



2025

**KARNATAKA RADIOLOGY EDUCATION PROGRAM**

# CLINICAL RESEARCH – BRIDGING IMAGING & INNOVATION

## SESSION – 6 – WHY SHOULD WE DO REVIEW OF LITERATURE ?



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# REVIEW OF LITERATURE IN MEDICAL RESEARCH

## ✓ **SIGNIFICANCE:**

- ✓ ESSENTIAL FOR BUILDING A FOUNDATION OF KNOWLEDGE IN MEDICAL RESEARCH.
- ✓ HELPS IDENTIFY GAPS, TRENDS, AND AREAS FOR FUTURE STUDY.

## ✓ **PURPOSE:**

- ✓ TO CRITICALLY ANALYZE AND SYNTHESIZE EXISTING RESEARCH.
- ✓ PROVIDE CONTEXT AND BACKGROUND FOR NEW RESEARCH PROJECTS.

## ✓ **KEY TASKS:**

- ✓ FINDING AND EVALUATING RELEVANT STUDIES.
- ✓ SYNTHESIZING INFORMATION FROM DIVERSE SOURCES
- ✓ APPLYING CRITICAL THINKING AND CITATION SKILLS



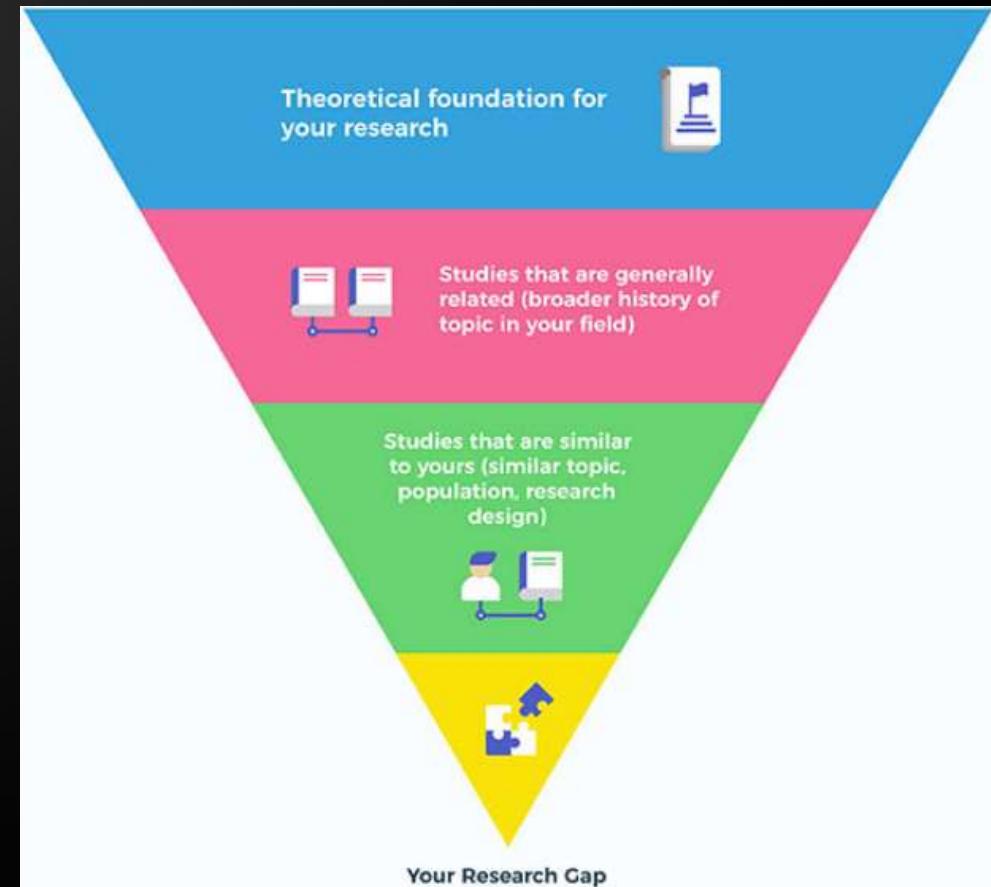
# FOR CONTEXT ESTABLISHMENT

- ✓ PROVIDES A COMPREHENSIVE OVERVIEW OF EXISTING RESEARCH.
- ✓ SITUATES YOUR STUDY WITHIN THE BROADER SCIENTIFIC CONTEXT.
- ✓ ENSURES YOUR WORK BUILDS ON THE EXISTING KNOWLEDGE BASE.
- ✓ HELPS TO UNDERSTAND HISTORICAL DEVELOPMENTS IN THE FIELD.
- ✓ HIGHLIGHTS THE EVOLUTION OF THEORIES AND CONCEPTS.
- ✓ DEMONSTRATES THE RELEVANCE OF YOUR RESEARCH TO ONGOING SCIENTIFIC DISCUSSIONS



# TO AVOID DUPLICATION OF THE RESEARCH

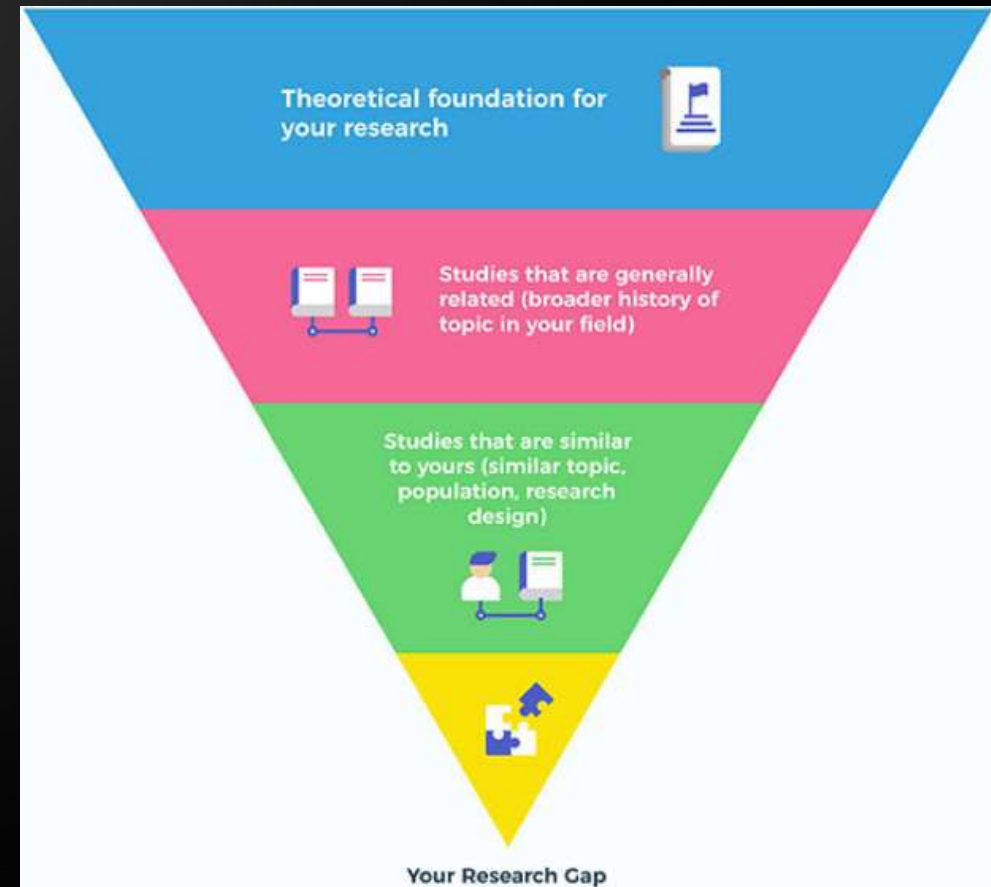
- ✓ ENSURES AWARENESS OF PREVIOUS STUDIES AND FINDINGS.
- ✓ PREVENTS UNNECESSARY DUPLICATION OF EFFORTS AND RESOURCES.
- ✓ SAVES TIME AND FUNDING BY BUILDING ON EXISTING RESEARCH.
- ✓ PROMOTES ORIGINALITY AND INNOVATION IN YOUR STUDY.
- ✓ AVOIDS REDUNDANCY IN THE PUBLICATION OF RESULTS.
- ✓ ENHANCES THE EFFICIENCY OF THE RESEARCH PROCESS.





# TO IDENTIFY THE RESEARCH GAP

- ✓ REVEALS AREAS THAT HAVE NOT BEEN SUFFICIENTLY EXPLORED.
- ✓ HELPS FORMULATE NEW RESEARCH QUESTIONS AND HYPOTHESES.
- ✓ IDENTIFIES UNDER-RESEARCHED POPULATIONS OR CONDITIONS.
- ✓ SHOWS GAPS IN KNOWLEDGE, METHODOLOGIES, OR FINDINGS.
- ✓ GUIDES FUTURE RESEARCH DIRECTIONS AND PRIORITIES.
- ✓ HIGHLIGHTS THE NEED FOR INNOVATIVE APPROACHES OR NOVEL STUDIES



# TO BE INFORMED ABOUT SOUND METHODOLOGY

- ✓ UNDERSTANDS METHODOLOGIES USED IN PREVIOUS STUDIES.
- ✓ ENSURES THE USE OF APPROPRIATE AND VALIDATED METHODS.
- ✓ HELPS TO IDENTIFY BEST PRACTICES AND STANDARDS IN THE FIELD.
- ✓ GUIDES THE SELECTION OF DATA COLLECTION AND ANALYSIS TECHNIQUES.
- ✓ IMPROVES THE RELIABILITY AND VALIDITY OF YOUR RESEARCH.

