

CAN INTERPROFESSIONAL STUDENT TEAMS IMPACT PATIENT OUTCOMES? YES THEY CAN!

Derrick M. Garletts, MSN, MPH, RN, IU School of Nursing

Deanna L. Reising, PhD, RN, ACNS-BC, FNAP, ANEF, IU School of Nursing Kara

Bierbaum, RN, CCM, Indiana University Health – Bloomington

Douglas E. Carr, MD, FNAP, FACS, IU School of Medicine

Rebecca A. Feather, PhD, RN, NE-BC, Westerns Governors University













Conflicts of Interest & Disclosure

None of the presenters have indicated that they have any real or perceived vested interest that relate to this presentation. No sponsorship or commercial support was given to any author.













Objectives

- Identify the reasons for creating an interprofessional practice program for pre-licensure health professions students.
- Describe patient outcomes that are realized from student interprofessional education and practice programs













IPEP

- IPE is when 2 or more professions learn about, from and with each other to enable effective collaboration and improve health outcomes¹.
- IPP occurs when multiple healthcare workers from different professional backgrounds provide comprehensive health services by working with patients, their families, caregivers and communities to deliver the highest quality of care across settings².

¹WHO Report, 2010

² Framework for Action on Interprofessional Practice & Collaboration, WHO 2010







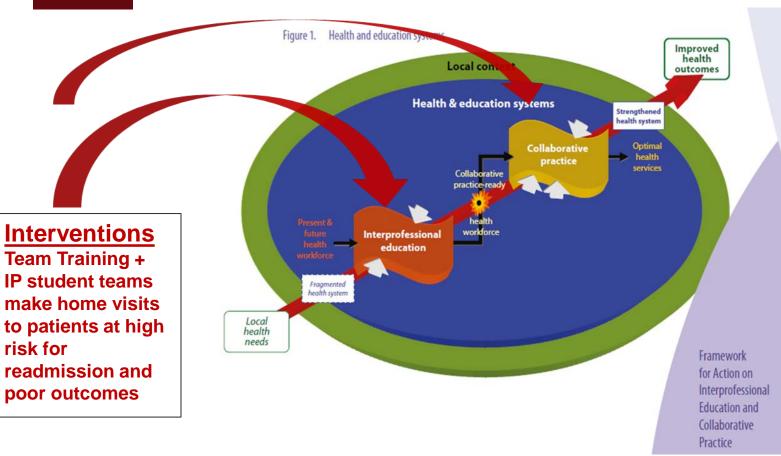






Vision





Expedited
Outcomes
Readmissions
Satisfaction
Quality
JIT
Modifications

World Health Organization (WHO) (2010). Framework for action on interprofessional education & collaborative practice. Geneva: World Health Organization. Retrieved from http://apps.who.int/iris/bitstream/10665/70185/1/WHO_HRH_HPN_10.3_eng.pdf?ua=1













Tools & Goals



http://www.hiteqcenter.org/About/TheTripleAim/TabId/126/ArtMID/739/ArticleID/15/TRIPLE-or-Quadruple-AIM.aspx













Navigator Program

IUSON faculty work with IUH Transitional Care Nurse Manager (TCNM) who sees patients high risk for readmission or negative event



TCNM screens patients, makes first visit, and gets consent



TCNM refers patients to IUSON who assigns student teams (2-3 students/team)



Student teams complete Transitional Care Report Tool



Student teams complete home visit with faculty supervising by iPad Facetime



Student teams negotiate visit with patient













History/Background

IPE Teams (Pre-licensed)

1-2 Senior Nursing; 1, 2nd year Medical

2014-2015

- 35 Teams; unsupervised
 - Fall, Spring

2015-2016

32 Teams; unsupervised in Fall only

2016-2017

36 Teams; supervised Fall and Spring

2017-2016

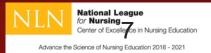
Fall: 29 Team Mixed; Spring 36 Teams













Care Provided/Goal of Visit

- ✓ Basic assessment
- ✓ Medication reconciliation
- ✓ Discharge plan of care gap analysis
- ✓ Plan for follow up provider appointments
- ✓ Create problem priority list













Student Evaluation

IUTCR

Indiana University Team Clinical Performance Rubric; (Feather, Carr, Garletts, Reising, 2017, JIC)

- Derived from IUSIR
 (Reising, Carr, Tieman, Feather, Ozdogan, 2015, NEP)
- 6 measures, novice-to expert, IPEC

Skill	Novice (1)	Competent (3)	Expert (5)	Team Score
Team support of Participant	Moments of silence frequent at meetings.	Team interaction varies with unclear organization for participant's needs.	Team connects with participant and encourages rapport.	
Team roles and responsibilities with Participant	Random conversations occur without established end goals.	Variance of roles with occasional ambiguity in roles and goals for the participant.	Clear perceptions of each person's role within the team at all times.	
Inter-Professional Communication with Participant	Negative silence is present on numerous occasions.	Some variance in communication level, not consistent with participant.	Listens and communications consistently as a team. Discuss, debate, disclose and respect demonstrated.	
Conflict Assessment with Participant	Confusion dominates team interactions with participant.	Goals are unclear at times, and environment varies. Participant unsure they are part of the team.	Positive goal definitions apparent for all team members. Established honest and safe environment for all team members.	
Team Function with Participant	Lack of collaboration is evident by silence and disagreement displayed by team members.	Varied or unclear expectations for all team members. Interaction confusing to participant.	Proper introductions and role identification. Established environment of respect and collaboration at all times. Challenges/concerns addressed proactively and solutions discussed.	
Collaborative Leadership among Team Members with Participant	Random conversations occur and dominate meetings without direction. Lack of teamwork, goal setting and collaborative decision-making.	Varied or unclear planning and decision making at times. Equal participation does not occur among all team members. Minimal teamwork, evaluation of goals and collaborative decision-making.	Planning and decisions occur through conversations that establish equal participant for all team members (including participant). Continuous quality improvement of teamwork for all, goals frequently reevaluated, collaborative decisions occur.	
Total Score	N/A	N/A	N/A	



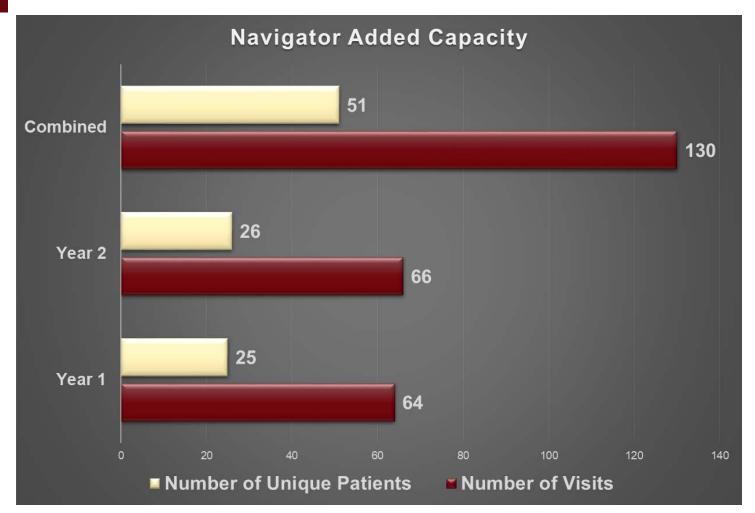








Patient Results-Capacity















Patient Results-Readmissions

30 DAY AND ALL READMISSION DATA

	Pre- Navigator Visits	During Navigator Visits	Post- Navigator Visits
Patients with 30	27.45%	1.96%	11.76%
day readmission	(14/51 patients)	(1/51 patients)	(6/51 patients)
Patients with any readmission	60.78% (31/51 patients)		31.37% (16/51 patients)













Intangible Results-"Bill"

Background

- PMH DM I, epilepsy, Bipolar, GAD, PUD, prostate CA,
 Hypothyroid, Hyperlipidemia, CHF, NSTEMI x2 with stents and angioplasty
- Self Administration of Medication
- Social Support System
- Housing/Food

First 2 visits – Normal Glucose

Next 2 visits – Hypoglycemia (59, 36)

Final Visit – Adjustments made













Show Me the \$\$\$

ROI Calculated as Cost Avoidance

2 Year Data

Of 51 unique patients:

- 50 did NOT have a 30-day readmission during visits
- 44 did NOT have 30-day readmission after visits

Conservative estimate: \$10,000 per 30-day readmission

\$40,000 investment for 0.2 FTE

Cost Avoidance

[(44 X \$10,000)-\$40,000] =

\$400,000





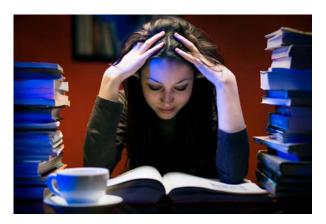




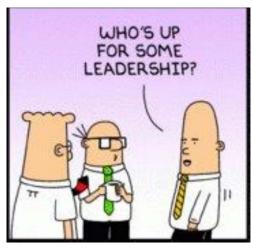




Challenges























Changes/Improvements

Safety

FaceTime w/iPads

Transitional Care Report

Turned in within 1 hour

Navigator Home Visit Reflection

- Focus area
 - Team Collaboration
 - Areas of improvement
 - Obtain KSAs













Expansion & Modification

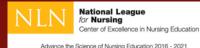
- ED Discharge Phone Calls spring 2017
- Changing Medicine Curriculum
 - Nursing students only fall 2017
 - Change from 2nd to 1st year medical students starting spring 2018
- Integrating with IU system core IPE curriculum













Innovative Clinical Strategy

Develops academic/practice partnerships

Students gain more insight

Pre-licensed health professional students

Expanding services/positive impact

Learn the value of the healthcare team













Questions

Contact:
Derrick Garletts
dmgarlet@indiana.edu









