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Medical Student Attitudes and Perceptions After Implementation of a Clerkship Evidence-Based Medicine Curriculum

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**Results:** As our study is ongoing, there are no results as of yet. However, we do anticipate having preliminary results in time for presentation at CORD.

**Conclusion:** We expect that massage therapy will have a positive impact by decreasing burnout rates. Since there is little research regarding the impact of wellness interventions on EM residents, we hope that our work inspires more of this research and that it motivates other programs to institute similar wellness programs for their residents.

## 42 Medical Student Attitudes and Perceptions After Implementation of a Clerkship Evidence-Based Medicine Curriculum

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**Background:** The Association of American Medical Colleges (AAMC) identifies incorporating evidence-based medicine (EBM) principles as a core entrustable professional activity for entering residency. In response to this direction, teaching of EBM has been integrated into undergraduate medical curriculum extensively, including the pre-clinical and clinical years. Studies assessing these curricula using validated tools have shown them to increase knowledge and improve critical appraisal skills. However, the majority of studies have focused on the effectiveness of teaching EBM to students in terms of knowledge and technical skills. An important potential barrier to the adoption of EBM includes attitudinal, perceptual and behavioral factors.

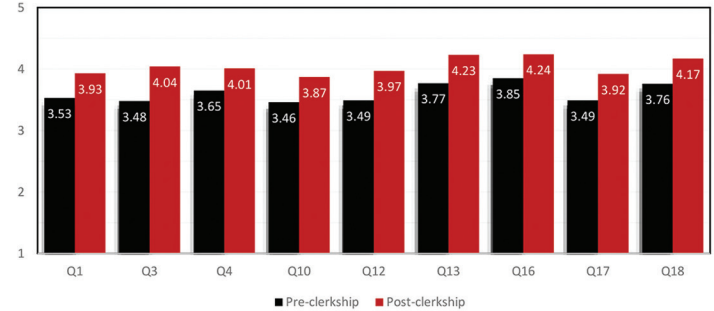
**Objective:** The overall aim of this study was to identify medical student perceptions on evidence based medicine prior to and after completing a structured EBM training program.

**Methods:** A structured “journal-club” style EBM training program in which students met weekly to critically appraise clinical articles was introduced into the curriculum of the fourth year emergency medicine clerkship for academic year 2018-2019. We developed a two part evaluation plan that included a 18 item voluntary survey questionnaire, administered pre- and post-clerkship, designed to evaluate attitudes and perceptions of medical students on the value of and barriers to an integrated EBM curriculum. Questions were taken from prior surveys studying EBM in medical trainees. Responses were anonymous and collected on a 5 point Likert scale. Data was analyzed using the Mann-Whitney U test.

**Results:** A total of 178 pre- and 144 post-clerkship responses were received. General attitudes towards EBM and the teaching intervention were positive. The intervention was associated with an increase in students’ self-assessed skills and attitudes of all items and nine items were statistically significant ( $p < 0.05$ , Figure 1).

**Conclusion:** Structured integration of EBM into the fourth year emergency medicine clerkship had a positive impact on student attitudes and perceptions, increasing interest in the topic

and confidence in EBM skills.



**Figure 1.** Statistically Significant Pre-Post Survey Questionnaire Responses.

**Table 1.** Pre- and Post- clerkship Survey Questionnaire.

Question Number	Item statement/question
1	I have the basic skills in appraising the medical literature
2	I know how to use information technology to access online medical literature.
3	I know how to apply what I find in the general medical literature to a specific patient
4	I use the medical literature to answer clinical questions
5	Journal club will change the way I manage patients
6	Journal club will help me feel up to date with the important literature
7	Journal club will increase my confidence when evaluating the medical literature
8	Journal club will increase my general medical knowledge
9	Journal club will increase my understanding of biostatistics
10	Attending journal club will motivate me to read more medical literature
11	The critical appraisal worksheet was useful
12	I was interested in the topic chosen for this journal club
13	Journal club is an improvement over just reading the articles myself
14	I read journal club articles prior to attending the meeting
15	Journal club is a good use of my time
16	Journal club should have attending physician involvement
17	Journal club will increase my sense of independence as a student
18	I think journal club should be implemented as a regular feature into the medical student curriculum

## 43 Qualitative Analysis of Emergency Medicine Resident Logged Patient Safety Observations

*Kane B, Raso J, Richardson D, Daubert J, Khan R, Paulson C, Yenser D, Weaver K / Lehigh Valley Health Network, University of South Florida Morsani College of Medicine*

**Background:** The Accreditation Council for Graduate Medical Education (ACGME) requires residencies to universally involve trainees in quality improvement (QI) and