

GOVERNMENT OF INDIA

MINISTRY OF AYUSH

RAJYA SABHA

UNSTARRED QUESTION NO. 1123

TO BE ANSWERED ON 10th FEBRUARY 2026

Research and innovation to strengthen Ayush in Maharashtra

1123 **Shri Dhananjay Bhimrao Mahadik:**

Will the Minister of *Ayush* be pleased to state:

- (a) the details on research and innovation initiatives taken in Maharashtra to strengthen Ayush practices;
- (b) specifically, what grants, collaborations with universities, clinical research projects and quality monitoring programs have been undertaken in the last five years;
- (c) the manner in which the Ministry plans to enhance evidence-based Ayush therapies and ensure their safety and efficacy; and
- (d) the measures introduced to improve access to Ayush healthcare in rural and tribal areas of Maharashtra and to promote employment opportunities for local Ayush practitioners?

ANSWER

THE MINISTER OF STATE (IC) OF THE MINISTRY OF AYUSH

(SHRI PRATAPRAO JADHAV)

- a) To strengthen the research and innovation in Ayush, Ministry of Ayush is implementing one of the Central Sector Scheme namely Ayurgyan since 2021-22 having 03 components viz. (i) Capacity Building & Continuing Medical Education (CME) in

Ayush (ii) Research & Innovation in Ayush (R & I) and (iii) Ayurveda Biology Integrated Health Research (ABIHR) component added under the scheme since FY 2023-24. Under the R&I and ABIHR component of Ayurgyan Scheme, one of the priority areas is to promote evidence-based practice and ensure safety and efficacy of Ayush medicines. Further, financial assistance is provided for conducting evidence-based research & development activities to strengthen research and validation of Ayush treatments. This scheme is a Central Sector Scheme and is not specific to any State/UTs and regions. Total of 98 clinical research project has been undertaken by Ministry of Ayush through its Central Sector Schemes and Research Councils. Details of initiatives undertaken in Research and Innovation in Maharashtra are mentioned at **Annexure- I**.

b) Ministry of Ayush provided grants to total 06 projects under Ayurgyan and 08 projects Ayurwashtha Yojana in the State of Maharashtra. Details are placed at **Annexure- IA and IB** respectively. Further, Ministry of Ayush has undertaken a total of 36 collaborative projects through its Research Councils i.e. by CCRAS (14) and by CCRH (22). The details of collaborative projects are attached as **Annexure-II**. Further, Pharmacopoeia Commission for Indian Medicine & Homoeopathy (PCIM&H) also collaborated with Shri Krishna Ayush University, Kurukshetra Haryana ,Jamia Hamdard (Deemed University), New Delhi Amity University, Noida and National Institute of Ayurveda, Jaipur to collaborate on academic and research activities in the field of quality control of ASU & H drugs.

c) Ministry of Ayush has implemented a Central Sector Scheme namely Ayush Oushadhi Gunvatta evam Utpadan Samvardhan Yojana (AOGUSY) with Pharmacovigilance for Ayurveda, Siddha, Unani & Homoeopathy (ASU&H) Drugs as one of the components. Objectives of this program is to keep vigilance over Ayush drugs and to reduce the instances of misleading advertisements. This program has established a three-tire network of pharmacovigilance centers distributed throughout the country with one National Pharmacovigilance Coordination Centre (NPvCC), 05-Intermediary Pharmacovigilance Centers (IPvC) & 97 Peripheral Pharmacovigilance Centers (PPvC). All Pharmacovigilance Centers routinely report Misleading Advertisements (MLAs)/Objectionable Advertisements (OAs) and Adverse Drug Reactions (ADRs) to the concerned Authorities for further necessary action. During the period 2018 to 2025, a total of 2930 Suspected Adverse Drug Reactions (ADRs) in respect of Ayush medicines were reported through the Pharmacovigilance network.

d) To improve access to Ayush healthcare in rural and tribal areas including Maharashtra and to promote employment opportunities for local Ayush practitioners the Ministry of Ayush is implementing a Central Sector Scheme namely Ayurwashthya Yojana, since FY 2021-22. Under Ayush and Public Health component of Ayurwashthya Yojana total of four (04) Organisations/Institutes in the State of Maharashtra have been supported for implementation of projects. The details of these organisations and projects are furnished at **Annexure-II**.

Further, Central Council for Research in Ayurvedic Science (CCRAS), under Ministry of Ayush is providing Ayurveda treatment facilities in rural and tribal dominant areas of the country through the Tribal Health Care Research Programme (THCRP) under the Tribal Sub Plan (TSP) through 14 CCRAS peripheral institutes in 14 states, including Maharashtra state, through RARI, Nagpur.

Similarly, Central Council for Research in Unani Medicines (CCRUM) providing Healthcare services to masses through the CCRUM's Public Health outreach programs like General Outpatient Department (GOPD), Maternal and Child Health (MCH) OPD, Geriatric OPD, Non-Communicable Diseases (NCD) clinics, Mobile Clinical Research Programme, Scheduled Cast sub-Plan, School Health Programme etc.

Further, under the National Ayush Mission (NAM), the Ministry of Ayush provides financial assistance to States/UTs through State Annual Action Plans (SAAPs) to expand Ayush services, including in rural and tribal areas including Maharashtra, by supporting co-location of Ayush units, establishment and upgradation of hospitals and dispensaries, strengthening educational institutions, and upgrading dispensaries into Ayushman Arogya Mandir (Ayush) for comprehensive primary healthcare.

The details of initiatives undertaken in Research and Innovation in Maharashtra are as follows:

- A total of four (04) research projects (including clinical research) under R & I component and two (02) research project under ABIHR has been supported to the organizations located in the state of Maharashtra since its inception i.e. from FY 2021-22. The details are placed at **Annexure- I A.**
- Further, Ministry of Ayush is also implementing another Central Sector Scheme, namely Ayurswasthya Yojana, since 2021-22 having 02 components, viz. (i) Ayush & public health (PHI) component and (ii) Upgradation of facilities to the centre of excellence (CoE). Under the CoE component, (02) projects have been supported in the State of Maharashtra for conducting research activities. The details of the research projects supported under the CoE component of Ayurswasthya Yojana, since its inception i.e. FY 2021-22 are furnished at **Annexure – I B.**
- Further, the Central Council for Research in Ayurvedic Sciences (CCRAS), an Autonomous Body under the Ministry of Ayush, Government of India has three Ayurveda Research Institutes in Maharashtra viz. namely Raja Ramdeo Anandi Lal Poddar Central Ayurveda Research Institute (CARI), Mumbai, Regional Ayurveda Research Institute (RARI), Nagpur, Regional Ayurveda Research Institute (RARI), wherein, CARI, Mumbai has completed 12 research projects, RARI, Nagpur has completed 18 research projects and RARI, Pune has completed 16 research projects.
- Further, the Central Council for Research in Homoeopathy (CCRH), an Autonomous Body under the Ministry of Ayush, Government of India has one Homoeopathy Research Institutes in Maharashtra. A total of 11 clinical research projects have been undertaken during last five years. The details of research undertaken by Central Council for Research in Homoeopathy in the state of Maharashtra in given at **Annexure - I C.**
- The Central Council for Research in Unani Medicine (CCRUM), an Autonomous Body under the Ministry of Ayush, Government of India has one institute, Regional Research Institute of Unani Medicine (RRIUM), Mumbai with its extension centre at J.J. Hospital, Mumbai, is functioning in Maharashtra. Further, the Ministry of Ayush established a new CCRUM building in Navi Mumbai in 2022 to strengthen Unani research services in the State. A total of 18 research projects has been undertaken during last five years. The details of research projects conducted during last five years is placed at **Annexure - I D.**

Annexure – I A

The details of grants provided to 04 projects under the R & I component of Ayurgyan Scheme since its inception i.e from FY 2021-22 are mentioned below:

(In Lakhs)

S. No.	FY	Name of Institution	Title of study	Approved cost of project	Fund released
1.	2021-22	TNMC & BYL Nair Ch. Hospital Mumbai	An open randomized controlled clinical study to assess the efficacy and safety of local and systemic Ayurvedic interventions in preventing or reducing the severity of the COVID-19 infection	9.36	8.42
2.	2023-24	Savitribai Phule Pune University Pune	Exploring protective potential of Dioscorea spp. In process of aging and Alzheimer's disease using Drosophila and rat animal models"	64.71	35.26
3.	2025-26	R. C. Patel Institute of Pharmaceutical Education and Research Shirpur, Dhule	Investigation of molecular evidences of anti-psoriatic efficacy of selected homeopathic drugs using TLR-7/ IL-17/ IL-23 knock-in/out cell lines and mouse models of psoriasis	44.19	20.34
4.	2025-26	Interactive Research School for Health Affairs, BharatiVidyapeeth , Pune	Effect of a therapeutic course of Basti on gut microbiome in obese individuals	55.95	12.54
Total Amount				174.21	76.58

The details of grants provided to 02 projects under the ABIHR component of Ayurgyan Scheme since its inception i.e from FY 2021-22 are mentioned below:

(In Lakhs)

S. No	FY	Name of Institution	Title of study	Total fund approved	Amount released
1.	2024-25	Intox Pvt. Ltd. Pune	Development of technical dossier of Boswellia serrata –stage 1 (pre-clinical studies–oral toxicity, genotoxicity, efficacy, pharmacokinetic studies and safety pharmacology in rodents)	996.99	498.49
2.	2025-26	Regional Ayurveda Research Institute (RARI), Pune	Preclinical Toxicological Evaluation and Safety Pharmacology of Selected Ayurvedic Formulations - Laksha Guggulu, Dadimadi Ghrita and Ekangaveera Rasa	401.97	236.63
Total Amount				1398.96	735.12

Annexure - I B

The details of grants provided to 04 projects under the Centre of Excellence (CoE) component of Ayurswasthya Yojana, since its inception i.e FY 2021-22, are mentioned below:

(In Lakhs.)

Year	Name of Organisation/Institute	Title of the Project	Total fund Sanctioned	Fund Released
2023-24	ACTREC, Tata Memorial Centre Kharghar, Mumbai	Centre of Excellence for Discovery and Development of Ayush Medicines for Cancer Care.	906.91	200.00
2023-24	Savitribai Phule University, Pune	Ayush Centre of Excellence, Centre for Complementary and Integrative Health.	723.80	200.00
2024-25	ACTREC, Tata Memorial Centre Kharghar, Mumbai	Centre of Excellence for Discovery and Development of AYUSH Medicines for Cancer Care.	906.91	194.10
2024-25	Savitribai Phule University, Pune	Ayush Centre of Excellence, Centre for Complementary and Integrative Health.	723.80	52.62
Total Amount			3261.42	646.72

The details of grants provided to 04 projects under the Public Health component of Ayurswasthya Yojana since its inception i.e FY 2021-22, are mentioned below:

S. No.	Name of Organization/Institute	Title of the Project
1.	Ayurved Seva Sangh's Ayurved Mahavidyalya, Nashik, Maharashtra	Ayurveda Care for Healthy Pregnancy
2.	Srinath Manav Sewa Mandal, Parli, Beed, Maharashtra	Community Screening Program for Diabetes, Hypertension, Obesity and its Management through Ayurveda and establishment of Referral Research Centre in Parli Block of Beed District, Maharashtra
3.	Directorate of Ayush, Maharashtra	Osteoporosis Screening and Intervention Programme Using AYUSH Approach: A Community based Programme in Maharashtra State
4.	Tilak Ayurved Mahavidyalaya, Maharashtra	Implementation of Punarnavadi Mandoor and Drakshavaleha in the management of Iron Deficiency Anemia in school going children at Mulashi block in Pune district, Maharashtra

The details of Research Projects undertaken during last five years in the state of Maharashtra by CCRH.

<u>Year</u>	<u>Clinical Research</u>		
	<u>New</u>	<u>Ongoing</u>	<u>Completed</u>
2020-21	00	03	02
2021-22	00	01	02
2022-23	00	00	00
2023-24	00	00	00
2024-25	03	00	00
Total	03	04	04

List of fundamental Research projects undertaken by CCRH in the last 5 years in the state of Maharashtra

(Rs.In Lakhs)

S. No.	Title of the Project	Collaborating Institute	Duration of the project	Total grants
1.	Process for potentization of Homoeopathic medicines	IIT, Bombay	2018 - 2022	44.44
2.	Understanding the mechanism of action of tested homoeopathic medicines employing cellular models for insulin secretion and resistance	Dr. D.Y. Patil Dental College and Hospital, Dr. D.Y. Patil Vidyapeeth, Pimpri, Pune.	2025-2027	40.02
Total Amount				84.46

The details of clinical research projects conducted by Regional Research Institute of Unani Medicine (RRIUM), Mumbai under the programme during last five years are given below:

1. Khamira gaozaban sada in Khafqan (Palpitation)
2. Majoon Najah in Malekholia (Mixed Anxiety Depressive Disorder)
3. Sailani in Sailanur Rahim (Leucorrhoea)
4. Majoon-e-Falasifa in Nisyan (Amnesia)
5. Kundri in Salas-ul-Baul (Stress Urinary Incontinence)
6. Sharbat Ejaz in Sual e Yaabis (Dry Cough)
7. Laooq-e-Zeequn Nafas in Zeequn Nafas (Bronchial Asthma)
8. Waj-ul-Mafasil (Rheumatoid Arthritis)-Habb-e-Gul-e-Aak and Roghan-e-Hina vs majoon e jograj goggul & roghan e malkangani
9. Warm-e-Kabid (Non-Alcoholic Fatty Liver Disease NASH)- Qurs-e-Sumbul-ut-Teeb
10. Malankholiya (Mixed anxiety depressive disorder)-Comparative Habb-e-Ikhtilaj vs Majoon e Najah
11. Sharbat-e-Anar Shireen in Ghasiyan (Nausea)
12. Majoon e Talkh deedani in Ehtebas e Tams (Amenorrhoea)
13. Qurs Kaknaj in Hurqat e baul (Burning Micturition)
14. Sufoof e kishneez in Khafaqan (Palpitation)
15. Halwa-e-Badam in Zof e dimagh (Cerebroasthenia)
16. Roghan e Muqawwi e Dimagh in Sahar (Insomnia)
17. Hab e Chobchini & Roghan e Surkh in Niqras (Gout)
18. Jawarish e Aamla Sada in Khafaqan (Palpitation)

The details of total (13) collaborative projects through Central Council for Research in Ayurvedic Sciences (CCRAS) are given below:

CCRAS has undertaken collaborative research initiatives in various domains such as clinical research, medicinal plant research, pharmacological research, literary research, and fundamental research, in association with reputed institutions of the country. In the last three years, 5 collaborative projects of CCRAS have been completed and 9 collaborative projects of the council are ongoing with modern healthcare institutions in the state of Maharashtra. The details of ongoing and completed collaborative projects of CCRAS are given below:

S No	Project Title	Collaborating Institute
Completed Projects		
1	Feasibility of introducing Ayurveda Intervention in Reproductive and Child Health (RCH) in PHCs of the Selected district (Gadchiroli) of Maharashtra (Effectiveness of Ayurvedic intervention for Ante-Natal care (Garbhini Paricharya) at Primary Health Care level: A Multi Centre Operational Study).	PHCs of Gadchiroli district
2	Morbidity and Healthcare-seeking behaviour of the patients visiting the Ayurveda healthcare facilities of the DGAFMS Hospitals: A multicenter cross-sectional survey study.	Command Hospital Pune
3	A Randomized control trial to evaluate the efficacy of Ayurveda Interventions (Agastya Haritaki and Ashwagandha) and yoga in long term effects of Covid-19.	Govt Medical college, Nagpur and Datta Meghe Institute of Medical Sciences, Wardha
4	The impact of Chyawanprash on immunogenicity when administered after COVID-19 vaccination in health care personnel - An open-label, prospective randomised controlled study.	Datta Meghe Institute of Medical Sciences, Wardha
5	A study of Ashwagandha administration in participants vaccinated against COVID-19 on safety, immunogenicity and protection: A randomized, double blind, placebo controlled, multi-centric clinical trial.	Center for Rheumatic Diseases CRD, Pune
Ongoing Projects		
1	Impact of Mukta Shukti Bhasma and Saubhagya Shunthi in reversal of bone mineral density among Lactating Women Consuming Traditional Diet Foods in Maharashtra: A randomized controlled preliminary clinical study.	ICMR-National Institute for Research in Reproductive and Child Health (ICMR-NIRRCH), Parel, Mumbai

2	Efficacy of Ayurveda interventions (Hridyarnava Rasa and Harityakyadi yoga) as an add-on to standard care in Stable Coronary Artery Disease (CAD) assessed through Global Longitudinal Strain Imaging Technique (GLSIT) - A Randomized Controlled Trial.	Madhavbaug Cardiac Care Clinic and Hospital, Khalapur, Maharashtra
3	A phase II trial to study efficacy, toxicity and immunomodulatory effect of Carctol-S in high-grade serous epithelial ovarian cancer at first serological relapse collaborative project.	Tata Memorial Hospital (TMH) and Advanced Centre for Treatment, Research and Education in Cancer (ACTREC) Tata Memorial Centre Kharghar, Navi Mumbai
4	An Ayurvedic intervention as an add on for prevention of Acute Pain Crises in Sickle Cell Anaemia (under TSP)	Datta Meghe Institute of Medical Sciences, Wardha
5	Study of association between Prakriti and outcomes of early and locally advanced breast cancer	Advanced Centre for Treatment, Research and Education in Cancer (ACTREC) Tata Memorial Centre, Kharghar, Navi Mumbai
6	Assessment of Prakriti (Ayurvedic body constitution) of patients with Cervical and Ovarian cancers.	Tata Memorial Hospital (TMH), Mumbai.
7	Understanding the mechanistic role of Carctol-S as immunomodulatory and anticancer formulation against Ovarian Cancer.	Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Tata Memorial Centre Kharghar, Navi Mumbai
8	Understanding mechanistic role of CARAF & CAGHE as immunomodulatory and anti-cancer compounds against pre-clinical models of Leukemia, Lymphoma, Melanoma, Lung and Breast cancer.	Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Tata Memorial Centre, Kharghar, Navi Mumbai
9	Preclinical study on efficacy, safety and toxicity of Swarna Prashan Regimen as Adjunct therapy in Pediatric Acute Lymphoblastic Leukemia.	ICMR-National Institute for Research in Reproductive and Child Health (ICMR-NIRRCH), Parel, Mumbai

The details of total (22) collaborative projects through Central Council for Homoeopathy Research (CCRH) are given below:

S. No.	Date/ Year	Institute	Topic
1.	10.04.2021	Dr. D.Y. Patil Homoeopathic Medical College & Research Centre, Maharashtra	Research cooperation
2.	9.04.2023	P.D. Jain Homoeopathic Medical College, Parbhani, Maharashtra	Cooperation for research & training with college
3.	9.04.2023	Motiwala Homoeopathic Medical College and Hospital, Nashik, Maharashtra	Cooperation for research & training with college
4.	9.04.2023	Dhondumama Sathe Homoeopathic Medical College, Pune, Maharashtra	Cooperation for research & training with college
5.	9.04.2023	Late Mrs. Housabai Homoeopathic Medical College and Hospital, Nimshirgaon, Maharashtra	Cooperation for research & training with college
6.	9.04.2023	Bharati Vidyapeeth's Homoeopathic Medical College, Pune, Maharashtra	Cooperation for research & training with college
7.	9.04.2023	Rashtrasant janardhan swamy homoeopathic Medical college and research centre, Ahmednagar, Maharashtra	Cooperation for research & training with college
8.	9.04.2023	Sayali Charitable Trust, College of Homoeopathy, Aurangabad, Maharashtra	Cooperation for research & training with college
9.	9.04.2023	Sonajirao Kshirsagar Homoeopathic Medical College, Beed, Maharashtra	Cooperation for research & training with college
10.	9.04.2023	Dr. M.L. Dhawale Memorial Homoeopathic Institute, Palghar, Maharashtra	Cooperation for research & training with college
11.	9.04.2023	M.H.F.'s Homoeopathic Medical College and Hospital, Gunjalwadi, Maharashtra	Cooperation for research & training with college
12.	9.04.2023	Ratnadeep Medical Foundation and Research Centre, Jamkhed, Maharashtra	Cooperation for research & training with college
13.	9.04.2023	Nootan Homoeopathic Medical College & Hospital, Kavathe Mahankal, Maharashtra	Cooperation for research & training with college
14.	March 2025	Tata Institute of Social Sciences, Mumbai, Maharashtra	Homoeopathy for Management of Health Issues among Transgender

			Population in Metro City: A Pilot Survey.
15.	10.04.2025	Forum for ethics review committee in India, Mumbai., Maharashtra	Capacity Building in Human Research Ethics
16.	10.04.25	Late Mrs. Housabai Homoeopathic Medical College & Hospital, Nimshirgaon, Tal-Shirol, Kolhapur, Maharashtra	Homoeopathic Pathogenetic Trial on Drug code - A randomized double-blind placebo-controlled trial
17.	11.04.2025	Dr. D. Y. Patil Homoeopathic Medical College And Research Centre, Pimpri, Pune, Maharashtra	MoU signed between CCRH and Homoeopathic medical colleges for providing technical support in research training.
18.	11.04.2025	Snjb's Smt K. B. Abad Homoeopathic Medical College, Shri R. P. Chordiya Hospital & Bhamasha Shri V. D. Mehta, Dev-Vijay P. G. Institute Of Homoeopathy & Research Centre, Chandwad, Dist - Nashik, Maharashtra	MoU signed between CCRH and Homoeopathic medical colleges for providing technical support in research training.
19.	30.04.2025	Dr. D. Y. Patil Dental College and Hospital, Dr. D. Y. Patil Vidyapeeth, Pune, Maharashtra.	Understanding the Mechanism of Action of Tested Homoeopathic Medicines Employing Cellular Models for Insulin Secretion and Resistance.
20.	30.04.2025	Dr. D. Y. Patil Vidyapeeth, Pune, Maharashtra	Research Cooperation
21.	18-06-2025	Haffkine Institute for Training, Research and Testing, Mumbai, Maharashtra	Anti-Venom Study
22.	07.01.2026	Aditya Homoeopathic Hospital and Healing Centre, Pimpri-Chinchwad, Maharashtra	Generic MoU