pulse®

**Olea Pulse®**

- Reproducibility
  - Standardized operator independent results & reporting
- Productivity
  - Enhanced patient flow
- Flexibility
  - 24/7 instant access

**ADD-ON SERVICE***

- DataFlow Monitoring
- Automatic email reporting
- Automatic push back to PACS
Automation & transparency

Olea Pulse® is not a black box. Users have full access to the full set of post-processing options, parameters, maps & metrics, anywhere, anytime.

Tested & trusted solution

- Cutting edge perfusion analysis
  "The current version of Olea Sphere® (v3.0) encompasses several additive modules for in-depth contrast-enhanced and non-contrast perfusion analysis that may provide complementary information about the pathologically altered vasculature in the most relevant disorders of the human brain. Beyond tissue at risk estimation in acute stroke and separation of the ischemic penumbra from benign oligemia, regional perfusion analysis is frequently employed in patients with vasospasms after subarachnoid hemorrhage in order to identify critically ill-perfused tissue with cortical TTP asymmetries exceeding 2 sec. It may further aid to the differential diagnosis of other causes of regional hyperperfusion (e.g. non-convulsive status epilepticus or infections) and hypoperfusion (e.g. postictal conditions or spreading depression in migraine)."
  Roland Wiest, MD, PhD, University Hospital of Bern, Bern, Switzerland

- Reporting around the clock
  "It is completely automatic, it is 7 on 7 and 24 hours a day: so we are a lot faster. So the advantage is that, in our large group, radiologists do not have to wake up, do not have to come to the hospital anymore, so it is completely automatic and we can see it offline, we can see it at home and make the report from home. And that is something that is not possible with the other vendors."
  Patrick Seynaeve, MD, AZ Groeninge Hospital, Kortrijk, Belgium

- Speed
  "For stroke, it doesn’t make sense for software to take another 10 minutes for post-processing; with Olea Sphere, it is basically 1 min."
  Kambiz Nael, MD, Icahn School of Medicine at Mount Sinai, New York, USA
References


