

DR G. HARI PRAKASH

PhD (Public Health) · Pharm.D · MPH

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RESEARCH PROFILE

Clinical pharmacist and public health researcher with a PhD in Public Health, specialising in digital health innovation, mHealth intervention design, and cancer care delivery in low- and middle-income settings.

Author of 43 peer-reviewed publications spanning oncology, digital health, public health, and medical education — including first-author work in *Annals of Oncology* (IF 56.7), *ESMO Open*, and *Journal of Oncology Pharmacy Practice* — alongside 1 granted patent and multiple deployed digital health tools with active user bases.

Research expertise spans the full intervention lifecycle: user-centred co-design, psychometric scale development, quasi-experimental and target-trial emulation methods, health technology assessment, and machine-learning-assisted clinical decision support. Recognised by competitive international awards including ESMO and JSMO Travel Grants.

Committed to translating rigorous implementation science into scalable, equitable digital health solutions for cancer and chronic disease management globally.

EDUCATION

PhD in Public Health — JSS Medical College, JSS AHER, Mysuru

2021 – 2024

Thesis: Medical Technology-Based Smartphone Application in Cancer Management

Master of Public Health (MPH) — JSS Medical College, JSS AHER, Mysuru

2019 – 2021

Doctor of Pharmacy (Pharm.D) — JNTU Anantapur, Andhra Pradesh

2013 – 2019

ACADEMIC & PROFESSIONAL POSITIONS

Assistant Professor

Division of Public Health, MS Ramaiah University of Applied Sciences (MSRUAS), Bengaluru · August 2025 – Present

Teaching MPH programme: Research Methodology, Biostatistics, Ethics in Public Health, Technology in Public Health, NCDs & Nutrition, Qualitative Methods

Scientist-D / Senior Research Officer

Department of Community Medicine & School of Public Health, PGIMER, Chandigarh · Nov 2024 – Jul 2025

Conducted research on digital health interventions and AI for primordial prevention and disease screening

Field Investigator — World Health Organization

JSS Medical College, Mysuru · Feb 2022 – Apr 2022

Coordinated multi-centre study on oxygen requirements and respiratory support in COVID-19 patients in LMICs

Internship

Indian Council of Medical Research (ICMR) · Mar – Apr 2021

GRANTS & FELLOWSHIPS

JSS AHER Research Fellowship (INR 25,000)

Medical Technology-Based Smartphone Application in the Management of Cancer · 2021 – 2024

JSSAHER Institutional Research Grant (Institutional Grant)

Onco-Care User-Centred Design Study · Ref: JSSAHER/REG/RES/URG/54/2023-24/7931 · 2023 – 2024

Mamta HIMC Fellowship in Adolescent Mental Health (INR 1,00,000)

Digital Health Intervention on Adolescent Mental Health (AikyaMind) · 2022 – 2023

ESMO Travel Grant (EUR 1,400)

European Society of Medical Oncology — ESMO Asia / Breast Cancer Conference, Germany · 2024 – 2025

JSMO Travel Grant (JPY 1,00,000)

Japanese Society of Medical Oncology — JSMO Annual Meeting, Japan · 2024

DIGITAL HEALTH INVENTIONS & TOOLS

Onco Care App: Comprehensive mHealth platform for cancer patients — remote monitoring, symptom tracking, chemotherapy planning, nutrition guidance, peer support.

AikyaMind: Adolescent mental health mHealth application — self-screening, counselling support, and educational resources.

Pramana SRMA: AI-assisted collaborative systematic review & meta-analysis platform — PRISMA-adherent screening workflow, active learning, live team collaboration, forest and funnel plots.

Sangam NMA: Network meta-analysis workbench built on R/netmeta — league tables, rankings, node-splitting, publication-ready manuscript export.

Artha HE: Health-economics workbench — costing, cost-utility/cost-benefit analysis, Markov modelling, probabilistic sensitivity analysis, budget impact.

Vichara QDA: Qualitative data analysis made simple — turn interviews and field notes into insight: code transcripts, build codebooks, develop themes, and run publication-grade analyses.

VEDA: General-purpose data analysis software for researchers — cleaning, descriptive and inferential statistics, and visualisation in one workbench.

SAM (Sample Size Calculator): Web-based sample size tool supporting 10+ study designs for researchers across disciplines.

CRISP: Colorectal Risk Intelligence & Screening Predictor — AI-powered clinical risk tool for colorectal cancer screening.

Smart Wearable for Muscle Health: Wearable prototype for detecting early signs of muscle wasting and fatigue in cancer care and rehabilitation.

Patent: Hari Prakash G, Kumar SD, Yadav D, Sunitha S. A reflection-based intraoral imaging device for dental examination and a method of operating the device. Indian Patent Application No. 202541003820. Published January 31, 2025.

PUBLICATIONS (46 PEER-REVIEWED)

Oncology

1. **Gunisetty HP**, Doddaiiah SK, Bangalore Darukaradhya T, Mallikarjun K, Taj S, MS R, et al. Patient-facing mobile health applications for quality of life and treatment adherence during cancer chemotherapy: A systematic review and meta-analysis. *Journal of Oncology Pharmacy Practice*. 2026. doi:10.1177/10781552261478233
2. **Prakash GH**, D. TB, Yadav D, H. GB. Digital oncology interventions and equity: a scoping review of design strategies to address cancer disparities. *Supportive Care in Cancer*. 2026;34(9). doi:10.1007/s00520-026-11121-y
3. Shwetha CV, **Prakash GH**, Darukaradhya TB. Cervical cancer and human papillomavirus (HPV) vaccination awareness among university students: A global scoping review of knowledge, attitudes, and barriers. *Journal of Oncology Pharmacy Practice*. 2026. doi:10.1177/10781552261446556
4. **Prakash GH**, Tejaswini BD, Sequeira S, Hussain MM, Nayak A. Digital PRO collection methods during chemotherapy: A scoping review of tools, platforms, and psychometric properties. *Measurement and Evaluations in Cancer Care*. 2026;4:100036. doi:10.1016/j.ymecc.2026.100036
5. **Prakash GH**, Kumar DS, Arun V, et al. From needs to app: A user-centred design approach for developing mobile health interventions in oncology care. *Journal of Oncology Pharmacy Practice*. 2026. doi:10.1177/10781552261443469
6. **Prakash GH**, Kumar S, PK K, et al. Immortal time bias in contemporary CDK4/6 inhibitor studies: Evidence from target trial emulation. *Journal of Oncology Pharmacy Practice*. 2026. doi:10.1177/10781552261425587
7. **Prakash GH**, Kumar Doddaiiah S, Krishnamurthy KP, et al. Economic evaluation of a digital health intervention for cancer

- care: Cost-utility analysis of the OncoCare app. *Journal of Oncology Pharmacy Practice*. 2026. doi:10.1177/10781552251409104
8. **Prakash GH**, Kumar SD, Pk K, et al. 849P User-centred design and clinical validation of a comprehensive mobile health platform for enhanced chemotherapy management and treatment adherence. *Annals of Oncology*. 2025.
 9. **Prakash GH**, Kumar SD, Pk K, Arun V, Yadav D, Shwethashree M, Gopi A, Kulkarni P. Factorial Validity and Reliability of the Chemotherapy Dietary Adherence Scale: A Tool for Nutritional Assessment in Cancer Care. *Asian Pacific Journal of Cancer Care*. 2025;9(3):1101-1108.
 10. **Prakash GH**, Kumar SD, Pk K, et al. Measuring Mobile Health Engagement in Cancer Care: Development and Psychometric Validation of the CMHEAQ Scale. *Measurement and Evaluations in Cancer Care*. 2025.
 11. **Prakash GH**, Kumar SD, Pk K, Gopi A. Enhancing Chemotherapy Adherence in Cancer Management: A Quasi-Experimental Trial of a Smartphone Application. *Cancer Investigation*. 2025.
 12. **Prakash GH**, Kumar SD, Yadav D. Digital Nutrition in Cancer Care: A Co-Design Approach to Transform Chemotherapy Patient Outcomes. *Asian Pacific Journal of Cancer Care*. 2025;10(4):1089-1091. doi:10.31557/APJCC.2025.10.4.1089-1091
 13. **Prakash GH**, Kumar DS, Pk K, Arun V, Yadav D, Gopi A, M S. 422P Digital patient-reported outcomes in cancer care: Analysis of quality of life and symptom trajectories using a mobile health platform. *ESMO Open*. 2025;10(Suppl 4):104994. doi:10.1016/j.esmoop.2025.104994
 14. **Prakash GH**, Kumar DS, Pk K, Arun V, Yadav D, Gopi A. Development and validation of a web-based platform for streamlining chemotherapy management in oncology. *Journal of Oncology Pharmacy Practice*. 2025. doi:10.1177/10781552251345433
 15. **Gunisetty HP**, Doddaiiah SK, Krishnamurthy KP, Arun V, Yadav D, Gopi A. Personalised Oncology Care: A Case Study on Using an AI-Based App for Chemotherapy Management and Lifestyle Management. *Asian Pacific Journal of Cancer Care*. 2025;10(2):649-651. doi:10.31557/apjcc.2025.10.2.649-651
 16. **Prakash GH**, Kumar DS, Kiran PK, Arun V, Yadav D, Gopi A, Kulkarni P, Rakesh M. A comprehensive tool for evaluating patient satisfaction in mHealth: development and validation of the Digital Health Application Satisfaction Scale. *Measurement and Evaluation in Cancer Care*. 2025. doi:10.1016/j.ymecc.2025.100017
 17. **Prakash GH**, Kumar DS, PK K, Arun V, Yadav D. Development and validation of the Chemotherapy Adherence Assessment Scale (CAAS). *Journal of Oncology Pharmacy Practice*. 2024. doi:10.1177/10781552241291225
 18. **Prakash GH**, Kumar DS, Pk K, Arun V, Yadav D. CN15 Mobile application-based intervention study in improving treatment adherence and quality of life in cancer patients. *Annals of Oncology*. 2024;35:S1172. doi:10.1016/j.annonc.2024.08.401
 19. **Prakash GH**, Kumar DS, PK K, Arun V, Yadav D, M S. Enhancing Nutritional Care in Cancer: Development and Face Validation of the Chemotherapy Dietary Adherence Scale. *Asian Pacific Journal of Cancer Care*. 2024;9(3):501-504. doi:10.31557/apjcc.2024.9.3.501-504
 20. PK K, **Prakash GH**, KR S, Naik R. Exploring Multiple Primary Malignancies: An Institutional Experience with Dual Malignancy Cases. *Asian Pacific Journal of Cancer Care*. 2024;9(4):699-704. doi:10.31557/apjcc.2024.9.4.699-704
 21. PK K, **Prakash GH**, KR S, Kumar DS. Uncommon Presentation of Multiple Myeloma: Pleural Effusion and Extensive Extramedullary Involvement. *International Journal of Hematology Oncology and Stem Cell Research*. 2024;18(4):408-411.
 22. **Prakash GH**, D SK, Pk K, Arun V, Yadav D, Gopi A. Exploring Malnutrition Risk in Cancer Chemotherapy Patients: An Assessment of Associated Factors in a Tertiary Care Cancer Center. *Asian Pacific Journal of Cancer Care*. 2024;9(1):93-96.
 23. **Hari Prakash G**, Kumar D, Kiran PK, Arun V, Yadav D. Assessment of Cancer Chemotherapy Needs in Patients Attending Tertiary Care Cancer Center: A Cross-Sectional Study. *Indian Journal of Medical and Paediatric Oncology*. 2024. doi:10.1055/s-0044-1787149
 24. **Prakash GH**, Kumar DS, Kiran PK, Arun V, Yadav D, Gopi A, et al. Development and validation of comprehensive needs assessment tool to assess burden of cancer chemotherapy patients attending a tertiary care hospital. *Journal of Cancer Research and Therapeutics*. 2022.

Digital Health & mHealth

25. Kumar DS, **Prakash GH**, Yadav D, Gopi A. Investigating the perception and knowledge of medical students on the role of metaverse in healthcare. *Indian Journal of Natural Sciences*. 2025;15(88).

26. **Prakash GH**, Kumar DS, Arun V, Yadav D, Gopi A, Garg R. Development and validation of android mobile application in the management of mental health. *Clinical Epidemiology and Global Health*. 2025;31:101894. doi:10.1016/j.cegh.2024.101894
27. **Gunisetty HP**, Doddaiiah SK, Arun V, Yadav D, Singh P, Gopi A, Kulkarni P, Garg R. Micro-costing analysis of a digital mental health intervention for adolescents in South India: the AikyaMind mHealth application. *International Journal of Community Medicine and Public Health*. 2025.
28. Kumar S, **Prakash GH**. Development of the Strategic Plan for the Digital Health Lab and in the Healthcare System. *International Journal of Scientific Research*. 2023;12(1):1-5.

Public Health & NCDs

29. Darukaradhya TB, Jayanna K, Sequeira S, Sampreetha DV, **Hari Prakash G**, Shivaraj NS, et al. Co-designing school-based diabetes prevention in Karnataka, India: A qualitative multistakeholder study of adolescent health behaviors. *International Journal of Noncommunicable Diseases*. 2026. doi:10.4103/jncd.jncd_87_26
30. Pandey P, **Prakash GH**, Darukaradhya TB. Prevalence, risk factors and quality of life in gestational diabetes mellitus: a scoping review. *International Journal of Community Medicine and Public Health*. 2026;13(7):3975-3982. doi:10.18203/2394-6040.ijcmph20262306
31. Basavaraju S, **Prakash GH**, Darukaradhya TB. Birth preparedness and complication readiness among antenatal women: a scoping review of levels and associated factors. *International Journal of Community Medicine and Public Health*. 2026;13(7):4043-4050. doi:10.18203/2394-6040.ijcmph20262315
32. Rakesh M, Kumar Sunil, Kavya S, **Prakash G Hari**. Development and validation of a questionnaire to assess hypertension risk factors in Urban Mysuru. *Journal of Integrative Nursing*. 2025;7(2):78-82. doi:10.4103/jin.jin_146_24
33. Anil D, Kumar DS, Shivaswamy RP, Gopi A, **Prakash GH**, Yadav D. Web-based intervention improving quality of life among patients with type 2 diabetes in southern Karnataka, India. *International Journal of Noncommunicable Diseases*. 2024;9(4):160-165. doi:10.4103/jncd.jncd_75_24
34. **Prakash GH**, Kumar DS, Arun V, Hegde S, Yadav D, Gopi A. Prevalence and correlates of depression, anxiety, and stress among adolescents in urban and rural areas of Mysuru, South India. *Journal of Family Medicine and Primary Care*. 2024;13(8):2979-2985. doi:10.4103/jfmpc.jfmpc_1600_23
35. Anil D, Kumar DS, Prasad SR, Gopi A, **Prakash H**, Yadav D, Murthy MRN. Diabetes care: an online web-based tool for improving the health outcomes of type 2 diabetes mellitus patients: a longitudinal study. *International Journal of Preventive Medicine*. 2024;15:48. doi:10.4103/ijpvm.ijpvm_121_23
36. Anil D, Kumar DS, Shivaswamy RP, Arun V, Gopi A, Yadav D, **Prakash H**, Murthy MRN. Web-based intervention in improving the mental health status among patients with type 2 diabetes in southern India. *Archives of Mental Health*. 2023. doi:10.4103/amh.amh_89_23
37. Rakesh M, Kumar DS, Mythily MR, Ravali A, **Hari PG**. Body image perception and body image satisfaction among female medical students of Mysuru. *International Journal of Community Medicine and Public Health*. 2023;10:1877-1881.
38. **Prakash GH**, Yadav D, Kumar DS. Assessment of Gaps between Standard Diabetes Treatment Protocols Available in India and National List of Essential Medicines and WHO Essential Medicines – A Brief Report. *International Journal of Pharmacy and Pharmaceutical Research*. 2022;23(4):420-427.
39. Shabadi N, Anil D, Kumar DS, Hegde S, Nagendra L, Kruthika BN, Vanmathi A, **Hari Prakash**. Occupational injuries: Prevalence, Patterns and Associated factors among Agriculture Workers in a developing country. *Global Journal of Medicine and Public Health*. 2022;11(6).
40. **Prakash H**, Yadav D, A A, V D. Assessment of Adverse Drug Reactions (ADRs) Due to Self-Medication, Mysuru, South India – A Cross-Sectional Study. *IJPPR.Human*. 2021.
41. **Hari Prakash G**, Deepika Yadav. Knowledge and Attitude Regarding Self Medication among the People Residing in the Urban Field Practice Area of a Medical College, Mysuru, Karnataka. *International Journal of Science and Research*. 2021;10(10):786-790.
42. **Prakash H**, Smitha, Prakash B, Yadav D, Narayana Murthy MR. Assessment of Self-Medication Practices Among the People Residing in the Urban Field Practice Area of A Medical College, Mysuru – A Cross-Sectional Study. *IJPPR.Human*. 2021;22(2):659-669.

Oral Health & Dental

43. Yadav D, Kumar DS, Mallikarjunaswamy MS, Arun V, **Prakash GH**, Sunita S. Development and Validation of the Needs Assessment Scale for Innovative Technology Approaches to Dental Screening. Journal of Indian Association of Public Health Dentistry. 2024;22(4):348-354. doi:10.4103/jiaphd.jiaphd_263_23

44. Yadav D, **Prakash H**, Murthy MRN, Shree A, Kumar DS. Oral hygiene Knowledge, Attitude, and Practices of caregivers of preschool children attending Anganwadi centres in Mysuru Urban, Karnataka. International Journal of Dental Science and Innovative Research. 2022;5(3):316-321.

45. Yadav D, Narayanamurthy M, Gowda A, **Prakash H**. Prevalence of Early Childhood Caries in Preschool Children Attending Anganwadis in Mysuru Urban, Karnataka. International Journal Dental and Medical Sciences Research. 2021;3(5):597-604.

Medical Education

46. Kumar SD, Dandekar S, **Prakash GH**. Dynamic CBME in action: rule-based digital case-based learning to evaluate antibiotic-stewardship reasoning in MBBS learners. BMC Medical Education. 2026. doi:10.1186/s12909-026-09810-7

CONFERENCE PRESENTATIONS

Joint Organising Secretary — National Conference on Public Health and Digital Health (NCPDH 2026)

User-centred design and clinical validation of a comprehensive mHealth platform for enhanced chemotherapy management — ESMO Annual Meeting 2025 · Abstract 849P

Digital patient-reported outcomes in cancer care: Quality of life and symptom trajectories using a mobile health platform — ESMO Asia 2024 · Abstract 422P (ESMO Travel Grant Awardee)

Mobile application-based intervention in improving treatment adherence and QoL in cancer patients — ESMO Asia 2024 · Ann Oncol. 2024;35:S1172

Medical Technology-Based Smartphone Application in Cancer Management — World Cancer Congress, New Delhi · March 2024

Development and Validation of a Mobile App to Promote TB Medication Adherence — TB Conclave · November 2023

Wearable Device for Detecting Muscle Wasting and Fatigue in Cancer Rehabilitation — MEDHA Medical Device Hackathon, IIT Bombay · June 2023

Development and Validation of a Smart Wearable Device for Detection of Muscle Wasting and Fatigue — My Nutricon Conference · December 2022 (Best Paper Award)

TEACHING, WORKSHOPS & CONSULTATIONS

Courses taught: Research Methodology, Biostatistics, Ethics in Public Health, Technology in Public Health, Epidemiology of NCDs & Nutrition, Qualitative Research Methods

Active supervisor and collaborator on postgraduate theses across public health, surgical, and clinical disciplines. Provides statistical analysis and academic writing support to students throughout the research lifecycle.

Invited faculty for workshops on thesis writing, AI-assisted literature review, questionnaire development and validation, and research dissemination.

CERTIFICATIONS & TRAINING

Good Clinical Practices (ICH-GCP)

Basic Course in Biomedical Research

SPSS Statistical Analysis Workshop

PROFESSIONAL AFFILIATIONS & SERVICE

Associate Editor, Archives of Public Health (BMC / Springer Nature)

Associate Editor, Clinical Epidemiology and Global Health (Elsevier)

Member, European Society of Medical Oncology (ESMO)

REFERENCES

Dr Sunil Kumar D

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Dr Praveen Kulkarni

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