

PARLIAMENT QUESTION: PROMOTION OF CANCER RESEARCH AND INNOVATION

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The Department of Atomic Energy, through its grant-in-aid institution, Tata Memorial Centre, has collaborated with Wipro GE Healthcare (WGEHC) to promote 'Cancer Research & Innovation'. The aim is for development and validation of emerging technologies & digital platforms in Oncology including AI-based applications for medical imaging and clinical workflows, hardware & software for advanced

visualization tools to post-process & analyses medical images, vetted data annotations for application-development.

This collaboration includes development and implementation of AI based applications for medical imaging, clinical workflows and advanced visualization tools in oncology.

The various research initiatives that will be undertaken under this collaboration especially in the field of implementation of AI/ML based application are as follows: -

i) Research in MRI:

New sequences are deployed in Tata Memorial Hospital to facilitate cutting edge research to enhance diagnosis and biology interpretation of cancers.

ii) Other Proposals:

1. Differentiating Tumor Recurrence from Radiation Necrosis in High-Grade Gliomas Using ASL and 3D MRS
2. Prospective Study on the Role of CEST Imaging in Neuro-Oncology.
3. Prediction of Metastatic Nodes Using Deep Learning in Head and Neck Cancers.
4. Qualitative and quantitative comparison of image quality between single shot EPI and multishot-EPI DWI in head neck malignancies.
5. MR Contour DL for Radiation Therapy Planning using GE MR Contour DL for automated breast and chest wall segmentation in RT planning. GE Integration using AI-based auto-contouring of targets.

This information was given by Dr. Jitendra Singh, Union Minister of State (Independent Charge) for Science and Technology, Earth Sciences, MoS PMO, MoS Personnel, Public Grievances & Pensions, Department of Atomic Energy and Department of Space, in a written reply in the Rajya Sabha today.

NKR/PSM

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