

MEDAMI 2017 Abstract

The status of the EXPLORER total body PET scanner programme

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The NIH-funded EXPLORER consortium is developing the world's first total-body PET scanner. Proof-of-concept of the image quality afforded by high sensitivity whole body PET scanning will be demonstrated from pre-clinical mini-EXPLORER studies. The status of the construction of the first human total body PET scanner, due for completion in 2018, will be reported. The projected economical, practical and scientific impact of total body PET scanning in current nuclear medicine practice will be defined, along with the opportunities for transformative applications in experimental medicine. How improvements in detector performance could further advance total body PET scanning will also be discussed.