EvSynth Module Notes

Evidence Synthesis: refers to the process of gathering and analyzing past information for a particular topic, possibly making a decision of some kind

Helps to organize existing info in a useable manner, compare the findings of smaller studies,
 examine different conditions for a result, show a need for future studies, and demonstrate certain
 discrepancies between various articles

Types:

o Narrative Review

- o Analyzes some of literature and provides interpretation based on only expert's knowledge
- o Systemic Review (Rigorous, but Timely and Tenuous) 42 to 58 Weeks
 - Interpret and synthesize existing information, qualitative research, and possibility for future research – answers questions of diagnosis, qualitative, etc.
 - Meta-Analysis: defined by using statistics to gather data from various studies together and create a quantitative summary
 - Scoping Review and Evidence Map give a preliminary view of information and studies existing based on particular question
 - Length of Time: Varies according to the complexity of the study as well as focus given towards it
 - Team: Multiple roles that help with various tasks for the study and can be filled by the same person

Steps:

- o *Prepare Your Topic*: PICO(D) Talk to others to evaluate your question
- Search and Screen: Cast a wide net to find any relevant information Publication Bias
 and Reporting Bias
- o Extract Data: Pull info that will help answer question Chance at finding inconsistencies
- o Analyze and Synthesize: Evaluate the organized the data and make interpretations
- o Report Your Findings: Write a report of the conclusions made and steps taken

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Omega-3 Fatty Acids:

 Systematic Review helped to reveal that taking this product does not actually lead to lower chances of a heart attack

Obesity and C-Sections:

 By combining data from several source, researchers were able to determine the specific value that overweight, obese, and severely obese women would more likely have to undergo a C-Section.

RAS Treatment:

- The lack of evidence supports the conclusion made that more research needs to be done
 on this topic
- o Systematic Review is Wrong:
 - o There's no available research on specific topic
 - o Lack of existing research
 - O Question can't be answered in this manner

If there isn't enough existing information on a topic, it is difficult to produce a comprehensive systematic review. Important to check beforehand.