

**GOVERNMENT OF INDIA
MINISTRY OF AYUSH**

RAJYA SABHA

**STARRED QUESTION No. 125
TO BE ANSWERED ON 11.03.2025**

Efforts to make 'Viksit Bharat' by 2047 in AYUSH sector

125 Smt. Sangeeta Yadav:

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

- (a) the efforts made by the Ministry to achieve the vision to make India a developed Nation by 2047 in the last three years through more Research & Development in AYUSH sector;
- (b) whether the Ministry has formulated any roadmap or action plan to realize the goal of Viksit Bharat' by 2047 in AYUSH sector industries;
- (c) if so, the details thereof and if not, the reasons therefor;
- (d) whether efforts by Government in the recent past have helped in increasing India's position in the field of medical research; and
- (e) if so, the details thereof, and if not, the reason therefor?

**ANSWER
THE MINISTER OF STATE (IC) OF THE MINISTRY OF AYUSH
(SHRI PRATAPRAO JADHAV)**

(a) to (e) A Statement is laid on the Table of the House.

(a) Ministry of Ayush has a mandate for coordination and promotion of research and development including assistance in Ayush Systems of Health Care. Ministry has five Autonomous Organisations working under it having a common objective of Evidence Based Research in their respective systems of medicine. These five Research Councils are:

- (1) Central Council for Research in Ayurvedic Sciences (CCRAS)
- (2) Central Council for Research in Yoga and Naturopathy (CCRYN)
- (3) Central Council for Research in Unani Medicine (CCRUM)
- (4) Central Council for Research in Siddha (CCRS)
- (5) Central Council for Research in Homoeopathy (CCRH)

These Research Councils are the apex bodies in India for undertaking, coordinating, formulating, developing, and promoting research on scientific lines in their respective fields. These Councils carry out their research activities through their peripheral institutes located all over India and also through their collaborative studies with various Universities, Hospitals and Institutes. The main activities of these Councils comprises Clinical Research, Drug Standardization Research & Quality Control, Pharmacological Research, Literary Research, Fundamental Research, Survey & Cultivation of Medicinal Plants & Research oriented Public Health Programmes etc.

The details of efforts made in the last three years are at **Annexure-I**.

Ministry of Ayush is implementing an umbrella Central Sector Scheme namely “AYURGYAN” with the aim to support Education, Research & Innovation in Ayush by providing academic activities, training, Capacity Building, research & development activities in the field of Ayush since 2021-22. The Scheme has three components, viz. (i) Capacity Building and Continuing Medical Education (CME) in Ayush, (ii) Research & Innovation in Ayush from FY 2021-22; and (iii) Ayurveda Biology Integrated Health Research (ABIHR) is also added under the scheme from FY 2023-24.

Further, Ministry of Ayush is implementing an umbrella scheme, namely, “AYURSWASTHYA Yojana” from the FY 2021-22 which was developed by merging two earlier schemes of this Ministry i.e. (i) Central Sector Scheme of Grant-in-aid for promotion of Ayush intervention Public Health Initiatives; and (ii) Central Sector Scheme for assistance to Ayush Organisations (Government/ Non-Government Non-Profit) engaged in Ayush Education/ Drug Development & Research/ Clinical Research etc. for upgradation to Centre of Excellence (CoE). This Scheme has been approved upto FY 2025-26. The components of the AYURSWASTHYA Yojana are mentioned below:

- (1) AYUSH and Public Health (PHI)
- (2) Centre of Excellence (CoE)

The National Commission for Indian Systems of Medicine (NCISM) and the Nation Commission for Homoeopathy (NCH) have notified their respective Ayush Graduate Degree Courses regulations wherein Research Methodology subject is introduced at undergraduate level to promote young researchers. For each department in Homoeopathy Medical College,

methodology for Supplementing Modern Advancement, Research and Technology Homoeopathy (SMART-Hom) included in regulation. The Commissions have conducted research methodology training for post graduate students and teachers in association with scientists of respective Research Councils of the Ayush System of Medicine. The programmes such as Studentship Program, PG-Star Program, Publication Grant, Research & Innovation Cell and Capacity Building and Training Programme are implemented in Research & Development in ASU&SR sector. The details of these programme are at Annexure-II.

(b) & (c): Ministry of Ayush has implemented a Central Sector Scheme Ayush Oushadhi Gunavatta evam Utpadan Samvardhan Yojana (AOGUSY), was approved by Standing Finance Committee (SFC) on 16.03.2021. The total Budget allocation to this scheme is Rs. 122.00 crores for five years.

The objectives of the Scheme are as under;

- i. To enhance India's manufacturing capabilities and exports of traditional medicines and health promotion products under the initiative of Atmanirbhar Bharat.
- ii. To facilitate adequate infrastructural & technological upgradation and institutional activities in public and private sector for standardization, quality manufacturing and analytical testing of Ayush drugs & materials.
- iii. To strengthen regulatory frameworks at Central and State level for effective quality control, safety monitoring and surveillance of misleading advertisements of Ayush drugs.
- iv. To encourage building up synergies, collaborations and convergent approaches for promoting standards and quality of Ayush drugs & materials.

Detailed guidelines are available at [www.https://ayush.gov.in/images/Schemes/aoushdhi.pdf](http://www.ayush.gov.in/images/Schemes/aoushdhi.pdf)

Ayush Export Promotion Council (AYUSHEXCIL), is a newly formed Export Promotion Council (set up by Ministry of Ayush and supported by Ministry of Commerce, Government of India), launched at Global Ayush Investment and Innovation Summit held in Gandhinagar, Gujarat on April 20, 2022). AYUSHEXCIL is registered as Section 8 company at Registrar of Companies, New Delhi on January 4, 2022 and received DGFT notification on July 31, 2023.

It is aimed to oversee exports of products of Ayurveda, Homoeopathy, Siddha, Sowa Rigpa and Unani systems and address trade issues pertaining to these sectors. It mandates to facilitate capacity building of its members on export procedures, organize business to business meetings, international events, road shows, seminars and workshops on the export of Ayush products and to safeguard the scientific research in the field of Ayush healthcare.

Harmonization of Drug Rules applicable to various streams of Ayush and reduction in compliance burden in tune with the policy of ease of doing business as below:

- i. Harmonization in respect of Pharmacopoeial Standard for raw material used in various streams of Ayush through “One Herb One Standard”.
- ii. Harmonization of License fee/Fee for product approval amongst various streams of Ayush.

iii. Revamping of e-AUSHADHI portal with State Licensing Portals to make it more user friendly and robust for online licensing.

iv. 35 compliance burden were identified for review from Drugs Rules 1945 made thereunder out of which 33 compliance burden has been reduced.

(d) & (e): Indian Council of Medical Research (ICMR) is supporting research on scientifically validating traditional medicines and practices from both codified and non-codified systems, which is helping to widen the acceptability of Traditional medicines worldwide. The presently ongoing projects pertaining to traditional medicines/medicinal plants are at Annexure-III.

Ministry of Ayush has established Pharmacopoeia Commission for Indian Medicine & Homoeopathy (PCIM&H) which lays down the Formulary specifications and Pharmacopoeial Standards for ASU&H drugs, which serve as official compendia for ascertaining the Quality Control (identity, purity and strength) of the ASU&H drugs, included therein, as per Drugs & Cosmetics Act, 1940 and Rules 1945, thereunder and compliance of these quality standards are mandatory for the production of ASU&H drug being manufactured, sell and stocked in India.

During last 15 years, 573 quality standards on raw materials (Single Drugs of plant/animal/Mineral/metal/ Chemical origin) used in ASU&H has been published. Further, 276 quality standards of ASU formulations and 1,024 formulary specifications of ASU drugs have also been published in respective Pharmacopoeias and Formularies. The details are at Annexure-IV.

Nine (09) organizations of National repute have been funded under the Centre of Excellence component during the last three years under activity-based/research-based Centre of Excellence for enhancing research in Ayush. Details are at Annexure-V.

Annexure-I

1. The efforts made by Central Council for Research in Siddha (CCRS) in the **last three years** through more Research & Development in Ayush sector are as follows:

- CCRS has published 241 research articles in National and International indexed & peer reviewed journals and CCRS has been granted one Patent.
- CCRS has initiated 25 new IMR projects in the last 3 years.
- The Siddha Formulary of India, Part III (Tamil version) published in 2024.
- The beneficiaries in health care services for the last 3 years is around 5.6 lakh population.
- Integrated OPD for Diabetes in 3 peripheral Institutes/Units of CCRS has been started.
- CCRS had conducted pre-clinical and clinical studies to assess the utility and effectiveness of Siddha formulation in the management & treatment of COVID -19 and published research articles in peer reviewed and indexed journal.
- Academia-industry Research Incubation for Value-chain Up-gradation (ARIVU), maiden initiative by CCRS to promote innovation and entrepreneurship by translating novel ideas and innovation in various disciplines of Siddha Research.
- International Classification of Diseases 11- Traditional Medicine- Siddha- Inclusion of Siddha Morbidity Codes in ICD-11 Traditional Medicine Chapter 2 –331 disease pattern plus 2643 National Siddha Morbidity codes.
- Siddha Terminology has been included in WHO document – 2700 Siddha terminologies.
- 2 web applications and 4 mobile applications have been developed as IT modules by CCRS.
- CCRS have entered 7 MoU's with reputed organization.
- Establishment of Siddha Clinical Research Unit, Goa in the year 2023.
- Siddha Central Research Institute, Chennai and Siddha Regional Research Institute, Puducherry under CCRS obtained the NABL Entry Level Accreditation for Biochemistry Laboratory.
- Siddha Regional Research Institute, Thiruvananthapuram- obtained the NABL Entry Level Accreditation for Pathology Laboratory.
- CCRS-SRRI, Puducherry, (Siddha Regional Research Institute) Puducherry has initiated actions for NABH accreditation. The online assessment has been completed and waiting for certification.
- Collection, transcription, digitization and publication of palm leaf Siddha manuscripts and Siddha literatures.

2. List of publications by CCRH during the year 2024-25

S.No.	Title
1.	A Comparative randomised controlled trial of Homeopathy –vs- Allopathy in Acute Otitis Media and its recurrence in Children
2.	Homeopathic Management of Residual Paralysis as a Sequel to Bell's Palsy: Experience from Two Case Reports
3.	Molecular insights into cell signaling pathways in kidney stone formation
4.	Psychometric Validation of Patient Satisfaction Assessment Tool for Alternative Medicine Healthcare Facility in India
5.	Management of Generalized Anxiety disorder with Individualized Homoeopathic Medicine Calcarea Carbonica in 50 Millesimal Potency: A Case Report
6.	Ultradiluted Eupatorium perfoliatum Prevents and Alleviates SARS-CoV-2 Spike Protein-Induced Lung Pathogenesis by Regulating Inflammatory Response and Apoptosis
7.	A case of Erosive Antral Gastritis treated with Homoeopathy
8.	Homoeopathy for alcohol withdrawal state with delirium – A case report
9.	A case of hyperthyroidism treated with individualised homoeopathic medicine: A case report
10.	Alcohol dependence syndrome managed with homoeopathic medicine Bufo Rana – An evidence-based case report
11.	A Review on Hyperuricaemia - A Metabolic disease and its Homoeopathic management
12.	Management of Specific Phobia with Individualized Homoeopathic Medicine: a case series.
13.	A scoping review on epidemiology and pathogenesis of death due to primary amoebic meningoencephalitis
14.	Homeopathic Management of Bulky Uterus with Uterine Fibroid in a 40-year-old Patient: An Evidence-Based Case Report
15.	The Individualized Homoeopathic Management of continuous Schizophrenia - a Case Report
16.	Lateral venous ulcer treated with Homoeopathy using a miasmatic approach – A case report
17.	Homoeopathy in the treatment of tinea cruris and tinea corporis – A case series
18.	Efficacy of Ferrum Metallicum 30c in restoring menstrual cycle in Polycystic Ovarian Syndrome Patients -A Randomised ,Placebo-controlled, single-blind Trial
19.	Monarch Inventory for Causal Attribution in Homeopathy Case Reports: Explanation and Elaboration
20.	Management of Lichen Planus Nodularis through Individualized Homoeopathic Medicine: A Case Report
21.	Ureterolithiasis with Hydroureteronephrosis Treated by Individualized Homoeopathy: A Case Report
22.	Homeopathy for Hypertension: A Comprehensive Scoping Review of the Current Evidence

23.	Effectiveness of Eupatorium Perfoliatum 30C in Preventing Dengue Fever- A Prospective, Community-Based, Open Label, Parallel Cohort Study
24.	Homoeopathy vs. conventional primary care in children during the first 24 months of life—a pragmatic randomised controlled trial
25.	De Quervain's tenosynovitis treated with Homoeopathy: A case report
26.	Homoeopathic Management of Chronic Urinary Tract Infection (UTI) in Males—Two Evidence- Based Case Reports
27.	Cutaneous Warts Treated with Individualised Homoeopathic Medicine: A Case Series
28.	Is millet beneficial for thyroid disease? A comprehensive review
29.	Importance of Causation in Traumatic Osteoarthritis of Knee: An Evidence Based Case Report
30.	Polycystic ovarian syndrome and homoeopathic management: A case series
31.	Utility of individualised homoeopathic medicines in improving social interaction in childhood autism: A prospective, open-label, single arm study
32.	A pragmatic, open-label study to evaluate the response of homoeopathic treatment in vitiligo.
33.	Homoeopathy in bipolar affective disorder: A review of research evidence
34.	Book review on "Homeopathy for Farm and Garden"
35.	Management of Social Phobia with Ignatia- A Case Report
36.	Management of tinea corporis with the minimum doses of homoeopathic nosode Psorinum: A case report
37.	Homoeopathic treatment of oral leucoplakia: A case report
38.	Management of psychosis with individualised homoeopathic medicines: A case series
39.	Cutaneous warts treated with a single dose of the homoeopathic medicine Carcinosis 200C: An evidence-based case report
40.	Laryngopharyngopharyngeal reflux disease with reflux disease with vocal corocal cordoedematroedema treated with individualised homoeopathic medicine: A case report
41.	Plantar warts treated with homoeopathic medicine Antimonium crudum: A case report
42.	Individualised homoeopathic treatment for pilonidal sinus: A case report
43.	Resolution of subdural hygroma with Homoeopathy: A case report
44.	A case report of attention deficit hyperactivity disorder in preschool children treated with individualised, constitutional homoeopathic medicine
45.	Analysing Influences on Homoeopathic Subscriptions in Rural Communities: A Pilot Study
46.	Epidemiology and impact of chronic disease multimorbidity in India: a systematic review and meta-analysis
47.	The Patient Population at Homeopathic Outpatient Clinics across India: A Clinical Data Collection Study
48.	Hyperuricaemia treated with individualised homoeopathy: A case series
49.	Optimising the use of polar symptoms in Homoeopathy: Introduction to a pilot study of prognostic factor research in chronic cough

50.	Exploring the Current State of Evidence of Homeopathic Interventions for Substance Abuse: A Scoping Review and Evidence Mapping
51.	Exploring the Role of Homeopathic Intervention in Post-COVID Functional Gastrointestinal Disorders: A Case Series of 12 Patient Profiles
52.	Exploring the potential of Homoeopathy: A detailed examination of Systematic Review and Meta- analysis procedure- weighing the Pros and Cons
53.	Homoeopathy for the Management of Delusional Disorder
54.	Use of Homoeopathic remedies derived from Animal kingdom in treating Hyperactive Behavior of ADHD children
55.	Ultradiluted Eupatorium perfoliatum Prevents and Alleviates SARS-CoV-2 Spike Protein-Induced Lung Pathogenesis by Regulating Inflammatory Response and Apoptosis.
56.	Probing the Physicochemical Behavior of Acidum Aceticum Homoeopathic Dilutions at Ambient Temperatures by using Volumetric, Acoustic and Viscometric Methods.
57.	Implication of iron overload in COVID-19 pathogenesis and long COVID: a mechanistic review.
58.	Physicochemical Behaviour of Homoeopathic Dilutions of Ammonium Carbonicum at Ambient Temperatures: Volumetric, Ultrasonic and Viscometric Study.
59.	Role of auto-antibodies in the mechanisms of dengue pathogenesis and its progression: a comprehensive review.
60.	Effectiveness of Eupatorium Perfoliatum 30C in Preventing Dengue Fever-A Prospective, Community-Based, Open Label, Parallel Cohort Study in Delhi, India

List of publications by CCRH during 2023-24

S.No.	Title
61.	Rapid Recovery of One-Sided Verruca Vulgaris (Common Wart) with Homoeopathic Treatment: A Case Report
62.	Management of wound myiasis through homoeopathy: A case report
63.	A case of Alcohol Dependence Syndrome well responded to Angelica archangelica 6C.
64.	Non Healing Abscess of Myositis Cured with Homoeopathy Treatment- An evidence Based Case Report
65.	Utility of Kent's Repertory in the treatment of candidiasis: An open label, single arm, interventional clinical trial
66.	Facilitating Healing in Diabetic Foot Ulcers Using Homeopathy in a Multi-Disciplinary Integrative Approach: Two Evidence-Based Case Reports
67.	Homoeopathic treatment of a child with internet gaming disorder and atopic dermatitis: A case report
68.	Obstinate chronic venous ulcer treated with the homoeopathic medicine Silicea: A case report
69.	Usage of Arsenicum album 30C as a prophylactic medicine in healthcare workers of a COVID health centre – A report

70.	Tinea cruris managed with a single dose of individualised homoeopathic medicine: A case report
71.	Safety of potentised dilutions of Rhus toxicodendron in Wistar albino rats
72.	Anaemia Mukth Bharat and Role AYUSH systems to address the Increasing Prevalance of Anaemia- Over View
73.	Alopecia Areata Treated with Homoeopathic Preparation of phosphorus: two evidence-Based case reports
74.	A Narrative Review on Homoeopathy for Obsessive – Compulsive Disorder
75.	Evaluation of the Effectiveness of Homoeopathic Mother Tincture Sarothamnus Scoparius in Managing Essential Hypertension
76.	Millets as nutri-cereals and its health benefits: an overview
77.	Treatment of Polycystic Ovarian Syndrome through Individualised Homoeopathic medicines: Two case reports
78.	Polycystic Ovarian Syndrome Treated by Homoeopathy: An Evidence-Based Case Report
79.	Hypothyroidism - Unveiling the Facts Review Article
80.	Individualized Homeopathy in the Treatment of Diabetic Neuropathy with Hyperuricemia: An Evidence-based Clinical Case Report
81.	Management of generalized anxiety disorder with Imptencies: a case report
82.	Management of Paranoid Schizophrenia by Stramonium in LM Potency-A Case Report
83.	Tinea capitis treated with homoeopathic medicine Pulsatilla nigricans: A Case Report
84.	Bleeding nasal polyp in a child, treated with individualised homoeopathy: A case report
85.	Impact of homoeopathy along with yoga as an integrated pilot project with the National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke: A cross-sectional study
86.	Homoeopathic management of essential hypertension: A narative review
87.	A Scoping review on the utility of homoeopathy in the management of Schizophrenia
88.	Assessment and prediction of cardiovascular risk and associated factors among tribal population of Assam and Mizoram, Northeast India: A cross-sectional study
89.	Randomised controlled trial to compare efficacy of standard care alone and in combination with homoeopathic treatment of moderate/severe COVID-19 cases
90.	Homoeopathic Pathogenetic Trial of Catharanthus roseus: A Multicentric, Double-Blind, Randomized,Placebo-Controlled Trial
91.	Immunological Responses of Arsenicum album 30CH to Combat COVID-19: Protocol for a Double-Blind, Randomized, Placebo-Controlled Clinical Trial in the Pathanamthitta District of Kerala
92.	A mental health outreach program in child welfare centre with homoeopathy
93.	Individualised homoeopathic medicice versus placebo in the pain management of knee and hip oosteroarthritis: A double-blind, randomised controlled trial

94.	Homoeopathic management of non-responsive, nodulocystic acne: A case report
95.	Effectiveness of individualised homoeopathic intervention in warts
96.	Assessment Of Hypoglycemic Effect Of Homoeopathic Drug Insulinum In The Patients Suffering From Type 2 Diabetes Mellitus - A Prospective Non-Randomized Single Blind Clinical Trial
97.	Practice, Perception, Habits, Experience and Perception of Indian Homoeopathic Practitioners in treatment of Diabetes Mellitus : An online observational study
98.	Physicochemical standardisation of the Homoeopathic drug, Apis mellifica: A preliminary attempt
99.	A scientific convention on World Homoeopathy Day: 'Homoeoparivar – Sarvajan Swasthya, One Health One Family' - A conference report
100.	Effects of Individualized Homoeopathic Medicine in Haemorrhoid: a Single Blind, Simple Randomized, Placebo Control Study
101.	To evaluate the effectiveness of Homoeopathic Mother tincture <i>Sarothamnus scoparius</i> (also known as <i>Cytisus scoparius</i>) in managing essential hypertension
102.	A Scoping Review of the Literature on Homoeopathy in Child and Adolescent Psychiatry
103.	Constitutional Homoeopathic Treatment of Scrub Typhus Fever – A case report
104.	Acute and Sub-acute Oral Toxicity Assessment of Ferrum phosphoricum in Rats
105.	Atopic dermatitis treated with homeopathy
106.	Atopic Dermatitis Treated with Individualised Homoeopathy: A Case Report
107.	Homoeopathy in Psoriasis Vulgaris with Special Emphasis on Modified Naranjo Criteria for Homeopathy (MONARCH): An Evidence-Based Case Report
108.	A Systematic Review of Homoeopathic Research on Gout and Hyperuricaemia: Road Ahead
109.	Evaluation of Adjunctive Homoeopathy Treatment in COVID-19 Hospitalised Patients at the Gujarat State's Dedicated COVID-19 Hospitals and Covid-Care Clinics During the First Wave of COVID-19 Pandemic: A Multicentric, Single-Arm Retrospective Data Analysis Study
110.	Homoeopathy for obsessive-compulsive disorder: A case report
111.	Recurrent appendicitis treated with the homoeopathic medicine <i>Iris tenax 30C</i> : A case report.
112.	Post-partum depression managed with homoeopathic <i>Cimicifuga racemosa</i> in one week of inpatient treatment: A case report.
113.	Management of overt hypothyroidism with homoeopathic medicine Iodium - An evidence-based case report
114.	Management of erythrodermic psoriasis with individualised homoeopathy: An evidence-based case report.
115.	Monkeypox transmission: time to revisit the medical strategy of public health
116.	An analytical study to establish the role of <i>Calendula Q</i> as a topical wound dressing in partial-thickness burn wound

117.	Letter to the Editor: Homeopathic drug-induced liver injury —an example of biases pertaining to Roussel Uclaf causality assessment method
118.	Rebuttal to: A series of homeopathic remedies-related severe DILI from South India
119.	Homoeopathy for reducing the disruptive behavioural symptoms in children with conduct disorder-A case series
120.	Tinea Faciei Successfully Treated with Individualised Homoeopathic Medicine: A Case Report
121.	Homoeopathic Treatment of Sensitive Scalp: A Case Report
122.	Severe Depressive Episode with Psychotic Symptoms: A Homoeopathic Case Study
123.	Psychological trauma and depression in recovered COVID-19 patients: a telecommunication based observational study
124.	A Multi-Centric Single-Blind Randomized Placebo-Controlled Trial to Evaluate the Efficacy of the Individualized Homeopathic Intervention in Breast Fibroadenoma
125.	Homoeopathic Treatment for Diabetic Foot Ulcer- A Case Report
126.	Role of individualised homoeopathic medicine in the management of disruptive mood dysregulation disorder - A case report
127.	Homoeopathic approach in thyroid issues induced by Covid-19
128.	Corns of feet: Can homoeopathy be a better alternative? A narrative review
129.	Polycystic Ovarian Synome treated by Homoeopathy: An Evidence-Based Case Report
130.	Homoeopathic interventions for intellectual disabilities: Assessing caregiver burdens and behavioral improvements
131.	Homoeopathic Management Of Acute Psychotic Symptoms-A Case Series
132.	Unveiling the current landscape of clinical research in Homoeopathy-where do we stand
133.	Individualised Homeopathic Medicine :Resolved Multiple Recalcitrant Verruca Vulgaris: A Evidence -Based case report
134.	Homeopathic Medicines in the Management of Dermatophytosis (Tinea Infections): A Clinico-epidemiological Study with Pre-post Comparison Design
135.	Chronic Hand Eczema treated with an Individualized homoeopathic ultradilution - A Case Report
136.	Rating scales in psychiatric disorders -why?
137.	Writing effective Introduction of Research Article: Why and How?
138.	A Case study on Haemorrhoid
139.	Safety Evaluation of Arsenicum Album in Acute and Sub-Acute Toxicity Studies in Rats
140.	Mental disorders and the homoeopathic healing approach
141.	Homoeopathy in nutritional issues induced by Covid-19 crisis and beyond
142.	Prevalence of thyroid disorders in an out-patient department setting: a retrospective study
143.	Homeopathic preparation of Allium sativum abrogates OxLDL mediated atherogenic events in macrophages: An invitro and in silico approach

144.	Arsenic album 30C exhibits crystalline nano structure of arsenic trioxide and modulates innate immune markers in murine macrophage cell lines. Scientific Reports
145.	COVID-19 Study Group. Efficacy of Arsenicum album 30C in the Prevention of COVID-19 in Individuals Residing in Containment Areas: A Prospective, Multicenter, Cluster-Randomized, Parallel-Arm, Community-Based, Open-Label Study
146.	Effectiveness of Eupatorium perfoliatum 30C in Prevention of Dengue Fever and Acute Febrile Illness during 2017 Dengue Outbreak in Urban Slums of Delhi: A Prospective, Open-Label, Community-Based, Parallel Cohort Study

List of publications by CCRH during the year 2022-23

S.No.	Title
147.	Carpal Tunnel Syndrome treated with Homoeopathy: a case report
148.	Two Cases of Schizophrenia Treated with Individualized Homoeopathy
149.	The difficulties faced by homoeopathic physicians in the management of patients
150.	Complete Resolution of Peptic Ulcer by Individualised Homoeopathic Anti Miasmatic Treatment- A Case Report
151.	A Randomised Placebo-Controlled Clinical Trial of Homeopathic Medicines on Osteoarthritis
152.	Homoeopathic Treatment of Submandibular Sialolithiasis with Baryta iodatum: A Case Report
153.	Individualised Homoeopathic Treatment in Plantar Callosities: An Evidence-Based Case Report
154.	Patient Satisfaction Survey for the Telemedicine Services during the Second wave of the COVID-19 pandemic in the Homoeopathic Research Institutes of West Bengal
155.	A Randomised, double-blind and placebo-controlled and parallel-arm trial to assess the effect of homoeopathic medicines on chronic rhinosinusitis
156.	Knowledge, Awareness, attitude and practice of Indian homoeopathic physicians about pharmacovigilance in homoeopathy: A web-based, cross-sectional study
157.	Homoeopathy in the management of generalised anxiety disorder: A case report
158.	The Difficulties Faced by Homoeopathic Physicians In the Managements Of Patients
159.	Occurrence of Ranunculus sceleratus L. (Ranunculaceae) from the Nilgiri District, Tamil Nadu, India,
160.	Homeopathic Treatment of Nonbullous Impetigo: An Evidence-based case report
161.	Prevalence of adjustment disorder during COVID-19 in North East India: An observational study
162.	Homoeopathic Treatment of young females of age group between 6-18 years with Subclinical Hypothyroidism: A Prospective Observational Study

163.	Camphora Augments Humoral Mediated Immunity and Decreases Delayed type Hypersensitivity in BALB/c Mice
164.	COVID-19 Cases and Comorbidities: Complementary and Alternative Medicinal Systems (CAM) for Integrated Management of the Pandemic.
165.	Ultradiluted Eupatorium perfoliatum alleviates DENV-induced fibrosis by regulation of TGFβ1, MMP-9 and interferons.
166.	Tumor-associated macrophages: an effective player of the tumor microenvironment.
167.	Safety Evaluation of Arsenicum album 6C in Cell Lines and BALB/c Mice Through Toxicity, Proliferation and Apoptosis Studies.
168.	Ultradiluted SARS-CoV-2 Spike Protein mitigates hyperinflammation in lung via ferritin and MMP-9 regulation in BALB/c mice
169.	Preparation, Standardization and Anti-plasmodial Efficacy of Novel Malaria Nosodes
170.	Antiviral and anti-inflammatory activity of novel belladonna formulation against Japanese encephalitis virus via inhibition of p65 nuclear translocation and TNF-α mediated NF-kB signaling
171.	Effectiveness of Arsenicum album 30C in Prevention of COVID-19 in Individuals Residing in Containment Zones of Delhi-A Prospective, Community-based, Parallel Cohort Study. Homeopathy
172.	Efficacy of individualized homeopathy as an adjunct to standard of care of COVID-19: A randomized, single-blind, placebo-controlled study

3. List of completed Projects in the last 3 years in the CCRAS

2021-22	
1.	Clinical evaluation of Shadbindu Taila Nasya and Chitraka Haritaki in the management of Pinasa (Chronic Rhinosinusitis)
2.	Clinical evaluation of Pathyadi Kwatha and Anu Taila Nasya in the management of Ardhavabhedaka (Migraine).
3.	Clinical evaluation of the efficacy of Pushyanuga Churna and Usheerasava in the management of Abnormal Uterine Bleeding.
4.	Clinical evaluation of Jatiphaladya Churna & Chitrakadi Gutika in the management of Grahani
5.	Clinical evaluation of Panchatikta Ghrita and Gandhakadya Malahara in the management of Vicharchika (Eczema)
6.	Clinical Evaluation of Chitraka Haritaki and Lavangadi Vati in the management of Kaphaj Kasa (Stable Chronic Bronchitis)
7.	Clinical evaluation of Agashtya Haritaki Rasayana and Apamarga Kshara in the management of Mild Stable Bronchial Asthma (Tamaka Shwasa)
8.	Clinical efficacy of Kaishore Guggulu and Balaguduchyadi Taila in the management of Gout (Vatarakta)
9.	Clinical evaluation of the efficacy of Soubhaya Shunthi Paka and Dashmularishta in Sutika Paricharya (Post Natal Care)
10.	Clinical evaluation of Drakshavaleha in the management of Pandu (Iron Deficiency Anaemia)
11.	Clinical evaluation of Shatavari Guda and Ashokarishta in the management of Asrigdara (Abnormal Uterine Bleeding)

12.	A Prospective open labelled observational study to document the potential safety issues and prescription trends in Selected Rasausadhi's in CCRAS -OPD'S across India
13.	A cross sectional study on Knowledge, Aptitude and practice on Gastro-intestinal disorders among Ayurveda and Allopathic Fraternity
14.	Efficacy and safety of Ayurveda interventions for <i>Sinusitis</i> - A Systematic Review
15.	Ayurveda intervention in <i>Iron Deficiency Anemia</i> : A systematic review
16.	Efficacy and Safety of Ayurveda interventions for <i>Obesity</i> : A Systematic Review.
17.	Ayurvedic interventions in <i>Gout</i> : A systematic review
18.	Ayurveda intervention for <i>Parkinson's Disease</i> : A systematic review
19.	Ayurveda Interventions for <i>Dry Eye Syndrome</i> - A Systematic Review.
20.	Ayurvedic treatment in <i>Hemiplegia</i> : A systematic review
21.	Systematic review and Meta-analysis of Ayurvedic interventions for <i>Conjunctivitis</i> .
22.	Ayurveda Interventions for <i>Diabetic Retinopathy</i> - A Systematic Review
23.	Ayurveda Interventions for <i>Glaucoma</i> - A Systematic Review
24.	Ayurveda interventions for <i>Sciatica</i> : A systematic review
25.	Systematic Review on efficacy of Ayurveda interventions in <i>Bronchial Asthma</i> .
26.	Ayurveda Interventions for <i>Depression</i> - A Systematic Review.
27.	Ayurveda Interventions for <i>Anxiety Disorders</i> - A Systematic Review.
28.	Ayurveda management of Fistula in Ano: A systematic review
29.	Systematic Review of Efficacy and Safety of Ayurveda interventions for <i>Female Infertility</i>
30.	Systematic review and Meta-analysis of Ayurvedic interventions for <i>Urolithiasis</i> .
31.	Effectiveness and safety of Ayurveda intervention in children and adolescent with ADHD.
32.	Efficacy and safety of Ayurveda intervention in <i>Essential Hypertension</i> : A systematic review.
33.	Efficacy and safety of Ayurveda interventions for <i>Allergic Rhinitis</i> : a systematic review.
34.	Efficacy and safety of Ayurveda interventions for <i>PCOS</i> : A Systematic Review.
35.	A systematic review of the safety and efficacy of Ayurveda interventions for Hepatitis.
36.	Ayurveda Interventions for <i>Epilepsy</i> : A Systematic Review
37.	Ayurveda Interventions for <i>Diabetes</i> : A Systematic Review
38.	Ayurveda Interventions for <i>Hypothyroidism</i> : A Systematic Review
39.	Research and Statistical methods employed in Ayurveda Research in Post-Independence India : A Systematic review
40.	Systematic review and Meta-analysis of Ayurvedic interventions for <i>Rheumatoid Arthritis</i> .
41.	Ayurveda Interventions for <i>Acid Peptic Disorder</i> : A Systematic Review
42.	Systematic review and Meta-analysis of Ayurvedic interventions for <i>Dysmenorrhoea</i> .
43.	Efficacy and safety of Ayurveda interventions for <i>Psoriasis</i> : a systematic review.
44.	A Randomized Placebo Controlled Prospective Phase II Clinical Study of an Ayurvedic Coded Drug 'AYUSH-D' on Glycemic control in Pre-Diabetic Subjects
45.	A Randomized Placebo Controlled Phase II Clinical Study of an Ayurvedic Coded Drug 'AYUSH-D' in the management of Type 2 Diabetes Mellitus as add on Therapy to Metformin

46.	Multi-centric Collaborative Double Blind study on clinical evaluation of AYUSH-SL in chronic Filarial Lymphoedema in patients receiving mass drug administration
47.	Documentation of efficacy of select AYUSH Interventions Ayush-64 and Kabasura Kudineer in asymptomatic & mild to moderate COVID-19 patients in home isolation through a mobile app: A prospective multicenter Community based study
48.	Assessment of integration of ayush into the public health system for combating COVID-19
49.	Efficacy and Safety of AYUSH-64 as standalone or adjunct to standard care in COVID-19: A Systematic Review
50.	Compendium of Ayurveda Dietetics with reference to Oil Seeds
51.	Development of pictorial database of economically important parts of selected medicinal plants (RARI, Pune)
52.	Qualitative authentication of selected market samples of crude drugs available in various markets of India (RARI, Jammu)
53.	Development of Agro-technique for High Altitude Endangered Medicinal plants of Trans-Himalayan region (NSIR Leh)
54.	Development of Agro techniques of two important medicinal plants through Vrikshayurveda concepts (CARI, Jhansi)
55.	Digitization of Herbarium Sheets and Development of Digital Herbarium at Regional Ayurveda Research Institute, Jhansi
56.	Comparative Evaluation of Market Formulations of Some Ayurvedic Guggulu for Quality assessment
57.	Development of Quality standards and SOP's for KuberakshaVati
58.	Development of Quality standards and SOP's for Formulation AYUSH Bala Rakshak Leham
59.	Development of Quality standards and SOP's for Formulation AYUSH Bala Rasayana Tablet
60.	Development of Quality standards and SOP's for the formulation AYUSH-SS Granules
61.	Development of Quality standards and SOP's for Formulation Nimbadi churna
62.	Development of Quality standards and SOP's for Formulation Bharngyadi Kwath churna
63.	Development of Quality standards and SOP's for Formulation Panchavalkal Kwath churna
64.	Development of Quality standards and SOP' for Dasmula Tail (Bharat Bhaishajya Ratnakar, Part-I, Karnaprakarna, Page No. 72 (3090
65.	Feasibility of bulk preparation and quality control of selected classical Ayurvedic vatis preparations for research purpose
66.	Feasibility of bulk preparation and quality control of selected classical Ayurvedic churna preparations for research purpose
67.	Preclinical Standardization and Development of Standard Operating Procedure for AYUSH Coded Drug SG-5
68.	Development of Quality standards and SOP's for Formulation Udumbardi Taila
69.	Development of SoPs and standardization of different preparation techniques of the Netra Putapaka formulation use for Ophthalmic use
70.	Development of Medicinal Plant garden for Veterinary Ayurveda Research at GADVASU, Ludhiana, Punjab
71.	Biochemical and Pharmacological Evaluation of Kaishore Guggulu in Experimental Models of Gout (Vatarakta)

72.	Effect of Haritkadi yoga on Middle cerebral artery occlusion ischemic-reperfusion injury and its safety in rats
73.	Exploration of safety and reproductive toxicity profile of AYUSH GG tablets
74.	Evaluation of in vivo antidiabetic activity of AYUSH 82
75.	Exploration of safety and reproductive toxicity profile of AYUSH AG tablets
76.	In-vitro evaluation of anti-diabetic activity of AYUSH-82 using proteomic and metabolomic tools
77.	Expansion of Integrated E-Books Portal (Āyurveda Grantha Samuccaya) by inclusion of classical books on Medieval period
78.	Drafting of W.H.O International Terminologies of Ayurveda (ITA)
79.	Critical Edition and Publication of Carakasamhita, Susrutasamhita and Astangahridaya incorporating various available commentaries
80.	Implementation & Maintenance of “National AYUSH Morbidity and Standardized Terminologies Portal (NAMSTP)
81.	AYUSH Research Portal
82.	E-Book preparation of Kamil al-Sana’ah al-Tibbiya (Arabic Text) written by al-Majusi (Haly Abbas) (d. 994 AD)
83.	Documentation of Visha Chikitsa Practices
84.	English and Hindi Translation of Netra Prakashika
85.	Translation of a valued Sanskrit Compendium ‘Hastyayurved and Ashva-Vaidyakam and Ashva-chikitsitam’ to English
2022-23	
86.	An open label clinical trial to evaluate clinical efficacy and safety of Ayush AGT in Dandruff (Darunaka)
87.	Clinical Evaluation of Varunadi Kwath Churna and Apamarga Kshara in the management of Mutrashmari (Urolithiasis)
88.	Clinical evaluation of Ayurvedic Formulations Puga Khanda and Ayush PVK Gel in the management of Swetapradara (Pathological Leucorrhoea)
89.	Clinical Evaluation of Nimbatiktam and Lajjalu Keram Gel in the Management of Psoriasis.
90.	Clinical evaluation of Lavanbhaskara Churna in the management of Amajirna - a randomized parallel group study.
91.	Clinical evaluation of Panchatikta Ghrita and Nalpamaradi Taila in the management of Vicharchika (Eczema)
92.	Clinical evaluation of Jirakadyarishta in the management of Grahani.
93.	Clinical evaluation of Panchatikta Ghrita & Nalpamaradi Taila in the management of Psoriasis.
94.	Clinical evaluation of Mustakarishtha in the management of Grahani
95.	Clinical evaluation of Vajra Kshara in the management of Amajirna - a randomized parallel group study.
96.	An open label clinical Trial to evaluate clinical efficacy and safety of Ayush AGT for external wounds.
97.	Clinical evaluation of the Efficacy of Varunadi Kwatha and Chandraprabha Vati in the management of Mutrasmari (Urolithiasis)
98.	Clinical Evaluation of Lohasava and Amalaki Churna in the management of Pandu Roga (Iron Deficiency Anaemia)
99.	Randomized Double-Blind Trial for clinical evaluation of Ksharsutra prepared manually and by Automated machine in Fistula-in-Ano (Bhagandara)

100.	Clinical evaluation of Ayurvedic formulations Shatavari Gudam & Triphala Kashaya in Shwetapradara (Leucorrhoea)
101.	Feasibility of introducing Ayurveda intervention in Reproductive and Child Health (RCH) in PHCs of 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)
102.	Randomized control study to evaluate the efficacy of Ayush CCT and Rajyoga Meditation versus conventional treatment on clinical recovery and post operative outcomes following elective adult cardiothoracic surgeries
103.	Validation and Reliability Testing of Ayurveda Diagnostic Methods
104.	Clinical evaluation of the efficacy of “Ayush- SS Granules” in exclusively breastfeeding mothers with Insufficient Lactation (Stanyalpata)-A Randomized double blind placebo control Trial”.
105.	A Randomized control trial to evaluate the efficacy of Ayurvedic interventions (Agastya Haritaki and Ashwagandha) and Yoga in long term effects of COVID -19.
106.	The impact of Chyawanprash on immunogenicity when administered after COVID-19 vaccination in health care personnel - An open-label, prospective randomized controlled study
107.	Anthology of Survey Research Outcomes from Medico-Ethno Botanical Survey (MEBS)
108.	Medico Ethno-Botanical survey in the forest areas of Senapati and Imphal West districts of Manipur state and preparation of Monographs
109.	Medico Ethnobotanical survey in the forest areas of Palakkad district of Kerala and preparation of Monographs
110.	Experimental Development of Microforest of Medicinal Plants by using Miyawaki Method of Plantation at Gardens of CCRAS
111.	Exploration, acclimatization and in vitro propagation of medicinal plants being used under the name Agnimantha
112.	Development of in vitro and in vivo propagation protocol of two important medicinal plants used by the tribal
113.	Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India (Part-II) at CSMCARI, Chennai
114.	Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India (Part-II) at RARI, Pune
115.	Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India (Part-II) at CARI, Kolkata
116.	Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India (Part-II) at RARI, Gwalior
117.	Establishment of Herbal Garden and Nursery centre at CCRAS institutes funded by NMPB
118.	QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of AYUSH CCT.
119.	QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of AYUSH Manas and AYUSH SR.
120.	QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of Nimbatiktam Capsules and Lajjalukeram Gel (prepared trial drugs).

121.	Qualitative and Quantitative analysis of Markers/PRS & Shelf life studies of Carctol - S Capsules, Ayush-SL Tablets and Ksharasutra formulations (prepared trial drugs)
122.	Development of Quality standards and SOP's for Formulation Sthanyashodhana Kashaya Ghanvati
123.	A biochemical role of AYUSH-PTK, an Ayurvedic formulation against anti-tubercular drug induced hepatotoxicity in rats.
124.	Evaluation of Antidiabetic activity of Vasant kusumakar rasa in Streptozotocin and High fat diet induced diabetes in Sprague Dawley rats.
125.	Acute and 90 days repeated dose oral toxicity study of Ayush-64 in Experimental Animals.
126.	Study on biochemical markers for neuroprotective role of Sarasvata Ghrita in aluminium chloride induced rat model of Alzheimer's disease.
127.	Evaluation of acute toxicity of some Ayurvedic dugs / plant extracts in in-vivo model of zebrafish.
128.	Toxicity study and Evaluation of Anti-dyslipidemic Activity of Vyosadi Guggulu in Wistar Rats.
129.	Evaluation of Anti-inflammatory, Anti-arthritic and Analgesic Activity of Simhanada Guggulu on experimental animal models.
130.	English translation of Abhinava Chintamani and Editing of Hindi version of the text published by the Council
131.	Ayurveda in Buddhist Literature (Tripitaka): A Medico-Historical Investigation
132.	Developing of SNOMED-CT Extension for Ayurveda through National Resource Centre (NRC) for EHR Standards (NRCeS), C-DAC, Pune
133.	Software up gradation and maintenance of CCRAS AYUR Prakriti Web Portal
134.	Publication of Dravyaratnakara Nighantu
135.	Preparation of Museum Guide & Documentary on NIIMH- Medical Heritage Museum
136.	Documentation of lesser known practices relating to Panchakarma
137.	Digitization of Triskandhakosh" published by Tilak Maharashtra Vidyapeeth, Pune
138.	Development of Automated Basti Yantra- A comprehensive tool for administration of enema
139.	Formulation, standardization and process validation of Laghu Sutashekar Rasa Tablet.
140.	Process validation, pharmaceutical standardization and accelerated stability study of Ayush LND Tablets
141.	Process validation, pharmaceutical standardization and accelerated stability testing of Bhallatakadi Modaka
142.	Process validation and pharmaceutical standardization of Pishtis of Akika, Jaharamohara, Badarashma, and Trinakantamani and their chemical analysis by advanced analytical techniques
2023-24	
143.	Evaluation of AYUSH-SR Tablet in occupational stress among Nurses – a randomized double blind placebo controlled clinical study.
144.	Clinical evaluation of Gokshuradi Guggulu and Nimbadi Churna in Vatarakta (Gout)
145.	Evaluation of efficacy and safety AYUSH M-3 in the management of Pre-Hypertension – A double blind randomized control clinical study
146.	Clinical evaluation of Vidanga churna and Vyoshadi Guggulu in the management of Medoroga (Obesity)

147.	Clinical evaluation of Khadirarishta, Kaishor guggulu and Gandhakadya Malahar in the management of Vicharchika (Eczema)
148.	Randomised placebo controlled double blind clinical trial on the efficacy of AYUSH MANAS in the management of Smriti Dourbalya (Cognitive deficit)
149.	Ayurveda Interventions for Cancer: Systematic Review, Meta-analysis; and Revival, Documentation, Validation and analysis of data from practitioners, institutes.
150.	A comparative clinical study of Ayush LND a coded Ayurvedic formulation in the management of Asrigdara (Abnormal Uterine Bleeding)
151.	A Randomized controlled trial to evaluate the efficacy of Marma therapy in Lumbar disc Herniation with Radiculopathy.
152.	Efficacy of Ayurveda nutritional supplements and Yoga protocol in the prevention and reduction of the severity of Acute Mountain Sickness: an open-label randomized controlled study
153.	A pilot study to assess the effect of intranasal oil instillation (Pratimarsha Nasya) on nasal barrier function among healthy individuals
154.	Prospective double blind randomized controlled clinical study on Ayurvedic intervention (Sarpagandha Mishran) vs. Amlodipine in the management of stage-I Primary Hypertension
155.	A study of Ashwagandha administration in participant vaccinated against COVID-19 on safety, immunogenicity and protection: A randomized, double blind placebo controlled multi-centric clinical trial.
156.	Knowledge, Attitudes, and Practices (KAP) towards Swarnaprashana among Parents: A cross-sectional Study
157.	Knowledge, Attitude, and Practice (KAP) towards Swarnaprashana among Ayurveda Practitioners: A Cross-sectional study
158.	Assessing the Knowledge, Attitudes, and Practices of Ayurvedic physicians in Kerala towards Millet-Based Recipes (MBR)-A pilot cross sectional study
159.	Anthology of Survey Research Outcomes from Medico-Ethno Botanical Survey
160.	Anthology of Survey Research Outcomes from the Medico-Ethno Botanical Survey
161.	Anthology of survey research outcome from Medico Ethno Botanical Survey (RARI, Itanagar)
162.	Anthology of Survey Research Outcomes from Medico-Ethno Botanical Survey (CARI, Guwahati)
163.	Medico Ethnobotanical survey in the forest areas of Wayanad district of Kerala
164.	Mass cultivation of selected economically important medicinal plants
165.	Pharmacognostical Evaluation of Medicinal Plants cited in Ayurvedic Formulary of India excluding the plants mentioned in Ayurvedic Pharmacopoeia of India, Part II
166.	Photographic Atlas on Macro-microscopic Characteristics of Medicinal plants listed in Ayurvedic Pharmacopoeia of India, Part-I, Volume- II
167.	To establish the best procurement time for certain herbs by analyzing the seasonal variation in bioactive secondary metabolite with quantitative HPLC, PART-II
168.	SoP's standardization of identified ayurvedic herbomineral preparations viz. Shwasakuthara Rasa and Mrityunjaya Rasa.
169.	Acute and 90-day repeated dose oral toxicity study of AYUSH-SC 3 in Experimental Animals.
170.	Anti-arthritis activity of AYUSH SG -5 in Experimental Animals.
171.	Clinical evaluation of efficacy of Ayurvedic formulation (AYUSH V-13) for augmentation of Milk production in ruminants

172.	Clinical evaluation of the efficacy of AYUSH V-24 (a coded Ayurvedic formulation) in the management of selected Gastro Intestinal Illness in ruminants.
173.	Acute oral toxicity and 90-days repeated dose oral toxicity study of coded drug AYUSH PK Avaleha.
174.	Evaluation of Anti-diabetic Activity of Nisha Triphala Yoga in Streptozotocin and High fat diet-induced Diabetes in Sprague Dawley rats.
175.	Pharmacological Evaluation of KutajghanVati in Experimentally-induced Colitis in Rats
176.	Editing and Translation of Tibb-e-Ghiyasia (A manuscript on medicine) written by Hakīm Ain al-Mulk Shirazi (d. 1595 AD) from Persian into English
177.	Historical and Etymological analysis of Homeopathic Terminologies
178.	Upgradation and Maintenance of Ayurvedagranthasamuccaya Portal – APTA Digital Library
179.	Documentation of Life Profiles of Luminaries in the field of Ayurveda
180.	An exploratory study of Ushna and Shita Virya based on mitochondrial ATP regeneration and electron transport.
181.	Assessment of Prakriti (Ayurvedic Body Constitution) of Patients with Cervical and Ovarian Cancers
182.	Pharmaceutical standardization of five Calcium containing Bhasmas (Shankha, Shukti, Varatika, Godanti and Kukkutandatwak) and their chemical analysis by advanced analytical techniques.

4. Projects Supported in last 03 years under Research & Innovation in Ayush Component of Ayurgyan scheme

S. No.	Name of the organisation	Study title	State
2024-25			
1.	Kasturba Medical College, Manipal Academy of Higher Education, Manipal	Exploration of physiological action of homoeopathic anti-anxiety mediating human GABAergic and serotonergic neurons	Karnataka
2.	National Institute of Technology, Rourkela, Odisha	Gomutra Ark as a potent anti-cancer agent for the treatment of Oral Squamous Cell Carcinoma - Molecular Mechanism underlying its anti-cancer effect	Odisha
3.	Dr. ALM postgraduate Institute of Basic Medical Sciences, University of Madras, Taramani campus, Chennai	Identifying the mechanism behind the cardio-protective efficacy of Bombyx mori (Abresham) on pressure overload induced cardiac hypertrophy and fibrosis An experimental study using C57/BL mice	Tamil Nadu

4.	SDM College of Medical Sciences & Hospital, Sattur, Dharwad	Effect of Yoga on Endothelial Function and Vascular Aging in Individuals with Type-2 Diabetes (Yoga V-Age): A Randomized Controlled Trial	Karnataka
2023-24			
5.	Asthagiri Herbal Research Foundation Perungudi Industrial Estate Perungudi Chennai	Process Standardization and exploration of novell Saarapathangam Preparation for its role in the management of oropharyngeal cancer	Tamil Nadu
6.	All India Institute of Medical Sciences, Ansari Nagar, New Delhi	Impact of Yoga based lifestyle intervention on Polycystic Ovarian Syndrome (PCOS)	Delhi
7.	Central India Institute of Medical Sciences (CIIMS), Nagpur	Evaluation of Cow urine distillate as a bio-enhancer to increase the efficacy of anti-TB drugs against M. tuberculosis infection.	Maharashtra
8.	JSS Ayurveda Medical College & Hospital, Mysuru	A Comparative clinical study to validate the influence of Gandha taila and Ksheerabala taila 101 on Osteopenia and Osteoporosis using biochemical markers of bone formation and resorption.	Karnataka
9.	Indian Institute of Technology, Roorkee	Molecular studies of pharmacologically active antiviral molecules in Gau mutra distillate and drug extract against Chikungunya and Dengue.	Uttarakhand
10.	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	Maharashtra
11.	Maulana Azad Institute of Dental Sciences	A Randomized Clinical Controlled trial to evaluate the efficacy and safety of Ayurveda interventions in Chemo/Radiotherapy induced Oral Mucositis in Oral Carcinoma.	Delhi
12.	All India Institute of Medical Sciences, Ansari Nagar	Neuroprotective effect of medicinal plants of Ayurveda in glauco vitro mechanistic study	Delhi
13.	School of Bio-Sciences and Technology, Vellore Institute of Technology, Vellore	Therapeutic evaluation of an unani herbal medicine against rheumatoid arthritis (Wafa-ul-mafasil)-an immunological approach for scientific validation.	Tamil Nadu
14.	Jamia Hamdard	Molecular mechanism of action of metalloid Unani Kushtajat for their role in protection against cellular stress.	Delhi
2022-23			

15.	International Centre for Genetic Engineering and Biotechnology	Comparative and combined efficacy evaluation of extracts of Nilavembukudineer and vathasurakudineer.	Delhi
16.	All India Institute of Medical Sciences	The effect of structured yoga practices on the quality of life and clinical outcomes in patients with ulcerative colitis.	Delhi
17.	ICMR-National Institute of Epidemiology TNHB, Chennai	Health system preparedness of Siddha system of medicine in Non-Communicable Diseases (NCDs), Tamil Nadu: Current status, stakeholder perspectives and cost analysis.	Tamil Nadu
18.	Indian Institute of Technology Madras	Effect of ghee from indigenous cow milk on cognition and neuro-protection against Alzheimer's disease.	Chennai
19.	All India Institute of Medical Sciences, New Delhi	Randomized Controlled Trial on effect of Indigenous Cows Ghrita and Jatyadi Ghrita on wound healing.	Delhi
20.	All India Institute of Medical Sciences, New Delhi	Management of Long COVID symptoms with Yoga based rehabilitation as an add on therapy to the standard care: A randomised controlled trail.	Delhi

5. Projects Supported Since inception (2023-2024) under Ayurveda Biology Integrated Health Research Component of Ayurgyan scheme

Sl. No	Name of the Institution	Study Title	State /UT
2024-25			
1.	Intox Pvt. Ltd. Pune	Development of technical dossier of Boswellia serrate – stage 2 (preclinical studies –oral toxicity, genotoxicity, efficacy, pharmacokinetic studies and safety pharmacology in rodents)	Maharashtra
2.	Adigyl Life sciences Pvt. Ltd	Development of Technical dossier of Bacopa Monnieri –stage 1 (preclinical studies-oral toxicity, genotoxicity, efficacy pharmacokinetic studies and safety pharmacology in rodents)	Karnataka
3.	Jai Research Foundation Valvada	Development of Technical dossier of Zingiber Officinale –stage 1 (preclinical studies-oral toxicity, genotoxicity, efficacy, pharmacokinetic studies and safety pharmacology in rodents)	Gujarat

4.	Laila Neutraceuticals, Vijaywada	Development of Drug master file and technical dossier of Trigonella Foenum graecum-stage 1 (pre-clinical studies-oral toxicity genotoxicity ,efficacy, pharmacokinetic studies and safety pharmacology in rodents)	Andhra Pradesh
2023-24			
5.	Laila Neutraceuticals Vijaywada	Development of Drug master file and technical dossier of Trigonella Foenum graecum-stage 1 (pre clinical studies-oral toxicity genotoxicity ,efficacy, pharmacokinetic studies and safety pharmacology in rodents)	Andhra Pradesh
6.	Dabur Research Foundation, Ghaziabad	Development of Technical dossier of Withania somnifera –stage 2 (preclinical studies, oral toxicity, gebno toxicity, efficacy, pharmaco kinetic studies and safety pharmacology in rodents).	Uttar Pradesh

Research And Development in ASU&SR Sector:

1. STUDENTSHIP PROGRAM

• SPARK PROGRAM-

NCISM in collaboration with CCRAS under Studentship Program for Ayurveda research Ken (SPARK), for 100 undergraduate students of Ayurveda colleges was launched last year. A studentship of Rs 25000 per month for two months is being given.

• SPUR PROGRAM-

In Association with Central Council for Research in Unani Medicine (CCRUM), NCISM implemented studentship program for Unani Research (SPUR) for undergraduate students to promote research aptitude. A studentship of Rs 25000 per month for two months is being given.

2. PG-STAR PROGRAM-

NCISM in collaboration with CCRAS has launched a Scheme for Training in Ayurveda Research for Post Graduate Scholars (PG-STAR). This programme has a provision for a studentship of amount Rs.100000/- to 100 selected PG students for their dissertation work.

3. PUBLICATION GRANT

NCISM is giving publication grant to eligible candidates for publication of research papers in quality journals as per the guidelines issued by the NCISM.

4. RESEARCH & INNOVATION CELL

A cell namely RESEARCH & INNOVATION CELL has been introduced under the Regulations of Minimum Essential Standards, Assessment and Rating for Undergraduate Colleges and Attached Teaching Hospitals) Regulation, 2023 & 2024 for respective Ayurveda, Siddha, Unani & Sowa Rigpa system medicine (ASU&SR) to facilitate activities related to innovation, incubation, research, publication and IPR (intellectual property rights).

5. CAPACITY BUILDING AND TRAINING PROGRAM

MOU has been signed on 13/10/2023 at Hyderabad between National Institute for Micro, Small and Medium Enterprises (NI-MSME), an organisation of Ministry of MSME, Govt. of India and National Commission for Indian System of Medicine (NCISM), and the programme was launched on 18.12.2023. NI-MSME and NCISM decided to organise series of Training of Trainers on Entrepreneurship Development for Coordinators of Research and Innovation Cell of Ayurveda/Unani/Siddha/ Sowa Rigpa Colleges (ASUS Colleges) spread across the country.

The objective of the Program:-

Training of Trainers (ToT) aims at equipping participants with skills and knowledge that are essential for inculcating entrepreneurial values in trainees by guiding and mentoring their progress towards entrepreneurial career in Indian Medicinal Sector.

6. DEPARTMENT OF INTEGRATIVE HEALTH AND TRANSLATIONAL RESEARCH IN POSTGRADUATE INSTITUTION

NCISM published regulations "National Commission for Indian System of Medicine (Minimum Essential Standards, Assessment and Rating for Postgraduate Institutions and Minimum Standards of Postgraduate Ayurveda/Unani/Siddha Education) Regulations, 2024 of respective system of medicine, for the establishment of the Department of Integrative Health and Translational Research. In the regulation it is mentioned the following to establish Department of Integrative Health and Translational Research in every ASU Postgraduate Institutions.

"Each Postgraduate institution irrespective of the Postgraduate programmes being conducted, shall establish the Department of Integrative Health and Translational Research. The Central Research Laboratory, Quality Testing Laboratory, Animal House and Animal Experimentation Laboratory, and Research committees such as Institutional Research Committee, Institutional Ethics committee for Human Subjects, Institutional Animal Ethics Committee, Clinical Research Cell, and Plagiarism Scrutiny Cell shall function under this Department."

7. PRANA (PROTECTING RIGHTS AND NOVELTIES IN ASUS)

Considering huge number of innovations that ought to be patented, commercialization or technology transfer of patented items, or establish start-ups, NCISM organized a two day national conference to hand-hold the innovators in ISM. The national conference was conducted in association with AICTE, MOE's Innovation Cell, Mistry of Education and Kalam Program for IP Literacy and Awareness (KAPILA). The successful entrepreneurs were guided through hand-hold, face-to-face interactions and focused group discussions.

Ongoing projects pertaining to traditional medicines/medicinal plants

- A clinical trial entitled “Efficacy and safety of Punarnavadi Mandura alone and in combination with Drakshavaleha compared to iron folic acid in the treatment of moderate iron deficiency anaemia among non-pregnant women of reproductive age group: a community-based three arm multicentre randomized controlled trial” with Standardized Ayurvedic preparation in the area of Anemia in women has been initiated.
- Efficacy and safety of ointment containing 5% essential oil from *Mammea suriga* flower buds for diabetic foot ulcers: A multicentric parallel-group randomized controlled trial.
- Multicentric, randomized, double-blind, parallel-group, controlled trial to evaluate efficacy and safety of gel containing *Plumbago zeylanica* root for mild to moderate osteoarthritis of knee.
- Evaluation of Triphala as an Adjuvant Intervention for Sustained Weight Loss in Overweight and Obesity: A Randomized Clinical Trial and Preclinical Study.
- ICMR has published and recorded research information on about 8000 medicinal plants species found in India through 31 volumes of “Reviews on Indian Medicinal Plants” and developed 17 volumes of “Quality Standards of Indian Medicinal Plants” comprising 450 medicinal plant species.
- Government has also recently launched five (5) AI-ACHIR (AYUSH-ICMR Advanced Centre for Integrated Health Research) at AIIMS institutions that are expected to validate Traditional medicines effectiveness and safety through rigorous scientific evaluation, which consequently will enhance the acceptability of Traditional medicines worldwide. It will also develop a dynamic and vibrant ecosystem of integrative health research through integrating Ayush system with conventional bio-medicine, and modern technology to bring integrative health care to the people through innovations related to diagnostics, preventive, health promotive, restorative as well as treatment methods. AI-ACHIR will also help in achieving the goal of “One Nation One Health” through evidence-based integrative preventive and management approaches by integrating Ayush and conventional health system with cost effective approaches contributing to the health economics and reducing the disease burden and disability adjusted life years (DALYs).

Details of quality standards on raw materials published

Name of Pharmacopoeia	Published quality standards of single drugs
Ayurvedic Pharmacopoeia on India (Part I, Vol. VIII to X)	125
Siddha Pharmacopoeia on India (Part I, Vol. II)	66
Unani Pharmacopoeia on India (Part I, Vol. VII)	40
Homoeopathic Pharmacopoeia on India (Vol. X & XI)	342

Details of quality standards published

Name of Pharmacopoeia	Published quality standards of formulations
Ayurvedic Pharmacopoeia on India (Part II, Vol. III to V)	122 and 01 standalone quality standard
Siddha Pharmacopoeia on India (Part II)	01 standalone quality standard
Unani Pharmacopoeia on India (Part II Vol. II to IV)	151 and 01 standalone quality standard

Details of formulary specifications of ASU drugs published

Formulary	Specifications
Ayurvedic Formulary of India	350 (Part III) and 01 standalone formulary specification
Siddha Formulary of India	532 (Part I to III) and 01 standalone formulary specification
National Formulary of Unani Medicine	139 (Part VI) and 01 standalone formulary specification

The details of Centre of Excellence (CoE) for enhancing research in Ayush

S. No.	Name of the Organization	State	Project Name
1.	Tata Memorial Centre, (TMC) Mumbai	Maharashtra	Centre of Excellence for Discovery and Development of AYUSH Medicine for Cancer Care
2.	Central Drug Research Institute (CDRI), Lucknow	Uttar Pradesh	Center of Excellence for Fundamental and Translation Research in Ayurveda at Central Drug Research Institute
3.	Jawaharlal Nehru University, (JNU) New Delhi	Delhi	Functional-based CoE on Ayurveda and Systems Medicine
4.	Indian Institute of Technology (IIT) Delhi	Delhi	Centre of Excellence in Sustainable Ayush for Advanced technological solutions, startup support and net zero sustainable solutions for Rasausadhies
5.	Indian Institute of Science (IISc) Bengaluru	Karnataka	Centre of Excellence in Diabetes and Metabolic Disorders
6.	Centre for Integrative Medicine and Research (CIMR), AIIMS New Delhi	Delhi	Centre of Excellence for Yoga & Ayurveda
7.	National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore	Karnataka	Centre of Excellence in Ayush Research
8.	Institute of Liver and Biliary Sciences (ILBS)	Delhi	Effects of Indian Foods and Ayurvedic drugs on healthy and Diseases Liver
9.	Indian Institute of Technology, (IIT) Jodhpur	Rajasthan	Centre of Excellence in AYURTech for Integrative Precision Health and Medicine
