



Evidence-based practice instruction by faculty members and librarians in North American optometry and ophthalmology programs

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APPENDIX A

Evidence-based clinical practice instruction in optometry and ophthalmology programs survey

Welcome and thank you in advance for completing the survey.

As indicated by the email information letter, the researchers who created this survey are interested in how you teach evidence-based clinical practice (EBCP). The term EBCP will be used in this survey to denote all variations in terminology used by different health care professions including evidence-based medicine (EBM), evidence-based practice (EBP), evidence-informed practice (EIP). The definition of EBCP we will use is the standard EBM definition:

"the conscientious, explicit and judicious use of current best evidence in making decisions about the care of individual patients. The practice of evidence-based medicine requires the integration of individual clinical expertise with the best available external clinical evidence from systematic research and our patient's unique values and circumstances."

Source: Straus SE, Richardson WS, Glasziou P, Haynes RB. Evidence-based medicine: how to practice and teach EBM. 3rd ed. Edinburgh, Scotland, UK: Elsevier Churchhill Livingstone; 2005.

The five steps of EBCP are:

- Step 1: Ask: converting the need for information into an answerable question
- Step 2: Acquire: finding the best evidence with which to answer the question
- Step 3: Appraise: critically appraising the evidence for validity, impact, and applicability
- Step 4: Apply: integrating the critically appraised evidence with clinical expertise and patient values, etc.
- Step 5: Assess: evaluating our own effectiveness

Source: Straus SE, Richardson WS, Glasziou P, Haynes RB. Evidence-based medicine: how to practice and teach EBM. 3rd ed. Edinburgh, Scotland, UK: Elsevier Churchhill Livingstone; 2005.

Prasad K. Fundamentals of evidence-based medicine: basic concepts in easy language. New Delhi, India: Meeta Publishers; 2007.





Part A: Background information

1.	What is y	our educational background? (check as a many	zas apply)

Master of library and information science, master of information science, master of	
library science	
Library technician	
Optometrist	
PhD	
Family physician	
Specialist physician (e.g., ophthalmologist)	
Resident (family medicine or specialty training)	
Graduate student (master or PhD)	
Other	

If other, please describe...

SKIP LOGIC: Depending on the response to the answer of question 1, the respondent will be taken to one of two surveys that ask the same questions but may have been slightly adapted to suit the language or roles of one of two groups: librarians or faculty/staff.

Faculty/staff version – see below

Faculty version

About you

2. In what kind of program do you teach?

Optometry	
Ophthalmology	
Other (e.g., medical undergraduate)	

3.	How long have you been teaching as a faculty member/lecturer/clinical supervisor/other?
	years
If (other, please describe





About your academic institution

4. Which one of the following describes your program?	
An professional program within a university or college	
A standalone educational institution	
Other	
If other, please describe	
About your library	
5. How would you best describe your library? [check one box only]	
Discipline/department specific library (e.g., optometry only)	
Multidisciplinary health sciences library	
Multidisciplinary science library	
General academic library	
Other	
If other please describe	
 6. Approximately how many professional students are involved within your progrant number of students 7. Are you involved in clinical patient care? Yes No 	m?
8. What is your educational background with respect to learning the process of EBC all that apply]?	P [check
It was part of my professional training program	
I have taken courses on EBCP as part of a postgraduate degree	
I have taken a course or courses in the area outside of a degree program for	
personal/professional development	
Self-directed learning None	
Other	
If other, please describe	
in outer, prease describe	
9. Do you teach <i>any of the steps</i> of the EBCP process? Yes No	
If <i>Yes</i> continue to question #10 (below) and complete sections B, C, D, E, F If <i>No</i> please go to <i>page</i> # 9 and complete sections G and H	





Part B: Teaching evidence-based clinical practice (EBCP)

10. Which aspects of the EBCP process do you teach? [check all that apply]

Step 1: Ask: converting the need for information into an answerable question	
Step 2: Acquire: finding the best evidence with which to answer the question	
Step 3: Appraise: critically appraising the evidence for validity, impact and	
applicability	
Step 4: Apply: integrating the critically appraised evidence with clinical expertise	
and patient values etc.	
Step 5: Assess: evaluating your own effectiveness	
Other	

If other, please describe...

11. How often do you teach EBCP to the following learners? [check all that apply]

	Frequently	Occasionally	Rarely	Never
Optometry students				
Medical students (pregraduate learners)				
Ophthalmology residents				
Other medical residents and fellows				
Graduate students (master and PhD level)				
Faculty members				
Continuing education participants				
Other				

If other, please list...

Part C: How and where you teach EBCP

12. Indicate the frequency that you use the following formats to teach EBCP.

	Frequently	Occasionally	Rarely	Never
As part of a course (face-to-face or online)				
A workshop not linked to a specific course but				
linked to a program (e.g., milestone for				
program requirement)				
Via an independent workshop that students				
voluntarily take with no credit/requirement				
attached				
One-on-one instruction/consultation				
Continuing education course				
Other				





13. In total, how many hours do you spend teaching EBCP in a year?

10. In total, now many nous do you spend tedering 2201 in a year.	
Less than 2 hours	
2–5 hours	
6–10 hours	
11–15 hours	
16–20 hours	
21+ hours	
Other	

If other, please describe...

14. How often do you teach EBCP in the following settings?

	Frequently	Occasionally	Rarely	Never
Large lecture hall/large classroom (>100 seats)				
Small classroom (30–100 seats)				
Seminar room (1–29 seats)				
Computer lab				
Office consultation				
Virtual (web-based/online/remote/course				
management software)				
Clinical setting				
Other				

If other, please list...

15. How often do you use the following instructional methods when teaching EBCP?

	Frequently	Occasionally	Rarely	Never
Lecture				
Small group problem-based learning				
Small group case-based learning				
Discussion within in lecture				
Case discussion (e.g., grand rounds)				
Journal club				
Live demonstration of tools, resources,				
processes				
Interactive session (e.g., clickers, think-pair-				
share)				
Practical sessions: hands-on computer lab				
exercises				
Tutorials, handouts, and guides (print or				
electronic)				





Individualized instruction		
Formal mentor/coach/preceptor built into		
program		
During the course of clinical care in clinical		
setting		
Other		

If other, please describe...

16. How often do you use *live* web-based instructional tools when teaching EBCP?

-	Frequently	Occasionally	Rarely	Never
Webinar/videoconferencing				
Chat				
Smartboards				
Other				

If other, please describe...

17. How often do you use any time web-based instructional tools when teaching EBCP?

	Frequently	Occasionally	Rarely	Never
Online tutorials/modules				
Discussion boards				
Course management software (e.g., Angel,				
WebCT, BlackBoard)				
Email or email discussion lists				
Streaming video or screencasts				
Other				

If other, please describe...

18. Have you created any teaching aids or tools to assist in the teaching of EBCP? [check all that apply]

Question development worksheets	
Search strategy worksheets	
Critical appraisal worksheets	
EBCP resource lists	
EBCP subject guides	
Other	

If other, please describe...

19. What are your preferred reference sources or textbooks?





Part D: Instructional collaboration

20. How often are the following individuals involved with you in teaching EBCP?

	01100111111	2 61 221 00010212213		
	Frequently	Occasionally	Rarely	Never
Faculty member(s)				
Librarian(s)				
Someone other than a faculty member or a				
librarian				

If someone other than a faculty member or a librarian, please describe...

21.	Identify an	y campus	support ser	rvices you	ı have a	accessed	to help	your	course	develop	ment
in t	the teaching	of EBCP.	[check all tl	hat apply]]						

Teaching Support Centre	
Instructional Technologies Support Centre	
Other	

If other, please describe...

22. How often do you engage with librarian(s) with respect to teaching EBCP?

	Frequently	Occasionally	Rarely	Never
You co-teach in classrooms or computer labs				
You discuss course structure, formats,				
approaches, and content (assignments, etc.)				
with librarian(s) outside of class				
You request librarian(s) to teach specific				
sessions on specific topics and are not present				
in class				
You teach together in the clinical setting				
Other				

If other, please describe...

23. Do you have any additional comments on engaging with librarians with respect to teaching EBCP?





Part E: Assessment

24. How often do you use the following strategies to assess student learning with respect to EBCP?

	Frequently	Occasionally	Rarely	Never
Critically appraised topic (CAT) reports			•	
Case study reports (e.g., grand rounds,				
journal club)				
Library research assignments involving self-				
evaluation of research process and skills				
Questions on final examinations (multiple				
choice/short answer/essay)				
Quizzes				
EBCP worksheets				
Critical appraisal exercises				
Part of clinical examinations (e.g., one task in				
a 10-step clinical exam—involves being				
marked on the search and appraisal done to				
make a clinical decision with respect to a case				
of a standardized patient)				
Questionnaire on clinical				
behaviours/attitudes				
Portfolios				
Observation of clinical practices				
Other				

If other, please describe...

Part F: School/program support for EBCP

25. Please indicate your degree of agreement or disagreement with the following:

	Strongly		Somewhat	Somewhat		Strongly	Don't
	agree	Agree	agree	disagree	Disagree	disagree	know
EBCP is formally					_		
integrated into the							
mission statements, goals,							
and objectives of the							
program.							
EBCP is formally							
integrated into the							
curriculum as a milestone							
or some other graduation							
requirement.							





			ı	
EBCP is formally part of				
the learning objectives of				
one or more courses.				
EBCP is informally taught				
in one or more courses				
but at the discretion of				
faculty (i.e., it is not				
formally mandated and				
therefore can be removed				
from course).				
EBCP is formally				
integrated into the				
learning objectives of				
clinics and taught by				
clinical supervisors				
during clinical				
interactions with				
students.				
EBCP is taught by clinical				
supervisors, at their own				
discretion, during clinical				
interactions with				
students.				
EBCP is taught in the	 	 		
library during				
reference/consultation				
sessions.				

If none of the above apply, please comment...

Thank you for completing the survey.

Please click the Finish button to submit the survey.

Part G: For those who answered *no* to the question #10 (whether or not they taught any part of the EBCP process)

1.	If you do n	ot teach any part of the EBCP process, do you teach students another approach t	O
fin	ding and/o	using research to support their clinical decision making?	
Yes	S	No	

2. What do you teach?





3. How often do you teach this approach to the following learners? [check all that apply]

	Frequently	Occasionally	Rarely	Never
Optometry students				
Medical students (pregraduate learners)				
Ophthalmology residents				
Other medical residents and fellows				
Graduate students (master & PhD level)				
Faculty members				
Continuing education participants				
Other				

If other, please describe...

Part H: How and where you teach

4. Indicate the frequency that you use the following formats to teach this approach.

	Frequently	Occasionally	Rarely	Never
As part of a course (face-to-face or online)				
A workshop not linked to a specific course				
but linked to a program (e.g., milestone for				
program requirement)				
Via an independent workshop that students				
voluntarily take with no credit/requirement				
attached				
One-on-one instruction/consultation				
Continuing education course				
Other				

If other, please describe...

5. In total, how many hours do you spend teaching this approach per year?

Less than 2 hours	
2–5 hours	
6–10 hours	
11–15 hours	
16–20 hours	
21+ hours	
Other	





6. How often do you teach in the following settings when teaching this approach?

commendation of the second of	Frequently	Occasionally	Rarely	Never
Large lecture hall/large classroom (>100 seats)			•	
Small classroom (30–100 seats)				
Seminar room (1–29 seats)				
Computer lab				
Office consultation				
Virtual (web-based/online/remote/course				
management software)				
Clinical setting				
Other				

If other, please list...

7. How often do you use the following instructional methods when teaching this approach?

	Frequently	Occasionally	Rarely	Never
Lecture			_	
Small group problem-based learning				
Small group case-based learning				
Discussion within in lecture				
Case discussion (e.g., grand rounds)				
Journal club				
Live demonstration of tools, resources,				
processes				
Interactive session (e.g., clickers, think-pair-				
share)				
Practical sessions: hands-on computer lab				
exercises				
Tutorials, handouts, and guides (print or				
electronic)				
Individualized instruction				
Formal mentor/coach/preceptor built into				
program				
During the course of clinical care in clinical				
setting				
Other				





8. How often do you use live web-based instructional tools when teaching this approach?

	Frequently	Occasionally	Rarely	Never
Webinar/videoconferencing				
Chat				
Smartboards				
Other				

If other, please describe...

9. How often do you use any time web-based instructional tools when teaching this approach?

	Frequently	Occasionally	Rarely	Never
Online tutorials				
Discussion boards				
Course management software (e.g., Angel,				
WebCT, BlackBoard)				
Email or email discussion lists				
Streaming video or screencasts				
Other				

If other, please describe...

Thank you for completing the survey.

Please click the Finish button to submit your survey results.