

HOW TO WRITE A SYSTEMATIC LITERATURE REVIEW DISSERTATION

HOW TO WRITE A SYSTEMATIC LITERATURE REVIEW DISSERTATION DEMANDS A RIGOROUS, TRANSPARENT, AND METHODICAL APPROACH TO SYNTHESIZING EXISTING EVIDENCE ON A SPECIFIC RESEARCH QUESTION. THIS COMPREHENSIVE ARTICLE DELVES INTO THE INTRICATE PROCESS OF CRAFTING A HIGH-QUALITY SYSTEMATIC LITERATURE REVIEW (SLR) DISSERTATION, A POPULAR AND IMPACTFUL CHOICE FOR GRADUATE STUDENTS SEEKING TO CONTRIBUTE SIGNIFICANTLY TO THEIR FIELD WITHOUT GENERATING NEW EMPIRICAL DATA. WE WILL EXPLORE EVERYTHING FROM DEFINING YOUR RESEARCH QUESTION AND DEVELOPING A ROBUST PROTOCOL TO EXECUTING A COMPREHENSIVE SEARCH STRATEGY, METICULOUSLY SCREENING STUDIES, EXTRACTING AND SYNTHESIZING DATA, AND FINALLY, STRUCTURING AND WRITING EACH CHAPTER OF YOUR DISSERTATION. UNDERSTANDING THE SYSTEMATIC NATURE, TRANSPARENCY REQUIREMENTS, AND THE CRITICAL ASSESSMENT OF EVIDENCE ARE PARAMOUNT FOR ANY STUDENT EMBARKING ON THIS ACADEMIC JOURNEY. THIS GUIDE AIMS TO PROVIDE A CLEAR, STEP-BY-STEP ROADMAP, ENSURING YOUR SYSTEMATIC REVIEW DISSERTATION STANDS AS A TESTAMENT TO SCHOLARLY RIGOR AND ACADEMIC EXCELLENCE.

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UNDERSTANDING THE SYSTEMATIC LITERATURE REVIEW DISSERTATION

A SYSTEMATIC LITERATURE REVIEW DISSERTATION REPRESENTS A DISTINCT AND HIGHLY VALUED FORM OF ACADEMIC SCHOLARSHIP, STANDING APART FROM TRADITIONAL NARRATIVE REVIEWS. UNLIKE EXPLORATORY OR DESCRIPTIVE LITERATURE REVIEWS THAT OFTEN SERVE AS BACKGROUND FOR EMPIRICAL STUDIES, A SYSTEMATIC REVIEW IS A STANDALONE RESEARCH METHODOLOGY DESIGNED TO IDENTIFY, CRITICALLY APPRAISE, AND SYNTHESIZE ALL RELEVANT EVIDENCE ON A PARTICULAR TOPIC. THIS RIGOROUS PROCESS ADHERES TO A PREDEFINED PROTOCOL, ENSURING TRANSPARENCY, REPRODUCIBILITY, AND MINIMAL BIAS IN IDENTIFYING AND SYNTHESIZING FINDINGS. CHOOSING THIS APPROACH FOR A DISSERTATION MEANS DEMONSTRATING MASTERY OF RESEARCH METHODOLOGY, CRITICAL APPRAISAL SKILLS, AND THE ABILITY TO CONTRIBUTE A COMPREHENSIVE SUMMARY OF EXISTING KNOWLEDGE TO YOUR FIELD.

THE CORE OBJECTIVE OF A SYSTEMATIC REVIEW DISSERTATION IS TO ANSWER A CLEARLY FORMULATED RESEARCH QUESTION BY SYSTEMATICALLY SEARCHING FOR, SELECTING, AND EVALUATING RELEVANT STUDIES. THIS SYSTEMATIC APPROACH ENHANCES THE CREDIBILITY AND GENERALIZABILITY OF THE FINDINGS, OFFERING A ROBUST EVIDENCE BASE FOR POLICY, PRACTICE, OR FUTURE RESEARCH. IT REQUIRES METICULOUS PLANNING, PRECISE EXECUTION, AND A TRANSPARENT REPORTING PROCESS, WHICH ARE ALL CRUCIAL SKILLS FOR A DOCTORAL CANDIDATE OR MASTER'S STUDENT TO DEMONSTRATE.

WHY CHOOSE A SYSTEMATIC LITERATURE REVIEW FOR YOUR DISSERTATION?

OPTING FOR A SYSTEMATIC LITERATURE REVIEW DISSERTATION OFFERS NUMEROUS ADVANTAGES FOR GRADUATE STUDENTS, MAKING IT AN INCREASINGLY POPULAR CHOICE. PRIMARILY, IT ALLOWS STUDENTS TO MAKE A SIGNIFICANT SCHOLARLY CONTRIBUTION BY IDENTIFYING GAPS IN CURRENT KNOWLEDGE, RESOLVING CONFLICTING FINDINGS, OR PROVIDING A

COMPREHENSIVE SUMMARY OF EVIDENCE WITHOUT THE TIME AND RESOURCE CONSTRAINTS OFTEN ASSOCIATED WITH CONDUCTING NEW EMPIRICAL RESEARCH. THIS CAN BE PARTICULARLY BENEFICIAL FOR STUDENTS BALANCING ACADEMIC WORK WITH OTHER COMMITMENTS.

FURTHERMORE, AN SLR DISSERTATION SHARPENS CRITICAL ANALYTICAL SKILLS, INCLUDING RESEARCH QUESTION FORMULATION, COMPREHENSIVE SEARCHING, CRITICAL APPRAISAL, AND EVIDENCE SYNTHESIS. IT SHOWCASES A STUDENT'S ABILITY TO NAVIGATE COMPLEX ACADEMIC DATABASES, APPLY RIGOROUS METHODOLOGICAL STANDARDS, AND ARTICULATE NUANCED FINDINGS. THE STRUCTURED NATURE OF A SYSTEMATIC REVIEW ALSO PROVIDES A CLEAR FRAMEWORK, WHICH CAN HELP MANAGE THE EXTENSIVE SCOPE OF DISSERTATION WRITING. IT STANDS AS A TESTAMENT TO THE STUDENT'S CAPACITY FOR INDEPENDENT AND HIGH-QUALITY ACADEMIC RESEARCH.

THE FOUNDATIONAL STAGES: PLANNING YOUR SYSTEMATIC REVIEW DISSERTATION

THE SUCCESS OF ANY SYSTEMATIC LITERATURE REVIEW DISSERTATION HINGES ON METICULOUS PLANNING. THIS INITIAL PHASE ESTABLISHES THE ENTIRE FRAMEWORK FOR YOUR RESEARCH, ENSURING CLARITY, RIGOR, AND FEASIBILITY. SKIPPING OR RUSHING THROUGH THESE FOUNDATIONAL STEPS CAN LEAD TO SIGNIFICANT CHALLENGES LATER IN THE PROCESS.

FORMULATING YOUR RESEARCH QUESTION

THE BEDROCK OF YOUR SYSTEMATIC REVIEW IS A WELL-DEFINED AND FOCUSED RESEARCH QUESTION. IT MUST BE SPECIFIC, ANSWERABLE, AND DIRECTLY RELEVANT TO A GAP OR DEBATE WITHIN YOUR FIELD. OFTEN, FRAMEWORKS LIKE PICO (POPULATION, INTERVENTION, COMPARISON, OUTCOME) FOR INTERVENTION REVIEWS OR PEO (POPULATION, EXPOSURE, OUTCOME) FOR QUALITATIVE REVIEWS ARE INVALUABLE TOOLS. A CLEAR QUESTION GUIDES EVERY SUBSEQUENT STEP, FROM DESIGNING YOUR SEARCH STRATEGY TO INTERPRETING YOUR FINDINGS. SPEND AMPLE TIME REFINING THIS QUESTION WITH YOUR SUPERVISOR, ENSURING ITS SCOPE IS MANAGEABLE FOR A DISSERTATION.

FOR EXAMPLE, INSTEAD OF A BROAD QUESTION LIKE "WHAT ARE THE EFFECTS OF EXERCISE?", A SYSTEMATIC REVIEW QUESTION WOULD BE: "WHAT IS THE EFFECTIVENESS OF HIGH-INTENSITY INTERVAL TRAINING (HIIT) COMPARED TO MODERATE-INTENSITY CONTINUOUS TRAINING (MICT) ON CARDIORESPIRATORY FITNESS IN SEDENTARY ADULTS AGED 18-30?" THIS LEVEL OF SPECIFICITY IS CRUCIAL FOR EFFECTIVE RESEARCH.

DEVELOPING A COMPREHENSIVE PROTOCOL

A SYSTEMATIC REVIEW PROTOCOL IS A DETAILED PLAN OUTLINING EVERY STEP OF YOUR REVIEW BEFORE YOU BEGIN THE SEARCH. IT ACTS AS A BLUEPRINT, ENHANCING TRANSPARENCY AND REPRODUCIBILITY WHILE MINIMIZING BIAS. KEY ELEMENTS OF A PROTOCOL INCLUDE THE RATIONALE FOR THE REVIEW, YOUR SPECIFIC RESEARCH QUESTION, INCLUSION AND EXCLUSION CRITERIA, SEARCH STRATEGY, DATA EXTRACTION PLAN, AND METHODS FOR QUALITY ASSESSMENT AND SYNTHESIS. MANY ACADEMIC DISCIPLINES ENCOURAGE OR REQUIRE PRE-REGISTRATION OF PROTOCOLS WITH PLATFORMS LIKE PROSPERO, WHICH PUBLICLY DOCUMENTS YOUR PLAN AND PREVENTS SELECTIVE REPORTING OR POST-HOC CHANGES.

ADHERING TO A PUBLISHED PROTOCOL ENSURES THAT YOUR SYSTEMATIC REVIEW DISSERTATION FOLLOWS ESTABLISHED BEST PRACTICES AND CAN BE SCRUTINIZED FOR METHODOLOGICAL SOUNDNESS. IT ALSO SERVES AS A LIVING DOCUMENT THAT CAN BE UPDATED WITH CLEAR JUSTIFICATIONS IF NECESSARY, MAINTAINING INTEGRITY THROUGHOUT THE REVIEW PROCESS.

DEFINING INCLUSION AND EXCLUSION CRITERIA

PRECISELY DEFINING YOUR INCLUSION AND EXCLUSION CRITERIA IS CRITICAL FOR MANAGING THE SCOPE OF YOUR REVIEW AND ENSURING THAT ONLY RELEVANT STUDIES ARE CONSIDERED. THESE CRITERIA SHOULD DIRECTLY STEM FROM YOUR RESEARCH QUESTION AND PROTOCOL. THEY MIGHT COVER ASPECTS SUCH AS PARTICIPANT CHARACTERISTICS (E.G., AGE, DIAGNOSIS), TYPES OF INTERVENTIONS OR EXPOSURES, STUDY DESIGNS (E.G., RANDOMIZED CONTROLLED TRIALS, QUALITATIVE STUDIES), OUTCOME MEASURES, PUBLICATION DATES, AND LANGUAGE OF PUBLICATION. EVERY STUDY IDENTIFIED DURING THE SEARCH PROCESS WILL BE EVALUATED AGAINST THESE PREDEFINED CRITERIA.

CLEAR, UNAMBIGUOUS CRITERIA HELP ENSURE CONSISTENCY DURING THE SCREENING PROCESS AND REDUCE POTENTIAL BIAS IN STUDY SELECTION. IT IS OFTEN BENEFICIAL TO PILOT YOUR CRITERIA WITH A SMALL SAMPLE OF STUDIES TO ENSURE THEIR APPLICABILITY AND CLARITY BEFORE EMBARKING ON THE FULL SCREENING PROCESS.

EXECUTING THE SEARCH STRATEGY

THE SEARCH STRATEGY IS THE ENGINE OF YOUR SYSTEMATIC LITERATURE REVIEW DISSERTATION, DESIGNED TO SYSTEMATICALLY IDENTIFY ALL RELEVANT PUBLISHED AND UNPUBLISHED LITERATURE TO ANSWER YOUR RESEARCH QUESTION. IT MUST BE COMPREHENSIVE, REPRODUCIBLE, AND DOCUMENTED THOROUGHLY.

IDENTIFYING RELEVANT DATABASES AND SOURCES

A ROBUST SEARCH STRATEGY INVOLVES CONSULTING MULTIPLE ELECTRONIC DATABASES AND OTHER SOURCES TO MINIMIZE PUBLICATION BIAS. THE SELECTION OF DATABASES DEPENDS ON YOUR FIELD OF STUDY. COMMON DATABASES INCLUDE PubMed/MEDLINE, SCOPUS, WEB OF SCIENCE, EMBASE, PSYCINFO, CINAHL, AND COCHRANE LIBRARY. BEYOND THESE, CONSIDER DISCIPLINE-SPECIFIC DATABASES, GREY LITERATURE (E.G., CONFERENCE PROCEEDINGS, GOVERNMENT REPORTS, DISSERTATIONS) TO AVOID PUBLICATION BIAS TOWARDS POSITIVE FINDINGS, AND HAND-SEARCHING REFERENCE LISTS OF INCLUDED STUDIES.

THE GOAL IS TO CAST A WIDE NET INITIALLY, THEN SYSTEMATICALLY REFINE THE RESULTS. DOCUMENTING THE SPECIFIC DATABASES SEARCHED AND THE DATE OF THE SEARCH IS CRUCIAL FOR TRANSPARENCY.

CRAFTING COMPREHENSIVE SEARCH STRINGS

DEVELOPING EFFECTIVE SEARCH STRINGS REQUIRES A COMBINATION OF KEYWORDS, BOOLEAN OPERATORS (AND, OR, NOT), AND TRUNCATION/WILDCARD SYMBOLS. BREAK DOWN YOUR RESEARCH QUESTION INTO KEY CONCEPTS (E.G., POPULATION, INTERVENTION, OUTCOME) AND IDENTIFY ALL POSSIBLE SYNONYMS, RELATED TERMS, AND CONTROLLED VOCABULARY TERMS (MeSH TERMS IN PubMed, Emtree IN EMBASE). COMBINE THESE TERMS USING OR WITHIN CONCEPTS AND AND BETWEEN CONCEPTS.

FOR EXAMPLE, (("HYPERTENSION" OR "HIGH BLOOD PRESSURE") AND ("DIETARY INTERVENTION" OR "NUTRITION THERAPY") AND ("BLOOD PRESSURE REDUCTION" OR "ANTIHYPERTENSIVE EFFECT")). TEST AND REFINE YOUR SEARCH STRINGS ITERATIVELY TO BALANCE SENSITIVITY (RETRIEVING ALL RELEVANT STUDIES) AND SPECIFICITY (MINIMIZING IRRELEVANT STUDIES).

MANAGING SEARCH RESULTS AND DEDUPLICATION

ONCE YOU EXECUTE YOUR SEARCH ACROSS MULTIPLE DATABASES, YOU WILL LIKELY GENERATE THOUSANDS OF RESULTS WITH SIGNIFICANT OVERLAP. EFFECTIVE MANAGEMENT OF THESE RESULTS IS PARAMOUNT. UTILIZE REFERENCE MANAGEMENT SOFTWARE SUCH AS ZOTERO, MENDELEY, OR ENDNOTE TO IMPORT ALL SEARCH RESULTS. THESE TOOLS FACILITATE EFFICIENT DEDUPLICATION, REMOVING DUPLICATE ENTRIES THAT ARISE FROM SEARCHING MULTIPLE DATABASES. AFTER DEDUPLICATION, YOU WILL HAVE A UNIQUE SET OF RECORDS FOR SCREENING. MAINTAINING A DETAILED LOG OF THE SEARCH PROCESS, INCLUDING THE NUMBER OF HITS FROM EACH DATABASE AND THE NUMBER OF DUPLICATES REMOVED, IS ESSENTIAL FOR THE PRISMA FLOW DIAGRAM.

SCREENING AND SELECTION OF STUDIES

AFTER COMPILING ALL UNIQUE SEARCH RESULTS, THE NEXT CRITICAL STEP IS TO SYSTEMATICALLY SCREEN AND SELECT STUDIES THAT MEET YOUR PREDEFINED INCLUSION CRITERIA. THIS PHASE IS TYPICALLY CONDUCTED IN TWO STAGES TO ENSURE THOROUGHNESS AND MINIMIZE ERROR.

TITLE AND ABSTRACT SCREENING

THE INITIAL SCREENING PHASE INVOLVES REVIEWING THE TITLES AND ABSTRACTS OF ALL UNIQUE RECORDS. THIS IS A RAPID ASSESSMENT TO IDENTIFY STUDIES THAT ARE CLEARLY IRRELEVANT AND CAN BE EXCLUDED IMMEDIATELY. IT IS HIGHLY RECOMMENDED TO HAVE AT LEAST TWO INDEPENDENT REVIEWERS CONDUCT THIS SCREENING TO MINIMIZE BIAS AND HUMAN ERROR. DISCREPANCIES BETWEEN REVIEWERS SHOULD BE RESOLVED THROUGH DISCUSSION OR BY CONSULTING A THIRD REVIEWER. TOOLS LIKE COVIDENCE OR RAYYAN CAN STREAMLINE THIS PROCESS, FACILITATING COLLABORATIVE SCREENING AND CONFLICT RESOLUTION. THE AIM HERE IS TO FILTER OUT THE MAJORITY OF OBVIOUSLY UNSUITABLE ARTICLES, LEAVING A MORE MANAGEABLE SET FOR FULL-TEXT REVIEW.

FULL-TEXT REVIEW

FOR ALL STUDIES DEEMED POTENTIALLY RELEVANT DURING TITLE AND ABSTRACT SCREENING, THE FULL-TEXT ARTICLES ARE RETRIEVED AND ASSESSED IN DETAIL AGAINST THE PRECISE INCLUSION AND EXCLUSION CRITERIA. THIS STAGE REQUIRES A MORE IN-DEPTH READING TO CONFIRM ELIGIBILITY. AGAIN, THIS PROCESS SHOULD BE CONDUCTED BY TWO INDEPENDENT REVIEWERS, WITH DISAGREEMENTS RESOLVED THROUGH CONSENSUS OR ARBITRATION. DURING FULL-TEXT SCREENING, IT'S COMMON TO FIND STUDIES THAT INITIALLY APPEARED RELEVANT BUT, UPON CLOSER INSPECTION, DO NOT MEET ALL CRITERIA (E.G., WRONG POPULATION, INCORRECT INTERVENTION, IRRELEVANT OUTCOME). DETAILED REASONS FOR EXCLUSION AT THIS STAGE MUST BE METICULOUSLY DOCUMENTED.

DOCUMENTING THE SELECTION PROCESS (PRISMA FLOW DIAGRAM)

TRANSPARENCY IN THE STUDY SELECTION PROCESS IS A HALLMARK OF A HIGH-QUALITY SYSTEMATIC REVIEW DISSERTATION. THE PRISMA (PREFERRED REPORTING ITEMS FOR SYSTEMATIC REVIEWS AND META-ANALYSES) FLOW DIAGRAM IS A WIDELY ACCEPTED VISUAL TOOL FOR DEPICTING THE NUMBER OF STUDIES IDENTIFIED, SCREENED, DEEMED ELIGIBLE, INCLUDED, AND EXCLUDED AT EACH STAGE OF THE REVIEW. THIS DIAGRAM, ALONG WITH ACCOMPANYING TEXT, PROVIDES A CLEAR AUDIT TRAIL OF YOUR SELECTION DECISIONS, ALLOWING READERS TO UNDERSTAND HOW YOU ARRIVED AT YOUR FINAL SET OF INCLUDED STUDIES. ACCURATE DOCUMENTATION IS VITAL FOR THE REPRODUCIBILITY AND CREDIBILITY OF YOUR DISSERTATION.

DATA EXTRACTION AND QUALITY ASSESSMENT

ONCE THE FINAL SET OF STUDIES IS SELECTED, THE CRUCIAL PROCESSES OF DATA EXTRACTION AND CRITICAL APPRAISAL BEGIN. THESE STEPS SYSTEMATICALLY GATHER INFORMATION FROM THE INCLUDED STUDIES AND EVALUATE THEIR METHODOLOGICAL RIGOR.

DESIGNING A DATA EXTRACTION FORM

BEFORE EXTRACTING DATA, DEVELOP A STANDARDIZED DATA EXTRACTION FORM OR TEMPLATE. THIS FORM ENSURES THAT CONSISTENT INFORMATION IS COLLECTED FROM EVERY INCLUDED STUDY, FACILITATING LATER SYNTHESIS. THE VARIABLES TO BE EXTRACTED SHOULD DIRECTLY RELATE TO YOUR RESEARCH QUESTION AND PROTOCOL. TYPICAL EXTRACTED DATA INCLUDE:

- STUDY CHARACTERISTICS (AUTHOR, YEAR, COUNTRY, STUDY DESIGN)
- PARTICIPANT CHARACTERISTICS (SAMPLE SIZE, AGE, DEMOGRAPHICS)
- INTERVENTION/EXPOSURE DETAILS (TYPE, DURATION, DOSE)
- OUTCOME MEASURES AND RESULTS (EFFECT SIZES, P-VALUES, QUALITATIVE THEMES)
- METHODOLOGICAL INFORMATION RELEVANT FOR QUALITY ASSESSMENT

PILOT YOUR DATA EXTRACTION FORM ON A FEW STUDIES TO REFINE IT AND ENSURE ALL NECESSARY INFORMATION CAN BE

CAPTURED RELIABLY. THIS PRE-TESTING CAN SIGNIFICANTLY REDUCE ERRORS DURING THE FULL EXTRACTION PROCESS.

EXTRACTING RELEVANT DATA

DATA EXTRACTION SHOULD IDEALLY BE PERFORMED BY TWO INDEPENDENT REVIEWERS TO MINIMIZE ERRORS AND ENSURE ACCURACY. DISCREPANCIES SHOULD BE RESOLVED THROUGH DISCUSSION OR WITH THE INPUT OF A THIRD REVIEWER. TRANSFER THE EXTRACTED DATA INTO A DATABASE OR SPREADSHEET FOR ORGANIZATION AND ANALYSIS. BE METICULOUS IN RECORDING NUMERICAL DATA, VERBATIM QUOTES, OR SPECIFIC STUDY DETAILS. ANY AMBIGUITY IN THE ORIGINAL STUDIES SHOULD BE NOTED. THIS CAREFUL AND DUAL EXTRACTION PROCESS ENHANCES THE RELIABILITY OF THE DATA THAT WILL FORM THE BASIS OF YOUR DISSERTATION'S FINDINGS.

ASSESSING METHODOLOGICAL QUALITY AND RISK OF BIAS

CRITICALLY APPRAISING THE METHODOLOGICAL QUALITY AND RISK OF BIAS OF EACH INCLUDED STUDY IS A MANDATORY COMPONENT OF A SYSTEMATIC REVIEW DISSERTATION. THIS ASSESSMENT HELPS TO UNDERSTAND THE TRUSTWORTHINESS OF THE STUDIES' FINDINGS AND THEIR POTENTIAL IMPACT ON YOUR OVERALL SYNTHESIS. VARIOUS TOOLS ARE AVAILABLE DEPENDING ON THE STUDY DESIGN:

- **FOR RANDOMIZED CONTROLLED TRIALS (RCTs):** COCHRANE RISK OF BIAS TOOL (RoB 2.0)
- **FOR OBSERVATIONAL STUDIES:** NEWCASTLE-OTTAWA SCALE (NOS), JOANNA BRIGGS INSTITUTE (JBI) CRITICAL APPRAISAL TOOLS
- **FOR QUALITATIVE STUDIES:** JOANNA BRIGGS INSTITUTE (JBI) QARI, CASP QUALITATIVE CHECKLIST
- **FOR MIXED-METHODS STUDIES:** MIXED METHODS APPRAISAL TOOL (MMAT)

APPLY THE CHOSEN TOOL(S) SYSTEMATICALLY TO EACH STUDY, AGAIN, IDEALLY BY TWO INDEPENDENT REVIEWERS. THE RESULTS OF THIS QUALITY ASSESSMENT SHOULD BE REPORTED IN YOUR DISSERTATION, OFTEN IN A SUMMARY TABLE, AND DISCUSSED IN RELATION TO THE OVERALL FINDINGS.

SYNTHESIZING THE EVIDENCE

THE SYNTHESIS STAGE IS WHERE YOU BRING TOGETHER THE EXTRACTED DATA AND CRITICALLY APPRAISED FINDINGS FROM THE INDIVIDUAL STUDIES TO ANSWER YOUR RESEARCH QUESTION. THE APPROACH TO SYNTHESIS DEPENDS ON THE NATURE OF YOUR DATA (QUANTITATIVE, QUALITATIVE, OR MIXED) AND THE HOMOGENEITY OF THE STUDIES.

QUALITATIVE SYNTHESIS (NARRATIVE SYNTHESIS)

IF YOUR INCLUDED STUDIES ARE PREDOMINANTLY QUALITATIVE OR TOO HETEROGENEOUS FOR A QUANTITATIVE SYNTHESIS, A NARRATIVE SYNTHESIS IS APPROPRIATE. THIS INVOLVES DESCRIBING AND EXPLAINING THE FINDINGS OF THE INCLUDED STUDIES IN TEXT. COMMON APPROACHES INCLUDE THEMATIC ANALYSIS, WHERE YOU IDENTIFY RECURRING THEMES ACROSS STUDIES; FRAMEWORK SYNTHESIS, WHERE YOU APPLY A PRE-EXISTING THEORETICAL FRAMEWORK; OR META-ETHNOGRAPHY, WHICH AIMS TO INTERPRET THE INTERPRETATIONS OF QUALITATIVE STUDIES. THE GOAL IS TO IDENTIFY PATTERNS, CONSISTENCIES, INCONSISTENCIES, AND GENERATE NEW INSIGHTS OR THEORIES BASED ON THE COLLECTIVE EVIDENCE. THIS METHOD REQUIRES A STRONG ANALYTICAL VOICE AND THE ABILITY TO DRAW MEANINGFUL CONNECTIONS BETWEEN DIVERSE FINDINGS.

QUANTITATIVE SYNTHESIS (META-ANALYSIS)

WHEN INCLUDED STUDIES ARE SUFFICIENTLY HOMOGENEOUS IN TERMS OF POPULATION, INTERVENTION, COMPARISON, AND OUTCOME, AND PROVIDE QUANTITATIVE DATA, A META-ANALYSIS MAY BE CONDUCTED. META-ANALYSIS USES STATISTICAL

METHODS TO COMBINE THE RESULTS OF MULTIPLE STUDIES, PRODUCING A SINGLE, MORE PRECISE ESTIMATE OF AN EFFECT. THIS INVOLVES CALCULATING EFFECT SIZES, ASSESSING HETEROGENEITY BETWEEN STUDIES (E.G., USING I^2 STATISTIC), AND POTENTIALLY CONDUCTING SUBGROUP ANALYSES OR META-REGRESSION TO EXPLORE SOURCES OF HETEROGENEITY. WHILE META-ANALYSIS OFFERS A POWERFUL STATISTICAL SUMMARY, IT REQUIRES SPECIALIZED SOFTWARE AND A STRONG UNDERSTANDING OF STATISTICAL PRINCIPLES. THE DECISION TO PERFORM A META-ANALYSIS MUST BE CAREFULLY CONSIDERED AND JUSTIFIED IN YOUR PROTOCOL.

INTERPRETING AND DISCUSSING FINDINGS

REGARDLESS OF THE SYNTHESIS APPROACH, THE INTERPRETATION OF FINDINGS IS CRUCIAL. YOU MUST CRITICALLY EXAMINE WHAT THE SYNTHESIZED EVIDENCE TELLS YOU IN RELATION TO YOUR RESEARCH QUESTION. DISCUSS THE OVERALL FINDINGS, HIGHLIGHT ANY INCONSISTENCIES OR AREAS OF CONFLICTING EVIDENCE, AND REFLECT ON HOW THE QUALITY ASSESSMENT IMPACTS THE CERTAINTY OF THE FINDINGS. CONSIDER THE LIMITATIONS OF THE INCLUDED STUDIES AND YOUR REVIEW PROCESS. THIS DISCUSSION SHOULD PROVIDE A NUANCED UNDERSTANDING OF THE CURRENT STATE OF KNOWLEDGE AND CONTEXTUALIZE YOUR FINDINGS WITHIN THE BROADER ACADEMIC LITERATURE.

WRITING YOUR SYSTEMATIC LITERATURE REVIEW DISSERTATION

TRANSFORMING YOUR SYSTEMATIC REVIEW PROCESS INTO A COHERENT AND COMPELLING DISSERTATION REQUIRES A CLEAR STRUCTURE AND METICULOUS ATTENTION TO ACADEMIC WRITING STANDARDS.

STRUCTURING THE DISSERTATION

A SYSTEMATIC LITERATURE REVIEW DISSERTATION TYPICALLY FOLLOWS A STANDARD ACADEMIC STRUCTURE, THOUGH CHAPTER TITLES MAY VARY SLIGHTLY. THE CORE COMPONENTS INCLUDE:

1. **INTRODUCTION:** SETS THE STAGE, OUTLINES THE PROBLEM, STATES THE RESEARCH QUESTION.
2. **LITERATURE REVIEW (IF SEPARATE):** CONTEXTUALIZES THE REVIEW, THOUGH OFTEN INTEGRATED INTO THE INTRODUCTION.
3. **METHODOLOGY:** DETAILS EVERY STEP OF YOUR SYSTEMATIC REVIEW PROCESS.
4. **RESULTS:** PRESENTS THE FINDINGS FROM YOUR INCLUDED STUDIES.
5. **DISCUSSION:** INTERPRETS THE RESULTS, RELATES THEM TO EXISTING LITERATURE, ACKNOWLEDGES LIMITATIONS.
6. **CONCLUSION:** SUMMARIZES KEY FINDINGS, STATES IMPLICATIONS, SUGGESTS FUTURE RESEARCH.
7. **REFERENCES:** COMPREHENSIVE LIST OF ALL CITED WORKS.
8. **APPENDICES:** SUPPLEMENTARY MATERIALS (E.G., SEARCH STRINGS, EXTRACTION FORMS, PRISMA CHECKLIST).

EACH CHAPTER NEEDS TO FLOW LOGICALLY FROM ONE TO THE NEXT, BUILDING A COMPLETE NARRATIVE OF YOUR RESEARCH JOURNEY.

THE INTRODUCTION CHAPTER

THE INTRODUCTION OF YOUR SYSTEMATIC LITERATURE REVIEW DISSERTATION SERVES TO ORIENT THE READER TO YOUR TOPIC AND THE PURPOSE OF YOUR REVIEW. BEGIN BY PROVIDING BACKGROUND INFORMATION ON THE RESEARCH AREA, ESTABLISHING THE SIGNIFICANCE OF THE PROBLEM YOU ARE ADDRESSING. CLEARLY STATE THE RATIONALE FOR CONDUCTING A SYSTEMATIC REVIEW, HIGHLIGHTING EXISTING GAPS, INCONSISTENCIES, OR CONTROVERSIES IN THE LITERATURE THAT YOUR REVIEW AIMS TO RESOLVE.

CONCLUDE THE INTRODUCTION BY EXPLICITLY STATING YOUR CLEAR, FOCUSED RESEARCH QUESTION(S) AND OUTLINING THE STRUCTURE OF YOUR DISSERTATION. THIS CHAPTER SHOULD COMPEL THE READER AND MAKE A STRONG CASE FOR THE VALUE OF YOUR WORK.

THE METHODOLOGY CHAPTER

THIS IS ARGUABLY THE MOST CRITICAL CHAPTER FOR A SYSTEMATIC REVIEW DISSERTATION, AS IT DETAILS THE RIGOROUS PROCESS YOU FOLLOWED. IT MUST BE EXCEPTIONALLY TRANSPARENT AND COMPREHENSIVE, ALLOWING ANOTHER RESEARCHER TO REPLICATE YOUR WORK. EACH STEP OF YOUR REVIEW SHOULD BE DESCRIBED IN DETAIL:

- **RESEARCH QUESTION:** RESTATE YOUR QUESTION, PERHAPS WITH PICO/PEO ELEMENTS.
- **PROTOCOL:** MENTION IF YOU REGISTERED A PROTOCOL (E.G., PROSPERO) AND ITS KEY ELEMENTS.
- **ELIGIBILITY CRITERIA:** PRESENT YOUR INCLUSION AND EXCLUSION CRITERIA IN DETAIL.
- **SEARCH STRATEGY:** LIST ALL DATABASES, SEARCH TERMS, BOOLEAN OPERATORS, AND DATES OF SEARCH. PROVIDE A FULL EXAMPLE SEARCH STRING FOR ONE DATABASE.
- **STUDY SELECTION:** DESCRIBE THE TWO-STAGE SCREENING PROCESS (TITLE/ABSTRACT, FULL-TEXT), INDEPENDENT REVIEWERS, AND CONFLICT RESOLUTION. REFER TO YOUR PRISMA FLOW DIAGRAM.
- **DATA EXTRACTION:** DETAIL YOUR EXTRACTION FORM, VARIABLES COLLECTED, AND INDEPENDENT EXTRACTION PROCESS.
- **QUALITY ASSESSMENT/RISK OF BIAS:** SPECIFY THE TOOL(S) USED, HOW IT WAS APPLIED, AND BY WHOM.
- **DATA SYNTHESIS:** EXPLAIN YOUR CHOSEN SYNTHESIS METHOD (NARRATIVE, META-ANALYSIS), INCLUDING ANY STATISTICAL APPROACHES OR THEMATIC ANALYSIS TECHNIQUES.

PRECISION AND DETAIL ARE PARAMOUNT HERE TO DEMONSTRATE THE SYSTEMATIC NATURE OF YOUR DISSERTATION.

THE RESULTS CHAPTER

THE RESULTS CHAPTER PRESENTS THE FINDINGS DERIVED FROM YOUR SYSTEMATIC REVIEW, BEGINNING WITH AN OVERVIEW OF THE SEARCH AND SELECTION PROCESS (REFERENCING YOUR PRISMA FLOW DIAGRAM). IT SHOULD THEN DESCRIBE THE CHARACTERISTICS OF THE INCLUDED STUDIES, OFTEN PRESENTED IN TABLES (E.G., STUDY DESIGN, POPULATION, INTERVENTION DETAILS, KEY OUTCOMES). FOLLOWING THIS, PRESENT THE FINDINGS OF YOUR QUALITY ASSESSMENT OR RISK OF BIAS ANALYSIS FOR EACH STUDY OR IN SUMMARY FORM. FINALLY, DETAIL THE SYNTHESIZED EVIDENCE, ADHERING TO YOUR CHOSEN SYNTHESIS METHOD. IF A META-ANALYSIS WAS CONDUCTED, PRESENT FOREST PLOTS AND STATISTICAL OUTCOMES. FOR A NARRATIVE SYNTHESIS, PRESENT THE IDENTIFIED THEMES OR PATTERNS WITH SUPPORTING EVIDENCE FROM INDIVIDUAL STUDIES. USE CLEAR, OBJECTIVE LANGUAGE AND FIGURES/TABLES TO PRESENT COMPLEX INFORMATION EFFECTIVELY, LETTING THE DATA SPEAK FOR ITSELF.

THE DISCUSSION CHAPTER

THE DISCUSSION CHAPTER MOVES BEYOND PRESENTING FACTS TO INTERPRETING, CONTEXTUALIZING, AND CRITICALLY EVALUATING YOUR SYSTEMATIC REVIEW'S FINDINGS. BEGIN BY SUMMARIZING YOUR MAIN FINDINGS IN RELATION TO YOUR RESEARCH QUESTION. COMPARE AND CONTRAST YOUR RESULTS WITH EXISTING LITERATURE, HIGHLIGHTING WHERE YOUR REVIEW CONFIRMS, REFUTES, OR ADDS NEW INSIGHTS. DISCUSS THE IMPLICATIONS OF YOUR FINDINGS FOR THEORY, PRACTICE, OR POLICY. CRITICALLY REFLECT ON THE LIMITATIONS OF YOUR REVIEW, INCLUDING POTENTIAL BIASES IN THE INCLUDED STUDIES (AS IDENTIFIED IN YOUR QUALITY ASSESSMENT) AND LIMITATIONS OF YOUR OWN METHODOLOGY (E.G., SEARCH SCOPE, LANGUAGE RESTRICTIONS). CONCLUDE BY SUGGESTING DIRECTIONS FOR FUTURE RESEARCH BASED ON THE GAPS OR QUESTIONS IDENTIFIED DURING YOUR REVIEW.

THE CONCLUSION CHAPTER

THE CONCLUSION CHAPTER PROVIDES A CONCISE SUMMARY OF YOUR SYSTEMATIC LITERATURE REVIEW DISSERTATION. REITERATE THE MAIN OBJECTIVE OF YOUR REVIEW AND BRIEFLY RESTATE YOUR KEY FINDINGS WITHOUT INTRODUCING NEW INFORMATION. EMPHASIZE THE UNIQUE CONTRIBUTION YOUR DISSERTATION MAKES TO THE BODY OF KNOWLEDGE IN YOUR FIELD. THIS CHAPTER SHOULD OFFER A SENSE OF COMPLETENESS, REINFORCING THE SIGNIFICANCE AND IMPACT OF YOUR RIGOROUS ACADEMIC WORK. AVOID SIMPLY RESTATING THE INTRODUCTION; INSTEAD, FOCUS ON THE INSIGHTS GAINED AND THE VALUE ADDED BY YOUR SYSTEMATIC SYNTHESIS OF EVIDENCE.

LEVERAGING TECHNOLOGY AND TOOLS FOR EFFICIENCY

SUCCESSFULLY NAVIGATING THE COMPLEXITIES OF A SYSTEMATIC LITERATURE REVIEW DISSERTATION IS SIGNIFICANTLY AIDED BY EMBRACING VARIOUS TECHNOLOGICAL TOOLS. REFERENCE MANAGEMENT SOFTWARE LIKE ZOTERO, MENDELEY, OR ENDNOTE ARE INDISPENSABLE FOR MANAGING THOUSANDS OF SEARCH RESULTS, DEDUPLICATING RECORDS, AND GENERATING CITATIONS. SPECIALIZED SYSTEMATIC REVIEW SOFTWARE SUCH AS COVIDENCE OR RAYYAN SIMPLIFIES THE SCREENING PROCESS BY ALLOWING MULTIPLE REVIEWERS TO INDEPENDENTLY SCREEN TITLES, ABSTRACTS, AND FULL TEXTS, AND FACILITATES CONFLICT RESOLUTION. EXCEL OR SPECIALIZED SOFTWARE (E.G., REVMAN FOR COCHRANE REVIEWS, R PACKAGES FOR META-ANALYSIS) ARE CRUCIAL FOR DATA EXTRACTION AND SYNTHESIS. ADDITIONALLY, TEXT ANALYSIS SOFTWARE CAN ASSIST IN THEMATIC ANALYSIS FOR QUALITATIVE SYNTHESIS. BECOMING PROFICIENT WITH THESE TOOLS CAN DRASTICALLY IMPROVE EFFICIENCY, ACCURACY, AND COLLABORATION THROUGHOUT YOUR DISSERTATION JOURNEY, STREAMLINING THE OVERALL SYSTEMATIC REVIEW PROCESS.

COMMON CHALLENGES AND BEST PRACTICES

UNDERTAKING A SYSTEMATIC LITERATURE REVIEW DISSERTATION IS A DEMANDING YET REWARDING ENDEAVOR. COMMON CHALLENGES INCLUDE MANAGING THE VAST NUMBER OF POTENTIAL STUDIES, ENSURING CONSISTENCY ACROSS MULTIPLE REVIEWERS, AND NAVIGATING COMPLEX STATISTICAL ANALYSES IF PERFORMING A META-ANALYSIS. SCOPE CREEP, WHERE THE RESEARCH QUESTION BECOMES TOO BROAD, IS ANOTHER FREQUENT HURDLE. TO MITIGATE THESE, METICULOUS PLANNING, PARTICULARLY IN FORMULATING YOUR RESEARCH QUESTION AND DEVELOPING A DETAILED PROTOCOL, IS ESSENTIAL. REGULAR MEETINGS WITH YOUR SUPERVISOR AND, IF POSSIBLE, COLLABORATING WITH A LIBRARIAN OR STATISTICIAN CAN PROVIDE INVALUABLE SUPPORT. PRIORITIZING CLEAR COMMUNICATION, CONSISTENT DOCUMENTATION AT EVERY STAGE, AND ADHERING STRICTLY TO YOUR PROTOCOL ARE BEST PRACTICES THAT WILL SIGNIFICANTLY ENHANCE THE QUALITY AND ROBUSTNESS OF YOUR SYSTEMATIC REVIEW DISSERTATION, ENSURING IT MEETS THE HIGHEST ACADEMIC STANDARDS. EMBARKING ON THIS JOURNEY WITH A CLEAR UNDERSTANDING OF THESE ELEMENTS WILL SET YOU UP FOR SUCCESS.

FAQ SECTION

Q: WHAT IS THE PRIMARY DIFFERENCE BETWEEN A SYSTEMATIC LITERATURE REVIEW AND A TRADITIONAL LITERATURE REVIEW FOR A DISSERTATION?

A: THE PRIMARY DIFFERENCE LIES IN THEIR METHODOLOGY AND RIGOR. A TRADITIONAL LITERATURE REVIEW OFTEN PROVIDES A NARRATIVE OVERVIEW, SERVING AS BACKGROUND FOR A STUDY, AND MAY NOT FOLLOW A PREDEFINED, REPRODUCIBLE METHODOLOGY. IN CONTRAST, A SYSTEMATIC LITERATURE REVIEW DISSERTATION ADHERES TO A STRICT, TRANSPARENT PROTOCOL TO IDENTIFY, APPRAISE, AND SYNTHESIZE ALL RELEVANT EVIDENCE ON A SPECIFIC RESEARCH QUESTION. THIS SYSTEMATIC APPROACH AIMS TO MINIMIZE BIAS, ENHANCE REPRODUCIBILITY, AND PROVIDE A COMPREHENSIVE, EVIDENCE-BASED ANSWER, MAKING IT A STANDALONE RESEARCH METHODOLOGY RATHER THAN JUST A BACKGROUND CHAPTER.

Q: IS A SYSTEMATIC LITERATURE REVIEW SUITABLE FOR A DOCTORAL DISSERTATION?

A: YES, ABSOLUTELY. A SYSTEMATIC LITERATURE REVIEW DISSERTATION IS AN INCREASINGLY ACCEPTED AND HIGHLY VALUED APPROACH FOR DOCTORAL DISSERTATIONS. IT DEMONSTRATES A DOCTORAL CANDIDATE'S ABILITY TO CRITICALLY ANALYZE VAST BODIES OF LITERATURE, APPLY RIGOROUS METHODOLOGICAL STANDARDS, SYNTHESIZE COMPLEX INFORMATION, AND CONTRIBUTE SIGNIFICANTLY TO THEIR FIELD WITHOUT NECESSARILY GENERATING NEW EMPIRICAL DATA. IT SHOWCASES ADVANCED RESEARCH SKILLS, CRITICAL THINKING, AND THE CAPACITY FOR INDEPENDENT SCHOLARLY WORK, MAKING IT A ROBUST OPTION FOR DOCTORAL-LEVEL RESEARCH.

Q: HOW LONG DOES IT TYPICALLY TAKE TO COMPLETE A SYSTEMATIC LITERATURE REVIEW DISSERTATION?

A: THE TIMELINE FOR COMPLETING A SYSTEMATIC LITERATURE REVIEW DISSERTATION CAN VARY SIGNIFICANTLY DEPENDING ON THE SCOPE OF THE RESEARCH QUESTION, THE STUDENT'S PRIOR EXPERIENCE, THE AVAILABILITY OF RESOURCES, AND THE NUMBER OF STUDIES IDENTIFIED. GENERALLY, IT CAN TAKE ANYWHERE FROM 12 TO 24 MONTHS, OR EVEN LONGER FOR A COMPREHENSIVE DOCTORAL THESIS. KEY STAGES LIKE DEVELOPING THE PROTOCOL, EXECUTING COMPLEX SEARCH STRATEGIES, SCREENING THOUSANDS OF STUDIES, AND THE DUAL REVIEW PROCESS ARE TIME-INTENSIVE. EFFECTIVE PLANNING AND CONSISTENT WORK ARE CRUCIAL FOR MANAGING THE TIMELINE EFFECTIVELY.

Q: DO I NEED SPECIALIZED SOFTWARE TO CONDUCT A SYSTEMATIC LITERATURE REVIEW?

A: WHILE YOU DON'T STRICTLY "NEED" SPECIALIZED SOFTWARE FOR EVERY STEP, LEVERAGING TECHNOLOGY SIGNIFICANTLY ENHANCES EFFICIENCY AND ACCURACY. REFERENCE MANAGEMENT SOFTWARE (E.G., ZOTERO, MENDELEY) IS ALMOST ESSENTIAL FOR MANAGING SEARCH RESULTS AND DEPLICATION. SYSTEMATIC REVIEW PLATFORMS (E.G., COVIDENCE, RAYYAN) ARE HIGHLY RECOMMENDED FOR COLLABORATIVE SCREENING AND DATA EXTRACTION. IF YOU PLAN A META-ANALYSIS, STATISTICAL SOFTWARE (E.G., REVMAN, R, STATA) WILL BE NECESSARY. BASIC SPREADSHEET PROGRAMS LIKE EXCEL ARE OFTEN USED FOR DATA EXTRACTION AND BASIC ORGANIZATION. THESE TOOLS STREAMLINE THE SYSTEMATIC REVIEW PROCESS, MAKING IT MORE MANAGEABLE.

Q: WHAT IS THE PRISMA FLOW DIAGRAM AND WHY IS IT IMPORTANT?

A: THE PRISMA (PREFERRED REPORTING ITEMS FOR SYSTEMATIC REVIEWS AND META-ANALYSES) FLOW DIAGRAM IS A STANDARDIZED VISUAL REPRESENTATION THAT MAPS OUT THE NUMBER OF RECORDS IDENTIFIED, INCLUDED, AND EXCLUDED AT EACH STAGE OF A SYSTEMATIC REVIEW. IT'S CRUCIAL BECAUSE IT PROVIDES A TRANSPARENT AND REPRODUCIBLE AUDIT TRAIL OF YOUR STUDY SELECTION PROCESS, FROM INITIAL SEARCH RESULTS TO THE FINAL SET OF INCLUDED STUDIES. THIS TRANSPARENCY ALLOWS READERS TO UNDERSTAND PRECISELY HOW STUDIES WERE SELECTED AND PROVIDES CRITICAL INSIGHT INTO THE RIGOR AND INTEGRITY OF YOUR SYSTEMATIC REVIEW DISSERTATION.

Q: HOW DO I ENSURE MY SYSTEMATIC LITERATURE REVIEW IS UNBIASED?

A: MINIMIZING BIAS IS A CORNERSTONE OF SYSTEMATIC REVIEWS. KEY STRATEGIES INCLUDE:

1. DEVELOPING A DETAILED PROTOCOL BEFORE STARTING THE REVIEW AND ADHERING TO IT.
2. CONDUCTING A COMPREHENSIVE SEARCH ACROSS MULTIPLE DATABASES AND GREY LITERATURE TO AVOID PUBLICATION BIAS.
3. HAVING AT LEAST TWO INDEPENDENT REVIEWERS FOR TITLE/ABSTRACT SCREENING, FULL-TEXT REVIEW, AND DATA EXTRACTION, WITH A ROBUST PROCESS FOR RESOLVING DISCREPANCIES.
4. USING VALIDATED TOOLS FOR ASSESSING THE METHODOLOGICAL QUALITY AND RISK OF BIAS OF INCLUDED STUDIES.

5. TRANSPARENTLY REPORTING ALL METHODS, FINDINGS, AND LIMITATIONS, OFTEN FOLLOWING GUIDELINES LIKE PRISMA.

THESE MEASURES COLLECTIVELY ENHANCE THE OBJECTIVITY AND TRUSTWORTHINESS OF YOUR SYSTEMATIC LITERATURE REVIEW DISSERTATION.

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