The QIPCM advanced Imaging Core Lab is an integral part of TECHNA, a health technology productization institute at UHN. There are currently over 71 projects on the QIPCM platform transferring images from over 65 hospitals and research institutions around the world. QIPCM is continuously engaged in clinical imaging research and standardization initiatives. QIPCM is an active member of the NIH's Quantitative Imaging Network (QIN)

OUR SERVICES **INCLUDE**

QIPCM-**PIPELINES**

Help simplify the workflow for de-identification, transfer and centralized image collection from centers around the world. A high-speed and customizable computing platform is available to securely review the images from anywhere in the world. Remote image review and access is possible through two options: (a) Virtual desktop infrastructure through VMware. This technology enables trial investigators globally to remotely access the central image repository and perform image analysis using the existing tools or by installation of additional tools. (b) Image access via Web based DICOM viewer. The viewer is based upon the open source viewer OHIF with additional functionality provided by the QIPCM team. Central image review and analysis for global investigators is possible through this option as well. All image data remains within the QIPCM/UHN network with both options.

QIPCM-**AI SANDBOX**

Provides a sandbox for academic researchers, industry and start-ups interested in pursuing AIrelated research and enables collaboration between industry and academic institutions. The QIPCM platform provides a supportive framework for the development, testing and validation of algorithms designed to solve problems in the domain of medical imaging using machine learning techniques. Large size datasets can be ingested into the QIPCM platform along with other accompanying information such as labels and contours. The sandbox adheres to privacy and security regulations and allows the data sponsor to provide or revoke access as needed.

QIPCM-**RT**

Enables centralized radiotherapy plan review.

QIPCM-**RADIOMICS**

Using the radiomics support tool MIRA QIPCM can extract a wide variety of radiomics features. Developed at the Princess Margaret Cancer Centre, MIRA is a suite of software tools to simplify processes in radiation oncology and medical imaging studies through a pipeline which integrates different software such as RT planning, radiomics feature extraction and other similar software. It facilitates data curation across different imaging databases as well as meta-data extraction.

IMAGING PROTOCOL **DEVELOPMENT SUPPORT**

Is available to provide consultation to study investigators in the development of imaging protocols to ensure a study collects images in an optimal way. We have expertise and experience in dealing with the challenges of multi-site clinical trials and trials involving multiple scanners.

IMAGE ANALYSIS **AND RESEARCH SUPPORT**

QIPCM's team of imaging experts can assist studies in a quantitative image analysis as well as custom tool development.

CONTACT

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