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A Patient-Centered Medical Home Curriculum for Third- Year Medical Students

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Disclosures

I, my spouse or any immediate family members do not have any relationships with any commercial interest organizations to disclose.



Outline

- I. Introduction
- II. Presentation of the curriculum
- III. Presentation of student Dr. Hyo Young Seo's experience
- IV. Presentation of research showing the benefit of structured curriculum
- V. Insights of Dr. David Sperling
- VI. Future Direction
- VII. Conclusion and Recommendation

Objectives

1. To describe the Patient-Centered Medical Home Curriculum (PCMH) for third-year medical students at Northeast Ohio Medical University rotating in Aultman Family Medicine.
2. To discuss the importance of integrating quality improvement as a key component of PCMH during Family Medicine rotation.
3. To assess the applicability of this PCMH curriculum in their respective institutions.



Patient-Centered Medical Home (PCMH)





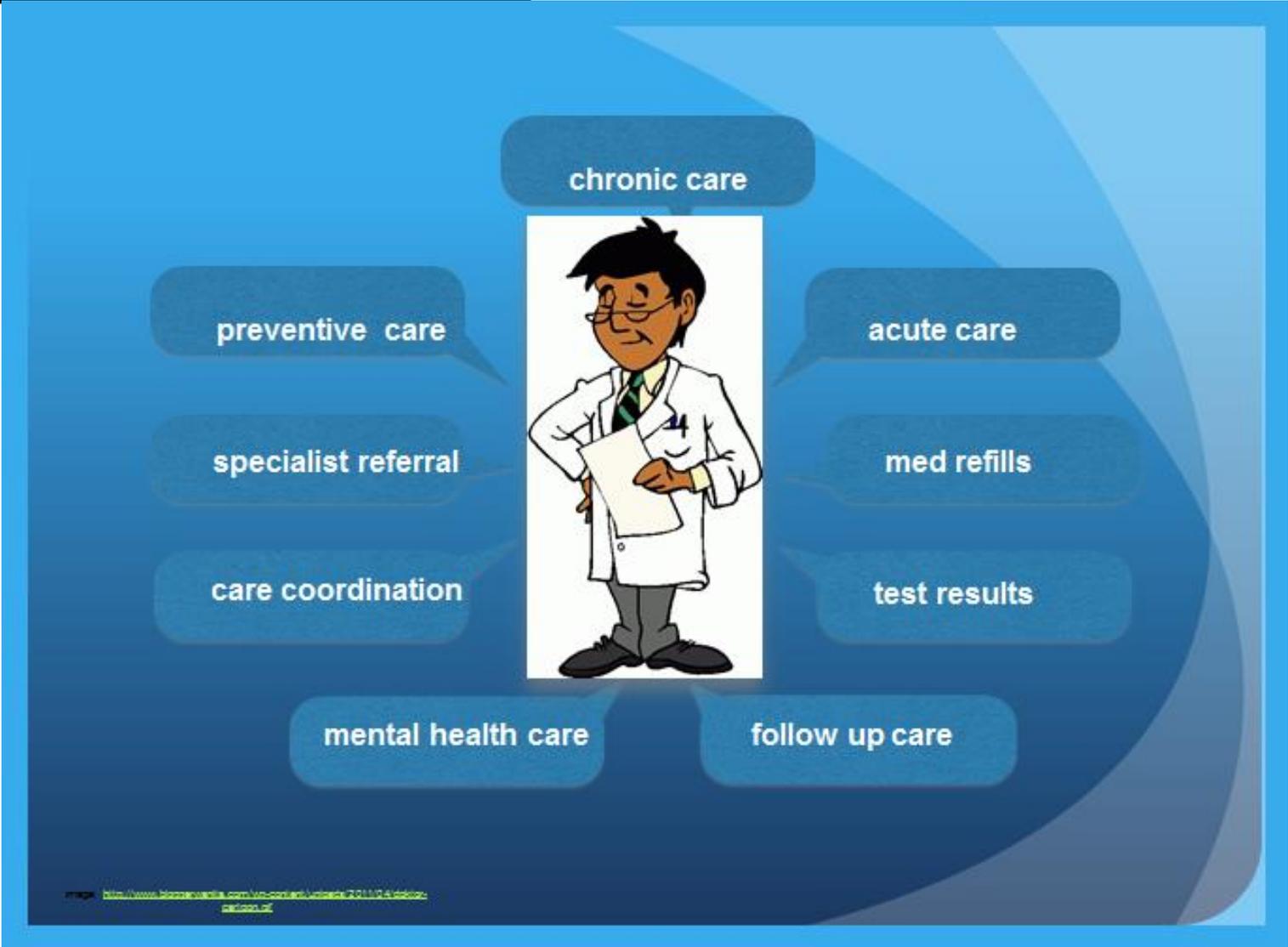


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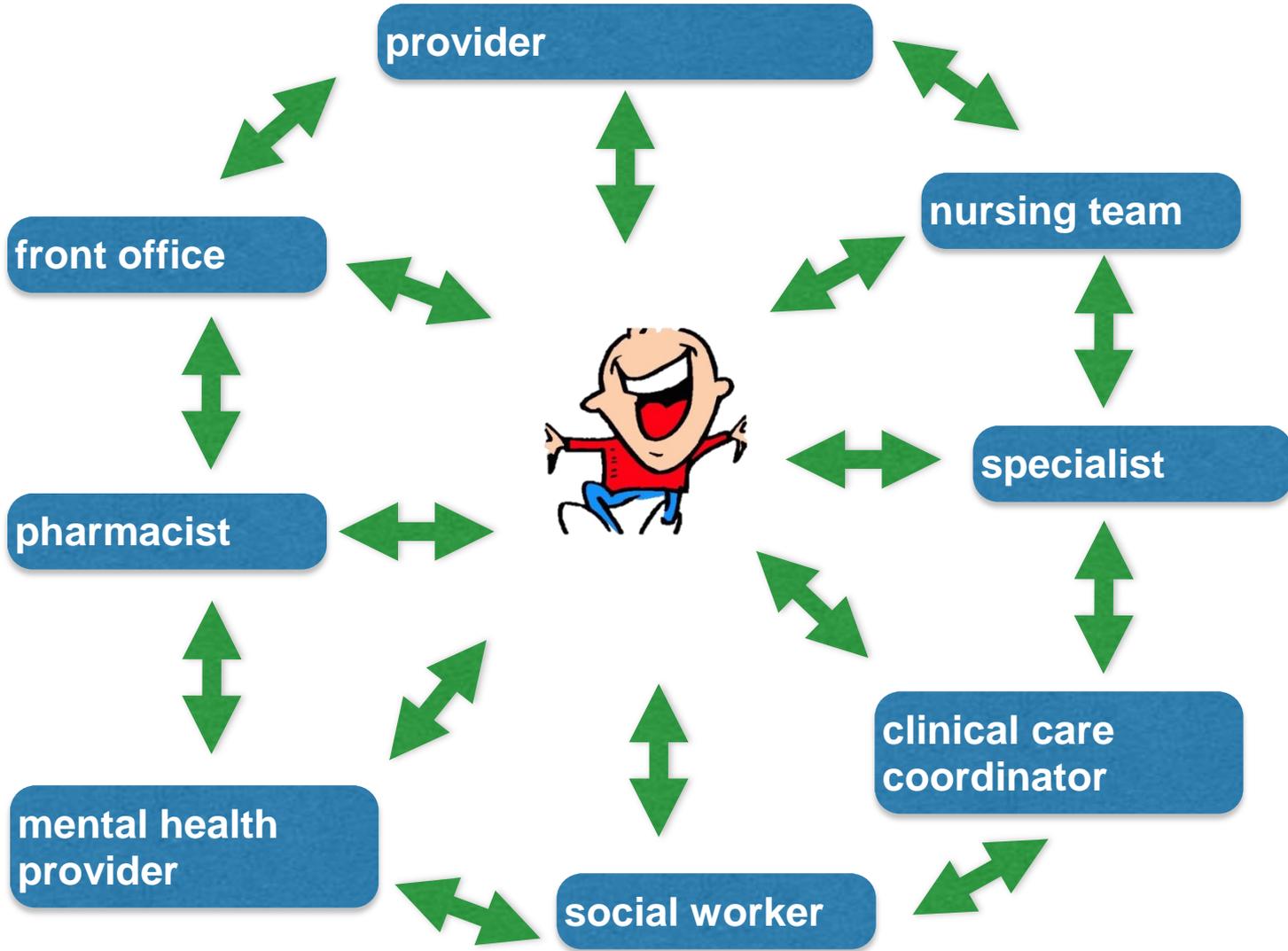
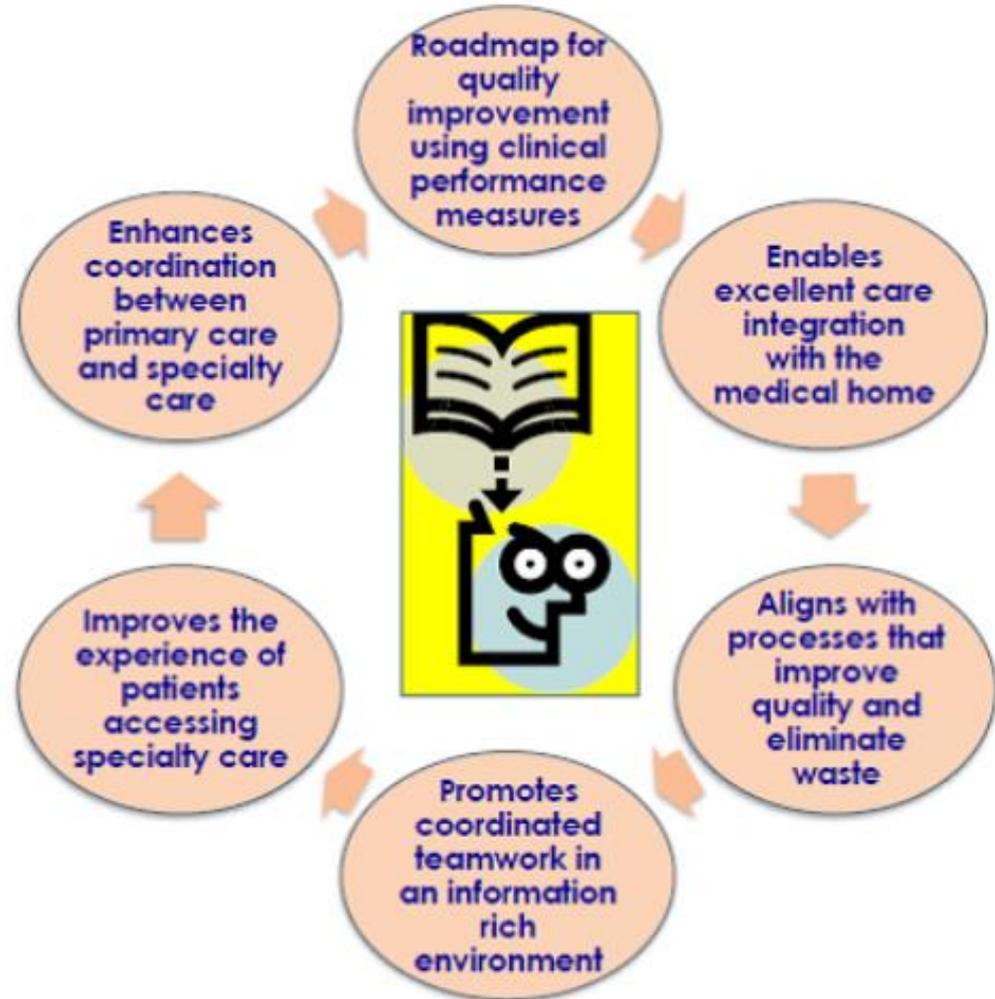
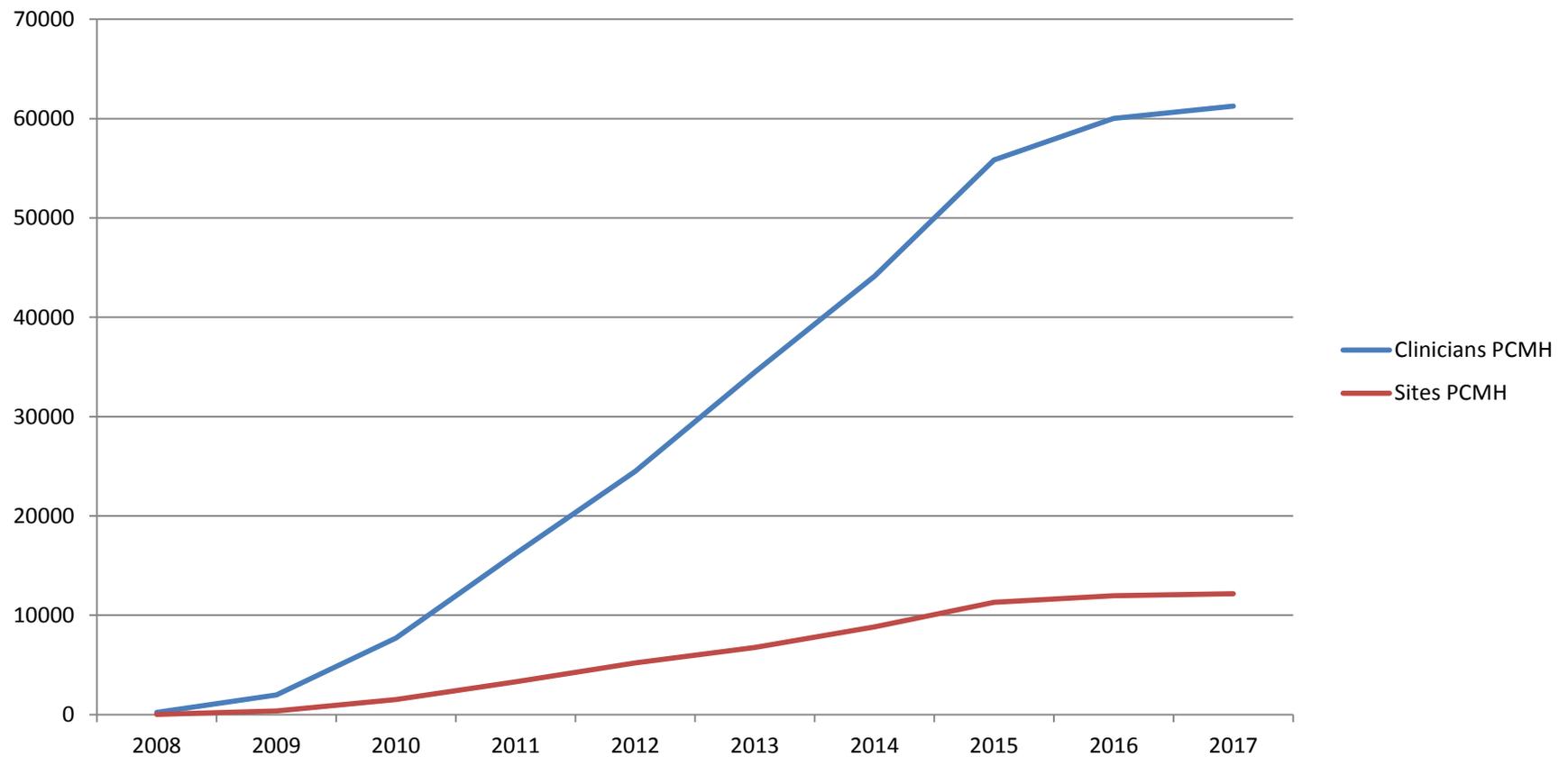


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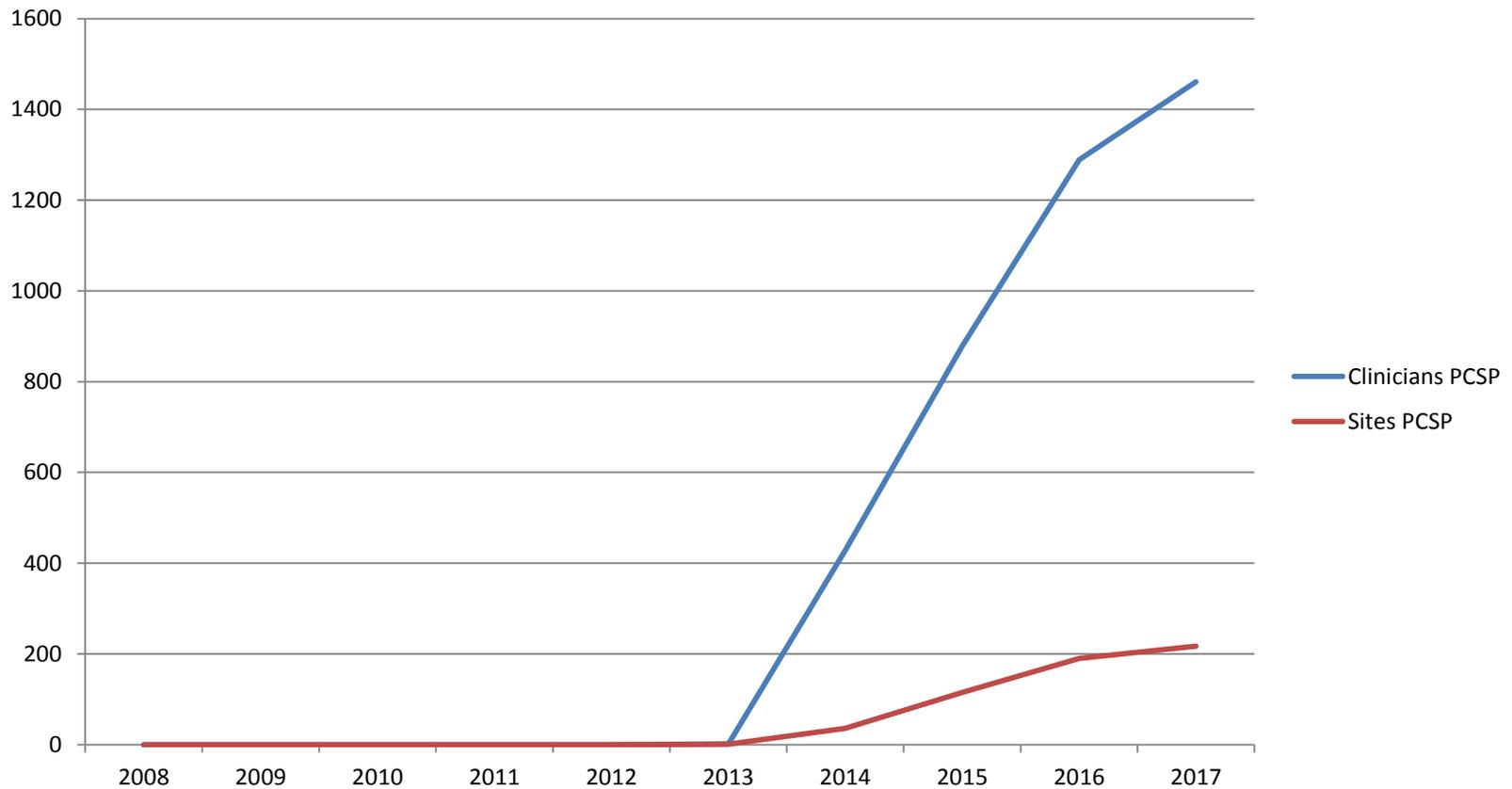


PCMH in United States



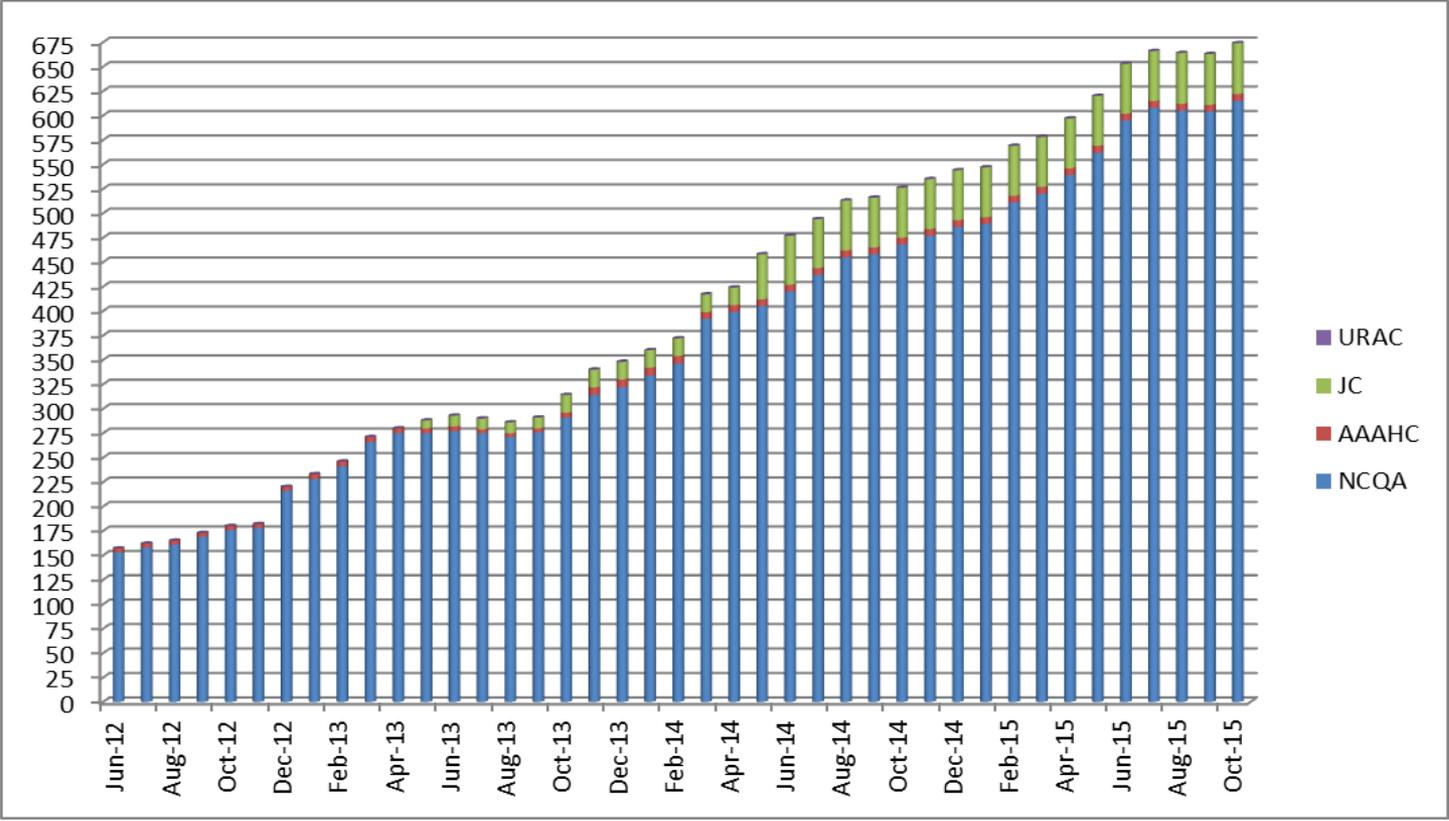


PCSP in United States





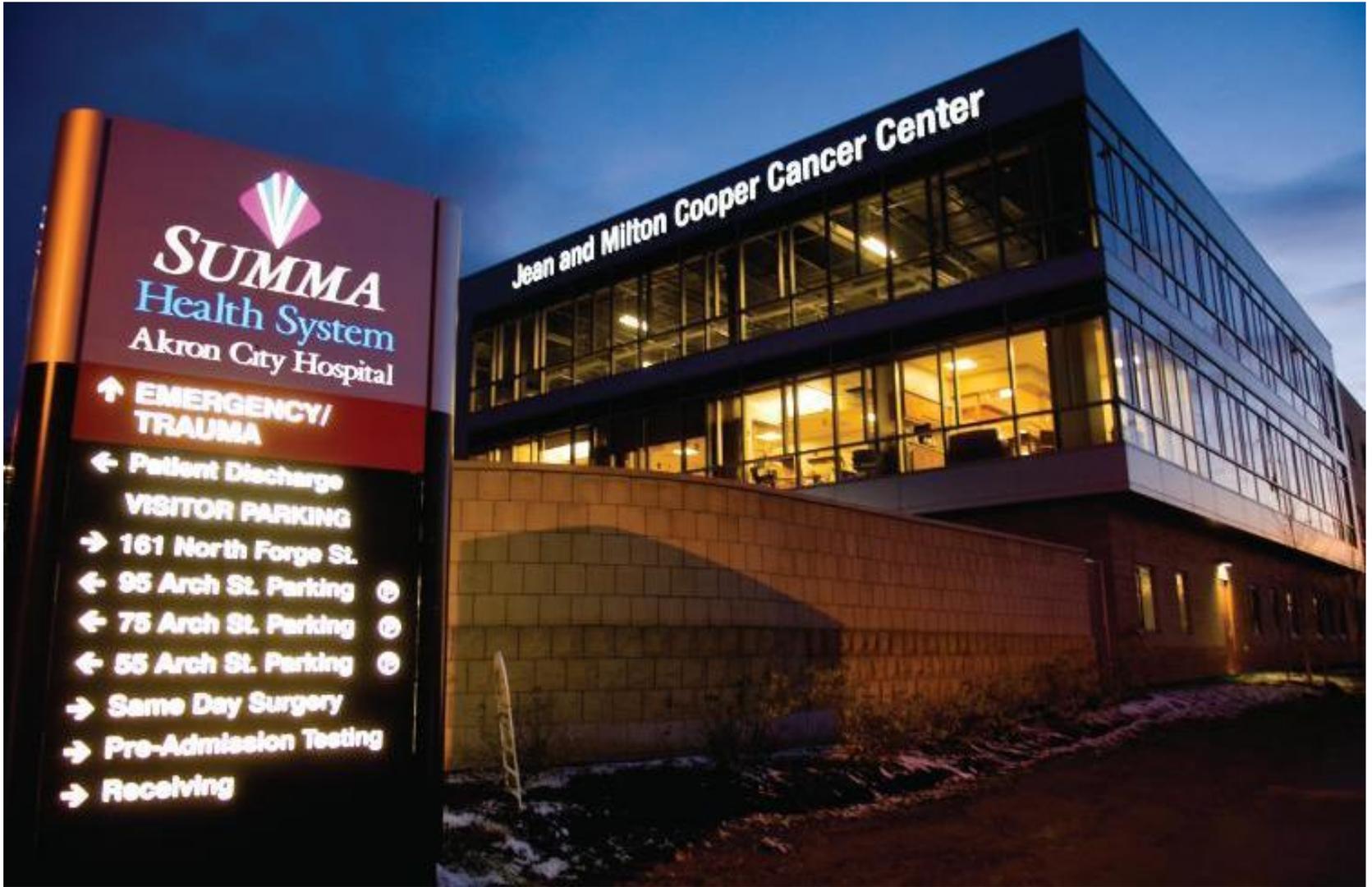
PCMH in Ohio



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PCMH Curriculum Overview

After completing the course, M3 students will be able to:

- Understand Patient-Centered Medical Home (PCMH)
- Recognize importance of team-based care
- Value continuous improvement

Curricular Goals

- Medical students will understand the concept and framework of PCMH
- Recognize the importance of team-based care
- Aim for excellence and continuous quality and practice improvement

Objectives

- define PCMH in accordance with the AAFP definition
- describe the PCMH components: Practice Organization, Quality Measures, Patient Experience, and Health Information Technology
- design and implement a practice improvement or quality improvement project



Instructional Strategies/Implementation Plan

Time	Activity	Resource	Staff/Resident/Faculty Involvement
Week 1, Day 1 AM	Asynchronous learning	“Introduction to PCMH” video	
Week 1 Day 2 1 hour	Small group discussion	PCMH at Aultman Family Medicine presentation	Faculty-PCMH Champion
Weeks 1-2	Self-directed Learning	Fundamentals of Improvement Modules from IHI	



<https://mediaweb.neomed.edu/Mediasite/Play/57cd0a269a5a4dad8d11ed7d4e81bdce1d>



Instructional Strategies/Implementation Plan

Time	Activity	Resource	Staff/Resident/ Faculty Involvement
Weeks 1-2 1-2 hours, 2 sessions	Shadow resident or nurse or front office staff or medical biller	Experiential learning; identify one area for improvement	Resident or nurse or front office staff
Last day of Week 2 1 hour	Needs Assessment; Designing a plan	IHI Handbook- Charter Form; PDSA Form	Faculty Advisor



Instructional Strategies/Implementation Plan

Time	Activity	Resource	Staff/Resident/Faculty Involvement
Week 3, Day 1 30 minutes	Discuss implementation and data collection plan	IHI Handbook- PDSA Form Application of “Plan” in the PDSA cycle	Faculty Advisor
Week 3, Day 2 huddle	Orientation of staff, residents, faculty re: Implementation /data collection	Application of “Do” in the PDSA cycle	Staff Residents faculty



Instructional Strategies/Implementation Plan

Time	Activity	Resource	Staff/Resident/Faculty Involvement
Weeks 3-4	Implementation/ Data Collection	IHI Handbook- PDSA Form; Application of “Do” in the PDSA cycle	Staff Residents Faculty
Week 5 30 minutes	Analysis of Data	IHI Handbook- PDSA Form; Application of “Study” in the PDSA cycle	Faculty Advisor



Instructional Strategies/Implementation Plan

Time	Activity	Resource	Staff/Resident/ Faculty Involvement
Week 6, Day 1 30 minutes	Discuss results; Preparation for Presentation of the project	IHI Handbook- Practicum Summary Report	Faculty Advisor
Week 6 Noon Conference	Presentation of the Project max of 10 minutes	IHI Handbook- Practicum Summary Report	Staff Residents Faculty



Resources

Resources	Initial Cost	Succeeding Cost
Powerpoint slides	\$ 720	0
Video Lecture	810	0
Faculty	280	\$ 280
Conference Room	250	250
Web Hosting	3	3
Total	\$2,063	\$ 533



Learner Assessment

- Quiz
- Conference Evaluation form
- Personal reflection on “How quality improvement or practice improvement project will affect patients, staff, providers and healthcare system?”



Evaluation

- Students will evaluate the PCMH curriculum by completing an evaluation form.
- Residents, faculty and staff will complete a post evaluation of satisfaction of the curriculum.
- A cost/benefit analysis will be tracked and reported by the Clerkship Coordinator.



Perspective of Student Dr. Hyo Young Seo



Week1

- Getting used to the flow of the office
 - Electronic medical record
 - Meeting the staff members
 - Learning his or her role
 - Identifying areas medical students can help
 - HPI, ROS
 - Nursing needs
 - Chart review
- Knowing that a QI project will be done made us pay attention to what's working, what could be improved
- Motivated me to get to know all the office staff, not just the residents and attending physicians

Weeks 2-5

- Planning the QI Project
 - PDSA Cycle
 - Topic of interest
 - Feasible
- Weekly meetings with Dr. Belen
 - Receive feedback on plan – She suggested we add a role for the front office staff
 - how to maximize the role of each staff member?
- Daily huddles in the office
 - Every team member provides questions, concerns, what we're doing well
 - Present the QI project and ask for continued participation, reminders daily



Our QI Project

- Project Title: Living Will Questionnaire
- Aim of project: To increase by 10% the percentage of family medicine patients with living will by educating patients about the importance of living will.

Dear All,

We are Sejul Chaudhary and Hyo Young Seo, the third year medical students from NEOMED currently in our family medicine clerkship. We are conducting a quality improvement project with Dr. Belen on increasing patient awareness about Living Wills from 7/5/2016-7/15/2016.

Below are all the roles for the different members of the team.

Front desk:

For every patient **greater than 18 years old** who are here for a **wellness visit**, please hand them the *Living Will questionnaire* and ask them to fill it out.

Nurses:

When rooming the patients, if the patient has **answered No to Question #1** please hand them the "Choices, Living Well at the End of Life" packet that's in the drawers in each exam room.

Please **document in Allscripts** in the Health maintenance section → Living Will section whether the patient has a living will, refused, or were handed the packet.

Providers:

During the well visit, **discuss with the patients the results of the questionnaire** and emphasize the importance of having a Living Will completed.

If the patient agrees to complete a Living Will, please hand them the State of Ohio Living Will Declaration that's located in the drawer in the exam room. Try to set a goal date for the completion of the Living Will. If the patient takes the Living Will form, please document in Allscripts so we can follow up in future appointments.

If different from nurses' documentation, please chart in Allscripts the patients' response.

Give the survey back to the patient along with the green check out sheet

Check out:

Please **collect the completed questionnaire** from the patients at the time of check out.

There should be a marked folder to place the forms. We will pick them up at the end of each week.

Please let Sejul, Hyo, or Dr. Belen know if you have any questions. We appreciate your cooperation in this project.

Thank you,

Name:

Date of Birth:

Living Will Questionnaire

Circle Yes or No

1. Do you have a living will?

Yes No

2. If No, Do you understand what a living will is?

Yes No

3. Would you like more information about your living will?

Yes No

4. Would you like a living will form to complete at this time?

Yes No

**Please turn in this form at the front desk upon checking out. Thank you.*



Choices

Living Well at the End of Life

Advance Directive Information
Sixth Edition

State of Ohio

Living Will Declaration

Notice to Declarant

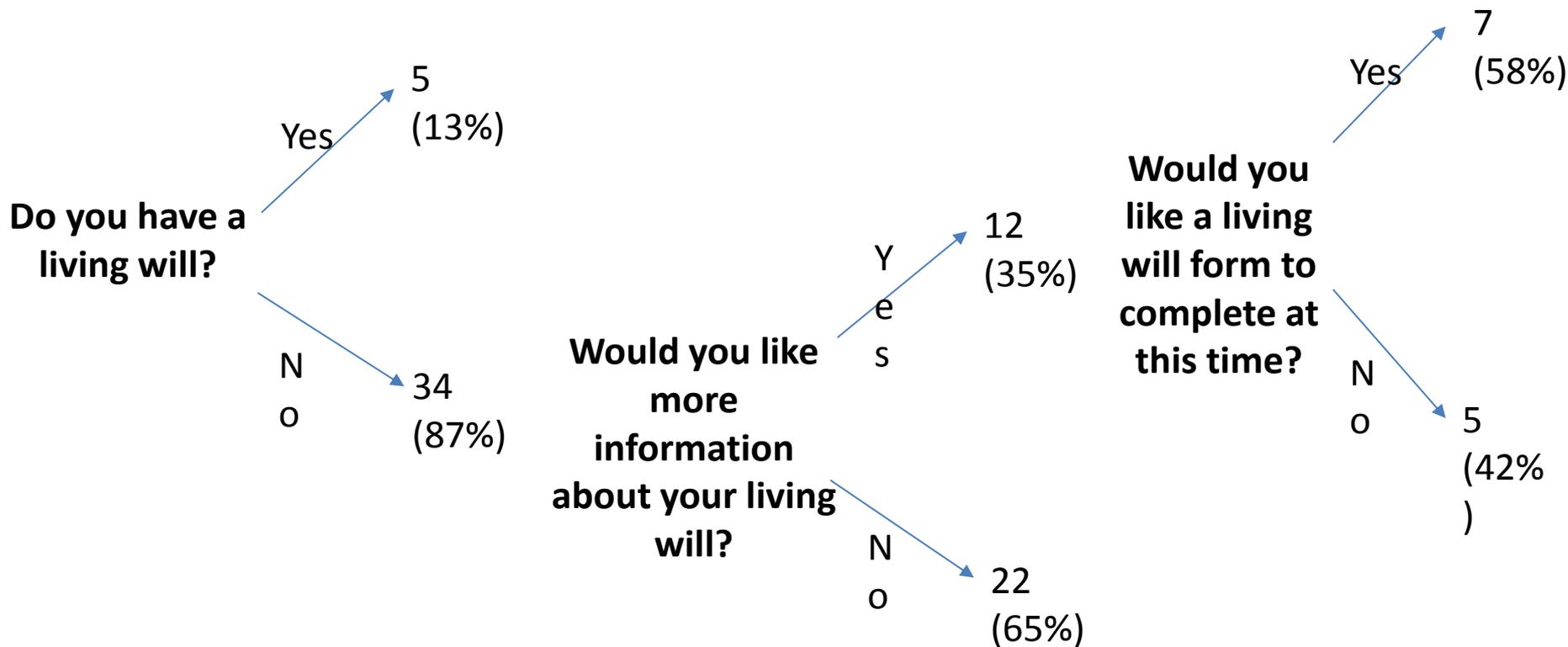
The purpose of this Living Will Declaration is to document your wish that life-sustaining treatment, including artificially or technologically supplied nutrition and hydration, be withheld or withdrawn if you are unable to make informed medical decisions and are in a terminal condition or in a permanently unconscious state. This Living Will Declaration does not affect the responsibility of health care personnel to provide comfort care to you. Comfort care means any measure taken to diminish pain or discomfort, but not to postpone death.

If you would not choose to limit any or all forms of life-sustaining treatment, including CPR, you have the legal right to so choose and may wish to state your medical treatment preferences in writing in a different document.

Under Ohio law, a Living Will Declaration is applicable **only to individuals in a terminal condition or a permanently unconscious state**. If you wish to direct medical treatment in other circumstances, you should prepare a Health Care Power of Attorney. If you are in a terminal condition or a permanently unconscious state, this Living Will Declaration takes precedence over a Health Care Power of Attorney.

[You should consider completing a new Living Will Declaration if your medical condition changes or if you later decide to complete a Health Care Power of Attorney. If you have both a Living Will Declaration and a Health Care Power of Attorney, you should keep copies of these documents together. Bring your document(s) with you whenever you are a patient in a health care facility or when you update your medical records with your physician.]







Living Will Questionnaire Results

- 39 total responses
- 87% did not have a living will
 - Patients who wanted more info: more likely to want the form to fill out
- Important to follow up with these patients
- Update EMR regularly

Conclusion

- Planning a QI project and carrying out the PDSA Cycle
 1. Made us pay attention to the IHI Modules
 2. Raised awareness of every day issues in the office
 3. Fostered closer relationship with all office staff
 4. Increased knowledge about advanced care planning process in Ohio
 5. Taught us the value of PCMH for both providers and patients

Going Forward

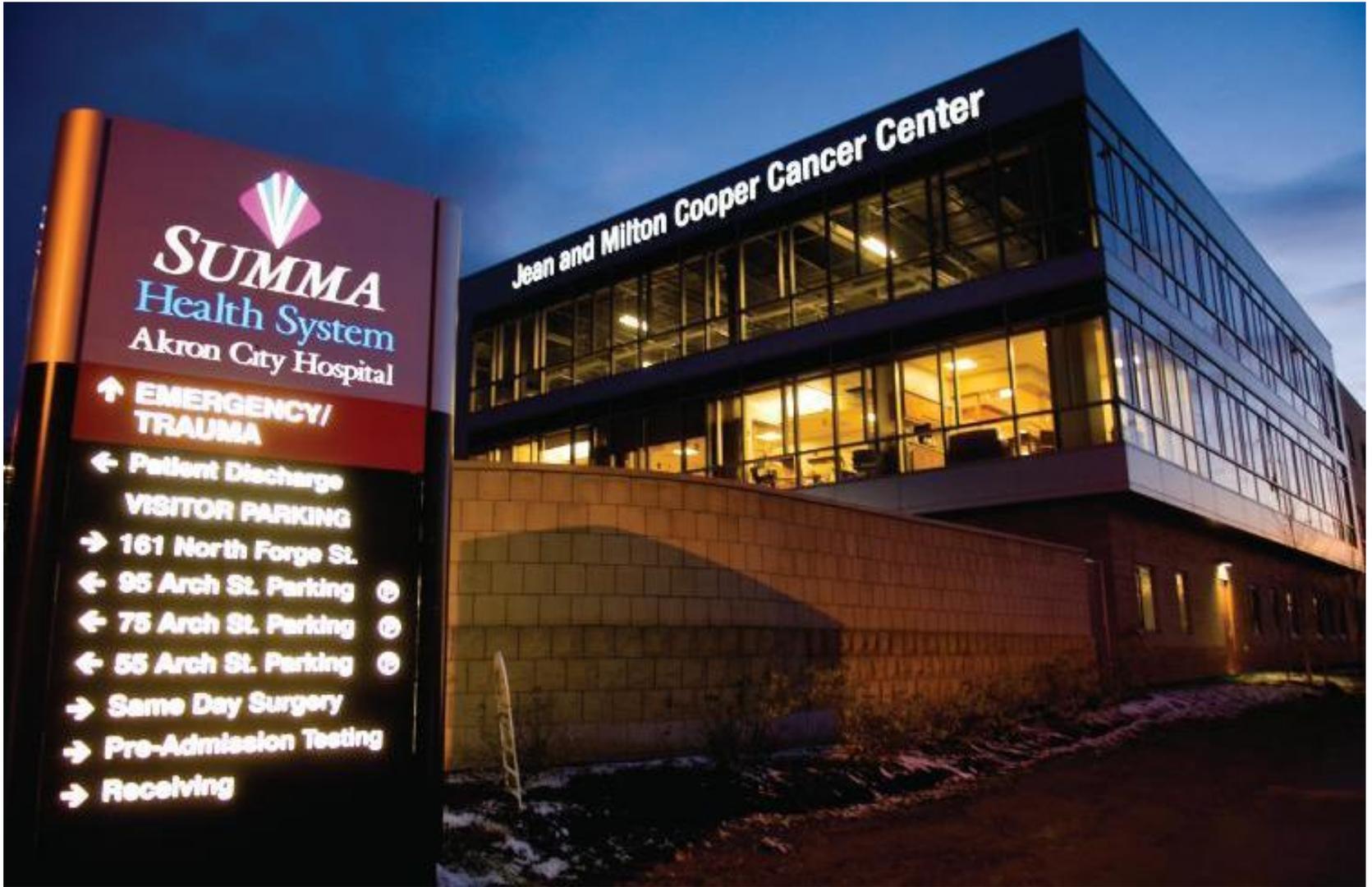
- ACGME requires a QI project from each resident
 - Already aware of PDSA Cycle and the process
 - Possibility of continuing or developing this project further
- PCMH Knowledge
 - Use knowledge to develop and grow residency clinic as a PCMH
 - Possibility of service on a PCMH committee
 - Starting or developing my future practice as a PCMH
 - Help educate medical students

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Purpose of the Study

- To demonstrate that third-year medical students will have increase in knowledge about PCMH and QI after implementation of the PCMH curriculum.



Purpose of the Study

- To demonstrate that third-year medical students will increase their competence to develop and implement a quality improvement project using Plan-Do-Study-Act (PDSA) cycle.



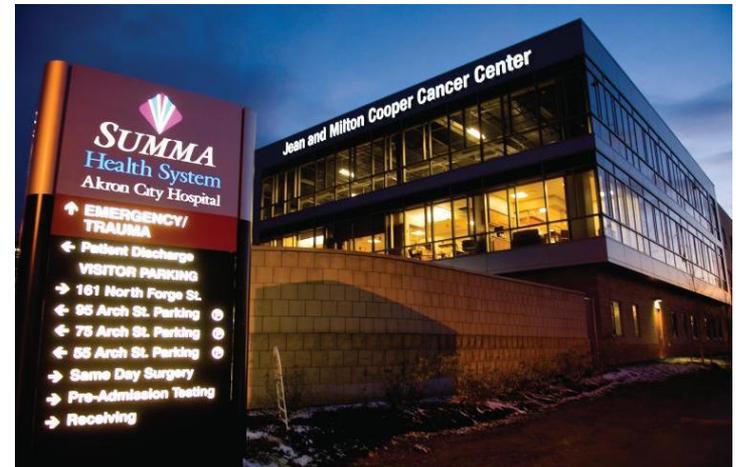
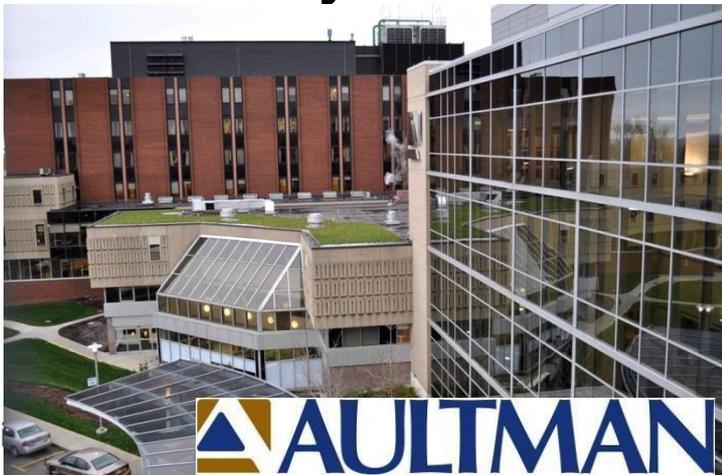
Purpose of the Study

- To evaluate the effect of formal PCMH curriculum on the change in the personal perception of medical students' knowledge, skills, attitude and experience related to PCMH and QI.



Methodology

- Quasi-experimental study
- Aultman Family Medicine (Intervention) and Summa Family Medicine (Control) from May 2015 to April 2016
- All third-year medical students rotating in Family Medicine





Methodology

- Number coded pre-test and post-test
- Results of the pre-test and post-test were collected and compared
- Intra-group change scores and mean change difference between groups were analyzed with associated confidence intervals.



Pre-/Post-test QI

- How much do you know about quality improvement (QI)?
- What kind of participation have you had with QI?
- I believe I am able to develop and implement a QI project.
- I would like to participate in a project if it helped improve patient care.
- I would like to participate in a project if it helped improve residency program.

• Adapted from: CQI Curriculum/Indiana University School of Medicine//Djurucuch/MedEdPortal 2006



Pre-/Post-test QI

- List elements of PDSA cycle and briefly describe each in one sentence.
- In Quality Improvement, most problems are in people not working hard enough.
- We define quality by how well we meet the needs of those we serve.
- We need to specify what are we trying to accomplish and how will we know a change is an improvement.
- We must collect meaningful data and use the data for learning and further improvement.

• Adapted from: CQI Curriculum/Indiana University School of Medicine//Djurucuch/MedEdPortal 2006



Pre-/Post-test PCMH

- How much do you know about Patient-Centered Medical Home (PCMH)?
- What kind of participation have you had with PCMH?
- The basic premise of the PCMH is that it facilitates partnerships between individual patients and their personal physicians, and when appropriate, the patient's family.



Pre-/Post-test PCMH

- Identify which of the following scenarios fit the PCMH model.
- Please check the four components of PCMH.
- What is the hallmark of Patient-Centered Medical Home?
- One of the key benefits of the PCMH among others is that coordinated care means fewer duplicate or unnecessary tests.



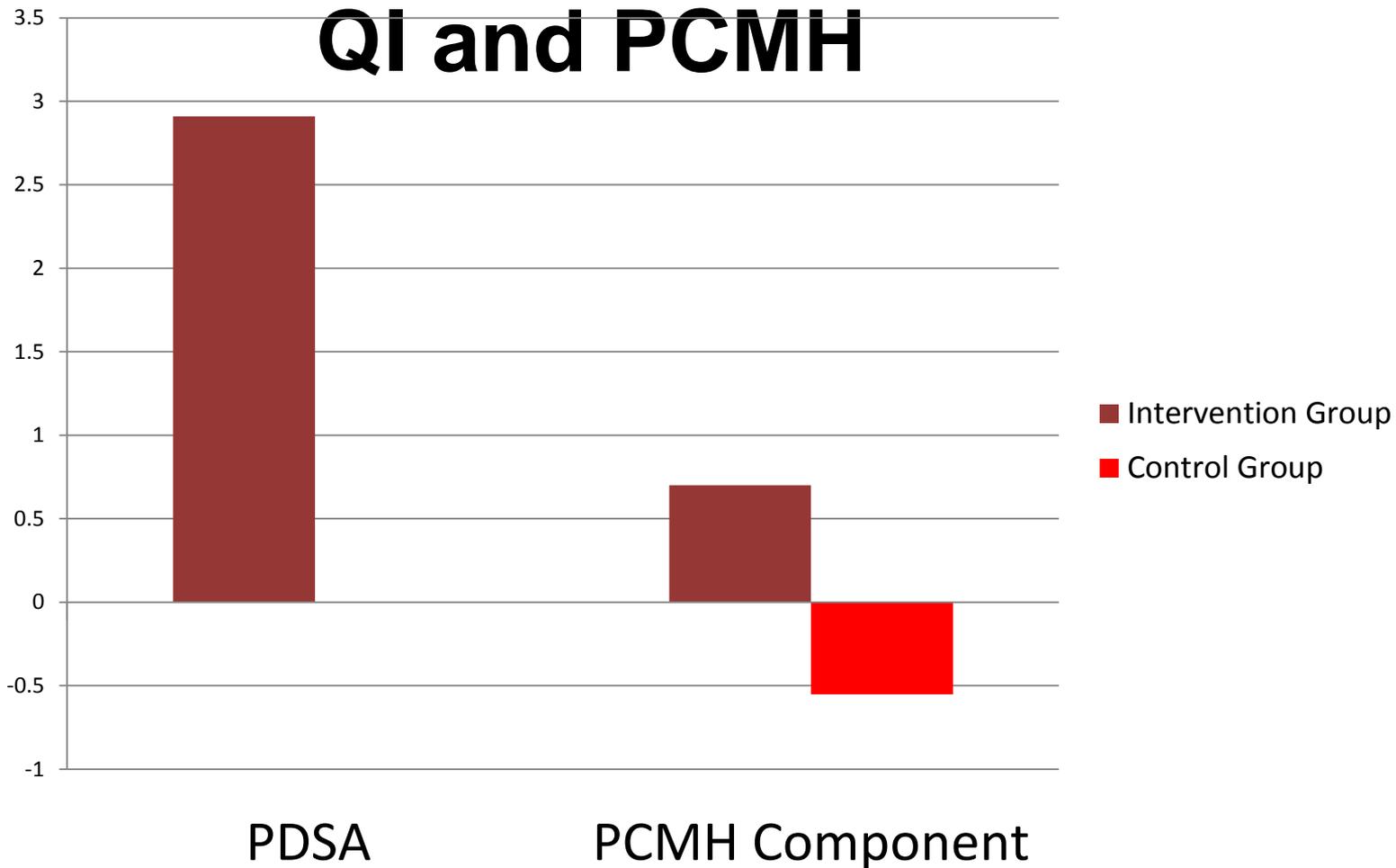
Mean Change in Knowledge Score for QI and PCMH

	Intervention Group	Control Group	P value	Confidence Interval
PDSA	2.91	0	0.0002	1.594 - 4.224
PCMH Component	0.7	-0.55	0.005	0.430 - 2.081



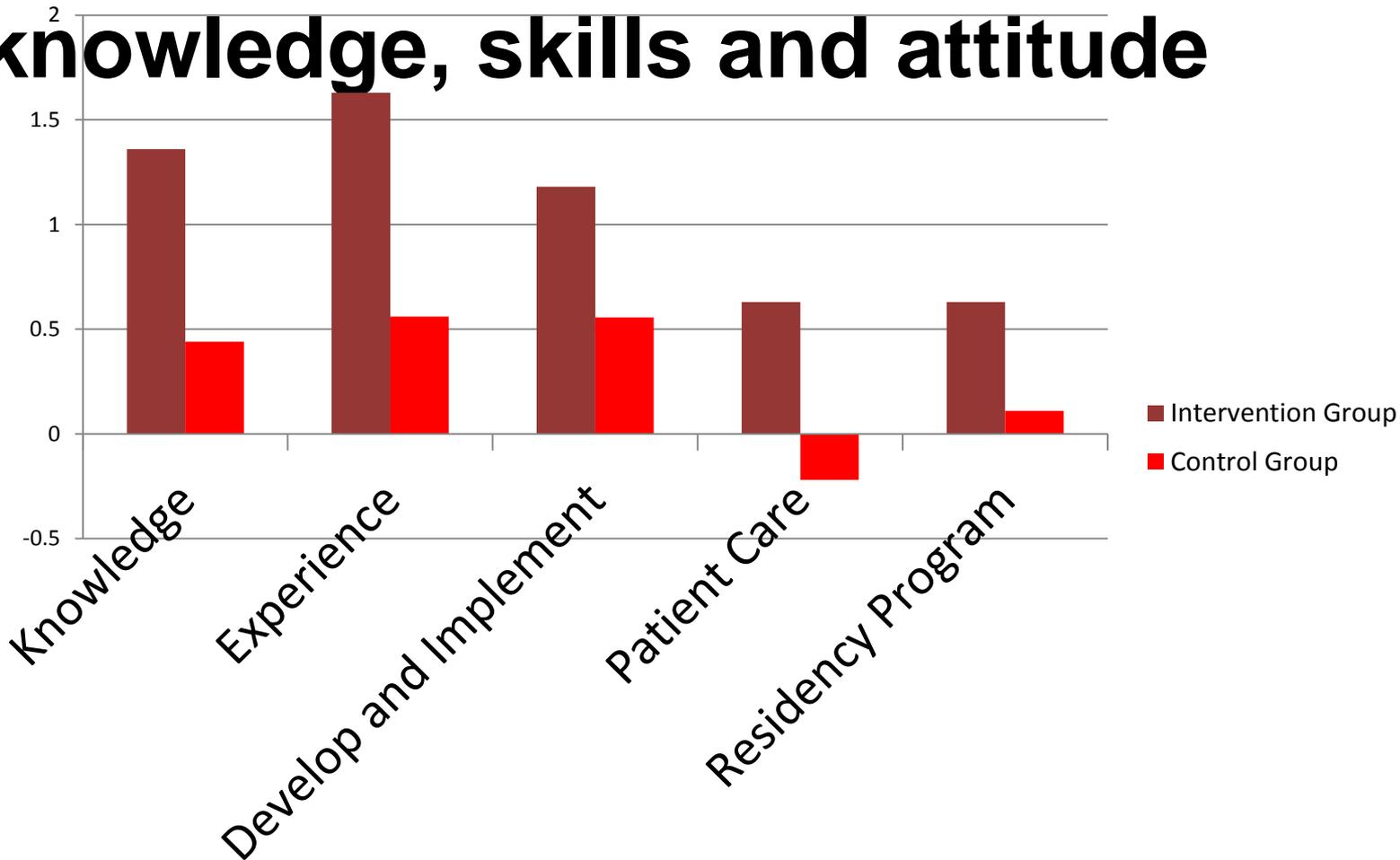
Mean change in knowledge score for

QI and PCMH





QI self-assessment change in knowledge, skills and attitude



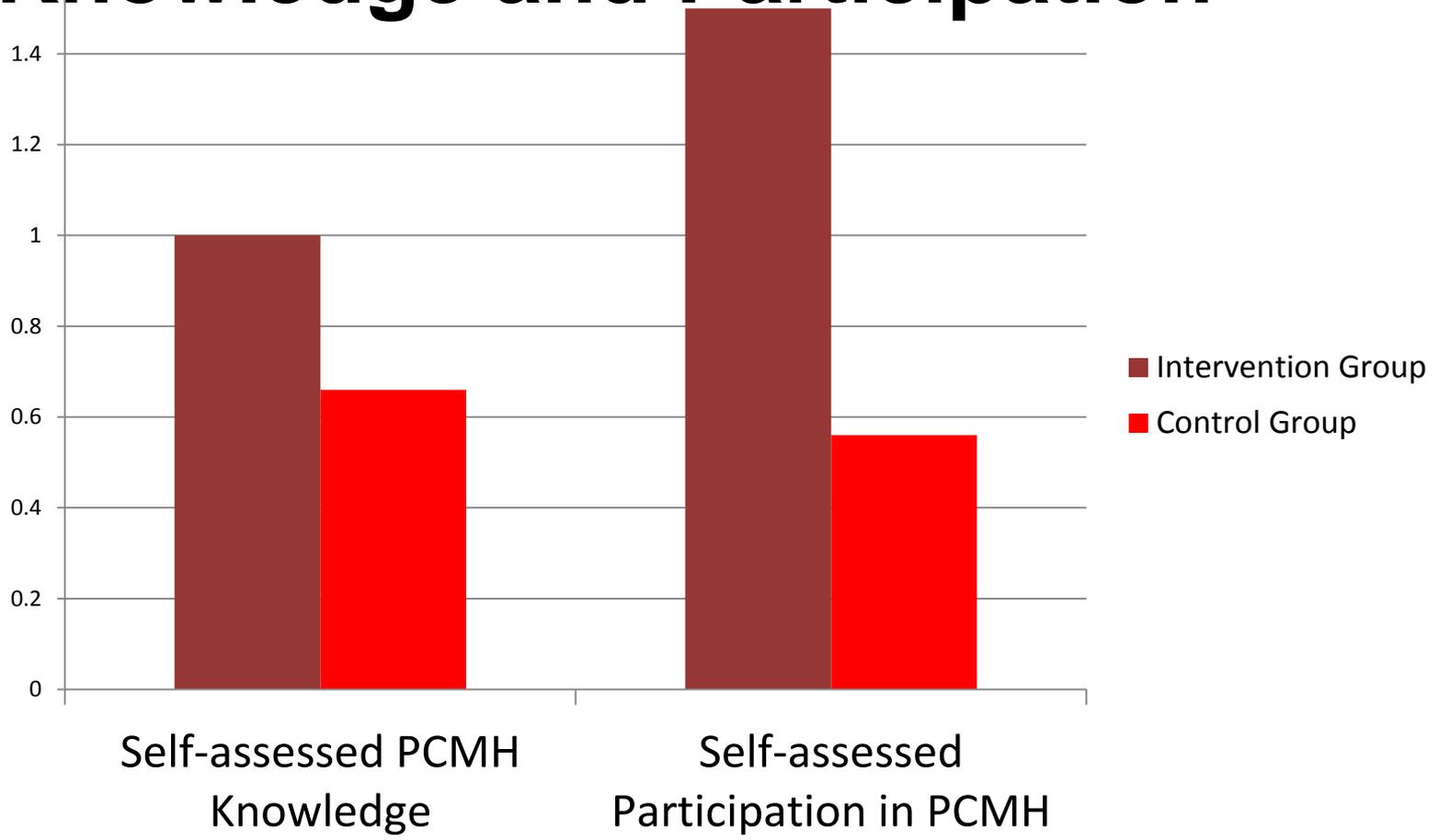


Mean Change in QI Self-assessment Score in Knowledge, Skills and Attitude

	Intervention Group	Control Group	P value	Confidence Interval
Knowledge	1.36	0.44	0.0089	0.260 - 1.578
Experience	1.63	0.56	0.0029	0.422 - 1.739
Develop and Implement	1.18	0.556	0.076	-0.073 - 1.325
Patient Care	0.63	-0.22	0.0008	0.408 - 1.309
Residency Program	0.63	0.11	0.223	-0.349 - 1.399



PCMH Self-assessment Change in Knowledge and Participation



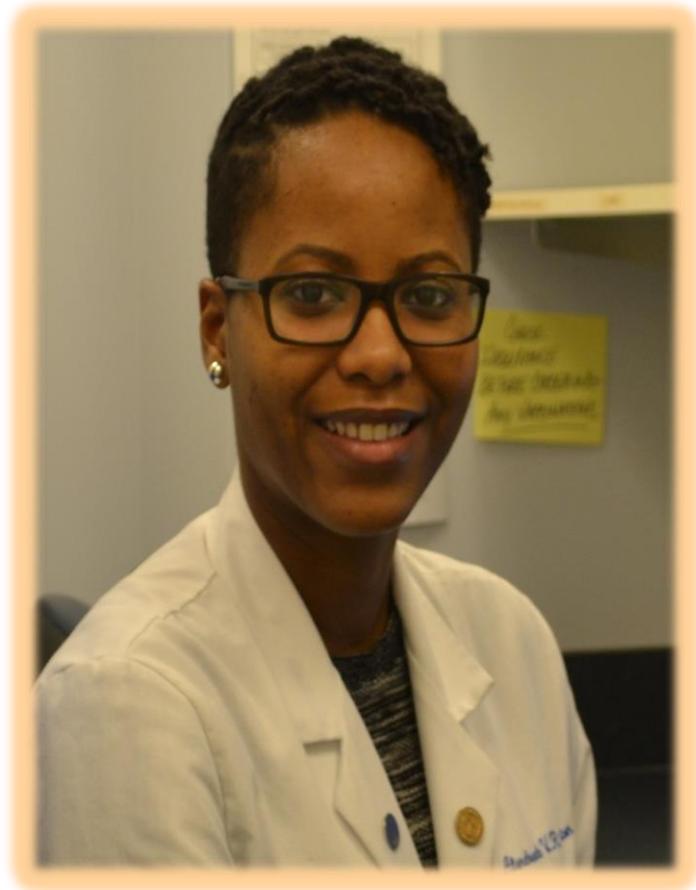


Mean Change in PCMH Self-assessment Score in Knowledge and Participation

	Intervention Group	Control Group	P value	Confidence Interval
Self-assessed PCMH Knowledge	1	0.66	0.46	-0.607 - 1.27
Self-assessed Participation in PCMH	1.5	0.56	0.011	0.250 - 1.639



What was the most relevant activity for me as medical student and future physician?

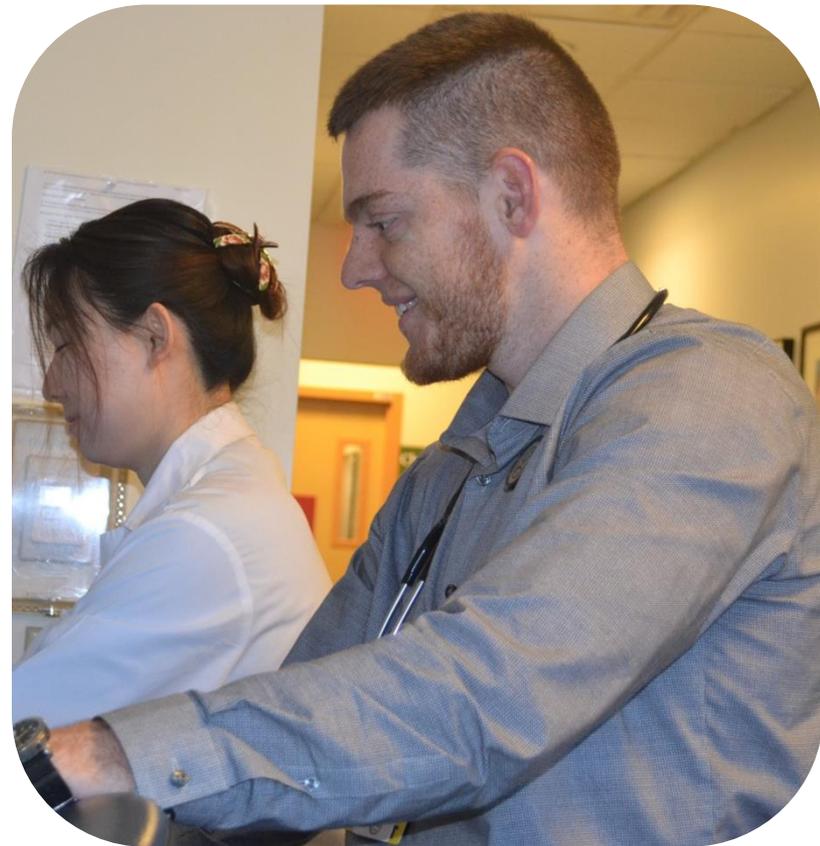


“The QI project was an excellent way to get hands-on experience on how to improve the way we practice medicine.”

“Developing and implementing a plan for better health from start to finish.”

“Helping to discuss the pros and cons of our vaccination project”

“Identifying an area for improvement”



My understanding of PCMH was enhanced in the following ways

“Learning about and actually doing it”

“Seeing and not just reading about how the
interaction between health care workers
improves the care of the patient”





“Working with the team to come up with the best possible ideas...”

“Knowing that I can enact change even through small steps.”



“I learned so much about PCMH during this rotation. I will be able to inform colleagues about the benefit of PCMH and how to use this philosophy to improve patient care.”



What did our residents, staff and faculty say ?

“It is a good idea to have medical students get exposure to the concept of PCMH and QI initiatives.”



“Great project, hope to use this next year.”

“Very dedicated to medicine in PCMH.”



Perspective of Dr. David Sperling on PCMH Curriculum





- This information is important
- Trainee facility with QI is a fundamental SBP competency
- Even in a level 3 PCMH, passive exposure to these concepts relying on serendipitous encounters is not adequate for students to gain competency



- In the absence of faculty (or resident) champion, this curriculum is unlikely to be successfully implemented



Future Directions at NEOMED

- Introduction of a formal QI curriculum as part of M4 "required" online elective
- Consideration of dissemination of this curriculum to other M3 clerkship sites supported centrally (perhaps via grant funding).



Future Directions at NEOMED

- Consideration of earlier introduction of this curriculum-limited by student's perception of the relevance of this information at that point in their training.

Conclusion

- A structured PCMH curriculum integrated in the Family Medicine clerkship rotation improves:
 - the knowledge;
 - student-perceived skills; and
 - attitude especially in QI.

Conclusion

- Empowering the students to recognize an area of need and having them apply the PDSA cycle made them more comfortable and willing to participate in QI projects.
- This also improved their knowledge of and experience with PCMH.

Conclusion

Successful implementation of innovative PCMH curricula is a key to preparing a workforce ready to practice in a new model of healthcare delivery. PCMH curriculum can enhance third-year medical student self-assessed knowledge of and attitudes toward PCMH.

-Collins L, et al, 2014

Conclusion

- The Future of Family Medicine report also recognized that the crucial characteristic of new model of care should be disseminated through curricula in family medicine residencies and clerkships.

- Jortberg BT, et al, 2014



Recommendations

- Looking at the effect of PCMH Curriculum on other educational goals can be evaluated in the future.
- Continuing the study to gather more data will be helpful and increase the power of the study.



Recommendations

- Recruiting medical students in other clerkship sites to test the validity and reliability.
- Administering the post-test to the medical students two months after they are done with the family medicine rotation to measure knowledge retention.



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Questions





Take Home Point



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