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## **Research Article**



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# Do practicing primary care physicians believe more complementary and alternative medicine (CAM) training in medical school and residency would have been useful in their current practice?

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#### Abstract

There have been multiple studies performed on attitudes and use of CAM treatments among students, residents, and practicing physicians [1-6]. Attitude towards CAM treatment and education, however, is not the same as utility Therefore, this article reviews the result of a survey that not only looked at the attitudes and use of CAM by practicing physicians, but looked at whether they thought CAM education would have been useful retrospectively in their medical school and residency training.

The results of the survey showed that CAM education during medical school and residency was uncommon among academic primary care attending physicians and most also lacked comfort counseling about CAM treatment and referring patients for CAM therapy. Despite the minimal CAM education in medical school and residency training, the majority of physicians (62%) felt that CAM education during both medical school and residency would have been helpful in his or her current practice. Therefore, exposing doctors or doctors-in-training to evidence-based information regarding CAM might improve overall clinical care and integration. Future studies are needed to determine if CAM education in medical school or residency training improves physician comfort with CAM therapy counseling and referrals or if it leads to better patient satisfaction or clinical care.

#### Introduction

There have been multiple studies performed on attitudes and use of CAM treatments among students, residents, and practicing physicians [1-6]. For example, a survey was performed at Mayo Clinic that looked at physicians attitudes (positive/negative) toward CAM in general and their knowledge regarding specific CAM therapies [2]. Surveys have also been performed to determine the desire medical students and residents have to learn about CAM [3,7,8]. Medical students have also reported the least amount of education about CAM and viewed CAM therapies as less useful than non-physician health profession students [7,8]. CAM education, when incorporated, has often been generally well received in medical school curriculum [3,9].

Attitude towards CAM treatment and education, however, is not the same as utility. In fact, studies have shown that educational exposure to CAM was correlated with attitude towards and the perceived usefulness of CAM [7]. In one study, as high as 90% of medical students see the need for the integration of CAM into patient care [10]. Unfortunately, medical students and residents perceptions of what is useful for their future practice may not be accurate. Therefore, we created a survey that not only looked at the attitudes and use of CAM by practicing physicians, but looked at whether they thought CAM education would have been useful retrospectively in their medical school and residency training.

### Methods

The survey was sent via email and completed by practicing physicians at an academic center (Penn State) in the departments of Family Medicine, Medicine, and Med-Peds. Thirty-four total responses were obtained. Fourty-one percent of the total responses were from Internal Medicine, thirty-one percent from Med-Peds, and twenty-eight percent from Family Medicine (Figure 1). The following questions were asked in the survey and ranked on a likert scale from 0-10:

What is your specialty?

How much exposure did you have to complementary and alternative medicine (CAM) during residency and medical school training?

How would you rate your knowledge of CAM treatments?

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Figure 2. Perceived exposure to CAM education during medical school and residency.

How likely are you to refer a patient with a non-emergent condition for CAM treatment?

Please rate your level of comfort counseling a patient on CAM therapies?

Do you think more exposure to CAM (short lectures, hands-on sessions, seminars) during your medical school education would have been beneficial to your current practice?

Do you think more exposure to CAM (short lectures, hands-on sessions, seminars) during your residency education would have been beneficial to your current practice?

#### Results

A baseline assessment of physician comfort level counseling patients on CAM therapy showed very low comfort with an average of 3.75/10 on a ten-point Likert scale. Only twenty-eight percent of the physicians noted that they felt comfortable referring patients for CAM treatment. Results of the survey showed very little exposure to CAM education during medical school and residency with 82% of physicians noting minimal or no exposure at all (Figure 2). Despite lack of exposure to CAM education, the majority of physicians (62%) felt that CAM education during both medical school and residency would have been helpful in his or her current practice (Figure 3 and Figure 4).

#### Limitations

Small sample size due is a limiting factor as well as possible different



Figure 4. Perceived Utility of CAM Exposure In Residency Education.

interpretations of questions by each survey responder.

#### Conclusion

CAM education during medical school and residency was uncommon among academic primary care attending physicians in our survey and most also lacked comfort counseling about CAM treatment and referring patients for CAM therapy. This implies that the discomfort in both referring and counseling patients on CAM treatment is likely related to the paucity of CAM education in medical school and residency. Therefore, exposing doctors or doctors-intraining to evidence-based information regarding CAM might improve overall clinical care and integration.

Despite the minimal CAM education in medical school and residency training, the majority of physicians (62%) felt that CAM education during both medical school and residency would have been helpful in his or her current practice. These results suggest that CAM education likely needs to be increased in both medical school and residency. Future studies are needed to determine if CAM education in medical school or residency training improves physician comfort with CAM therapy counseling and referrals or if it leads to better patient satisfaction or clinical care.

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