

Universitätsbibliothek

Literature searching with the Cochrane Library Exercises & solutions

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Exercise 1: PICO



Timon is 10 years old and obese. His doctor wants to prescribe an intervention to stabilize his weight. However, she is not sure which type of intervention is better, one with the child alone (without the parents) or one with the parents alone (without the child).



Exercise 1: PICO



Case study:

Timon is 10 years old and obese. His doctor wants to prescribe an intervention to stabilize his weight. However, she is not sure which type of intervention is better, one with the child alone (without the parents) or one with the parents alone (without the child).

Exercise 1:

What are the PICO concepts of this case and what is the PICO question?

Patient:

Intervention:

Control:

Outcome:

PICO Question:

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Exercise 1: Solution



Patient/Population: Overweight, obese children Intervention: Parent-only interventions Control: Child-only interventions Outcome: Stabilize the weight



Research question designed with PICO:

In overweight or obese children, are parent-only or child-only interventions more effective to stabilize the weight?

Exercise 2: Text words



In overweight or obese children, are parent-only or child-only interventions more effective to stabilize the weight?

Task:

Find appropriate text words for each PICO aspect. Use Boolean and proximity operators to connect the text words within a PICO aspect. Also use truncation.



Exercise 2: Proposed solution



Patient	Pediatric obesity, paediatric obesity, Childhood Overweight, Childhood Obesity, Child Obesity. <i>Advanced</i> : (p?ediatric OR child* OR kid OR kids) NEAR/3 (overweight OR obese OR obesity OR adipose OR adiposity)
Intervention	Parent-only, Parent-focused, Phrases like: interventions focusing on parents only. <i>Advanced:</i> (parent? OR mother? OR father? OR caretaker?) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR directed)
Control	(child* OR kid OR kids OR boy? OR girl? OR schoolchild*) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR directed)
Outcome	(reduce OR reduction OR stabili?e OR stabili?ation OR control* OR manage*) NEAR/3 (weight OR BMI OR 'body mass index' OR (body NEXT fat))

Exercise 3: MeSH terms



In overweight or obese children, are parent-only or child-only interventions more effective to stabilize the weight?

Task:

Find MeSH terms matching the PICO aspects (via Medical terms or search manager) and search for them (add to search manager).



Exercise 3: Proposed solution



"Pediatric Obesity" "Parents" "Child" (not exploded) "Body Weight"



MeSH descriptor: [Pediatric Obesity] explode all trees

MeSH descriptor: [Parents] explode all trees

MeSH descriptor: [Child] this term only

MeSH descriptor: [Body Weight] explode all trees

Exercise 4: Combinations



In overweight or obese children, are parent-only or child-only interventions more effective to stabilize the weight?

Task:

Now combine the MeSH search with the text word search. Use the Search Manager for this. Individual lines can be combined with # and the line number.



Exercise 4: Proposed solution (search manager)

#1	((p?ediatric OR child* OR kid OR kids) NEAR/3 (overweight OR obese OR obesity OR adipose OR adiposity)):ti,ab,kw						4759
#2	((parent? OR mother? OR father? OR caretaker?) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR						1893
#3	((child* OR kid OR kids OR boy? OR girl? OR schoolchild*) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR						3688
#4	((reduce OR reduction OR stabili?e OR stabili?ation OR control* OR manage*) NEAR/3 (weight OR BMI OR 'body mass index' OR (body NEXT						37758
#5	#1 AND #2 AND #3 AND #4		Result of the text- only word search			Limits	- 11
#6	MeSH descriptor: [Pediatric Obesity] explode all trees		Jilly word Sed			MeSH 🔻	1402
#7	MeSH descriptor: [Parents] explode all trees					MeSH 🔻	5568
#8	MeSH descriptor: [Child] this term only					MeSH ▼	51790
#9	MeSH descriptor: [Body Weight] explode all trees	Result of the MeSH-				MeSH 🔻	30081
#10	#6 AND #7 AND #8 AND #9	only sear	rch			Limits	126
#11	(#1 OR #6) AND (#2 OR #7) AND (#3 OR #8) AND (#4 OR #9)					Limits	258
			the combine word search	d MeSH			

Exercise 4: Proposed solution (search manager) «Single Line Search» (very advanced)

 #12
 ([mh "Pediatric Obesity"] OR ((p?ediatric OR child* OR kid OR kids) NEAR/3 (overweight OR obese OR obesity OR adipose OR adiposity)):ti,ab,kw)
 Limits
 258

 AND ([mh "Parents"] OR ((parent? OR mother? OR father? OR caretaker?) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR directed)):ti,ab,kw) AND ([mh ^"Child"] OR ((child* OR kid OR kids OR boy? OR girl? OR schoolchild*) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR directed)):ti,ab,kw) AND ([mh "Body Weight"] OR ((reduce OR reduction OR stabili?e OR stabili?et OR stabili?ation OR control* OR manage*) NEAR/3 (weight OR BMI OR 'body mass index' OR (body NEXT fat))):ti,ab,kw)
 Limits
 258

([mh "Pediatric Obesity"] OR ((p?ediatric OR child* OR kid OR kids) NEAR/3 (overweight OR obese OR obesity OR adipose OR adiposity)):ti,ab,kw) AND ([mh "Parents"] OR ((parent? OR mother? OR father? OR caretaker?) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR directed)):ti,ab,kw) AND ([mh ^"Child"] OR ((child* OR kid OR kids OR boy? OR girl? OR schoolchild*) NEAR/2 (only OR focus* OR centered OR centred OR just OR alone OR based OR directed)):ti,ab,kw) AND ([mh "Body Weight"] OR ((reduce OR reduction OR stabili?e OR stabili?ation OR control* OR manage*) NEAR/3 (weight OR BMI OR 'body mass index' OR (body NEXT fat))):ti,ab,kw

Note: In systematic reviews, the aim is to find all potentially relevant references, hence the search is as sensitive as possible. Therefore, one would usually not search all PICO aspects, as not all PICO aspects can be clearly formulated or are reported in the title/abstract/keywords/subject headings of a reference.