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## Are current health behaviors of third-year medical students related to their frequency and confidence in counseling of patients on preventive health behaviors?

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### INTRODUCTION

- Fewer than 1/10 children and adults eat recommended amount of daily vegetables<sup>1</sup>
- According to the CDC, getting enough physical activity could prevent 1/10 premature deaths but only  $\frac{1}{2}$  of adults get the recommended amount of physical activity<sup>1</sup>
- Two leading predictors of preventive counseling among medical students: healthier personal preventive practices and encouragement of healthy lifestyles from their medical schools<sup>2</sup>
- Healthy Doc=Healthy Patient Principle found consistent correlations between compliant physicians' health habits and compliance of their patients<sup>3</sup>
- Physicians that have good health habits are more likely to provide counseling in general on health habits and more aggressive counselling<sup>4</sup> The world's leading causes of death: Heart disease, cancer, accidents,
- stroke, diabetes, are largely preventable<sup>5</sup>

### METHODS

- 42 third-year medical students at the University of Nebraska Medical Center
- Entering their 8-week Family Medicine clerkship rotation
- Completed Pre- and Post-Rotation Questionnaires
  - Pre-Questionnaire: 16 items
  - Demographics
  - Own lifestyle behaviors Perceived importance/relevance of
  - nutrition counseling
  - Confidence in their own counseling behaviors
  - Frequency of own behaviors
  - Post-Questionnaire: 3 items
  - Perceived importance/relevance of nutrition counseling
  - Confidence in their own counseling behaviors
  - Frequency of their own
  - counseling behaviors
- Family Medicine Rotation served as an intervention to see if surveys changed from pre-rotation to post-rotation
- Purpose of the Study:
- Determine if the Family Medicine rotation changes students' perceptions about counseling patients about lifestyle behaviors
- Examine how students' own lifestyle behaviors are related to their counseling behaviors and perceptions



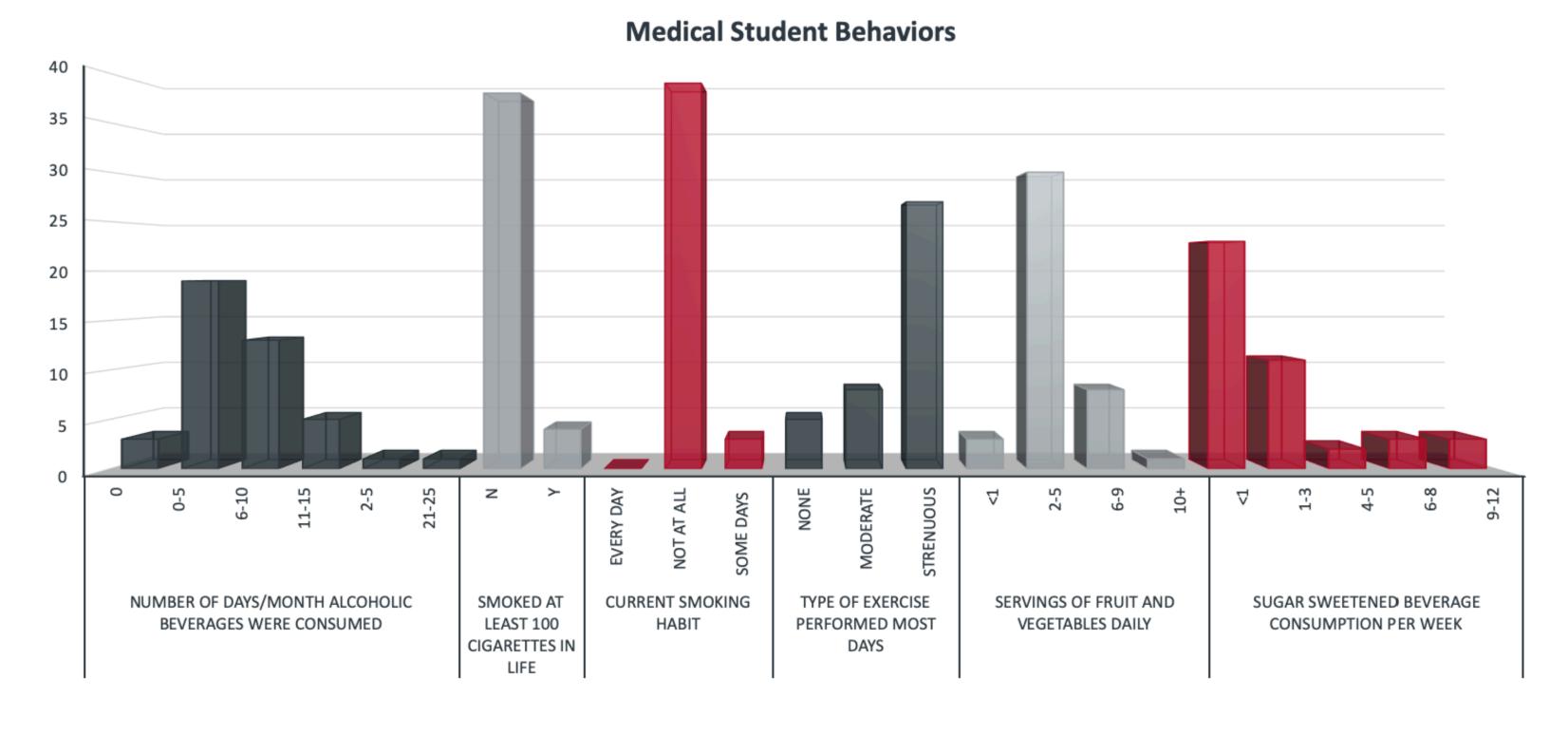
Scan QR Code to view questionnaires.

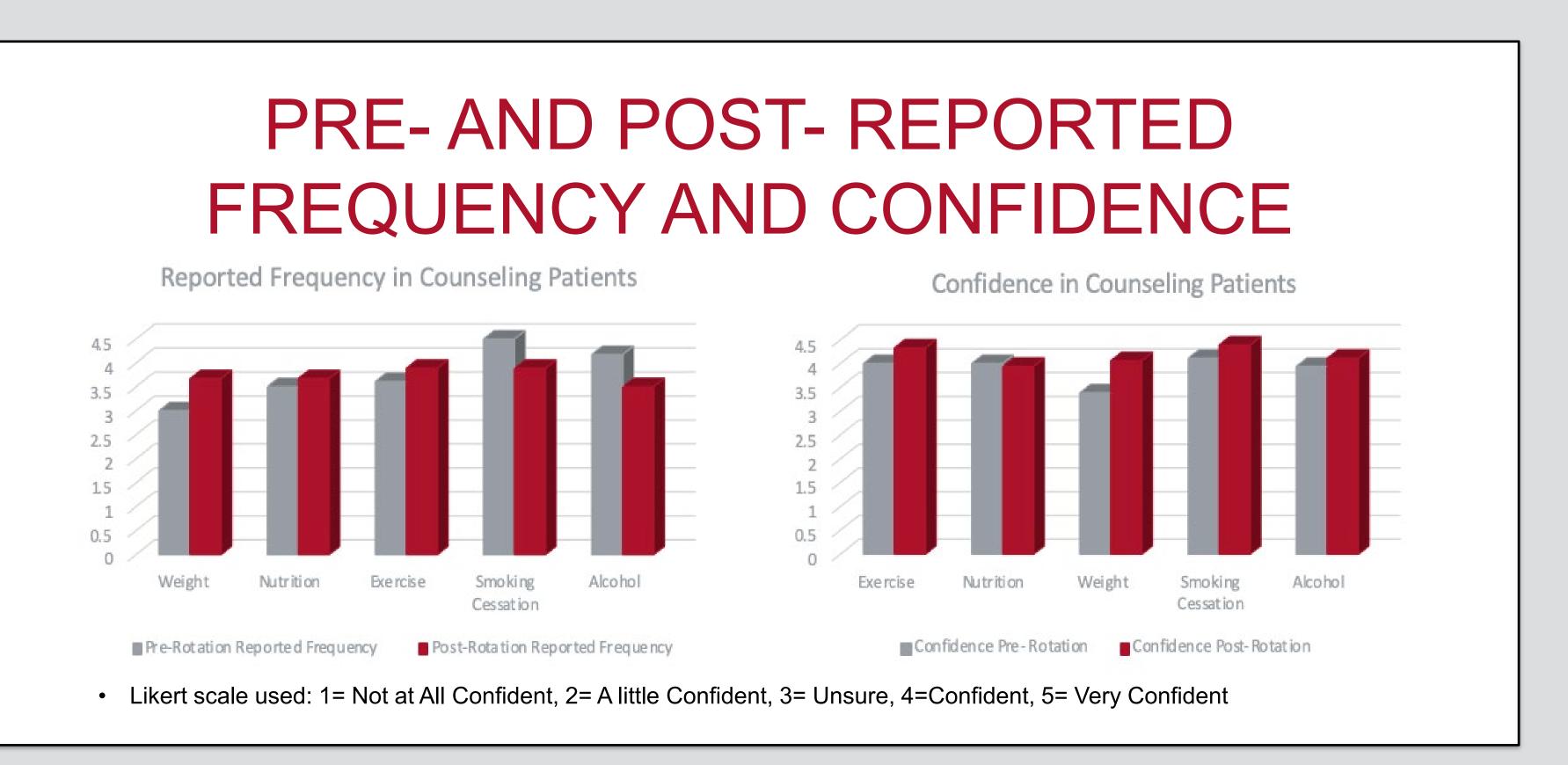


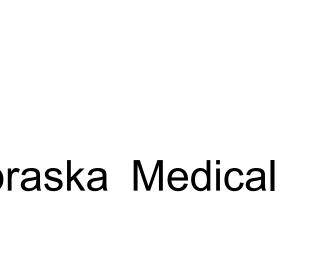
- Sample size, n=42 pre- and n=18 post-rotation
- From Pre-to Post-Rotation, students:

  - Reported asking patients more often about their weight (p=0.006) Reported asking patients less often about smoking cessation (p=0.023) Reported asking patients less often about alcohol use (p=0.018) Felt more confident in counseling patients on their weight (p=0.010)
- No statistical significance was found when comparing the students' lifestyle to their confidence and perceived frequency in counseling patients Medical students overall showed very similar behaviors: lower alcohol intake, non-
- smoking, partaking in strenuous exercise, with recommended servings of fruit and vegetables and low sugar-sweetened beverage intake

### MEDICAL STUDENT BEHAVIORS







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- healthy behaviors
- students

- health
- Canadian



University of Nebraska

### **CONCLUSION AND FUTURE** DIRECTION

• No correlation was found between students' health behaviors and their confidence and frequency in counseling on lifestyle • Completing the family medicine clerkship was found to have a statistically significant effect on certain counseling behaviors • Interestingly, reported frequency in counseling on both smoking cessation and alcohol use decreased following the rotation; and, although not significantly, confidence in counseling on nutrition decreased. This may have been due to an increase in sick or acute visits over the Fall and Winter times.

• There was evidence supporting students having very similar, overall

• Students also had fairly high levels (average scores over 3/5) of reported frequency and confidence in counseling on healthy

behaviors prior to the rotation

Future research should...

strive to increase the sample size of third-year medical

 Consider includes adding a piece of in-home lifestyle coaching for medical students to perform with patients during the rotation

#### WORKS CITED

I. Centers for Disease Control and Nutrition. (2019). Division of nutrition, physical activity, and obesity: Defining the problem, preventing chronic diseases, improving the public's health. Retrieved from https://www.cdc.gov/nccdphp/dnpao/division-information/aboutus/index.htm 2. Frank, E., Carrera, J. S., Elon, L., & Hertzberg, V. S. (2007). Predictors of US medical students' prevention counseling practices. Preventive Medicine,44(1), 76-81. doi:S0091-7435(06)00325-2 [pii]

3. Frank, E., Dresner, Y., Shani, M., & Vinker, S. (2013). The association between physicians'and patients' preventive health practices.CMAJ : Medical Association Journal,185(8), 649-653. doi:10.1503/cmaj.121028 [doi]

4. Wells, K. B., Lewis, C. E., Leake, B., & Ware, J. E., Jr. (1984). Do physicians preach what they practice? A study of physicians' health habits and counseling practices.Jama,252(20), 2846-2848.

5. Xu, J. M. D., Sherry L. Murphy, B. S., Kenneth D. Kochanek, M. A., Brigham Bastian, B. S., & and Elizabeth Arias, P. D. (2018). Deaths: Final data for 2016National Vital Statistics Reports, 67(5), 1.

