

INTRODUCTION

- Interprofessional teams improve the quality, safety, and efficacy of healthcare, making interprofessional education models important¹
- Effective preventative health interventions across all health settings require health professionals outside of the traditional public health field to be well trained in population health management²
- There is limited evidence of success in training health professional students to perform population health management-based quality improvement (QI) interventions as an interprofessional team
- Statin use is recommended in patients 40+ years of age with diabetes and one additional risk factor to decrease cardiovascular risk according the to 2016 American Diabetes Association and the 2013 American Heart Association guidelines³ • A multidisciplinary family medicine clinic aimed to achieve a 74.7% statin use rate in patients 40+ years of age with diabetes by June 2016, but had a statin use rate of
- 57.3% as of December 2015
- A study was conducted to identify factors affecting statin underuse in a multidisciplinary family medicine clinic using an interprofessional team-based QI approach

METHODS

Cohort Demographics

- Interprofessional team of students included:
- 3rd year pharmacy students (n=3)
- 2nd year medical students (n=2)
- Final year nursing students (n=2)
- Final year public health students (n=1)
- Final year social work students (n=1)

Student Experiences

Students completed the pilot population health management course and immersion experience together as a team

Population Health Management Course	lmr
 13 week hybrid course 6 online modules Monthly face-to-face class sessions 	 13 week sh Shadowe healthca staff

Data Collection

- Students used the Ottawa Decision Guide to interview healthcare providers and support staff⁴
- Students recorded subjective observational notes on individual assessment forms during the immersion experience
- Statin use statistics were measured and evaluated based on the University of North **Carolina Physician's Network's standards⁵**

Data Analysis

- Team-based qualitative analysis was used to identify themes and factors impeding statin use
- Factors that could be influenced by the team were prioritized with the Primary Care **Collaborative Quality Measures Reporting Guide**⁵

Interprofessional Analysis of the Factors Affecting Achievement of Adequate Statin Use in a Multidisciplinary Family Medicine Clinic Jennifer Ku, PharmD Candidate, Trang Leminh, PharmD Candidate, Payal Patel, PharmD Candidate, Meg Zomorodi PhD, RN, Nicole R. Pinelli, PharmD, MS



nersion Experience

nadowing period ed and interviewed 13 are providers and support





- The 13-week pilot course was successful in training an interprofessional team of students to complete a needs assessment and then provide recommendations as part of a QI project within the community
- The QI plan developed by an interprofessional team of students as part of a population health management course was effective • Continued efforts are needed to further address provider resistance to further improve statin use rates

- 1. Reeves S, Perrier L, Goldman J, Freeth D, Zwarenstein M. Interprofessional education: effects on professional practice and healthcare outcomes (update). Cochrane Database Syst Rev. 2013;(3):CS002213. 2. Zenzano T, Allan JD, Bigley MB et al. The roles of healthcare professionals in implementing clinical prevention and population health. Am J Prev Med. 2011;
- 40(2):261-267.

- (from 57.3% to 66.3%) after 2 months

CONCLUSION

REFERENCES

American Diabetes Association. Cardiovascular Disease and Risk Management. In: 2016 Standards of Medical Care in Diabetes. Diabetes Care. 2016;39:S60—S71. 4. O'Connor AM, Stacey D, Jacobsen MJ. Ottawa Personal Decision Guide. Ottawa Hospital Research Institute & University of Ottawa, Canada.: 2015. 5. University of North Caroline Physician's Network. Primary Care Collaborative Quality Measures Reporting Guide. Chapel Hill, NC: 2016.

• All recommended interventions EXCEPT the statin choice tool were successfully implemented in April 2016

• Statin choice tool was not implemented due to provider resistance Statin use rates in patients 40+ years of age with diabetes increased by 9%

DISCLOSURES

Authors of this presentation have the following to disclose concerning possible financial or personal relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation: Jennifer Ku, PharmD Candidate: Nothing to disclose. Trang Leminh, PharmD Candidate: Nothing to disclose. Payal Patel, PharmD Candidate: Nothing to disclose. Meg Zomorodi, PhD, RN: Nothing to disclose. Nicole R Pinelli, PharmD, MS: Nothing to disclose.