

**GOVERNMENT OF INDIA  
MINISTRY OF HEALTH AND FAMILY WELFARE  
DEPARTMENT OF HEALTH AND FAMILY WELFARE**

**RAJYA SABHA  
UNSTARRED QUESTION NO. 1551  
TO BE ANSWERED ON 14<sup>th</sup> MARCH, 2023**

**USE OF PESTICIDE IN CROPS**

**1551. DR ANIL SUKHDEORAO BONDE:**

Will the **Minister of HEALTH AND FAMILY WELFARE** be pleased to state:

- (a) whether it is a fact that cases of cancer patients are increasing, due to use of pesticides in the crops;
- (b) if so, the details and outcome thereof;
- (c) the number of cancer patients identified during the last three years, State/ UT-wise;
- (d) whether Government is weighing up an action plan to provide cheaper treatment to cancer patients and if so, the details thereof; and
- (e) the number of cancer care hospitals set up during the last three years, State/UT wise?

**ANSWER**

**THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND FAMILY WELFARE**

**(DR. BHARATI PRAVIN PAWAR)**

(a) and (b): As per Indian Council of Medical Research (ICMR), a study published in Environmental Toxicology and Pharmacology (2018) states the hazardous effects of chemical pesticides on human health. According to it, Glyphosphate in pesticides form is associated with breast cancer. The pesticides containing alkyl ureas and amines are found to be associated with brain tumors. The risk of prostate cancer was found to increase in people exposed to agent orange.

ICMR however has not conducted any study regarding increase of cancer cases due to use of pesticides in crops.

(c): As per the Indian Council of Medical Research – National Cancer Registry Programme (ICMR-NCRP), the estimated number of incidences of cancer cases in the country during 2020 to 2022 are attached at Annexure 1.

(d) and (e): The Department of Health & Family Welfare, Government of India, provides technical and financial support to the States/UTs under the National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS), as part of National Health Mission (NHM), based on the proposals received from the States/UTs and subject to the resource envelope. Cancer is an

integral part of NPCDCS. The programme focusses on strengthening infrastructure, human resource development, health promotion & awareness generation for prevention, early diagnosis, management and referral to an appropriate level of healthcare facility for treatment of the Non-Communicable Diseases(NCDs), including Cancer. Under NPCDCS, 708 District NCD Clinics, 301 District Day Care Centres, and 5671 Community Health Center NCD Clinics have been set up.

Cancer is diagnosed and treated at various levels in the health care facilities. The treatment in Government Hospitals is either free or highly subsidized for the poor and needy. The Central Government implements Strengthening of Tertiary Cancer Care Centres Facilities Scheme in order to enhance the facilities for tertiary care of cancer. 19 State Cancer Institutes (SCIs) and 20 Tertiary Care Cancer Centres (TCCCs) have been approved under the said scheme. The details are attached at Annexure 2.

There is also focus on Oncology in its various aspects in case of new AIIMS and many Institutions approved for upgradation under Pradhan Mantri Swasthya Suraksha Yojna (PMSSY). The details are attached at Annexure 3. AIIMS at Bhopal, Bhubaneswar, Jodhpur, Patna, Raipur and Rishikesh are fully functional with full fledged cancer treatment facilities. Setting up of National Cancer Institute at Jhajjar (Haryana) and second campus of Chittaranjan National Cancer Institute, Kolkata are also steps in this direction. All these enhance the capacity for treatment of cancer in the country.

Treatment of Cancers is also available under Ayushman Bharat – Pradhan Mantri Jan Arogya Yojana (PMJAY). Besides, quality generic medicines are made available at affordable prices to all, under Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) in collaboration with the State Governments. Affordable Medicines and Reliable Implants for Treatment (AMRIT) Pharmacy stores have been set up in some hospitals/institutions, with an objective to make available Cancer drugs at a substantial discount vis-à-vis the Maximum Retail Price.

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<b>Table 2: Estimated incidence of cancer cases in India by States/UTs wise - All sites (ICD10: C00-C97) - (2020-2022) - both sexes</b>			
<b>State</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Jammu & Kashmir	12726	13060	13395
Ladakh	286	294	302
Himachal Pradesh	8799	8978	9164
Punjab	38636	39521	40435
Chandigarh	1024	1053	1088
Uttaranchal	11482	11779	12065
Haryana	29219	30015	30851
Delhi	25178	25969	26735
Rajasthan	70987	72825	74725
Uttar Pradesh	201319	206088	210958
Bihar	103711	106435	109274
Sikkim	445	465	496
Arunachal Pradesh	1035	1064	1087
Nagaland	1768	1805	1854
Manipur	1899	2022	2097
Mizoram	1837	1919	1985
Tripura	2574	2623	2715
Meghalaya	2879	2943	3025
Assam	37880	38834	39787
West Bengal	108394	110972	113581
Jharkhand	33961	34910	35860
Orissa	50692	51829	52960
Chhattisgarh	27828	28529	29253
Madhya Pradesh	77888	79871	81901
Gujarat	69660	71507	73382
Daman	124	135	150
Dadra & Nagar Haveli	206	219	238
Maharashtra	116121	118906	121717
Telangana	47620	48775	49983
Andhra Pradesh	70424	71970	73536
Karnataka	85968	88126	90349
Goa	1618	1652	1700
Lakshadweep	27	28	28
Kerala	57155	58139	59143
Tamil Nadu	88866	91184	93536
Pondicherry	1577	1623	1679
Andaman & Nicobar Islands	366	380	393
<b>Total</b>	<b>13,92,179</b>	<b>14,26,447</b>	<b>14,61,427</b>

Table of SCIs/TCCCs

S No	State	Name of the Institute	SCI / TCCC
1	Andhra Pradesh	Kurnool Medical College, Kurnool	SCI
2	Assam	Gauhati Medical College & Hospital, Guwahati	SCI
3	Bihar	Indira Gandhi Institute of Medical Sciences, Patna	SCI
4	Chhattisgarh	Chhattisgarh Institute of Medical Sciences, Bilaspur	SCI
5	Delhi	Lok Nayak Hospital	TCCC
6	Gujarat	Gujarat Cancer Research Institute, Ahmedabad	SCI
7	Goa	Goa Medical College, Panaji	TCCC
8	Haryana	Civil Hospital, Ambala Cantt	TCCC
9	Himachal Pradesh	Indira Gandhi Medical College, Shimla	TCCC
10	Himachal Pradesh	Shri Lal Bahadur Shastri Medical College, Mandi	TCCC
11	Jammu &	Sher-i-Kashmir Institute of Medical Sciences, Srinagar	SCI
12	Kashmir	Government Medical College, Jammu	SCI
13	Jharkhand	Rajendra Institute of Medical Sciences, Ranchi	SCI
14	Karnataka	Kidwai Memorial Institute of Oncology (RCC), Bengaluru	SCI
15		Mandya Institute of Medical Sciences, Mandya	TCCC
16	Kerala	Regional Cancer Centre, Thiruvananthapuram	SCI
17		Government Medical College, Kozhikode	TCCC
18	Madhya Pradesh	G.R. Medical College, Gwalior	TCCC
19		Netaji Subhas Chandra Bose Medical College, Jabalpur	SCI
20	Maharashtra	Rashtrasant Tukdoji Regional Cancer Hospital & Research Centre, Nagpur	TCCC
21		Government Medical College, Aurangabad	SCI
22		Vivekanand Foundation & Research Centre, Latur	TCCC
23	Mizoram	Mizoram State Cancer Institute, Aizawl	TCCC
24	Nagaland	District Hospital, Kohima	TCCC
25	Odisha	Acharya Harihar Regional Cancer Centre, Cuttack	SCI
26	Punjab	Government Medical College, Amritsar	SCI
27		Civil Hospital, Fazilka	TCCC
28	Rajasthan	S P Medical College, Bikaner	TCCC
29		SMS Medical College, Jaipur	SCI
30		Jhalawar Medical College & Hospital, Jhalawar	TCCC
31	Sikkim	Multispecialty Hospital at Sochyang (Sichey), near Gangtok, Sikkim	TCCC
32	Tamil Nadu	Cancer Institute (RCC), Adyar, Chennai	SCI
33	Telangana	MNJ Institute of Oncology & RCC, Hyderabad	SCI
34	Tripura	Cancer Hospital (RCC), Agartala	SCI
35	Uttar Pradesh	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	TCCC
36	Uttarakhand	Government Medical College, Haldwani	SCI
37	West Bengal	Government Medical College, Burdwan	TCCC
38		Murshidabad Medical College & Hospital, Berhampore, Murshidabad	TCCC
39		Sagore Dutta Memorial Medical College and Hospital, Kolkata	TCCC

**Table 1: Cancer Treatment Facility is approved in all New AIIMS**

<b>Sl.</b>	<b>AIIMS</b>	<b>Sl.</b>	<b>AIIMS</b>
1	Bhopal	12	Bathinda
2	Bhubaneswar	13	Guwahati
3	Jodhpur	14	Bilaspur
4	Patna	15	Deoghar
5	Raipur	16	Jammu
6	Rishikesh	17	Kashmir
7	Raebareli	18	Madurai
8	Mangalagiri	19	Rajkot
9	Nagpur	20	Bibinagar
10	Kalyani	21	Manethi
11	Gorakhpur	22	Darbhanga

**Table 2: List of State Govt. Medical Colleges approved for upgradation with Cancer Treatment Facility**

<b>Sl.</b>	<b>State</b>	<b>Name of Govt Medical College</b>	<b>Facility</b>
<b>Phase-I</b>			
1.	Jharkhand	RIMS Ranchi	68 bedded Oncology Block
<b>Phase-II</b>			
2.	Punjab	Govt Medical College Amritsar	Oncology
3.	Himachal Pradesh	Rajendra Prasad Govt. Medical College, Tanda	Oncology
<b>Phase-III</b>			
4.	Karnataka	Karnataka Institute of Medical Sciences, Hubli	Medical Oncology
5.	Rajasthan	SP Medical College, Bikaner	Surgical Oncology
6.	Rajasthan	RNT Medical College, Udaipur	Radiotherapy/Oncology
7.	Telangana	Kakatiya Medical College, Warangal	Medical Oncology
8.	Uttar Pradesh	Govt Medical College, Gorakhpur	Surgical Oncology
9.	Uttar Pradesh	M.L.N Government Medical College, Allahabad	Surgical Oncology
10.	Uttar Pradesh	LLRM Medical College, Meerut.	Radiotherapy
<b>Phase-IV</b>			
11.	Uttar Pradesh	Govt Medical College, Agra	Radiation /Medical Oncology
12.	Bihar	Patna	Radiotherapy (equipment)