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Medical Imaging Scientists Obtain Revolutionary Data Platform

Total-Body PET Scanner Community Platform Unites Imaging specialists, Provides Collaborative Space to Solve Critical Health Issues

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(Sacramento, CA – June 20, 2023) The University of California, Davis Health Department of Radiology has partnered with Amazon Web Services to develop an online community for medical imaging scientists from around the globe to collaborate on unlocking the power of Total-Body (TB) PET imaging data. The system – titled Scanverse360 – serves as a space where current and aspiring users of Total-Body PET scanners can access, search for, and communicate about data and tools within the field as well as crowdsource new ideas on how to further obtain insights from the data.

Until today, the world's community of TB PET imaging professionals has been small and disparate. Although many of them frequently encounter common issues associated with the technology, they have lacked a centralized platform to collaborate on, contribute to, and discuss them. These challenges – which center around issues like data anonymization, high barriers to entry, and inconsistent international data regulations – make it difficult to standardize TB PET scanner data practices, excite potential users, and capitalize on the valuable PET data to solve long-standing medical questions.

"This online platform represents the first time that the TB PET imaging community has rapid access to the total body PET scan data, or to a platform that empowers them to innovate and collaborate with distant TB PET imaging users and other professionals," said Dr. Ramsey Badawi, Vice-Chair for Research at the UCDH Department of Radiology. Dr. Guobao Wang, Director of Kinetic Modeling Services at the EXPLORER Molecular Imaging Center, added, "This new platform will enable the free exchange of ideas between TB PET scan professionals and allow them to harness their collective power for short-cycling innovation and product development. The insights this community produces will open the door to the powers of this data for the wider medical community and ultimately improve patients' outcomes." Said Dr. Badawi, "We will be promoting health instead of just treating diseases."

We piloted Scanverse360 at the Medical University of Vienna. After logging in, Scanverse360 users are presented with an intuitive interface providing the option to search and filter by specific attributes. The generated results are available for researchers to discuss, build on, and circulate to other community members. Additionally, logged in users have the opportunity to upload their own TB-PET data sets to be shared on the platform.

"For a long time, we have been working in isolation, trying to reinvent the wheel on how to pool data every time a new PET imaging technology entered the field," exclaimed Dr. Beyer, Director of the Quantitative Imaging and Medical Physics (QIMP) Team at the Medical University of Vienna, Austria "That's no longer the case. This ecosystem has the power to unlock the collective brainpower of TB PET scan professionals and excite the larger community of clinical researchers and healthcare professionals about the revolutionary potential of this precious data."

Internal FAQs

- What type of staff would be needed to manage the platform?
- Are there limitations in place for who can contribute to and discuss the data?
- Who is responsible for stewarding the data?
- What type of integrations should be supported for future add-ons?

- What types of roles would be needed for the platform?

External FAQs

- What are total body PET scans?
- How does the EXPLORER differ from other PET systems on the market?
- How is patient experience improved with the total body PET scanner?
- How do I submit data to the platform?
- Will I be able to access other patients' data?
- What kinds of analysis tools are available to me?
- Is this platform free to use?
- Do I have to pay to access other hospitals' or researchers' data?
- Do I need to secure patient approval before submitting their data to the platform?
- How do I retrieve data from the platform?
- Do I need to deidentify my data?
- How do I verify that my data is deidentified according to local privacy laws?
- Can I request that my data be deleted? If so, how so?