

Assessing Carcinogen Awareness and Knowledge of lung Cancer-related Risk factors: A study in Indian Population



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BASIC PARADIGM

- 1.Basic Paradigm is a social enterprise that focuses on improving health and well-being as the ultimate goal, in line with Sustainable Development Goal 3.
- 2.It operates as the for-profit arm of the not-for-profit organization SCHOOL, sharing the same board of directors and working towards the same mission.
- 3.With a team of experienced professionals, Basic Paradigm leverages decades of field experience to address development challenges effectively. It brings together diverse expertise and lessons learned to plan, design, implement, monitor, and measure results.
- 4.Basic Paradigm collaborates with other organizations, providing strategic solutions, implementing innovative approaches, and ensuring cost-effectiveness and long-term sustainability.
- 5.Through its projects, ventures, and activities, Basic Paradigm aims to benefit not only the direct participants but also larger groups of people, extending the positive impact beyond the organization's immediate work.

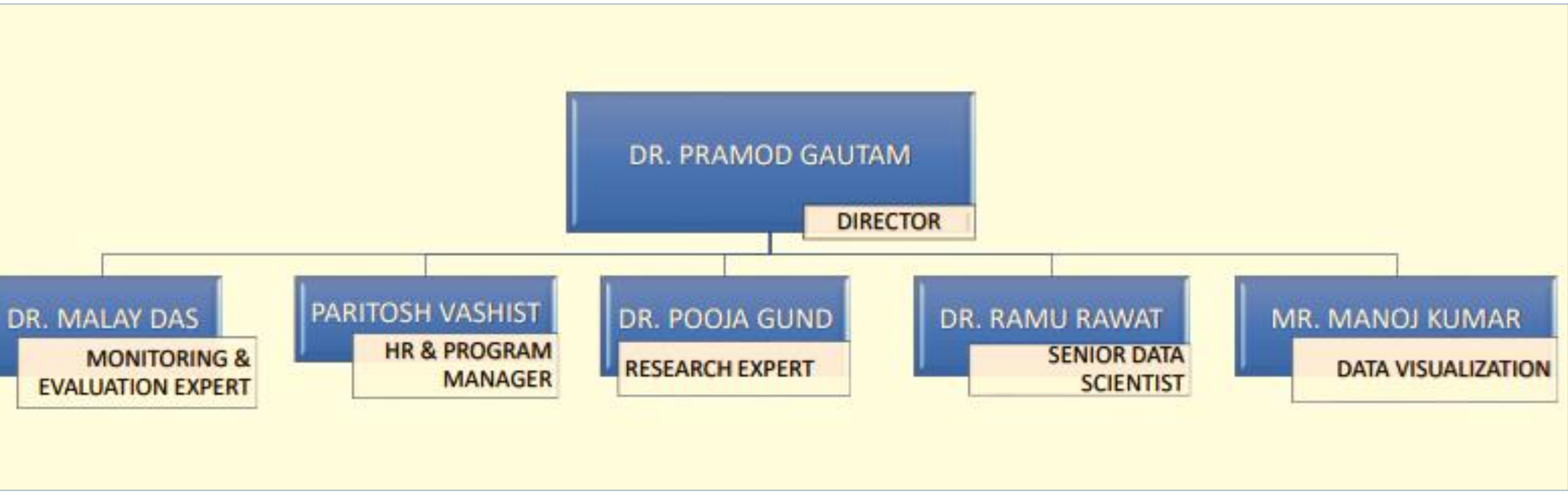
MISSION

To empower communities and improve quality of life by implementing innovative projects and ventures that address social development challenges, with a particular focus on achieving good health and well-being for all..

VISION

To be a leading social enterprise driving sustainable development and creating positive social impact, while partnering with organizations to bring about transformative change and improve the lives of individuals and communities worldwide.

ORGANIZATION STRUCTURE



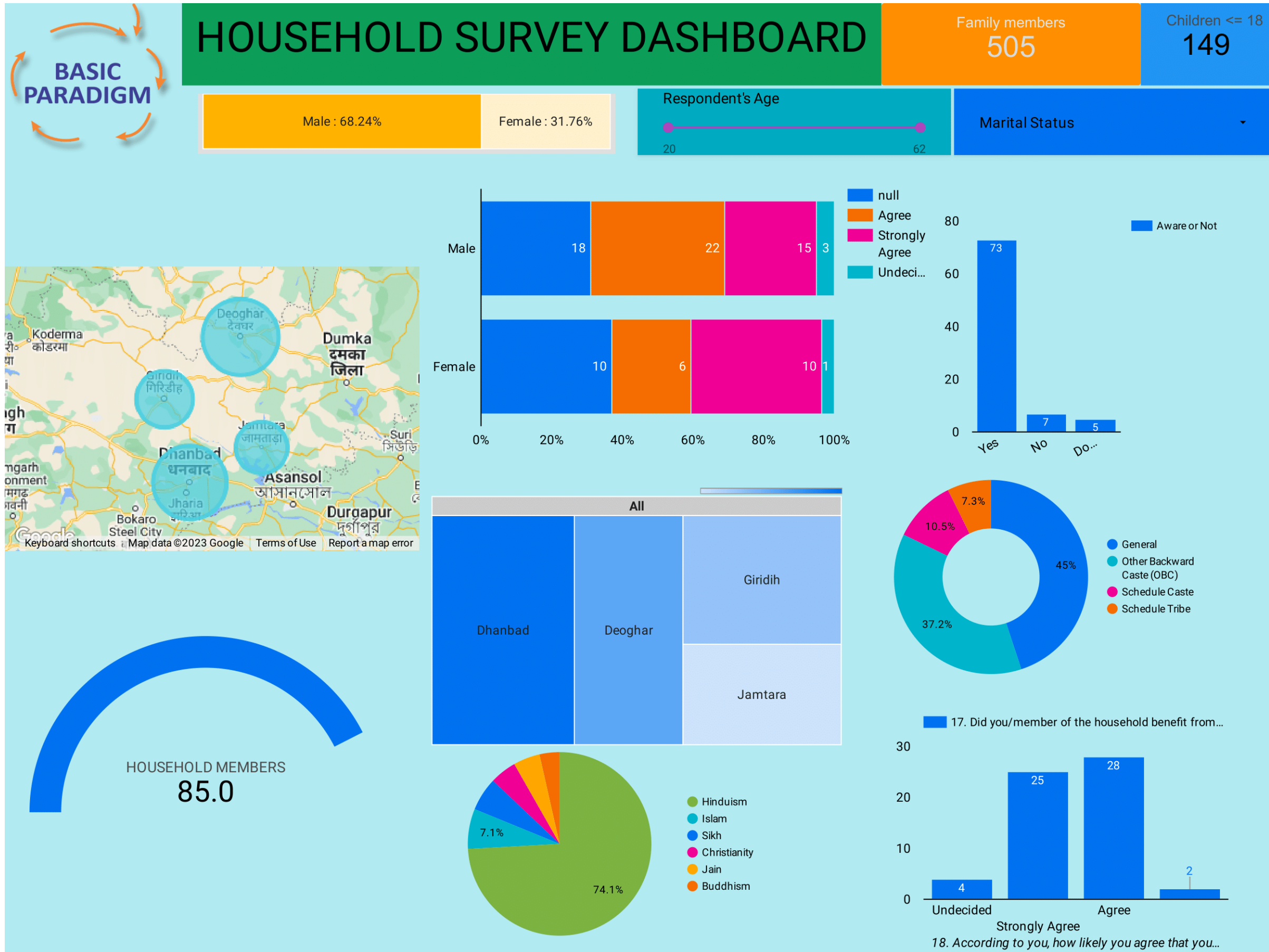
PRACTICAL VS THEROTICAL EXPOSURE

- 1.Questionnaire Preparation: Sequential order and skip logic are important to maintain while preparing a questionnaire, ensuring efficient data collection by skipping irrelevant questions based on previous responses.
- 2.Qualitative vs. Quantitative Analysis: Qualitative analysis is generally considered more challenging than quantitative analysis due to the complexity of interpreting subjective data.
- 3.Utilizing tools like Power BI or Google Studio, data visualization enhances report presentation by visually representing data and allowing for easy filtering and sorting within the same sheet.
- 4.Conducting a comprehensive literature review to gather data on awareness of lung cancer-related carcinogens among the Indian population and analyzing the findings to understand the specific awareness levels of these carcinogens.
- 5.Presenting awareness levels in tables and figures to provide a clear overview, and interpreting them to identify patterns, trends, and relationships in the data on awareness of lung cancer-related carcinogens.

ABOUT MY WORK AT BASIC PARADIGM

- 1.Tender finding from government and third-party websites.
- 2.Proposal development skills.
- 3.Knowledge of research designs and identifying research gaps.
- 4.Implementation of research studies and utilization of research tools.
- 5.Understanding of maternal healthcare programs and hierarchy.
- 6.Data collection, sampling techniques, and coding structures.
- 7.Data management and analysis using Excel and SPSS.
- 8.Survey creation using Kobo Toolbox and data collection with Kobo Collector.
- 9.Statistical analysis of research data.
- 10.Manuscript preparation and journal selection.
- 11.Identifying disease prevalence and conducting literature searches.

SAMPLE DASHBOARD ON LOOKER TOOL



LEARNINGS FROM WRITING THE RESEARCH

- 1.Significant disparities in awareness levels of lung cancer-related carcinogens among the Indian population.
- 2.Importance of addressing lower awareness levels for specific carcinogens.
- 3.Impact of anti-smoking campaigns on raising awareness of tobacco smoke.
- 4.Geographic variations in awareness levels, higher in urban areas.
- 5.Targeting high-risk groups to improve awareness.
- 6.Tailored interventions and awareness campaigns needed in regions with lower awareness levels.
- 7.Collaboration for effective strategies involving healthcare professionals and stakeholders.
- 8.Consideration of language and selection bias in future research.
- 9.Longitudinal studies needed to track changes in awareness levels over time.
- 10.Policy implications for evidence-based strategies in reducing lung cancer burden.

SWOT ANALYSIS



RESULTS FROM THE RESEARCH

Awareness of Lung Cancer-Related Carcinogens	
Carcinogen	Awareness Level
Acheson process	Low
Aluminum production	Low
Arsenic compounds	Moderate
Asbestos (all forms)	Moderate
Beryllium compounds	Low
Bis(chloromethyl)ether	Low
Chloromethyl methyl	Low
Ether (technical grade)	Low
Cadmium compounds	Moderate

Variations in Awareness Levels by Population and Geographic Location		
Population/Region	Awareness Level	Geographic Location
General Population	Moderate	Varies
Healthcare Professionals	High	Varies
High-Risk Groups	Moderate	Varies
Tamil Nadu	High	Urban
Kerala	High	Urban
Madhya Pradesh	Low	Rural
Uttar Pradesh	Low	Rural
Sikkim	Low	Rural
Rajasthan	Low	Rural
Gujrat	Low	Rural
Odisha	Low	Rural

CHALLENGES

- 1.Limited availability of relevant studies.
- 2.Heterogeneity in data reporting.
- 3.Language limitations and potential language bias.
- 4.Quality and consistency of data in selected studies.
- 5.Data gaps in certain carcinogens or specific regions.
- 6.Cross-sectional nature limiting causal inference and temporal relationship analysis.

SUGGESTION

- Strengthen partnerships for accessing a wider range of tenders.
- Foster continuous skill development for staff members.
- Expand service offerings beyond maternal healthcare programs.
- Embrace technology for enhanced data analysis capabilities.
- Foster research collaborations with universities and institutions.
- Enhance networking to stay informed and build relationships.
- Streamline internal processes for improved efficiency.
- Monitor competitive landscape for differentiation opportunities.
- Prioritize client engagement and satisfaction.
- Implement continuous quality improvement measures.