

# Interprofessional Education

WVU Health Sciences

## Office of Interprofessional Education

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- **ACKNOWLEDGMENTS:**
- **West Virginia University's (WVU) Health Sciences Center (HSC) Interprofessional Task force report**
- **Dr. Christina DeBiase (Dentistry) and Dr. Rashida Khakoo (Medicine) co-chairs provided strategic plan**
- **HSC Chancellor, Dr. Christopher Colenda**

It's "scope" of practice!

More primary care !!

It's health professions education system

Team Training!!

Rope!

There is no problem our system is great!

It's the health delivery system!

It's the payment system!

# InterProfessional Education Defined

Interprofessional education occurs when learners from the health professions and related disciplines learn together about the concepts of health care and the provision of healthcare services toward improving the effectiveness and quality of healthcare

## Essential Elements:

- Collaboration
- Respectful communication
- Reflection
- Application of knowledge and skills
- Experience in interprofessional teams

# OUR FRAMEWORK: Core Competencies for Interprofessional Collaborative Practice



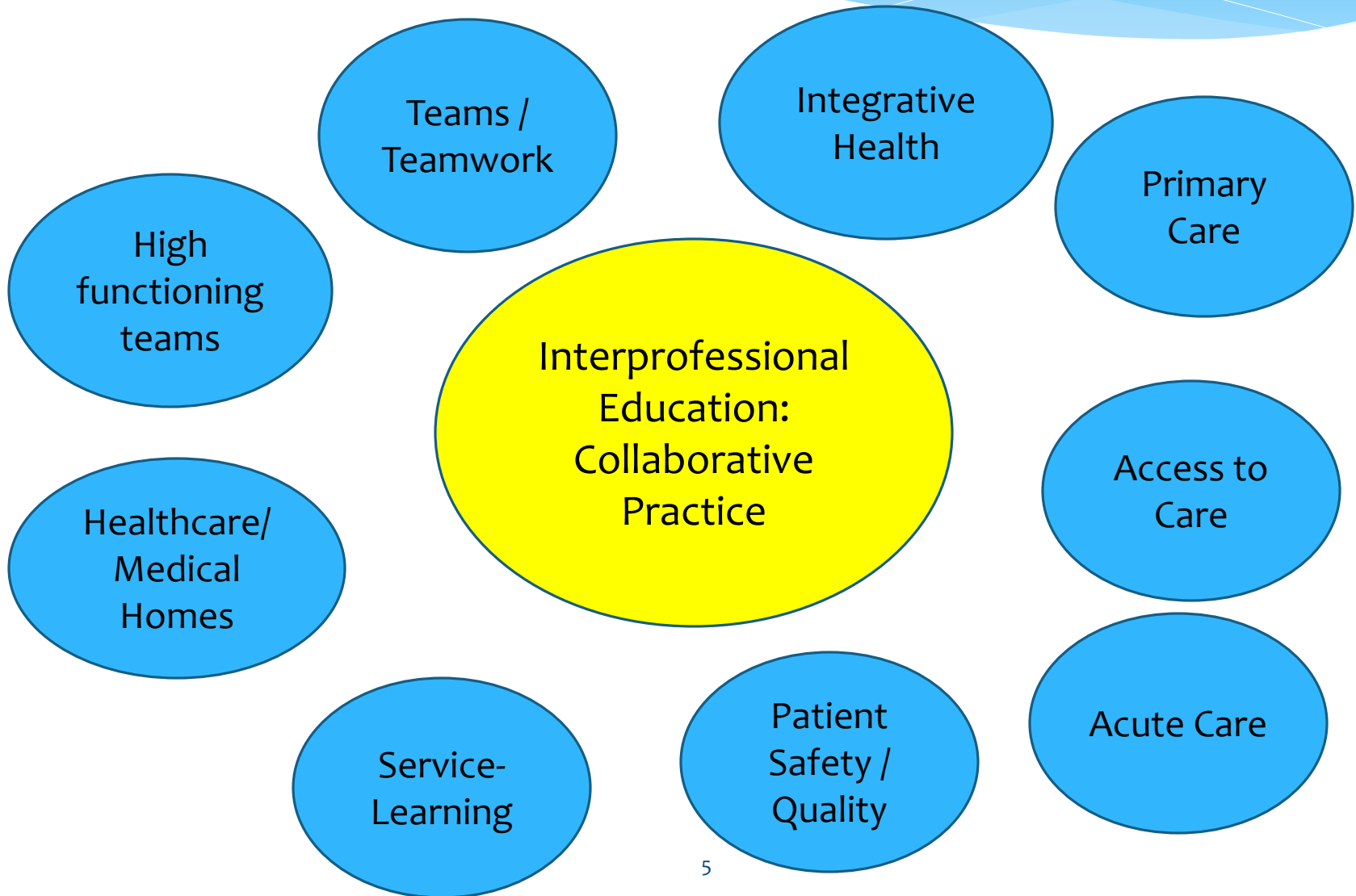
**Domain 1:**  
**Values/Ethics for  
IP Practice**

**Domain 2:**  
**Roles/Responsibilities**

**Domain 3: IP  
Communication**

**Domain 4: Teams  
and Teamwork**

# Where we want to be!



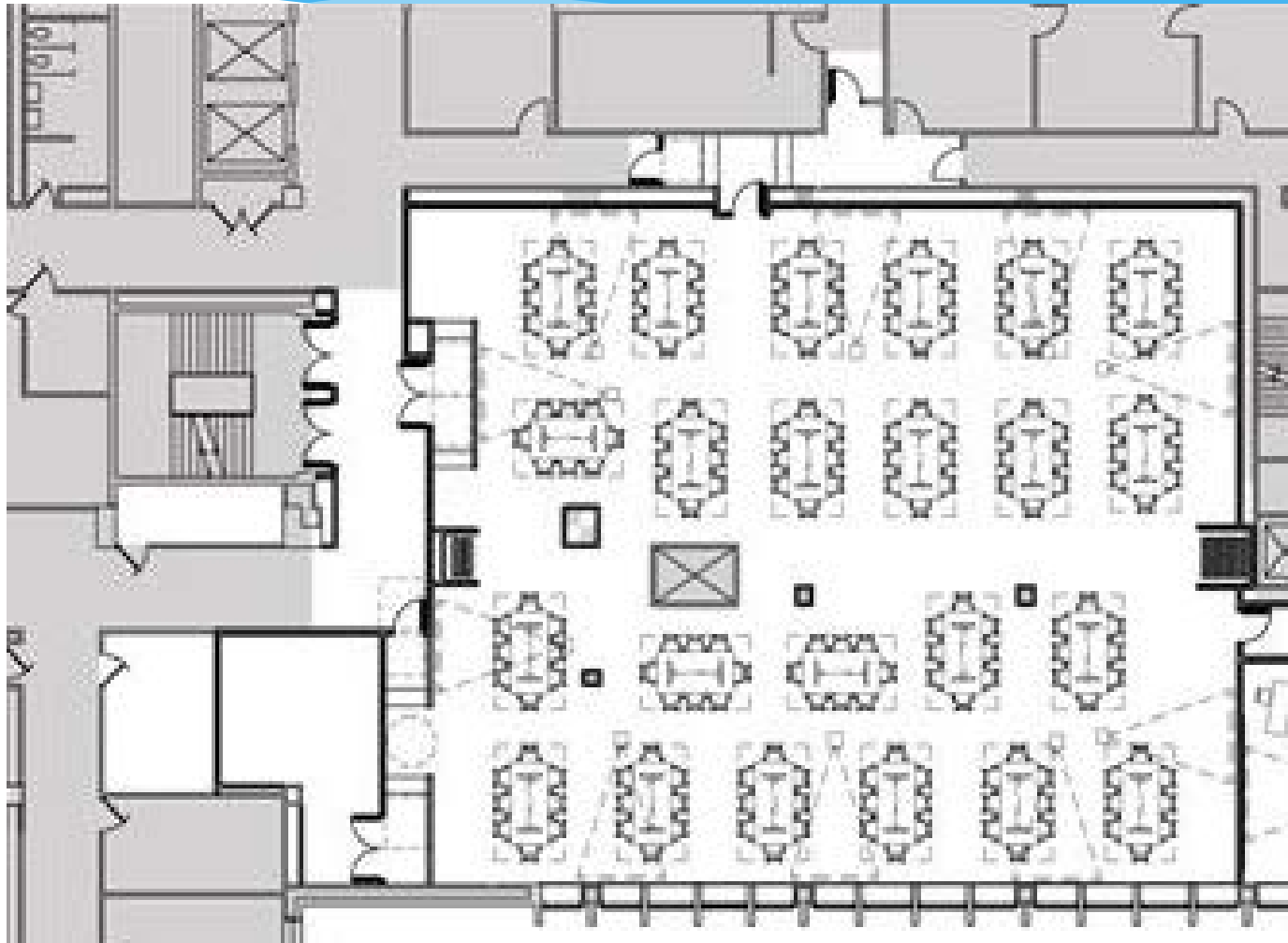
# We Use Simulation! – STEPS team



**Pictured L to R:**

**Dan Summers, RN, BSN, CEN, EMT-P, Director WV STEPS; Mary Warden, MD Assistant Professor SOM, Internal medicine, Transitional Year Program director; Gail VanVoorhis, MSN, RNC, Teaching Assistant Professor SON, Director for Simulation, Course Director for SSIH workshop, Mel Wright, MD, Associate Professor SOM, Pediatrics, Director Osteopathic Pediatric Residency Program,; David Wilks, MD, Professor SOM and Assistant Dean for Technology in Education**

# WE have 2 IPE Classrooms



# We have Global Health Initiatives

**Dr. Melanie Fisher - Director of WVU's Global Health Program and Director of the annual course in Clinical Tropical Medicine and Travelers' Health**

**Tropical Medicine Course - 8 weeks International Health elective,  
4 2-week rotations**

**Global Health Track within Medicine: PH/Med = summer courses**

**Global Health rotation in Brazil already includes med & dentistry**

**Guatemala – Feb 2014; Honduras – past rotations**

**Dr. Chris Martin –Director of *international* programs - WVU Health Sciences  
Amizade/WVU partnership: Brazil rotation – like Honduras**

**Dr. Beth Nardella – Ex. Physiology (part-time with Amizade) has Honors  
course that has traveled in May 2013 to Brazil;**

**April 2014: Pharm-Med-Dentistry multi-disciplinary course planned  
Partnerships with Middle-Eastern Universities including OMAN**



# Opportunities moving forward

**Launch grant program to incentivize IPE course/project development – grants to student/faculty/community teams**  
– Claude Worthington Bennedum Foundation funding - \$125,000

-- Donor designated funding - \$100,000

**Identify/develop faculty interested in IPE as mentors  
train-the-trainers model**

- \* April 30, 2014 WORKSHOP– introduction to skills that need to be developed; address common gaps; active learning
- \* Has Continuing Education to validate attendance
- \* Support for faculty workshop presenters as well as lead speakers – Macy Presidential grant proposal submitted November 2013

**Incorporate IPE into CTSI educational and research activities**

# Preparatory Accomplishments

- \* **Faculty Development program led by Dr. R. Khakoo included faculty from all programs starting in 1997**
- \* **A longitudinal Teaching Scholars Program started in 2000**
- \* **Academy of Excellence in Teaching and Learning - IPE Interest Group formed – 10/2009**
- \* **IPE Strategic Planning Committee initiated – 5/2010**
- \* **IPE Proposal sent to HSC Admin. – (Khakoo/DeBiase) 10/2011**
- \* **IPEC Institute team (Shelton, Abraham, Stamatakis, Woodfork, DeBiase)- October 15-17, 2012 in Atlanta, GA**
- \* **Summary IPE Report to HSC Administration – 12/2012**
- \* **IPE Director designated – Spring 2013**
- \* **IPE Classroom opened – Fall 2013**

# WVU HSC Office of Interprofessional Education

## Update from Academy of Excellence in Teaching and Learning and the School of Dentistry



# 2012-13 SoD Accomplishments

- \* IP Seminar on palliative care and end of life issues 3/2012 (medicine, dentistry, nursing, pharmacy, physical therapy and social work)
- \* Survey of IPE activities in HSC campuses 3/2012
- \* Go Red IP Outreach Program 10/2013
- \* Noon Hour Faculty Development Series on IPE in Teaching, Research and Service 2/2013
- \* My 1<sup>st</sup> Patient with SoP & SoM 8/2013
- \* Joint DDS/MPH and DDS/MBA degree programs

## **2012-13 Accomplishments - Scholarly Activity** **Interprofessional (IPE) Initiatives at WVUHSC**

- \* Poster session at the 2013 NAP Forum, Westin Alexandria, in Alexandria, Virginia, April 5, 2013**
- \* Poster session at the ADEA Commission on Change and Innovation (CCI) Summer Liaisons Meeting, Portland, Oregon, June 10-13, 2013**
- \* Poster session at the West Virginia Organization of Nurse Executives Fall Conference 2013,, November 7-8, 2013**
- \* Poster session at the 2012 ADEA Annual Session & Exhibition at the Hilton Bonnet Creek in Orlando, Florida: Raising Cultural Awareness through Interprofessional Engagement , March 17-21, 2012**
- \* *Abstract submitted for the 2014 ACGME Annual Educational Conference, National Harbor, Maryland, February 27-March 2, 2014***

# 2013-14 SoD Planned Initiatives

- \* Spring IPE Instructional Series
  - \* Cardinal Leadership inventory with Medicine
  - \* Health Disparities with other four schools
- \* Introduction to IPE in Appalachia: A Faculty Workshop – April 30, 2014
- \* Dual MSDH/MPH Degree program
- \* Sleep disorder course with Medicine
- \* Additional IP service learning experiences and educational opportunities

# WVU HSC Office of Interprofessional Education Update School of Medicine



# What we have to date Nov 2013

- \* **IP Seminar on palliative care and end of life issues 3/2012**  
(medicine, dentistry, nursing, pharmacy, physical therapy and social work)
- \* **Survey of IPE activities in HSC campuses 3/2012**
- \* **HRSA grant to Dr. D. Williams and Dr. J. Sperry to incorporate Communication in Health Professions Ed.**
- \* **Noon Hour Faculty Development Series on IPE in Teaching, Research and Service 2/2013**
- \* **My 1<sup>st</sup> Patient with SoD & SoP 8/2013**
- \* **Joint MD/MPH, MD/MBA and MD/JD degree programs**
- \* **IPE Simulations for MS3 – current & indevelopment**
- \* **IPE Diversity forum with SoD 8/2013**
- \* **Department of Medicine Grand Rounds – IPE 12/13**



# 2013-14 Planned Initiatives

- \* Spring IPE Instructional Series
  - \* Cardinal Leadership inventory with Dentistry
  - \* Communication with other four schools
- \* Introduction to IPE in Appalachia: A Faculty Workshop – April 30, 2014
- \* Additional IP service learning experiences and educational opportunities

# WVU HSC Office of Interprofessional Education Update

## From School of Medicine, Professional Programs



# 2012-13 Accomplishments

- \* Dr. Mandich and Dr. Utzman did a faculty development workshop on interprofessional teaching and scholarship on February 18<sup>th</sup>.
- \* Physical & Occupational Therapy students have always had some first year courses together. This year, an IPE assignment was added in fall semester.
- \* For third year PT & OT students, a new assignment examining technology and “apps” was incorporated as an interprofessional learning experience in the pediatrics class
- \* Occupational therapy worked with speech therapy on assistive technology
- \* PT & OT faculty lectured to students in special education

# What we have to date Nov 2013

- \* **Professional Programs chairs met in October and endorsed participation in IPE**
- \* **Not all programs will be able to participate in activities for Spring, 2014 – goal is for all program participation**
- \* **Professional Programs include:**
  - \* *Master's in Occupational Therapy*
  - \* *Doctorate in Physical Therapy*
  - \* *B.S./M.S. in Exercise Physiology*
  - \* *B.S. in Immunology and Medical Microbiology (new)*
  - \* *B.S. in Medical Laboratory Science (Clinical & Histo)*
  - \* *M.H.S. in Pathologist's Assistant*
- **Physical & occupational therapy students will participate in the spring, 2014 IPE seminars**
- **Faculty will participate in the April 30 IPE day**
- **Amy Burt, OT faculty member has volunteered to assemble an interest group for professional programs faculty members to discuss opportunities (some of which may not be at HSC)**

# WVU HSC Office of Interprofessional Education Update From the School of Nursing



# 2012-13 Accomplishments

- \* **IPE rounding simulation activity with Medical (MS3) and Pharmacy students**
  - \* **Groups of approximately 5-6 students “round” with one standardized outpatient and one high-fidelity simulation mannequin**
  - \* **The focus is on communication, teamwork, and awareness of roles**
  - \* **One faculty member from each discipline is present during the session**
  - \* **The activity has been very positively evaluated by students**

# 2012-13 Accomplishments

- \* **MUSHROOM (Multidisciplinary UnSheltered Homeless Relief Outreach of Morgantown)**
  - \* **Group of Health Care Professional (medicine, nursing, dentistry, social work) volunteers who make “street rounds” to attend to needs of homeless residents of Morgantown**
  - \* **Nursing and Medicine faculty bring students on rounds**
  - \* **This activity has been ongoing for several years, and nursing students attest to the value in participating in the rounding**

# 2012-13 Accomplishments

- \* **Susan Pinto (School of Nursing Faculty) coordinates twice monthly home visits provided by inter-professional teams of students (SON/SOM) to residents of the West Run Supportive Housing facility.**
- \* **Family NP students have clinical experiences at Morgantown HealthRight , working closely with Pharm D students in addressing medication issues for patients utilizing this free clinic. They discuss medication alternatives, patient education, etc.**



# 2013-14 Planned Initiatives

## Under Development:

- \* Translation of IPE “Rounding” activity to the Charleston Division
- \* Investigating the possibility of an IPE course in Integrative Healthcare/Complementary Therapies
- \* SON faculty is partnering with The School of Public Health for the IPE Conference in April 2014. In conjunction with the state AHEC, Sue Coyle is developing an IP seminar focusing on veterans' health

# WVU HSC Office of Interprofessional Education Update From School of Pharmacy



# 2012-13 Accomplishments

- \* **Simulated rounding experience**
  - \* In conjunction with SOM and SON
  - \* Groups of approximately 5 students interact with one standardized patient (bee sting/cellulitis) and one high-fidelity mannequin (ICU patient with pneumonia and stroke)
  - \* Primary focus on teamwork and communication skills
  - \* Students are secondarily evaluated on content with a pre-test and post-test
  - \* One faculty member from each discipline is present during the session

# 2012-13 Accomplishments

## Simulated Rounding Experience Results

### Inter-Professional Education (IPE) Attitudinal Survey (n=233)

|  | <b>Strongly Disagree</b> | <b>Disagree</b> | <b>Neutral</b>  | <b>Agree</b>    | <b>Strongly Agree</b> |
|--|--------------------------|-----------------|-----------------|-----------------|-----------------------|
| I enjoyed interacting with students from other disciplines.                      | <b>0 (0%)</b>            | <b>2 (1%)</b>   | <b>13 (6%)</b>  | <b>42 (18%)</b> | <b>176 (76%)</b>      |
| Heightened my awareness to the roles of other disciplines.                       | <b>0 (0%)</b>            | <b>5 (2%)</b>   | <b>18 (8%)</b>  | <b>41 (18%)</b> | <b>169 (73%)</b>      |
| My comfort level communicating with other health-care disciplines has increased. | <b>1 (0%)</b>            | <b>7 (3%)</b>   | <b>29 (12%)</b> | <b>68 (29%)</b> | <b>128 (55%)</b>      |
| This IPE experience was valuable for my professional growth.                     | <b>0 (0%)</b>            | <b>3 (1%)</b>   | <b>26 (11%)</b> | <b>55 (24%)</b> | <b>149 (64%)</b>      |

# 2012-13 Accomplishments

- \* **Year Long Service Learning Experience**
  - \* **Groups of 5 pharmacy students are paired with a community partner**
  - \* **Longitudinal development and implementation of a project that meet one or more goals of HP 2020**
  - \* **Student groups are required to work with at least one other discipline in the implementation of their project**
  - \* **Collaborated with 9 different disciplines on 18 projects**
    - \* **Nursing (8), Dentistry (6), Medicine (4), Education (2), Physical Education (1), Dietetics (1), Exercise Physiology (1), Physical Therapy (1)**

# 2012-13 Accomplishments

- \* **Anesthesia Pharmacology Simulation Experience with Pharmacy and Medical Students**
  - \* **Students:** 3<sup>rd</sup> year medical, 4<sup>th</sup> year pharmacy
  - \* **Objectives:** Observe and discuss the pharmacologic effects of drugs used in the perioperative setting
  - \* **Methods:** In the WV STEPS Simulation Center, manikins are given “injections” of various drug doses and students observe and record the onset and duration of effects (e.g., vital signs, pupillary dilation, muscle twitch).
  - \* **Students discuss the effects in light of expected pharmacodynamics and pharmacokinetics of the agents.**

# 2012-13 Accomplishments

- \* **Funding of the “My First Patient Program” by the Benedum Foundation**
  - \* **To provide health and behavioral self-awareness to first year health professional students**
  - \* **To use upper level students to provide care and promote skill development to first year health professional students**
  - \* **Participants to include pharmacy, medicine, and dentistry**

# 2013-14 Planned Initiatives

- **Implementation of My First Patient project (underway)**
  - \* **Participants**
    - \* 262 total first year students screened
      - \* 60 dental, 118 medicine, 84 pharmacy
    - \* 121 upper-level student providers
      - \* 54 dental, 24 medicine, 43 pharmacy
  - \* **Approximate results of the entering class**
    - \* 65% had some level of dental abnormalities
    - \* 33% were overweight/obese according to BMI
    - \* 48% pre-hypertensive or hypertensive
    - \* 3% current smokers



# 2013-14 Planned Initiatives

- Rounding experience expanded to Charleston Division
- Participation in spring IPE seminar series
- Potential expansion of My First Patient program to include additional disciplines
- Continuation of current service learning program
- Development of joint PharmD/MPH

# WVU HSC Office of Interprofessional Education Update From School of Public Health



# 2012-13 Accomplishments

## **Public Health Seminar:**

**Students work in teams to complete a year long, service learning project that meets goals of Healthy People 2020**

## **Public Health Grand Rounds :**

**Students view lectures with the opportunity to hear national public health leaders, faculty from Medicine, Nursing, Pharmacy, Public Health and guests from state and local health departments.**

# 2012-13 Accomplishments

## **Public Health Grand Rounds:**

**CPH/CME/CE Continuing Education program with continuing education credits for certified in public health, physicians, nurses, dentists, pharmacists, public health practitioners.**

## **October 16, 2013 Public health grand Rounds:**

- \* Importance of Inter Professional Education (IPE)/Interprofessional Collaborative Practice (ICP) for Addressing the Health Care Needs of Populations.**
- \* CPH/CME/CE Continuing Education program with continuing education credits for public health practitioners, physicians, nurses, dentists, pharmacists**

# 2012-13 Accomplishments

## **Joint MD/MPH Programs:**

**Existing Established MD/MPH Programs with graduates in both programs**

- \* Combined MD/MPH program**
- \* Public Health Track MD/MPH program**

## **Joint DDS/MPH Program:**

**New Memorandum of Understanding (MOU) completed, signed by Deans, Chancellor**

## **Joint MPH/MBA Program:**

**New Memorandum of Understanding (MOU) completed, signed by Deans, Chancellor, and Provost**

# 2013-14 Planned Initiatives

## Under Development:

- \* Dual Degree MPH Programs with Pharmacy, Physical Therapy, Behavioral Medicine, Nursing, PhD Clinical Psychology, Social Work, MS Dental Hygiene
- \* SPH is a partner for the IPE Conference in April 2014
- \* SPH students will participate in Spring topical seminars

## CHALLENGES:

- IPE activities/courses could be created for students in joint degree programs but numbers may be so small that may not result in meaningful learning experiences
- Online modules could be created for didactic coursework but Resources will be needed for online module development
- \* Scheduling of small groups will be difficult

# SUMMARY

## Challenges moving forward

- \* **Implementation of a new PharmD curriculum in fall 2015 (challenge but also an opportunity)**
- \* **Nursing PhD students are only “in residence” during 6 weeks of the summer semester, limiting the possibility of participating in “core” doctoral coursework with other PhD students.**
- \* **The undergraduate nursing program offers “rolling” enrollment, meaning that if all students are to participate in an IPE activity, it would need to be provided in both fall and spring semesters.**
- \* **Need to be creative to involve Nursing and other graduate students in IPE, due to the on-line nature of the programs, which differs among HSC schools.**

# Challenges moving forward

- \* **How to incorporate ALL the professional programs, especially exercise science (large program with 600 or more students) and the laboratory sciences (which often provide info to care teams)**
- \* **Space in the curriculum – required or elective courses?**
- \* **Physical space for IPE activities (improving, but still a challenge, particularly in the STEPS Simulation Center, - the new IPE space is already reaching maximum utilization, esp. for problem-based learning courses )**



# Challenges moving forward

- \* Scheduling across Schools
- \* Tracking service learning IP projects
- \* Simulating interprofessional practice in a meaningful way
- \* **Assessing** students' performance in IPE
- \* Incentivizing faculty for their contributions to IPE

**PLEASE SEND US YOUR THOUGHTS**

**– THANK YOU**