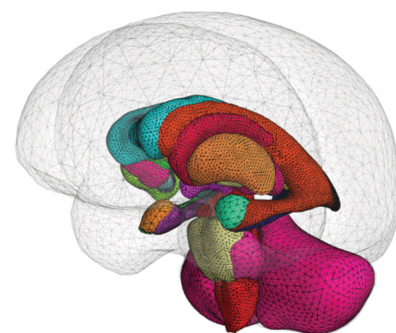*Automating the process of identifying, labeling, and quantifying the volume and shape of brain structures visible in MRI images*

ClearPoint Maestro™ Brain Model

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ClearPoint Maestro™ Brain Model

The ClearPoint Maestro™ Brain Model is an anatomical segmentation analysis tool that has been developed with ClearPoint Neuro's partner, Philips.

The software is intended to automate the process of identifying, labelling, and quantifying the volume and shape of brain structures visible in MRI images. The unique methodology of the ClearPoint Maestro™ Brain Model combines deformable surfaces with active shape models and machine learning.

Load DICOM	Start Segmentation	Verify Segmentation	Export Results

Load DICOM
- ➤ Trained on T1-weighted MRI (3DTFE, MPRAGE, FSPGR)
- ➤ Approved on Philips, Siemens, GE
- ➤ 1.5T and 3T

Start Segmentation
- ➤ Identifies and labels brain regions
- ➤ Defines boundaries of brain regions with shape detection
- ➤ Parcellates cerebral hemispheres into tissue types

Verify Segmentation
- ➤ Quantifies volumes of brain regions
- ➤ Estimates shape boundaries of brain regions

Export Results
- ➤ Report: Volumes (cm³) and charts with normative values
- ➤ Mesh: Segmentation results saved as triangular meshes
- ➤ DICOM: Segmentation saved as bitmask in DICOM format

Automated identification for brain regions of interest

Establish correspondence across different subjects

Compatible wih Philips, Siemens, and GE 1.5T/3T MRI Scanners

≫ Estimate therapy coverage and anatomical safety zones

≫ Identify patient-specific volumes of interest

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