

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO- 2082
ANSWERED ON 07/08/2025
PROMOTION OF CANCER RESEARCH AND INNOVATION

2082. DR. KAVITA PATIDAR
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Will the PRIME MINISTER be pleased to state:-

- (a) whether Department of Atomic Energy, through its grant-in-aid institution, Tata Memorial Centre, has collaborated with Wipro GE Healthcare to promote cancer research and innovation in India;
- (b) whether this collaboration involves development and implementation of Artificial Intelligence (AI) based applications for medical imaging, clinical workflow and advanced visualization tools in the field of oncology; and
- (c) if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS
AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH)

- (a) Yes, 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.
- (b) Yes, this collaboration includes development and implementation of AI based applications for medical imaging, clinical workflows and advanced visualization tools in oncology.
- (c) 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.
