Health Research the PICO Way

- P: Problem or Patient or Population (a condition of interest)
- I: Intervention (e.g. a treatment, procedure, diagnostic test, drug therapy, monitoring)
- **C**: **Comparison** (e.g. another intervention may be "nothing" or a placebo or specific treatment)
- **O: Outcome** (could be positive, e.g. improvement of condition/disease/patient, or negative, e.g. adverse effects from treatment or therapy)

Example: Complementary medicine is more and more frequently being incorporated into "standard" treatment protocols. You've heard that your local hospital and several long term care facilities near you are "employing" service animals and/or allowing patients to be visited by "pets" (e.g. birds, dogs, cats) during the course of their inpatient treatment. You can think of several pros and cons related to this idea and want to find some evidence-based medical literature that shows why some facilities have added this type of therapy. You want to know if hospital patients benefit from animal-assisted therapy.

PICO question: Do <u>inpatients</u> (P) <u>exposed to therapeutic animals</u> (pets) (I) experience decreased <u>psychosocial</u> <u>and physical adverse effects</u> of hospitalization (O) than inpatients not exposed to pets (C)?

Possible CINAHL search strategy:

((MH "Pet Therapy") OR (MH "Service Animals")) AND (MH "Inpatients") AND (benefit* OR benefic*))

Limited to: English Language; Peer Reviewed; Publication Type: Research



Sample search form based on the PICO model. The major areas are modeled not only after PICO but also are crafted to resemble the refinements available in CINAHL (CINAHL headings, subheadings and limits) or other Medical databases with controlled vocabulary like PubMed and Medline.

Ref. No Name:	Date	
Department:	Deadlin	ne for completion of search:
Contact: Extens	ion Bleep	Ticket number
University stair (a)/Postgraduate reso	earch (b)/Postgraduate course (c)/G	P (d)/NHS (e)/Other user (t)
In your own words, please state the	nformation you are seeking	
Please structure your query under the	e following headings:	
Patients or Condition: About the patient/population:		
Male ☐ Female ☐ Both	П	
All ages □		
Age group:		
Newborn (up to 1 month) ☐ Child (6–12 years) ☐ Middle aged (45–64 years) ☐	Infant (1-23 months) ☐ Adolescent (13-18 years) ☐	Pre-school (2-5 years)
Child (6–12 years) □	Adolescent (13–18 years)	Adult (19-44 years)
Middle aged (45–64 years) □	Elderly (65-79 years) □	Aged (80 years and over)
About the condition:	The state of the s	10 13
Intervention (form of treatment, dia Therapy:	agnostic test) or Exposure (risk facto	ors, lifestyle):
Diet 🗆	Drugs 🗆	Perchalogical □
Radiotherapy	Rehabilitation	Psychological □ Surgery □
Transplantation	All therapies □	Preventative
Other (please specify):		Treventative 🗆
Health care delivery:		
Economics	Education	Legislation
Manpower	Trends	Standards □
Use of services □ Other (please specify):	Organization of services	
Other (please specify):		
Nursing: Diagnostic technique (please specify	λ.	
Outcome: Please specify the outcom	ne(s) that you are particularly inter-	ante d !
Positive outcomes (improvement in	health prevention of illness atc)	ested in:
	nement prevention of finess etc.	
Negative outcomes (adverse effects,	side effects, etc.):	
Comparison: Do you wish to compa	are this intervention with:	
No intervention [Placebo studies	Other interventions (please specify):
Do you wish to restrict your search	to:	
Articles of a particular type (e.g., re	views, meta-analyses, clinical resea	rch, randomized control trials)
Language English only Year of publication	Other (please specify):	A CONTRACTOR OF THE PARTY OF TH
	Out ()	THE RESERVE TO SHARE THE PARTY OF THE PARTY
I to the second second	Other (please specify):	
Only items held in this library: Yes	lo []	
(For librarian use) MeSH terms to be	□ No □	
	searched:	

Evidence-Based Practice an Interprofessional Tutorial

< https://www.lib.umn.edu/apps/instruction/ebp/>

An evidence-based practice tutorial from the University Of Minnesota Health Sciences Libraries. <u>Step 1</u> contains excellent examples of formulating PICO questions.