



CASE STUDY

Co-development of Digital RANO Tumor Segmentation Tool and Execution of the Brain Matrix Consortium Study with the University of Edinburgh



THE UNIVERSITY of EDINBURGH

Overview

The Brain-Matrix consortium is running a series of clinical trials on glioma. The University of Edinburgh leads imaging aspects of the study, and developed a digital Response Assessment in Neuro-Oncology (RANO) tool in partnership with QMENTA.

The Challenge

Efficiently manage a 4-year study over 10 sites, reaching a total of approximately 1500 patients with 30 to 40 patients per year from each site.

Co-develop and deploy a new digital RANO brain tumor segmentation tool longitudinally to provide volumes of tumor sub-regions for therapeutic response assessment and comparison with standard RANO provision.

Results

Study data collated, classified, analyzed and stored on the QMENTA platform, including the development of an industry-first digital RANO tool.

www.qmenta.com

sales@qmenta.com



“The great appeal of working with QMENTA was a collaboration which would bring together their expertise in image analysis and cloud-based platforms and infrastructure with our own interests and expertise in quantitative imaging analysis”

–Professor Adam Waldman, Chair of Neuroradiology, University of Edinburgh

The AI-powered **QMENTA** platform delivering data management and quantitative analysis using a cloud-based workflow and digital RANO to evaluate 1500 patients for the progression of glioma brain tumors.



Images are directly uploaded to the QMENTA cloud platform where they are de-identified, automatically recognized and classified. Data are standardized and integrated to make be highly usable and meaningful for use in traditional and advanced AI analysis.



Processing and storage of 1500 patient study data.



Quantitative analysis with digital RANO Brain-Tumor Segmentation Tool developed by QMENTA and Edinburgh neuroscientists.



Download of subjects results in CSV format for statistical analysis.

Results



Faster, higher quality, digital RANO criteria analysis



Multi-modal data aggregation and integration



Highest data protection and compliance