

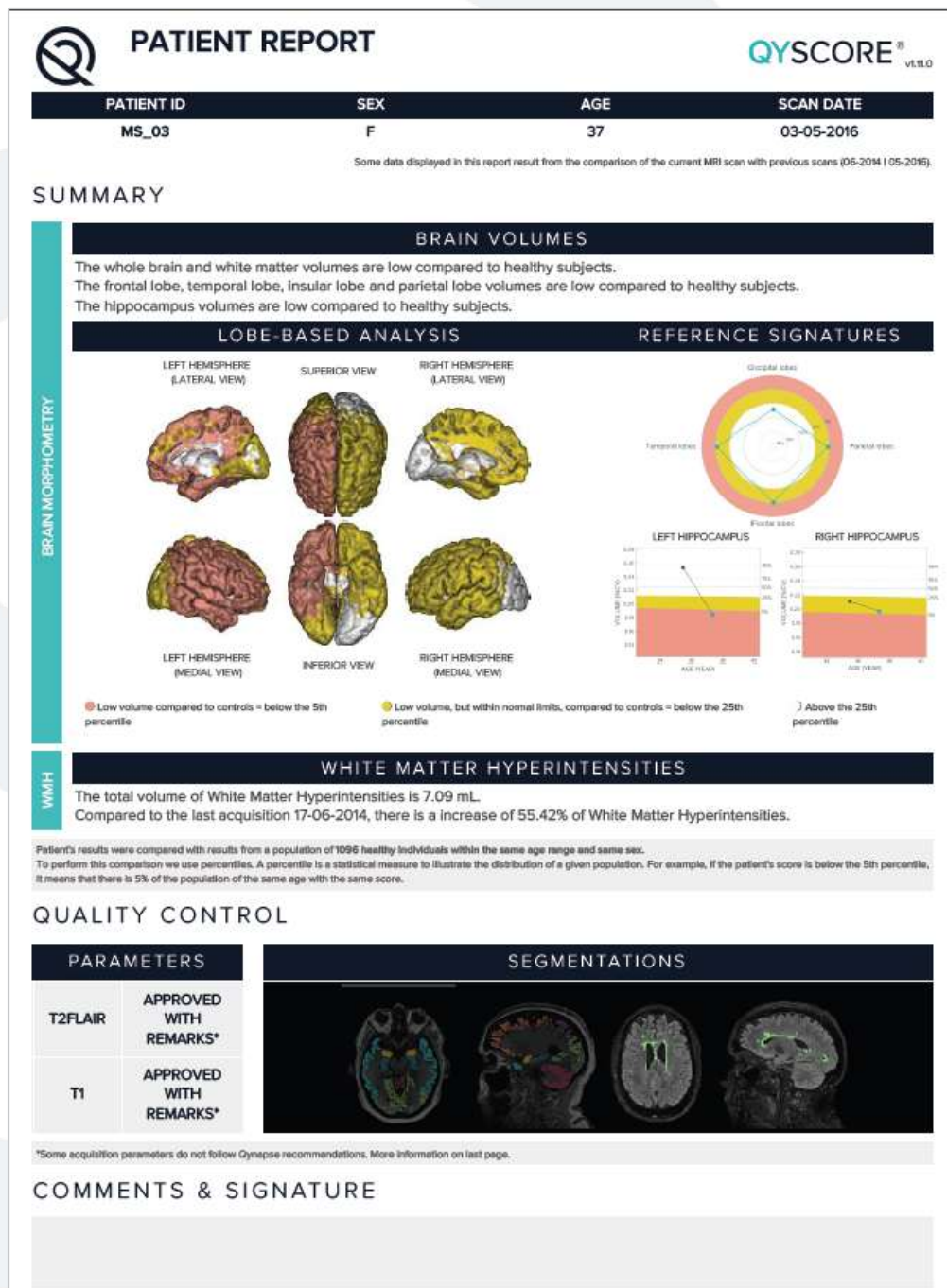
QyScore® is an artificial intelligence software that allows automated, reliable and reproducible calculation of several Neuroimaging parameters:

- Volumetric measurements of the **brain, lobes**, of anatomic zones of interest such as **hippocampus** and **amygdala**
- Results are compared to a **normative data base** to determine the level of atrophy and evaluate its severity
- Volumetric and spatial measurements of **white matter hyperintensity signals**
- **Longitudinal follow up** to quantify atrophy and white matter lesions progression over successive scans.

INDICATIONS:

- ❑ Cognitive decline evaluation, Alzheimer's disease and other dementia
- ❑ Demyelinating disorders such as multiple sclerosis or neurodegenerative disorders
- ❑ Other neurodegenerative disorders (Parkinson's disease)

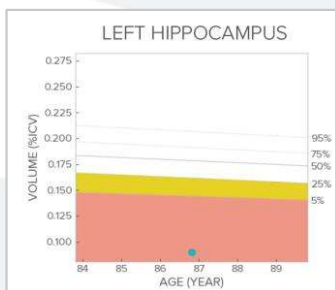
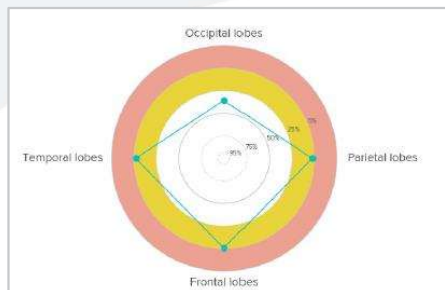
QYSCORE® REPORT IN BRIEF – [MILD COGNITIVE IMPAIRMENT]



RESULTS, SCORES AND NORMATIVE DATA BASE – EXPLANATIONS

Interpret results as PERCENTILES

Percentiles are used to illustrate how to position a patient when compared to a **control population (healthy subjects, same age category, same sex)**, from the normative data base. For example, for a patient in the 25th percentile, it means that 25% of patients from the data base (same age, same sex) have a volume identical or inferior, and that 75% of individuals have a volume superior to the examined patient.



Between the **5th and 25th percentile**, the measure corresponds to a moderate atrophy, but within the norm.

Below the **5th percentile**, the measure of atrophy is considered as **abnormally low** compared to the reference population.

Interpret results as Z-SCORES

The Z-score is shown as **standard deviation** units (SD) compared to the average value of the **control population** in the same age and sex category. A low Z-score, for example below the threshold of -2, reflects an abnormally low measure, or less than 3% of the population is considered to have a smaller volume.

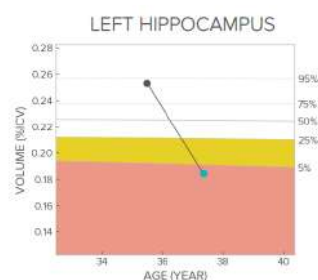
| | LEFT |
|----------------------|---------------------|
| VOLUME | 0.18 %ICV (2.41 ML) |
| VOLUME NORMAL RANGE* | 0.19 - 0.26 %ICV |
| Z-SCORE | -2.18 |

*Example: hippocampal normal volume is between 0.19 and 0.26 % of total intracranial volume (ICV). The patient's left hippocampal volume is 2.41 ml i.e. 0.18% of ICV, which corresponds to a **standard deviation of -2.18 SD (Z-Score = -2.18)** compared to the **average value of the reference population** from the same age class*

Understand the REFERENCE DATA BASE (normative data base of healthy subjects)

QyScore® results (percentiles and z-scores) are generated in comparison with a normative data base of **2000 healthy individuals** with a **diversity of geography, sex** and covering ages between **20 and 90 years old**. **Median age** of the normative data base being 62 years old, younger patients are compared to smaller groups.

Interpret LONGITUDINAL ANALYSIS



VOLUME CHANGE** -27.1%

longitudinal Analysis : When successive patient's scans are available, the software automatically delivers results of analyzed parameters (as many data points as there are available time points will be visible on the graph). Results are also shown as % volume change.

QYNAPSE

www.qynapse.com

QyScore® is a medical device software FDA-cleared – class II and CE-marked – class IIa.

Indications for Use in the U.S. (FDA): QyScore® is intended for automatic labeling, visualization and volumetric quantification of segmentable brain structures and lesions from a set of MR images. Volumetric data may be compared to reference percentile data. QyScore® is not intended for use in clinical scenarios that require evaluation of the number of the white matter hyperintensities.

Indications for Use in Europe (CE): QyScore® is an advanced processing and visualization software for automatic labeling and volumetric quantification of segmented central nervous system structures for patients older than 18 years of age. The software is intended to be used by medical personnel or neuroimaging trained personnel to support diagnosis of central nervous system diseases.