Worksheet for building the clinical question and formulating a systematic search for Evidence Synthesis DNP Projects

# Preliminary PICO Question

(P)opulation
(I)ntervention
(C)omparison
(O)
(O)utcome
(T)ime
Defere you having the a systematic review heen done on your tonic?
Before you begin: Has a systematic review been done on your topic? Please provide information on previous searching for systematic reviews on
your topic.
Watch Boxer Library tutorial: How to Find Systematic Reviews
Searched in:
☐ Medline (PubMed OR Ovid)
☐ Cochrane
□ CINAHL
☐ JBI Database
☐ Embase
□ Other:
Terms used to find SR's:

	uthor, title, journal, year, volume, issue and page numbers
Citation 1	
Citation 2	
Citation 3	
	articles you have found so far ons are under investigation?
What is the int medication, fo	rervention (s) and range of intervention (variations in dose or type of example)?
What outcome	e variables are being reported and how ?
·	

If a review has been performed on this topic, is a new review warranted? How is this review different (consider a different population or intervention). If the published review is recent and robust, consider a new topic.

If there are several SR on a single topic, consider an umbrella review. Read more about a <u>meta-synthesis here.</u>

# Detailed PICO(T) Breakdown

#### **Population**

Who is your population of concern? Are age (be specific), gender, nationality, race/ethnicity, occupation, SES, etc. a concern? Be able to justify each of these parameters.

Age:
Gender:
☐ Male
☐ Female
□ Both
Race/Ethnicity:
☐ Any
☐ African American
☐ Hispanic
□ White
☐ Other:
Specific Surgical Population:
Intervention
What intervention are you interested in?
What turned of interventions are found in the literature?
What types of interventions are found in the literature?
Range of values?
Dose? Timing?

Let the literature guide you rather than you prescribing what the outcome will be.
What types of outcomes are reported in studies relevant to the PICO?
How are the outcomes operationalized for the synthesis?

# Build a Robust Search Strategy

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#### Develop your search based on your PICO question components or concepts

Divide your topic into its components and provide synonyms for each of these topics. For example, a research question on the best drug therapy for Lou Gehrig's disease would need to include all of the other terms for the disease e.g.. ALS, Amyotrophic Lateral Sclerosis and so on, as well as all of the various drugs to be studied.

Watch Boxer Library tutorial: From PICO Question to Search Strategy

Synonyms

# Using the Concept Organizer

Now that you have considered all of the possible ways to search for articles on your topic, let's break the question down by "concepts" for each of the components. Use the <u>Concept Organizer</u> worksheet to map out all aspects of the question. This will allow you to "build" a robust and specific search strategy used in the various databases. Identify **MeSH terms** in PubMed using the National Library of Medicine website (https://www.ncbi.nlm.nih.gov/mesh/)

### Determine What You Will Include in Your Review

#### Types of publications to include

What types of articles can be included? Where will you find the BEST evidence to answer

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your question? Check all that apply.	
☐ Original research	
<ul> <li>Peer reviewed research</li> </ul>	
<ul><li>Comment, editorial, letter</li></ul>	
Literature review, Systematic review	
☐ Other:	
Grey Literature	humuhlishad Euspaalas of supulitaristuus
Grey literature are sources that are not traditional include dissertations, conference proceedings, promore. Whether or not you search grey literature, a depend on your topic.	reprints, clinical trials, government reports, and
<ul><li>Conference proceedings/papers</li><li>Dissertations/theses</li></ul>	
□ Preprints	
☐ Government websites	
☐ Professional organization websites	
<ul><li>☐ Clinical trials</li><li>☐ Other:</li></ul>	
☐ Other.	
Languages What languages are you willing to include? Include justification (why will you be limiting to X	language):
Date Range How many years of literature do you want to inclu	de? How many are relevant? Make the case to
limit your search to certain years. Do not decide o	· · · · · · · · · · · · · · · · · · ·
long the treatment or phenomenon has been arou	
☐ All possible years	
☐ Before:	
☐ After:	
☐ Between:	
Include justification for indicated date range:	
Types of studies	
What type of study would best answer the research	•
control, cohort, etc? Refer to the <u>Hierarchy of Evid</u>	
☐ All possible	☐ Follow-up studies
Randomized controlled trial	☐ Cost-benefit analyses
Case-control studies	<ul><li>Consensus Guidelines</li></ul>
Retrospective	<ul><li>Qualitative studies</li></ul>
□ Cohort studies	☐ Follow up studies
$\square$ Longitudinal study	<ul><li>Reviews/meta-analyses</li></ul>

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☐ Prevalence s	tudies	☐ Othei	r:	
☐ Cross-section	nal studies			
Literature Se	earching Log			
Have you done sea Using the plan dete at least two databa articles found in the	rches for studies you would lil rmined by the Search Builder, p ses. "Translate the search" for ese searches actually answer t accelerator.com/) for help tran	orovide informa use in differen he PICO quest	ation on speci It databases. E ion. Use Polyo	Ensure that glot
Searched in:  Medline (Pull Cochrane CINAHL Embase Other:	oMed or Ovid)			
Database/Date	Keywords and MeSH Terms L	Jsed	Filters	Results
Use APA 7 <sup>th</sup> Ed. Sty	of for relevant articles that answer	_	у	,
question, inclusion worksheet, you may	gone through this PICO worksl and exclusion criteria, and sea y have realized that there are s t you had to edit. That is a nor	rch strategy. A ome aspects o	fter going thro of your questio	ough this n, criteria, and
Final PICO Que				

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#### Final Inclusion/Exclusion Criteria

Format as a bulleted list

#### **Final Search Table**

You will create a search table for EACH database you search in.

**Platform (e.g. EBSCO, Proquest, OVID, etc.):** You must include the platform you used to search each database. Platforms may have an effect on the results or searching strategy so they must be accounted for to increase the reproducibility of the search.

#### Database:

**Date Searched:** List the date you performed your search. It is likely that you will run your searches more than once, so it is important to note the date of each re-run of your search. For an example of a completed Search Table, use this link.

Search #	Query List each of your searches. It is helpful to search one concept at a time and then combine them last. This allows you to see what each concept search is returning and to make any changes if need be. You can use line by line searching or block searching.	# of Results
1		
2		
3		
4		
	Filters or Hedges It is a good idea to wait to apply filters (for things like age, location, study type, etc.) until you are finished combining all your concepts together and you are satisfied with the results. It is highly encouraged to use published search filters or create your "filter" as a concept instead of using database filters/limiters due to the limitations of indexing. (See Limiters & Filters page on Boxer Library's Searching Best Practices Guide)	# of Results

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		41		•	

**Date Searched:** 

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# of Results
d se