

Stroke

diagnosis suite

V.2



Advanced **4D visualization software and analysis** for patient triage and management of acute stroke

FAST: Triage patients case with unparalleled speed

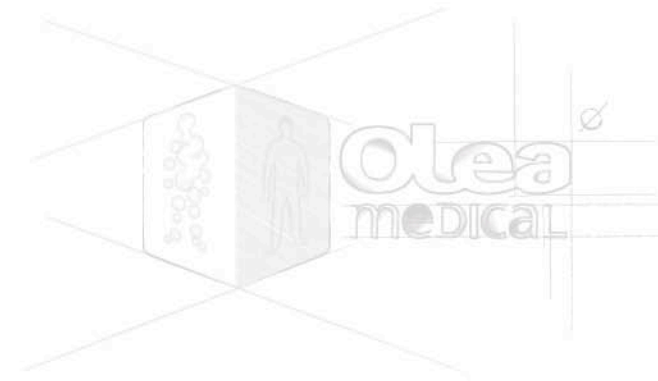
- Treatment decision **in less than 1 minute**
- **Instant mapping** on all slices
- **Real-time recalculation** of all parameters for each adjustment
- **Less clicks to optimised workflow** from import to export

INTUITIVE: User-friendly & customizable interface

- **Automatic** analysis
- **Predefined intuitive** interface fully customizable to match user preferences
- Easy-to-use analysis tools with single dashboard displaying simultaneously all series
- **Control and traceability:** Save and export study and images, to any PACS and/or to any file system

ACCURATE: Reliable and reproducible

- Automatic **rescalling of all the series** allowing precise comparison at the same level
- **Unparalleled image quality**, independent from CT or MRI vendor
- Accurate visualization and quantification of **infarct volume, penumbra volume and mismatch ratio**
- Combined **2D/3D/4D visualization** and **3D reconstruction**
- Efficient **follow-up** for treatment response



PERFSCAPETM + NEUROSCAPETM

STROKE Diagnosis Suite



PERFSCAPE™

Perfusion **computation tool**

Workflow*
and
time logs



00.00 s

Case selection
from the data
management
window

05.00 s

RAW data loaded
on the software

10.00 s

Manual or automatic
selection of **AIF**
with simultaneous
real-time computation
of perfusion maps

15.00 s

Switch
to **conventional**
images and
perfusion maps
to perform analysis

NEUROSCAPE™

Image optimization, quantification and **analysis tool**

20.00 s

Visual mismatch

40.00 s

Quantification
of lesion volume,
hypoperfused volume
& mismatch ratio

45.00 s

Treatment
decision

60.00 s

Full study
and structured report
(DICOM/PDF) to PACS

Key
Features



- Automatic or semi-automatic AIF selection **without limitation**
- Perfusion & Diffusion maps (ADC, TMAX, rCBF, rCBV, MTT, TTP)
- **Automatic** motion correction and **background segmentation**
- **2 deconvolution methods** sSVD & cSVD (delay-insensitive)

- Emergency key parameters displayed in a **multiparametric dashboard** to make the treatment decision in **less than 1 minute**
- **3D Pointer** to simultaneously isolate the same pixel on all maps/series
- **Mismatch ratio** based on perfusion and diffusion maps
- **No limitation** in number of ROIs comparison to normal tissue
- Possible visualization of **VOF**
- **Automatic synchronization** between series for zoom and movement functionalities

Additional
Features



- **Follow-up tool:** Quantitative management of therapy response with automatic recognition of available studies for the same patient
- **Mini PACS:** Our cost-effective mini-PACS gives immediate access to images and patient information. This service permits to locally receive and store DICOM studies from any modality and can be shared between many workstations or in a stand-alone configuration
- **DWI tool:** Computation of parametric maps with dedicated color palette: Isotropic maps, ADC, eADC
- **DTI tool:** Computation of color DTI, FA, volume ratio, trace W, RA

improved diagnosis for life™

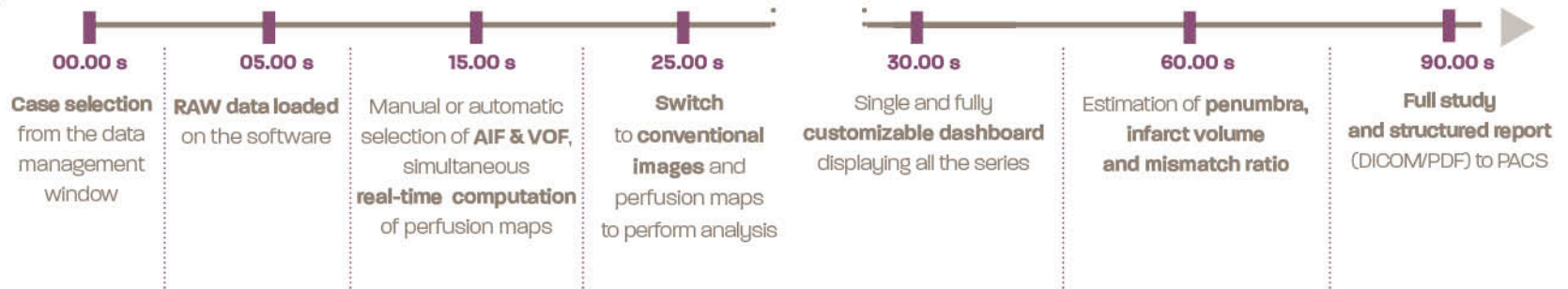
STROKE Diagnosis Suite



PERFSCAPE™ Perfusion **computation** tool

NEUROSCAPE™ Image optimization and **analysis** tool

Workflow*
and
time logs



Key
Features



- Automatic or semi-automatic AIF and VOF selection **without limitation**
- **Perfusion maps** (Tmax, CBF, CBV, MTT, TTP), **tMIP**
- **Automatic** motion correction and **background segmentation** (CSF and large vessels)
- **2 deconvolution methods** sSVD & cSVD (delay-insensitive)

- **Customizable quantification** of infarct core, penumbra and mismatch ratio
- **Automatic synchronization** between series for zoom and movement functionalities
- **No limitation** in number of ROIs comparison to normal tissue
- Possible utilization of tMIP for visualization of large vessels
- **3D Pointer** to simultaneously isolate the same pixel on all maps/series

Additional
Features



- **Follow-up tool:** - Quantitative evolution management tool
- Longitudinal follow-up of non-contrast CT and perfusion series
- **Mini PACS:** Our cost-effective mini-PACS gives immediate access to images and patient information. This service permits to locally receive and store DICOM studies from any modality and can be shared between many workstations or in a stand-alone configuration

* Indicative time depending on acquisition characteristics (total number of images, length, resolution...)

Stroke

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Standard Advanced Standard Advanced

	MR		CT	
	Standard	Advanced	Standard	Advanced
Post-processing modules	CONVENTIONAL	X	X	X
	PWI / DSC	X	X	
	CTP			X
	DWI	X	X	
	AUTOMATIC 3D COREGISTRATION		X	X
	AUTOMATIC MOTION CORRECTION		X	X
Analysis modules	ROI & STATISTICS	X	X	X
	CORE/PENUMBRA VOLUME ESTIMATION	X	X	X
	FOLLOW-UP WITH AUTOMATIC REGISTRATION		X	X
	3D-VIEW	X	X	X
Storage modules	FULL DICOM INTEROPERABILITY	X	X	X
	STRUCTURED REPORT AND IMAGES TO PACS	X	X	X
	STRUCTURED REPORT AND IMAGES TO FILE SYSTEM (PDF -DICOM/PNG)	X	X	X
	ROI STATISTICS (CSV) TO FILE SYSTEM		X	X



Olea Medical offers the opportunity to have 1 to 5 years of **services** and **maintenance** including:



Complete installation and configuration of our solutions for an integrated workflow



On & off line presentation of our solutions



Remote end-user support available 24/7 at: support@olea-medical.com



Minor and/or major upgrades



Olea
medical

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