Completed research projects

Sl no.	Title	Summary
	CLINICAL	
1.	Clinical evaluation of Lashunadi vati and Pippalyadyasava in the management of Agnimandya-A randomized parallel group study	Target 110 patients , Project completed.(June 2025) Target Achieved 110 cases
2.	Knowledge, Attitude and Practice towards Pharmacovigilance of Ayurvedic Medicines among Registered Ayurvedic Medical Practitioners of the Respective States – a Multicentre Study	Target achieved-433 (11 Pre-test and 422 Enrolled Participants
3.	Health seeking behavior of the patients attending the OPD of selected CCRAS institutes with the history of taking Over The Counter (OTC) Medicines: A Cross - sectional study.	Target 410 (Screened-524, Enrolled-410
4.	Clinical Study on treatment tolerability, medication adherence and safety of Ayurvedic formulations in the management of Dyslipidemia	Target achieved Total participants Enrolled- 480 No of participants successfully completed- 431 No of Drop pout- 49
5.	Prospective, Randomized, Open Label, Blinded End Point Exploratory Clinical Study to Evaluate the Efficacy and Safety of Ayurvedic Regimen as an Adjunct to Hydroxyurea in the Management of Sickle Cell Disease	Target: 100 Target achieved Total participants Enrolled- 100 No of participants successfully completed- 86 No of Drop pout- 14
	PHARMACOLOGY & BIOCHEMISTRY	
1.	IMR Project titled “Evaluation of acute toxicity of some Ayurvedic drugs/plant extracts in in-vivo model of Zebrafish”	Toxicity profiling of selected Ayurvedic drugs/plant extracts in Zebrafish embryo model.

2.	IMR-Collaborative with INMAS (DRDO), Delhi titled "Pre-clinical evaluation of Ayurvedic formulations against ionizing radiation-induced acute dermal injury in rats-implications in clinical study"	
3.	IMR-Collaborative with ILBS, New Delhi titled "Evaluation of hepatoprotective efficacy and underlying molecular mechanism of Ayurvedic formulations AYUSH-PKT and AYUSH-GMH in experimental animal models"	
4.	IMR project titled "Pharmacological study of AYUSH-SHY in Zebrafish for anti-obesity activity"	Evaluation of anti-obesity potential of AYUSH-SHY in Zebrafish embryo model.
5.	IMR project titled "Study of coded drugs intended for antenatal care i.e., AYUSH-GG and AYUSH-AG for their developmental toxicity and teratogenicity profiles in Zebrafish embryo model"	Developmental toxicity and teratogenicity profile experiments have been completed. Draft of final report has been submitted to CCRAS, HQ..
PHARMACOGNOSY		
1.	IMR project titled Development of Quality Standards of Selected Extra Pharmacopoeial (Anukta Dravya) Drugs used in Local Health Traditions collected from different regions of India. (Collaborative project with CARI Jhansi)	Target: A total of ten plants collected from different geographical locations were proposed to be studied in three batches. Out of ten (30 samples), 27 samples of 08 plants were studied for botanical and pharmacognostical parameters and the available samples were supplied to CARI Jhansi, RARI Pune and RARI Kolkata for DNA barcoding and physicochemical and phyto-chemical parameters for microbial load and specific pathogens respectively. The tenure of the project ended on 28.03.2025.
2.	Development of Quality Standards for Useful Parts of Selected Medicinal Plants of Ayurveda.	A total of ten plants were proposed to be studied in three batches collected from different geographical locations. Out of ten plants (30 samples), 08 plants were studied for botanical, pharmacognostical and chemical parameters. The remaining work of the project is in progress.

3.	Development and digitization of authentic ayurvedic raw drugs and herbarium for the medicinal plants appearing in AFI in mandatory drug testing laboratories of CCRAS with CSMCARI, Chennai. (Co-I)	Few raw drugs were supplied to the institute and received samples along with the passport data are being maintained in the Museum.
4.	Evaluation of Seasonal and Geographical Variation on Phytoconstituents/Marker Compounds in Selected Ayurvedic Medicinal Plants with CSMCARI, Chennai. (Co-I)	Raw drugs and soil samples are being supplied in different seasons.
5.	Process validation and standardization of Pippalyadi taila, Vachadi taila and Bhringamalakadi taila formulation in AFI with CARI, Patiala. (Co-I)	Plants were studied for pharmacognostical parameters and their reports have been sent.
6.	Development of Quality Standards of Botanicals used in Ayurveda grown in Mauritius. (Project Team)	The project is being carried out at CCRAS Headquarters and pharmacognostic work has been allotted to the laboratory. Technical work was carried out as per instructions and draft monographs were submitted to Headquarters.
PHYTOCHEMISTRY & DRUG STANDARDISATION		
1.	Comprehensive QC analysis, Estimation of Marker, Nutritional profiling and Shelf-life studies of AYUSH POSHAK YOGA.	QC analysis, Estimation of Marker, Nutritional profiling and Shelf-life studies were completed. Data Compiled and submitted to CCRAS headquarter along with self contained report.
2.	Comparative phyto-chemical study of root/root bark/stem bark/heart woodversus aerial parts of Ayurvedic drugs.	Phyto-chemical study of root/root bark/stem bark/heart wood versus aerial parts of Ayurvedic drugs were completed. Compiled and submitted to CCRAS headquarter.
3.	Comparative Evaluation of Market Formulations of Some AyurvedicGuggulu for Quality assessment.	Comparative Evaluation of Market Formulations of Some Ayurvedic Guggulu for Quality assessment were completed. Compiled and submitted to CCRAS headquarter along with self contained report.
4.	QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of Ayush CCT.	QC analysis, Estimation of Marker, Nutritional profiling and Shelf-life studies were completed. Data Compiled and submitted to CCRAS headquarter along with self contained report.
5.	QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of NimbatiktamCapsules and Lajjalukeram Gel.	QC analysis, Estimation of Marker, Nutritional profiling and Shelf-life studies were completed. Data Compiled and submitted to CCRAS headquarter along with self contained report.

6.	QC Analysis, Estimation of Markers/PRS & Shelf-life Studies of AyushManas& SR.	QC analysis, Estimation of Marker, Nutritional profiling and Shelf-life studies were completed. Data Compiled and submitted to CCRAS headquarter along with self contained report.
7.	Development of Pharmacopoeial monographs on Single drugs of plants origin.	Pharmacopoeial monographs on Single drugs of plants origin were prepared. Compiled and submitted to CCRAS headquarter along with self contained report.
8.	Development of quality standard monographs of 10 indigenous Medicinal plants	Quality standard monographs of 10 indigenous Medicinal plants were prepared. Compiled and submitted to CCRAS headquarter along with self contained report.
9.	Chemical Profiling of Six Ayurvedic drug plant stem bark/ Heartwood and small branches using modern analytical techniques.	Chemical Profiling of Six Ayurvedic drug plant stem bark/ Heartwood and small branches using modern analytical techniques were completed. Compiled and submitted to CCRAS headquarter along with self contained report.
10.	Biochemical and Pharmacological Evaluation of Kaishore Guggulu in the Experimental Models of Gout (Vatarakta)	Biochemical and Pharmacological Evaluation of Kaishore Guggulu in the Experimental Models of Gout were done. Compiled and submitted to CCRAS headquarter along with self contained report.
11.	Pharmacological Evaluation of Kutajghan Vati in Experimentally induced Colitis in Rats	Pharmacological Evaluation of Kutajghan Vati in Experimentally induced Colitis in Rats were completed. Compiled and submitted to CCRAS headquarter along with self contained report.
RESEARCH-ORIENTED PUBLIC HEALTH ACTIVITIES (TSP/SCSP)		
1.	Tribal Health Care Research Program under Tribal Sub Plan (THCRP-TSP) 2025-26	Target- 6 Districts (24 Blocks) Target achived No of districts covered-6 (Shahdol, Chhindwara, Betul, Khargone, Balaghat & Ratlam)No of Blocks covered-24 No of Tours- 120 No of OPDs- 4976 No of Awareness lectures- 31
2.	Documentation of ethno-dietary practices indigenous to India & Documentation of plants, metals, minerals, animal products and other materials used in various indigenous religious practices and rituals across India" under THCRP(TSP) 2025-26	No of FGDs (Dietary practices) - 4 in each District. No of FGDs (Ritual practices) - 4 in each District. No of IDIs (Dietary practices)- 20 in each District. No of IDIs (Ritual practices)- 20 in each District. Target achieved No of FGDs- Dietry-25 Rituals-24 No of IDIs- Dietry-121, Rituals - 120 Vedic universities covered- 02 (FGD-2)

		No of Famous religious places visited - 17 Total IDI & FGD -19 (13-IDI, 6 FGD)
3.	Ayurveda Mobile Health Care Programme under Schedule cast sub plan(AMHCP-SCSP) 2025-26	"Objectives: To provide health care services through Ayurveda interventions for various disease conditions through outreach OPDs and health camps. Target- 5 Districts (20 Blocks)" Target achived No of districts covered-5 (Datia, Sheopur, Chhatarpur, Vidisha & Satna) No of Blocks covered-20 No of Tours- 87 No of Beneficiaries under OPDs- 2575 No of Awareness lectures- 22
4.	Documentation of ethno-dietary practices indigenous to India under AMHCP(SCSP) 2025-26	Target No of FGDs (Dietary practices) - 4 in each District. No of IDIs(Dietary practices)- 20 in each District. Target achived No of FGDs- Dietry-20 No of IDIs- Dietry-100 Total IDI & FGD -120 (100-IDI, 20
5.	Documentation of plants, metals, minerals, animal products and other materials used in various indigenous religious practices and rituals across India" under AMHCP(SCSP) 2025-26	Target No of FGDs (Religious practices) - 4 in each District. No of IDIs(Religious practices)- 20 in each District.,Target achived No of FGDs Rituals-21 No of IDIs Rituals - 101 Vedic universities covered- 03 (FGD-3) No of Famous religious places visited -30 Total IDI & FGD in religious places -30 (22-IDI, 8 FGD)
6.	General health screening with special focus on selected disease conditions (Tuberculosis, Anemia, Sickle Cell Disease & Malnutrition) and Ayurveda management of Anemia & Malnutrition in students of Ekalavya Model Residential Schools (EMRS)	Objectives were: 1) Screening of general health condition of the students of EMRS with special focus on Anemia, Haemoglobinopathies, Malnutrition and Tuberculosis, 2) Management of Anemia, and Malnutrition through Ayurvedic interventions. 3) To inculcate healthy lifestyle practices in children as per principles of Ayurveda Total 34 Tours conducted,(18 Bhopal, 16 Guna) total 2210 students incidental ayurveda health care provided, Anemia General 25 participants , Malnutrition general -7 and Anemia and

		Malnutrition both -3 subjects completd , 76 awareness lecture delivered
LITERARY RESEARCH		
1.	Bibliometric analysis of the publications on Research in Ayurveda for prevention and management of Covid-19	Carried out with the objectives to explore the key characteristics, research trends and key contributors in Ayurveda research for Covid-19.

Projects Ongoing during 2026-27:

Sl no.	Title	Summary
	CLINICAL	
1.	Prospective documentation of Uttarbasti in the management of Urethral stricture at Ujjain	1. To document the role of Uttarbasti in the management of Urethral stricture (effectiveness, monitoring of AE/ADR, TEAE, Treatment compliance). 2. To document the pattern of use and clinical outcomes associated with the use of Uttarbasti in the management of Urethral stricture. Target: 20 cases Cases enrolled: 03 ongoing
2.	Assessment of Efficacy and safety of Ayurvedic regimen versus standard care treatment in the management of Osteoarthritis knee: A Randomized controlled clinical study at AIIMS Bhopal	Target : 230 patients
3.	Impact Assessment of Ayurveda based lifestyle Advocacy and utilisation of medicinal plants in primary healthcare at LN Ayurved College, Bhopal	Objective of this project is to assess the impact of adopting Ayurveda-based lifestyle advocacy & utilization of medicinal plants on the general health status of the participants, also to assess adherence to Ayurveda-based lifestyle advocacy regarding *Dinacharya* and *Ritucharya* , enrollment of 50 families is done, and 150 participants are enrolled
4.	Effectiveness of Drakshavaleha in Improving the Symptoms of Functional Gastrointestinal Disorders – A Multi-Centre Study.	Annual Target-300, enrollment completed, Remanning follow-up going.
5.	"A Cross-sectional Survey to study the distribution pattern of different *Prakriti* types across India- A multi centric Study	The project's objective is to survey the different Prakriti patterns in different geographical area of the India.
6.	Feasibility of Integrating a Yoga Regimen into Ayurveda Treatment-as-Usual (TAU) for Selected Musculoskeletal Conditions: A Multicentric Health Systems Implementation Study in CCRAS Institutes"	The objective of this project is to evaluate the Feasibility of Integrating a Yoga Regimen into Ayurveda Treatment-as-Usual (TAU) for Selected Musculoskeletal Conditions , the project is about to initiate in terms of enrollment of the participants.

PHARMACOLOGY & BIOCHEMISTRY		
1. .	Effect of Gokshuradi Guggulu on ExperimentalDiabetic Nephropathy	The study was completed in 2022 and the data has been forwarded to the Principal Investigator (PI) for drafting the final report, which is currently awaited.
2.	Formulation of Drug Master File and Dossier for Picrorhiza kurroa, an important promising medicinal plant from Ayurveda and Contemporary Research	Safety pharmacology and anti-obesity studies have been completed, and preparation of the final report is in progress. This project is sanctioned under the Chemistry section of CARI, Jhansi.
3.	Formulation of Drug Master File and Dossier for Withania somnifera Dunal, an important promising medicinal plant from Ayurveda and Contemporary Research	Alzheimer's and insomnia studies have been completed, while histopathological examination, data analysis, and report preparation are ongoing. This study is sanctioned under the Chemistry section of RARI, Gwalior.
4.	Comparative Phytochemical and Pharmacological Evaluation of Small Branches with Root/Stem Bark of Selected Ayurvedic Plants	Memory impairment, Alzheimer's studies have been completed, except for the constipation model, which is still in progress. Histopathological analysis and data processing are currently underway. This project is sanctioned under the Chemistry section of RARI, Gwalior.
5.	Acute and 90-day Oral Toxicity Study of AYUSH Bal Ghutti Granules in Experimental Animals	In-life phase of both acute and sub-acute toxicity evaluations has been completed. The histopathological examination phase is about to begin.
6.	Acute and 180-day Oral Toxicity Study of AYUSH Bal Rasayan in Experimental Animals	The in-life phase has been completed, and the histopathology assessment is scheduled to commence shortly.
7.	Toxicity Profiling of Mrityunjaya Rasa in Experimental Animal	Acute oral, acute dermal, sub-acute oral toxicity and genotoxicity evaluation through the Ames test have been completed, while chronic toxicity study is still ongoing. This study is being conducted in collaboration with IITR, Lucknow under GLP conditions.
8.	Assessment of AYUSH-64 and Ayush Kwath on SARS-CoV-2 Mutants in Lung, Liver, and Brain Cells	The pharmacological and mechanistic evaluation studies are currently in progress under this collaborative study conducted at IIT, Indore.
9.	Evaluation of Intranasal Vacha (Rhizomes of Acorus calamus) in a Rodent Model of Stroke	Safety pharmacology and pharmacology studies have been completed. Protein expression studies and histopathological evaluations are in progress, and an extension of six months has been requested for project completion.

10.	Assessment on the role of Coded Drug AYUSH PJ-7 and other Plants-Based Molecules/Drugs against matrix metalloproteinases-mediated immnunopathogenesis of Dengue viral disease and establishment of their mechanisms of actions	The standardisation of protocols is completed. This study is being conducted in collaboration with ICMR-NIRTH, Jabalpur
11.	Study of selected Ayurvedic herbs for their anti-angiogenic potential and toxicity profile in zebrafish embryo model for cancer management	Procurement of zebrafish housing system, procurement of plant extracts, acute toxicity of some of the extracts and optimization of EAP staining protocol using NBT/BCIP method.
PHARMACOGNOSY		
1.	Macroscopic and microscopic atlas preparation of selected plants of Ayurvedic importance.	A total of 68 plants were proposed to be studied in two batches in the project. Out of 68, samples of 56 plants were received/ collected and their study has been done. The remaining work of the project is in progress.
2.	Development of quality standards, estimation of markers and accelerated shelf life studies of Guducyadi Caturbhadra and Amrtottara kvatha churna formulations with CSMCARI, Chennai. (Co-I)	Pharmacognostic work was done for all the received samples and a report has been sent.
3.	Development of quality standards & SOP, Advanced Metablomic profiling and in-silico Pharmacological activites of Shadangam & Pachanamritham Kwatha Choorna(Co-I) (With RARI, Lucknow)”	The project and its work is going on as per the objectives.
4.	Inventory of Medicinal Plant Phytodiversity Used in Ayurveda at the herbal medicinal plant garden of LakshmibaiNational Institute of Physical Education (LNIPE),Gwalior.	The project work is under process as per the objectives.

5.	Assessment on the Role of Coded Drug Ayush PJ-7 and other Plants-Based Molecules/Drugs Against Matrix Metalloproteins- Mediated Immunopathogenesis of Dengue Viral Disease and Establishment of Their Mechanisms of Actions. Collaborative IMR Project with ICMR-NIRTH, Jabalpur.	The work is in progress as per the project objectives.
PHYTOCHEMISTRY & DRUG STANDARDISATION		
1.	Formulation of Drug master file and dossier for roots of Withania somnifera an important promising medicinal plant from Ayurveda and contemporary research.	Physicochemical analysis and HPLC analysis for alcohol and water soluble extractives have been completed. In-life phase of 90 day oral toxicity and histopathology study has been completed. Insomnia and Alzheimer's studies are under progress.
2.	Comparative phytochemical and pharmacological evaluation of small branches with root or stem barks of selective ayurvedic plants	HPTLC of phytochemical markers and quantification by HPLC have been completed. In-life phase of Anti-inflammatory and anti-obesity activities been completed. A loperamide-induced constipation and AlCl3-induced memory impairment study is completed. Insomnia, Alzheimer's, Histopathology and biochemical assay are under progress.
3.	Assessment of AYUSH-64 and Ayush Kwath to SARS-CoV-2 mutants on lung, liver and brain cells	HPLC, HPTLC, LC-MS/MS and In-silico study was completed for AYUSH-64 and Ayush Kwath, along with its ingredients. Protein level analysis and Transcript level analysis completed.
4.	Development of SOP & Quality Control Parameters and Shelf-lifestudies of AYUSH-RP, AYUSH-AG, and AYUSH-GG Formulations	Physicochemical Analysis, Biological contamination, Pesticide, heavy metal testing & Aflatoxin contaminations have been completed for 04 quarters. Quantification of markers by HPLC and HPTLC is in progress.
5.	In-Silico study of Botanicals (Rudraksha, Gorakhmundi, Jyotishmati, Petha, Vacha, Gambhari and Shatavari) used in Ayurveda for Neurocognitive enhancement.	Phytochemical and physicochemical analysis of 04 plants completed. ADMET, Network pharmacology and molecular docking study on 04 plants completed. Molecular Dynamic simulation study on 02 plants completed.
6.	Pharmaceutical Standardization, SOP Development and Comprehensive Phytochemical Profiling of selected Ayolepa Rasayana Kalpana.	Phytochemical and physicochemical analysis of 24 raw drugs and 14 formulations completed. FTIR, and XRD analysis of 24 raw drugs and 14 formulations completed. AAS analysis of Pb, Hg, As, Cd and Fe of 24 raw drugs and 14 formulations is under process.

7.	"Development of Quality Standards & SOP, Advanced Metabolomic Profiling and In-silico Pharmacological activities of Shadangam & Pachnamritam Kwatha Choorna."	Phytochemical, Safety parameter, Pharmacognostical and physicochemical analysis of raw drugs is under process.
8.	Comprehensive phytochemical profiling of selected Medicinal Plants used in Ayurveda formulations: Employing biomedical approaches for determining the Alzheimer's and Parkinson's disease therapeutics in in-vitro setup.	The method optimization for comprehensive characterization of AYUSH-derived compounds has been successfully completed. Optimized extraction, chromatographic separation (HPLC/LC-MS), and spectroscopic profiling protocols were established, ensuring reliable qualitative and quantitative phytochemical analysis. Optimization of extraction methods for AYUSH plant compounds:Developed and standardized boiling and cold extraction protocols using solvents such as water, ethanol, methanol, and water–ethanol mixtures to ensure efficient solubilization of plant-derived compounds. Neural cell stock preparation for in-vitro studies:Prepared tri-culture neural model using U87-MG (astrocytes), CHME3 (microglia), and IMR32 (neurons); cells were trypsinized, counted via trypan blue using a Neubauer chamber, and seeded in a 5:2:1 ratio for further cytotoxicity and therapeutic evaluation.
RESEARCH-ORIENTED PUBLIC HEALTH ACTIVITIES (TSP/SCSP		
1.	Tribal Health Care Research Programme under Tribal Sub Plan (THCRP-TSP) 2026-27	Initiated on 28.04.2026, tours conducted: 85, patient treated 4038, lab investigation dome: 1868, awareness lectures delivered-35, beneficiaries of lectures: 1941
2.	Assessment of Health-Care Seeking Behavior of the Population and Perception of Key Health System Stakeholders with special focus on Ayush system of medicine across India – A community-based cross-sectional study (Under THCRP-TSP)	Initiated on 13.07.2026, a total of 349 participants enrolled in the survey against the target of 960.

3.	Feasibility of introducing an Ayurvedic Intervention in the Management of Sickle Cell Disease: A community-based, multicentric study.(Under THCRP-TSP)	To be initiated
4.	Impact assessment of Ayurveda-based lifestyle advocacy and utilization of medicinal plants in primary healthcare- A community-based study (under TSP)	Objective of this project is to assess the impact of adopting Ayurveda-based lifestyle advocacy & utilization of medicinal plants on the general health status of the participants, also to assess adherence to Ayurveda-based lifestyle advocacy regarding *Dinacharya* and *Ritucharya* , enrollment of 50 families is done, and 150 participants are enrolled. Total 50 families enrolled, 500 plants disturbed, Bcc modules, Arogyakit, Home remedies Books, Disturbed.
5	AMHCP under SCSP 2026-27 Ayurveda Mobile Healthcare Programme under Schedule cast sub plan 2026-27	Date of initiation:02.04.2026 Duration of the project: 1 year
6	Assessment of Health-Care Seeking Behavior of the Population and Perception of Key Health System Stakeholders with special focus on Ayush system of medicine across India – A community-based cross-sectional study under AMHCP-Schedule cast sub plan Research Program under Tribal Sub Plan (AMHCP-SCSP) 2026-27	Initiated date 11.07.2026, a total of 298 participant enrolled in the survey against the target 750 (till date 31.09.2026) 1. Ayush Physician – 7 2. Pharmacist – 5 3. Policy maker – 01 Project is ongoing
7	Impact assessment of Ayurveda-based lifestyle advocacy and household utilization of medicinal plants through kitchen gardens in primary healthcare.	Initiated dated 28.07.2026, a total no. of screening 98 and participant enrolled no. of 90 and and no of participant enrolled no of during current month 70.
8	ASSOCIATION BETWEEN VIRUDDHA AHARA PRACTICE AND PSORIASIS- A CASE CONTROL STUDY .	Initiated dated 03.08.2026. No. of participant 9 case enrolled and 01 control till date.

9	ASSOCIATION BETWEEN VIRUDDHA AHARA PRACTICE AND Rheumatoid	Initiated dated 03.08.2026. No. of participant 9 case enrolled and 01 control till date.
10.	Impact assessment of Ayurveda-based lifestyle advocacy and utilization of medicinal plants in primary healthcare- A community-based study (Under SCSP)	Total 50 families enrolled, 500 plants disturbed, Bcc modules, Arogyakit, Home remedies Books, Disturbed 150 participants enrolled.