

Cultivating Physician Scientists by Combining of “Clinical-based PBL EBM Learning” and “Minions Systematic Review Training Camp” Programs

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Abstract

Background: To promote evidence-based practice by junior physicians are still difficult. The reason of failure to implement evidence-based medicine (EBM) clinically is because most of the physicians are only familiar in acquiring and critical appraisal of literatures, but no way to implement the evidence clinically. The training of effectively asking clinical questions, searching for and critical appraisal of literatures, conducting systematic reviews, and implementing the evidences in clinical practice, is the important process to promote evidence-based health care and to cultivate more physician scientist.

Objectives: Cultivating of physician scientists by combining of “Clinical-based Problem-based learning (PBL) EBM learning” and “Minions systematic review training camp” programs.

Methods: During the surgical practice in hospital, grade fifth and sixth medical students will participate in a “Clinical-based PBL EBM learning” program. Through a clinical-based PBL and EBM training, students will increase their evidence-based technique. Once a clinical issue has been brought to attention, we will arrange a “Minions systematic review training camp”, medical students will learn and conduct a systematic review for this issue by intensive training, and apply the evidence in clinical practice.

Results: We combined and implemented “Clinical-based PBL EBM learning” and “Minions systematic review training camp” training programs for 1 year. The evidence-based techniques of the medical students were improved, we also successfully published a meta-analysis in SCI biomedical journal. We provided these results to our Department of Gastroenterology, and efficiently changed the therapeutic strategy of *Helicobacter pylori* eradication in patients with peptic ulcer.

Conclusion: Combined clinical-based problem-based and EBM learning, medical students are more interested to conduct a systematic review and implement these results in clinical practice. The training program will cultivate more and more physician scientists in the future.