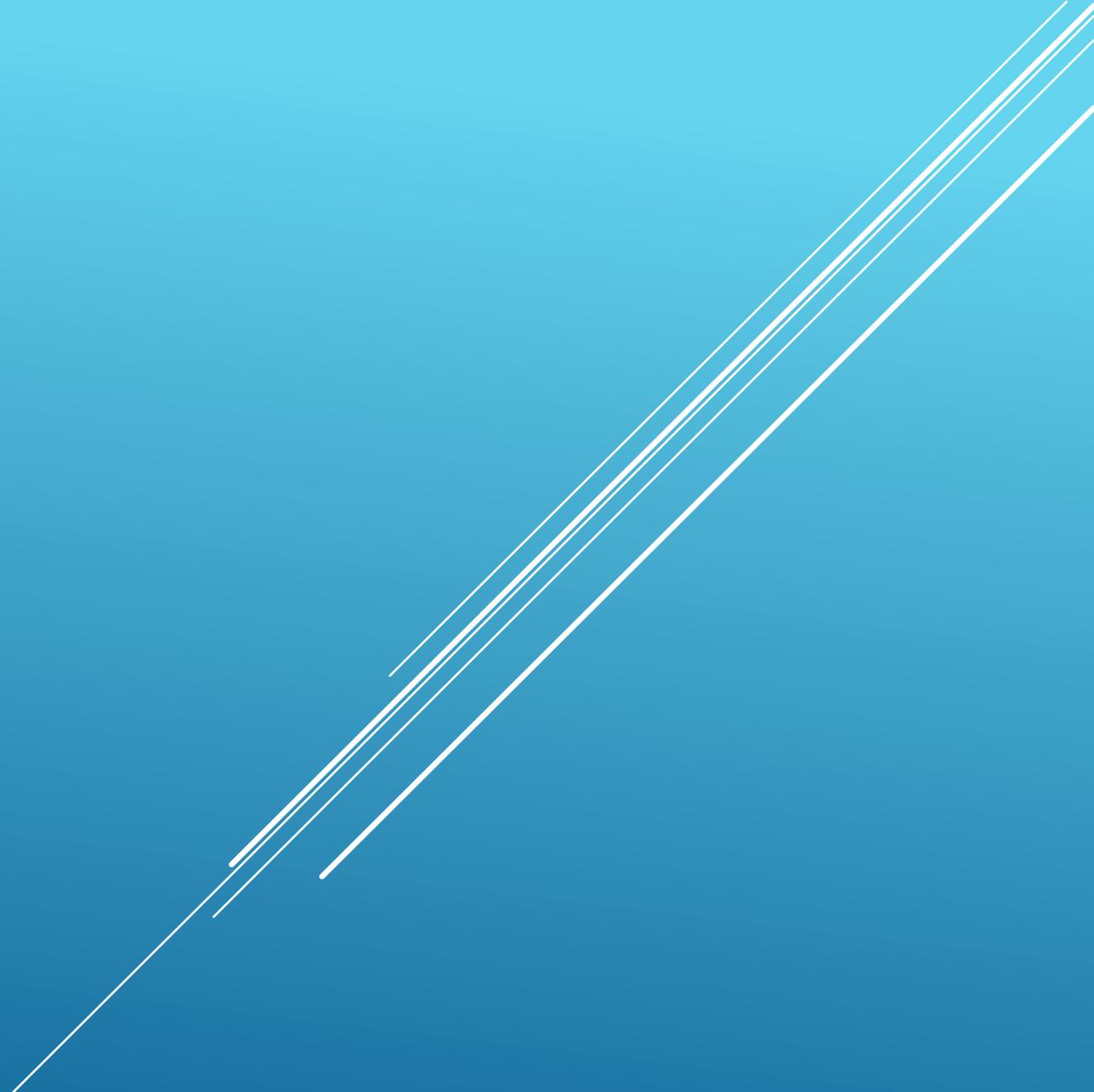


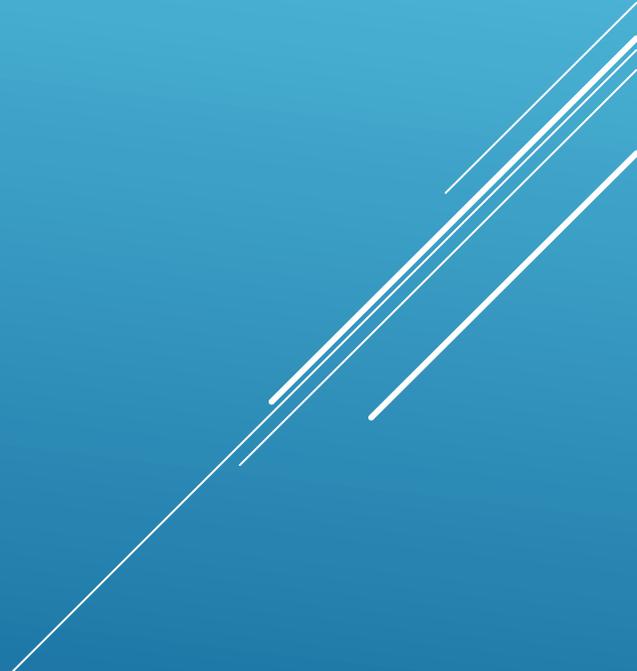
PICO

What do you really want to know?



- ▶ P = Population/problem
 - ▶ I = Intervention/exposure
 - ▶ C = Comparison
 - ▶ O = Outcome
-
- ▶ In this *population*, does the *intervention* compared to the *comparison* improve the *outcome*?

FORMAT



- ▶ In patients with amylogenesis imperfecta does amalgam have greater bond strength than composite?

- ▶ P= patients with AI

- ▶ I = amalgam

- ▶ C = composite

- ▶ O = bond strength

- ▶ Does amalgam have greater bond strength in patients with AI than in patients without AI?

- ▶ P = 'amalgam'

- ▶ I = with AI

- ▶ C = without AI

- ▶ O = bond strength

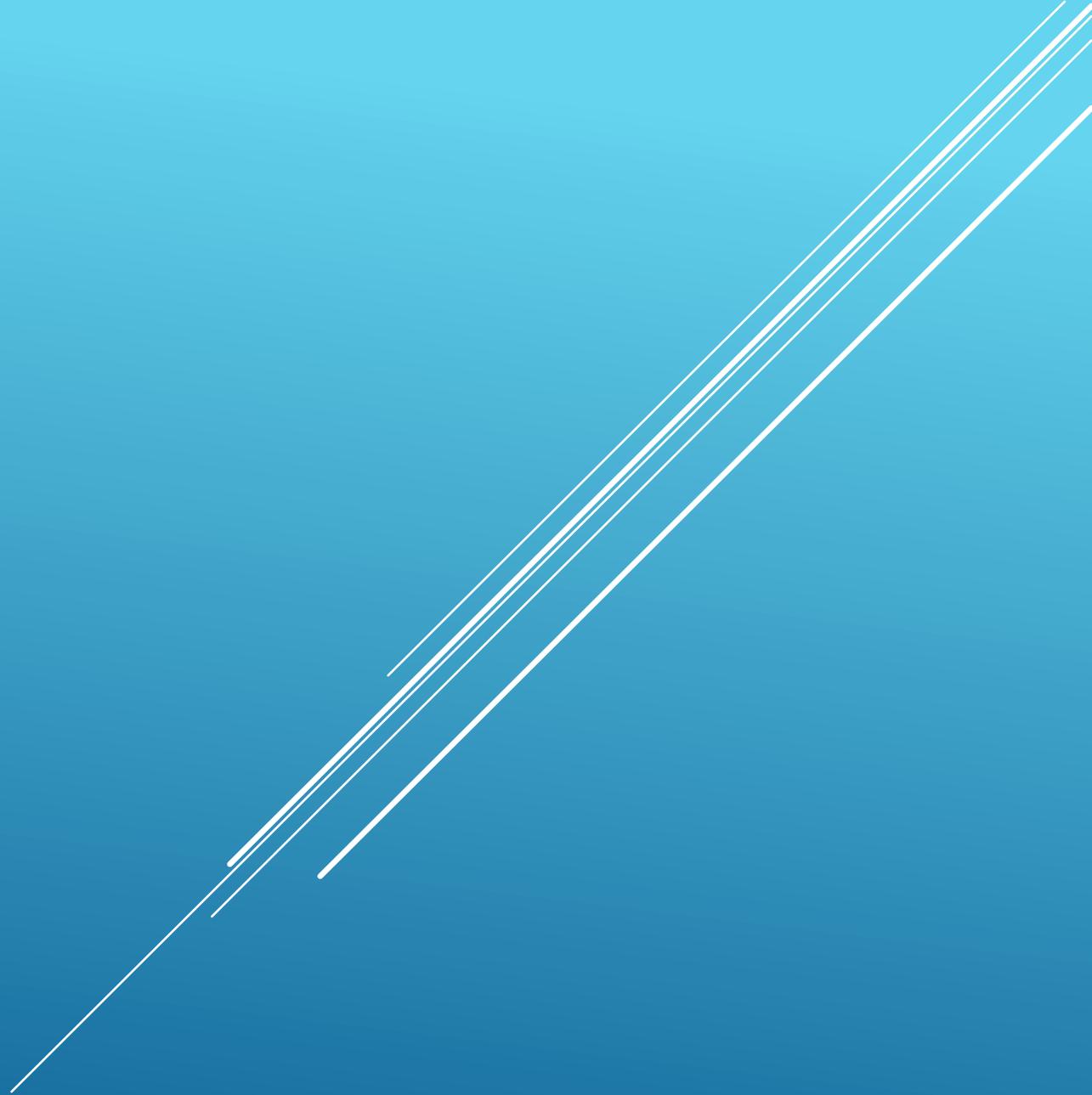
EXAMPLE

PICO Pieces	Intervention/ Therapy (RCT)	Etiology	Diagnosis	Prevention	Prognosis
Population	Yes	Yes	Yes	Yes	Yes
Intervention/ Exposure	Yes	Yes	Yes	Yes	Yes
Comparison	Yes...maybe	No...maybe	Yes...maybe	Yes...maybe	Yes...maybe
Outcome	Yes	Yes	Yes	Yes	Yes

QUESTION TYPE VS. PICO FORMAT

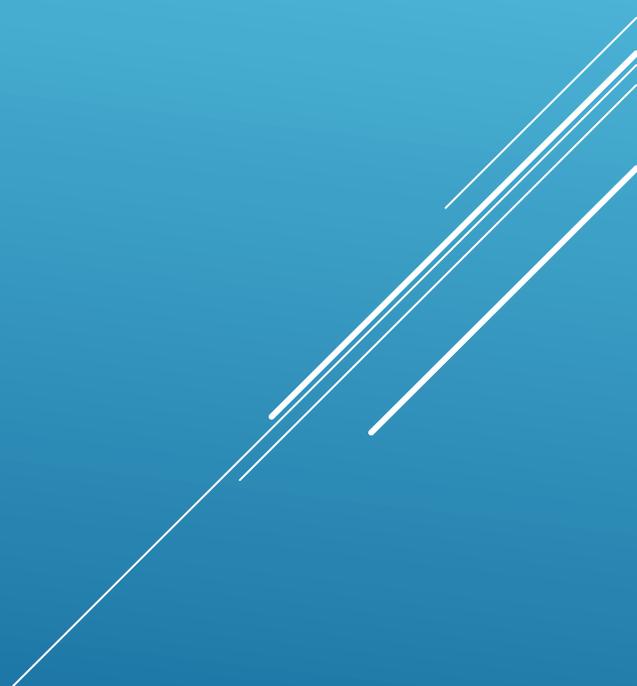
Think design in your research question
 Knowledge base when asking question
 Think knowledge desired/needed

PROBLEMS



- ▶ What is a 'problem'?

PROBLEM IDENTIFICATION



- ▶ Setting: Private practice.
- ▶ Patient: 52 year-old female, 'Jan'.
- ▶ Chief complaint: Jan has been a patient in your practice for over four years. She has had routine 6-month examinations, prophylaxis and scaling, and some restorations placed. Earlier this year, Jan was diagnosed as having multiple sclerosis (MS). Her MS is currently in remission, and her neurologist advised her, as part of her medical treatment, to have her amalgam restorations removed and replaced with a non-amalgam material. The patient states that the neurologist told her that in some patients, removal of amalgam restoration can result in a cure of MS. You have reservations about removing her amalgam restorations because you believe that replacing the restorations will result in weakened tooth structure and a decrease in her oral health.

'PATIENT' PROBLEMS

- ▶ Types of information
 - ▶ Patient specific details
 - ▶ Clinical gaps
 - ▶ Scientific knowledge
 - ▶ Learning issues
- ▶ Patient (*patient care*) hypotheses
- ▶ Facts vs. opinions vs. 'my reality'

WHAT DO YOU NEED TO KNOW TO
MOVE FORWARD WITH THE PATIENT?

- ▶ Setting: Private practice.
- ▶ Patient: 52 year-old female, 'Jan'.
- ▶ Chief complaint: Jan has been a patient in your practice for over four years. She has had routine 6-month examinations, prophylaxis and scaling, and some restorations placed. Earlier this year, Jan was diagnosed as having multiple sclerosis (MS). Her MS is currently in remission, and her neurologist advised her, as part of her medical treatment, to have her amalgam restorations removed and replaced with a non-amalgam material. The patient states that the neurologist told her that in some patients, removal of amalgam restoration can result in a cure of MS. You have reservations about removing her amalgam restorations because you believe that replacing the restorations will result in weakened tooth structure and a decrease in her oral health.

CLINICAL GAPS, LEARNING ISSUES & HYPOTHESIS

- ▶ Patient or problem
- ▶ Intervention/exposure
- ▶ Comparison
- ▶ Outcome

- ▶ Question: In *patient*, does *intervention* compared to *comparison* action the *outcome*?



QUESTION FORMULATION

- ▶ Setting: Private practice.
- ▶ Patient: 52 year-old female, 'Jan'.
- ▶ Chief complaint: Jan has been a patient in your practice for over four years. She has had routine 6-month examinations, prophylaxis and scaling, and some restorations placed. Earlier this year, Jan was diagnosed as having multiple sclerosis (MS). Her MS is currently in remission, and her neurologist advised her, as part of her medical treatment, to have her amalgam restorations removed and replaced with a non-amalgam material. The patient states that the neurologist told her that in some patients, removal of amalgam restoration can result in a cure of MS. You have reservations about removing her amalgam restorations because you believe that replacing the restorations will result in weakened tooth structure and a decrease in her oral health.

'PATIENT' PICO

- ▶ Setting: Private practice.
- ▶ Patient: 44 year-old female, Jeannie.
- ▶ Chief complaint: Jeannie stated, “My gums are pulling away from my teeth in the front and I have an infection.” She requested that no radiographs be made because she is pregnant. Also, she expressed concern that dental treatments might harm the baby.
- ▶ Jeannie appeared obviously distressed from her oral pain, and yet seemed quite anxious about the prospect of any dental treatment. Throughout the appointment, she continued to express concern for her baby.
- ▶ Medical history: Jeannie is in her 3rd trimester, and has 7 weeks remaining before her estimated date of delivery. She is currently taking PrimaCare bid.
- ▶ Jeannie’s height and weight are 5’ 6” and 185#, respectively.

PRESENTING PATIENT

PICO

- ▶ Population
- ▶ Intervention/exposure
- ▶ Comparison
- ▶ Outcome

Search Strategy

- ▶ P – ?
- ▶ I – Always
- ▶ C – ?
- ▶ O – ?

PRACTICE SEARCH

- ▶ <https://pubmed.ncbi.nlm.nih.gov/?otool=uiplib>
- ▶ <https://www.cochranelibrary.com/?contentLanguage=eng>

SEARCHES

QUESTIONS?

