

DEPARTMENT OF GUNAPADAM MARUNTHAKAVIYAL



CONSULTANTS

1. DR .G.ESSAKKY PANDIAN MD(s) –PROFESSOR AND HOD – PG
2. DR.M.THOMAS WALTER MD(s) - PROFESSOR AND HOD – PG
3. DR.A.MUHILAN MD(s) – ASSISTANT PROFESSOR
4. DR. R. ANTONY DURAICHI MD(s) – ASSISTANT PROFESSOR

OP TIMING: 7.30 AM – 12.00 PM

Gunapadam-Marunthakkaiyal , The Pharmacological branch of Siddha medicine, deals with Identification, Purification, Standardization of raw drugs and other edible substances and therapeutic application of single drug and formulations derived from Herbal, Mineral, and Animal and its Byproducts. Integrated with modern science and increasing interest in Traditional medicine worldwide, The future scope of Marunthakkaviyal holds great promise in Physical, Mental and social healthcare, research, and Global recognition.

A. Drug Standardization and Validation in Gunapadam Marunthakkaviyal

Adoption of Modern Analytical Tools HPTLC (High Performance Thin Layer Chromatography) – used for fingerprinting of herbal drugs and other formulations ,GC-MS (Gas Chromatography–Mass Spectrometry) – used for identifying volatile and bioactive compounds in a drug and formulation ,NMR (Nuclear Magnetic Resonance) – used for structural elucidation and molecular characterization of plant,mineral,animal-based compounds. Monographs of single drugs and formulations, Identification tests, chemical standards, and methods of preparation, Stability parameters and preservation techniques

B.Clinical Research and Evidence Generation in Gunapadam Marunthakkaviyal

1. Conducting Randomized Controlled Trials (RCTs) on Widely Used Siddha Medicines RCTs are the gold standard in clinical research and provide high-quality evidence for a drug's therapeutic effects.

2. Integrating Gunapadam Drugs into Public Health Programs Like Diabetes, Hypertension, Obesity, Arthritis, Metabolic syndrome, Respiratory illness. 3. Strengthening Pharmacovigilance and Post Market Surveillance

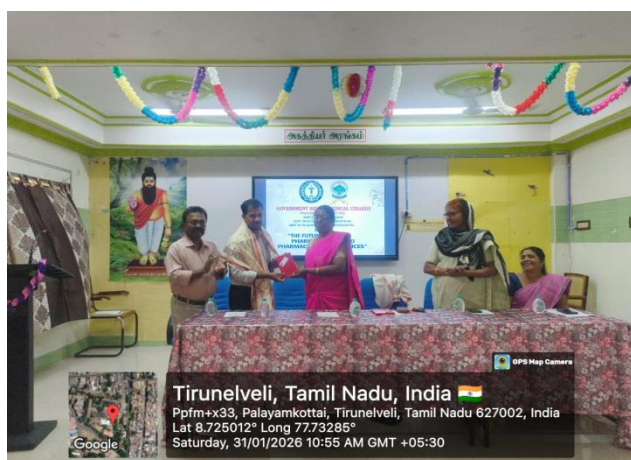
C.Digitization and Artificial Intelligence in Gunapadam-Marunthakkaviyal

1. AI-Assisted Drug Discovery & Reverse Pharmacology Reverse pharmacology begins with clinical experiences and traditional knowledge, then moves backwards to identify active compounds and validate them scientifically. In Ayurveda, AI models like QSAR (Quantitative Structure–Activity Relationship) have been used to predict Anti-diabetic herbs; similar approaches are being proposed for Siddha.

2. Development of Gunapadam Databases and Digital Libraries

3. Machine Learning for Toxicity Prediction and Synergistic Combinations

CME ON FUTURE SCOPE OF PHARMACOLOGY AND PHARMACEUTICALS



INDUSTRIAL VISIT TO NETHRA PHARMACEUTICAL



ANIMAL HANDLING TRAINING



