GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
STARRED QUESTION NO. 387
ANSWERED ON 20.08.2025

ROLE OF ATOMIC ENERGY IN CANCER TREATMENT

*387. SHRI ANURAG SHARMA

SHRI ANOOP PRADHAN VALMIKI

Will the PRIME MINISTER be pleased to state:-

(a) the role and contribution of the Department of Atomic Energy and its affiliated institutions in the national effort against cancer particularly in the areas of advanced treatment and research;

(b) the details of achievements and advancements in treating complex cancer and the nature of the required inter-departmental collaboration;

(c) the current status of domestic and international collaborations for cancer research within the DAE and the details of key outcomes of these partnerships particularly in Lok Sabha Constituencies of Dewas and Shajapur;

(d) the details of Government's strategy for making advanced cancer therapies more accessible and affordable to the general public in the country particularly in the said constituencies:

(e) whether any radiotherapy or isotope-based cancer treatment facilities have been established or proposed to be established in Madhya Pradesh particularly in the said Constituencies and if so, the details thereof; and

(f) the details of the effect observed by Tarapur Atomic Energy Plant at Palghar in Maharashtra and efforts made against the diseases in the plant and township particularly against cancer and various facilities including emergency treatment in the area?

ANSWER

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

(a) to (f) A statement is laid on the Table of the House.

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STATEMENT REFERRED TO IN REPLY TO PARTS (A) TO (F) IN RESPECT OF LOK SABHA STARRED QUESTION NO.*387 FOR REPLY ON 20.08.2025 REGARDING "ROLE OF ATOMIC ENERGY IN CANCER TREATMENT" ASKED BY SHRI ANURAG SHARMA AND SHRI ANOOP PRADHAN VALMIKI.

(a) The Tata Memorial Hospital under the Department of Atomic Energy is providing comprehensive evidence-based cancer treatment. The TMC has established 11 hospitals in 7 States of India which are located at Mumbai, Varanasi, Vizag, Sangrur, Mullanpur, Guwahati and Bhubaneshwar. Out of 11 hospitals, 8 are functional and 3 are under construction. Tata Memorial Centre (TMC) being a premier cancer centre in the country, provides leadership in guiding the national/international policy and strategy for cancer care by-

- Promoting outstanding services through evidence-based practice of oncology
- Commitment of imparting education in cancer to students, trainees, professionals, employees and the public
- Emphasizing on research that is affordable, innovative and relevant to the needs of the country.

(b) There is a long list of achievements and advancements in treating complex cancer by TMC. Some of the achievements are highlighted below:

i. National Facility for Hadron Beam Therapy at ACTREC
ii. India's first homegrown CAR T-Cell therapy for cancer treatment
iii. PREVALL – First and only oral suspension of Mercaptopurine used in the treatment of Acute Lymphoblastic Leukemia developed by TMC, DAE.
iv. Breakthrough Nutraceutical AKTOCYTE by the Department of Atomic Energy set to Transform Cancer Care
v. TRANS-ARTERIAL Radioembolisation Using Indigenously Sourced Y- 90 Microspheres (*BHABHASPHERES*)
vi. Largest Radiological Research Unit (Therapeutic Nuclear medicine unit)

(c),(d) & (e) The TMC has initiated and planned a strategy for making advanced cancer therapies more accessible and affordable to the general public in the country through National Cancer Grid (NCG). At present 382 members / organizations are connected with NCG which is providing treatment to approximately 8,50,000 new cancer cases. The NCG has potential of massive and far-reaching impact to cover the large number of general public in the country.

As far as Dewas and Shajapur constituencies is concerned, the people can utilize the facilities from the nearby following centres which are connected to NCG-TMC

Bansal Hospital	Cancer Unit, Bansal Hospital, Shahapura, Bhopal, Madhya Pradesh - 462016
BIMR Oncology Centre	Surya Mandir Road, Near Sun Temple, Morar, Gwalior, Madhya Pradesh 474005
Cancer Hospital & Research Centre (RCC)	Cancer Hill Gwalior 474 009, Madhya Pradesh
Career Institute of Medical Sciences and Cancer Research Institute	Career College Campus, opp. Dusherra Maidan, Govindpura, (BHEL), Bhopal - 462023
Chirayu Medical College	Bhainsakhedi, Near Bairagarh, Bhopal-Indore Highway, Bhopal, Madhya Pradesh 462030
Indian Institute of Head & Neck Oncology	Cancer Foundation, Pigdambar Road, Rau, Near Indian Institute of Management, Indore, Madhya Pradesh 453331
Padhar Hospital	P. O. Padhar, District Betul, Madhya Pradesh 460 005
Priyamvada Birla Cancer Research Institute	M. P. Birla Hospital, J. R. Birla Road, Post Birla Vikas, Satna 485005, Madhya Pradesh
Shalby Hospital (Indore Division)	Part 5 & 6, Race Course Road, R S bhandari Marg, Janjeerwala Square, Indore-452003, Madhya Pradesh, India
Sri Aurobindo Institute of Medical Sciences	Indore - Ujjain State Highway, Near MR 10 Crossing, Indore, Madhya Pradesh 453555
SRJ CBCC Cancer Center	142, Phadnis Colony, A.B. Road, Near LIG Square, Indore, 452001
Vidya Cancer Hospital	Old High Ct Rd, near High Court, MainaWali Gali, Dal Bazaar, Lashkar, Gwalior, Madhya Pradesh 474009

TMC will extend its network under hub and spoke model in a phased manner through technical collaboration and assistance, which will cover many more constituencies in the future.

(f) Epidemiological surveys for health assessment in respect of employees working in close proximity to radiation and their families at each of the operating nuclear power plants in India have been carried out by reputed local medical colleges in association with Tata Memorial Centre (TMC), Mumbai, a premier cancer research centre in the country. In addition, annual medical checkups are carried out for occupational workers regularly. These studies/examinations have found that the morbidity pattern of all ailments is lower than the national average. There has also not been any rise in cancer morbidity, birth defects in the new born as compared to national average. All these studies and reports clearly establish that there are no adverse health impacts of the operation of the nuclear power plants on the people working in them.

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