

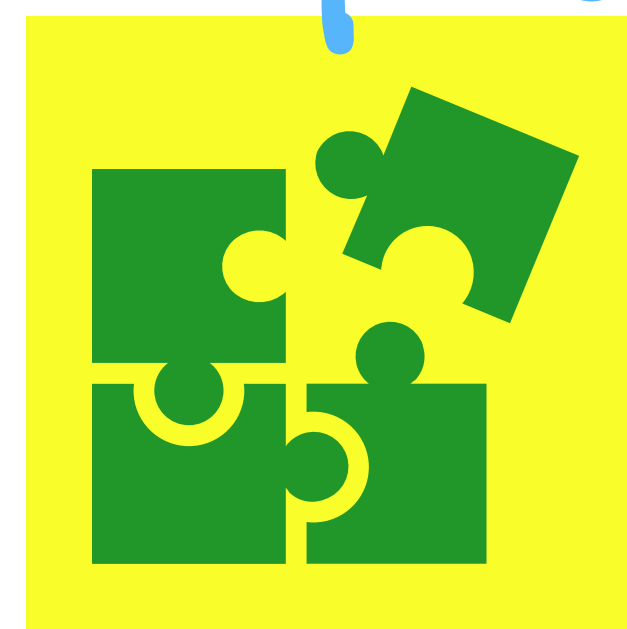
PITFALLS! to avoid when applying the OMERACT Filter to composite instruments



What is the problem?: The process for using the OMERACT Filter for a single-domain is well-defined in the OMERACT Handbook but is less well-defined for a composite.

We identified N=46 studies for the CDAI and several unique PITFALLS! That teams may encounter when evaluating composites

Pitfall #1



Assuming valid components will mean a valid composite

REMEMBER: Current practice is to ensure the complete composite passes the Filter. The components are important, but putting parts of the composite through the Filter is not good enough.

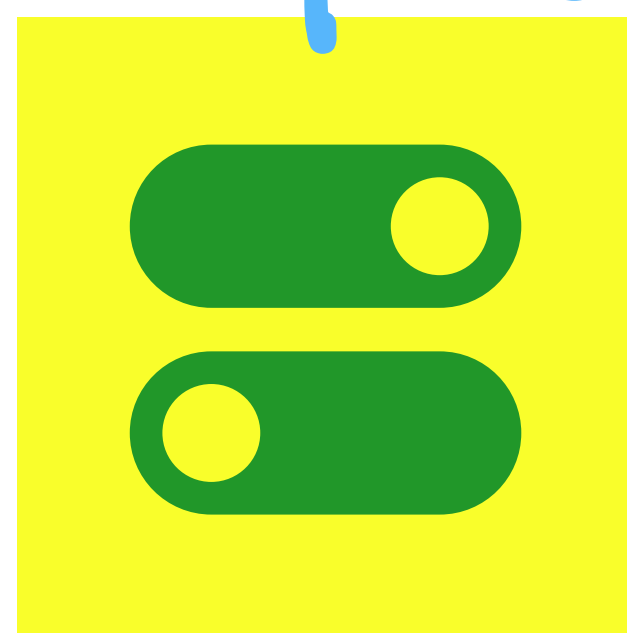
Pitfall #3



Using 'circular' measurement properties or anchors to evaluate a composite

REMEMBER: Composite instruments must be evaluated against measures or anchors that are conceptually aligned but distinct from components of the composite.

Pitfall #2



Changes to one or more components of the composite = different composite?

REMEMBER: You must carefully consider any changes made to the components of the composite instrument and ask yourself – Is this still the same composite?

Pitfall #4



Poor reporting quality reduces the ability of a composite to achieve a full endorsement

REMEMBER: Poor reporting makes it impossible for OMERACT to see the quality of the work done in a study and reduces our ability to achieve a full endorsement (GREEN).

What we did:

- We applied the **OMERACT Filter (Part B)** to demonstrate how a composite could be evaluated.
- We chose to evaluate the **Clinical Disease Activity Index (CDAI)** for **rheumatoid arthritis**.
- We conducted a **systematic review** of the measurement properties of the CDAI as an example.
- We want to better understand the **potential methodological PITFALLS** OMERACT groups may encounter to see where additional guidance is warranted.



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