AI-Rad Companion Brain MR for morphometry analysis

SIEMENS Healthineers

Brain morphometry to aid the interpretation of MR brain studies

Help for today's challenges

A manual morphometry analysis of the brain is a difficult and time-consuming task. Deciphering and quantifying atrophy often ends up a "best guess." AI-Rad Companion Brain MR saves radiologists' time by automatically segmenting, measuring volumes, and highlighting over 30 different regions of the brain. To further support the interpretation, AI-Rad Companion compares the different volumes to a normative database and automatically generates a highlighted deviation map based on user settings, so volumetric changes can be monitored manually. Automatic tissue volumes extraction and classification are then provided in a result table with all relevant information at the radiologist's fingertips.

Quantitative volumetry of critical brain structures to aid in the interpretation process

AI-Rad Companion Brain MR helps clinicians to view, analyze, and evaluate MR brain images. It provides automatic segmentation and quantitative analysis of individual brain structures as well as a quantitative comparison of each brain structure with normative data from a healthy population.

Results for reporting include all numerical values as well as a visualization

AI-Rad Companion Brain MR provides an automatic quantification and visual assessment of the volumetric properties of various brain structures based on T1 MPRAGE datasets. These datasets are acquired as part of a typical head MR acquisition. From a predefined list of 30 structures (including hippocampus, caudate, and left frontal grey matter), volumetric properties are calculated as absolute and normalized volumes with respect to the total intercranial volume. The normalized values for each patient are compared to age-matched mean and standard deviations obtained from a population of healthy reference subjects.

Purchasing options

AI-Rad Companion is available as a trial license for 90 days. After the 90-day trial the customer can purchase AI-Rad Companion using our subscription-based software as a service (SaaS) model. Installation and use of the teamplay digital health platform is a prerequisite for using AI-Rad Companion.

Next steps

↗ Contact us for more details or ↗ request a trial.

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