Achieving Mile-High Goals with Innovative Strategies for Clinical Education

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Part I - Interprofessional Education: Building Blocks for Successful Collaboration in the Clinical Setting

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Objectives

- Discuss the importance of IPE in training of future health care professionals
- Present examples of IPE curriculum at our institution
- Discuss supportive mechanisms to promote IPE and IPCP in the clinical setting

Common Language

Interprofessional Education (IPE):

When students from two or more professions learn about, from and with each other to enable effective collaboration and improve health outcomes (WHO, 2010)

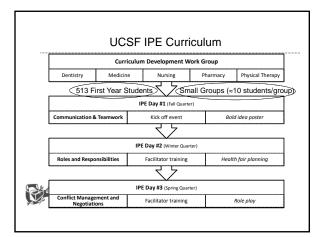
Interprofessional Collaborative Practice (IPCP):

When multiple health workers from different professional backgrounds work together with patients, families, carers, and communities to deliver the highest quality of care (WHO, 2010)

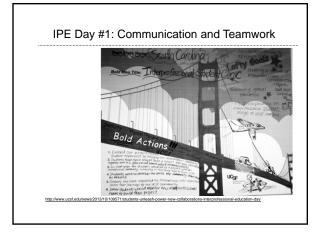
Competencies		
IOM's Report: The Future of Nursing, 2010		
NONPF NP Core Competencies, 2011		
IPEC Core Competencies for Interprofessional Collaborative Practice, 2011		
Competency Domain 1: Values/Eth	hics for Interprofessional Practice (VE)	
Competency Domain 2: Roles/Res	ponsibilities (RR)	
Competency Domain 3: Interprofe	essional Communication (CC)	
Competency Domain 4: Teams and	d Teamwork (TT)	
Competency Domain 2: Roles/Responsibilities (RR) Competency Domain 3: Interprofessional Communication (CC)		

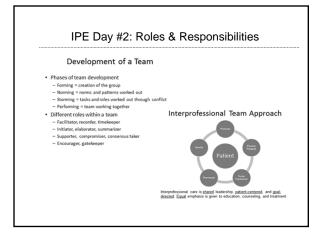
IPEC Competencies Selected

- VE5: Work in cooperation with those who receive care, those who provide care, and others who contribute to or support the delivery of prevention and health services.
- CC3: Express one's knowledge and opinions to colleagues from different professions involved in patient care with confidence, clarity, and respect, working to ensure common understanding of information and treatment and care decisions.
- TT5: Apply leadership practices that support collaborative practice and team effectiveness.
- TTT: Share accountability with other professions, patients, and communities for outcome relevant to prevention and health care.
- TT10: Use available evidence to inform effective interprofessional collaboration in the delivery of patient care.

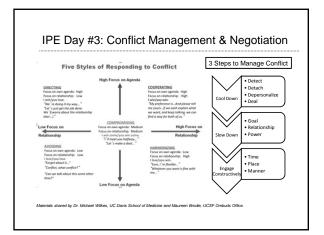














Lessons learned...

- Students most interested in other profession's training, scope of practice, and roles and responsibilities
- Students want a social gathering to simply get to know each other
- Students want real life clinical examples
- Facilitators benefited from training on small group facilitation, particularly with early learners from multiple professions
- Next Phase: Flipped classroom with use of MOOC paired with face-to-face sessions for application of skills

IP Standardized Patient Exercises (ISPE)

- Students from Dentistry, Medicine, Nursing, Pharmacy, Physical Therapy, Social Work & Nutrition – teams of 4
- Group interview of a standardized patient (older adult with comorbidities who fell)
- IP team formulates a collaborative comprehensive treatment plan
 Standardized patient provides feedback on team
 - Standardized patient provides feedback on team communication/professionalism skills
- Faculty-led debrief
- Learners complete survey (Attitude Toward Health Care Teams)
 - improved attitudes towards team efficiency and team value
 - learned about other professional roles
 - increased comfort working collaboratively on IP teams

Wamsley et al. Journal of Interprofessional Care 2012. Funding support from UCSF Instructional Grants Prog

Family Connections IP Community Service Learning Project The project utilized community-participatory principles and Plan-Do-Study-Act (PDSA) Cycles, supported interprofessional training and collaborations between PNP students and Pediatric residents, and implemented evidence-based strategies to develop culturally-sensitive injury prevention programs at Family Connections, a family resource center. Also preserved in English Chinese Spanish African American 4% 2 or more nices 5% Topics (delivered in Eng 1. Food Safety 2. Home Safety ish) Dem graphics 0thes 11% Whit, 6% Targeted Audience Caretakers of the young children (0-5 yr) School-age Children (6-12 yr) Femilv Connections Staff Transfer . Sample Learner Reflections "I have learned to be extremely patient, flexible, and culturally considerate while working with a diverse group of students, faculty, staff, children, caregivers, and other shareholders." "Working inter professionally was a very rewarding experience. Though coordinating schedules was a little tricky, everyone was very committed and it was helpful to understand how similar our perspectives are as pediatric providers from different approaches, even if our focuses differ some." Funded by University of California San Francisco University Community Partnership Grant

Preceptors' Preparation for IPE/IPCP

- Minimal data in the literature on role of preceptor who works with trainees from other professions
- Ethnographic observational pilot study on preceptors (MD and NP) who work with NP students and medical trainees (medical students/residents)
- Preceptors in support of training learners from other professions
- Preceptors want faculty development on best practices in working with trainees from other professions
- Many variables to support or inhibit the deliberate teaching of
 IPCP
 - Logistical
 - EnvironmentalTechnical



Faculty Development

- □ IPCP training
- Curriculum & scope of practice of other professions
- Facilitation skills to stimulate IPCP in the clinical setting
- Role model IPCP behaviors
- □ Role of IPE/IPCP Champion



Recommendations

- 1. Provide foundational skills for learners and faculty preceptors
 - ✓ Values and ethics for IP practice
 - \checkmark Knowledge of roles and responsibilities
 - ✓ Communication
 - ✓ Teamwork
- 2. Provide opportunities for skills application
 - ✓ Small group settings
 - ✓ Simulation
 - ✓ IP service learning projects
 - ✓ IP clinical opportunities
 - Facilitated debrief
 - Reflection

Part II - Leveraging Community Partnerships: Everybody Wins

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Objectives

- Discuss the current challenges clinical programs face in finding suitable placements for trainees
- Review an example of a grant-based academiccommunity partnership that provides benefits to both clinical agencies as well as students and faculty
- Consider how such a relationship might work for your institution and what first steps could help in creating such a partnership

The Challenge

- Clinical agencies face increasing demands in the current economic climate
- Decreased staffing and increased productivity expectations result in more and more agencies reducing the number of trainees they will accept for precepting, or closing their doors completely
- Given these challenges, NP training programs are constantly charged with finding creative ways to incentivize the clinical placement process for agencies and preceptors

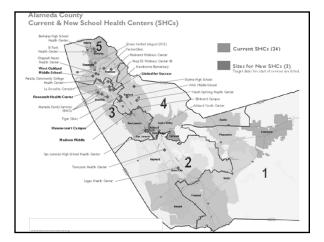
The UC San Francisco-Elev8 Healthy Students & Families Grant

Awarded by Atlantic Philanthropies from 6/11-6/14 to work with Oakland Elev8 Middle School Project to:

improve the health and future lives of children promote healthy families from underserved urban communities

develop replicable health and education models for school-based care Elements of partnership:

UCSF Schools of Nursing and Dentistry Faculty and trainee participation in SBHC activities through practice and service-learning opportunities





UCSF-Community Partnership: Meeting the Needs of Both Sides		
University	Community Clinic	
 Clinical training programs (eg Nursing, Dentistry) 	Provision of Services	
need community sites	Marketing and Outreach	
 Faculty practice Student practicums 	School Integration	
 Student practiculits Student QI projects 	Funding/Billing	
 University mission to impact health in underserved communities 	•	

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Provision of Services

Nurse practitioner faculty from UCSF staff 4 SBHCs at one half-day per week, year-round

Each faculty member precepts one NP student (PNP or FNP)

Additional clinical experiences are done throughout the year with groups of students, to support mass screenings

> Sports PEs STI screening Oral health

Screening Campaign Examples

Oral health screenings & fluoride varnish application: 1300 visits - 3 sites - 4 days

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"Get Yourself Tested" Campaign for teen STI and oral health screening - 1 site - 3 days

- 276 medical visits
- 169 dental visits
- Sports Physicals for School Teams
- 45 visits 1 site 3 days

Mostly billable visits!!

Additional Learning Opportunities

- Students complete pre and post reflections for any experience at one of the school-based health centers
- Aim to collect data re: students' perceptions and experiences working with underserved youth in this unique setting
- Provides the student an opportunity to further process clinical experiences

Assistance with Sustainability

- Mass screening/interventions maximize billing by precepting multiple students
- Dissemination of evidence-based guidelines and best practices (including maximizing billing) through faculty-led trainings involving various sponsor organizations
- Joint grant applications, or use of student projects to assist in grantwriting

Marketing and Outreach

Faculty/trainees improve SBHC visibility through publication and presentation

- 2 posters presented
- 6 presentations at state and national conferences
- 2 publications

Pediatric and Adolescent health care

Collection/evaluation of data can be used to promote SBHCs and/or request funding

 Student QI project used as lit review for grant application

School Integration

Utilization of students in classroom-based health education curricula

NP student leadership projects:

- Oral health resources and education
- Integration of SBHC into school support services teams
- Development of bilingual low cost physical activity resource list by zip code
- MDI access program for undocumented pts with asthma
- BMI measurements of entire school
- Group obesity interventions

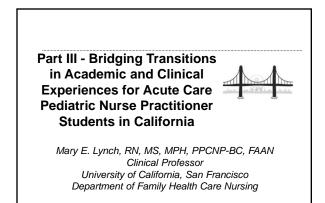
Can this work for you?

Consider the community agencies in your area that might benefit from collaboration with your program

 Don't underestimate your geographical reach – distance experiences may work for a variety of students, and may provide more community partners who are available and interested

Not everyone has grant funding

- Talk with the community organization to see what is feasible – ie providing reimbursement for faculty time (eg per diem salary)
- Plant the seeds so that when they are writing for grants, they include you



Objectives

- Discuss the need to prepare future Acute Care Pediatric Nurse Practitioners (ACPNPs) as transition agents for children with complex health conditions.
- Analyze the facilitators and barriers to the academic and clinical preparation of ACPNPs to function as transition agents for children with complex health conditions.
- Discuss the benefits of academic collaboration in supporting the next generation of Advanced Practice Nurses.

Population Challenge: Acutely, Chronically and Critically III Children

- Growing number of children with complex health conditions and prolonged health care needs
- Increased survivability for infants and children with complex health conditions but challenging sustainability and quality of life
- Challenging transitions particularly within health care settings and at discharge
- Increased need for health care coordination to plan and support transitions

Supporting Health Care Transitions for Children With Complex Health Conditions



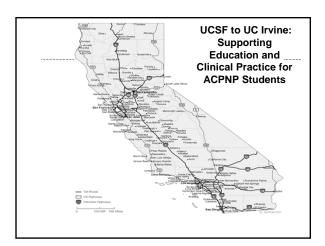
care-unit/story-e6frf7io-122579



http://www.timesofmalta.com/articles/view/20110920/healthfitness/Millions-of-children-at-risk-of-dying-from-preventable diseases.385755

Complex Pediatric Conditions & Care Transitions: Complex Transitions Grant

- HRSA Funded Advanced Education in Nursing Grant (7/11-6/14):
 - Reduce barriers and increase access to transitional care by increasing the number, diversity and distribution of future ACPNPs prepared to meet health care transitions for children with complex health conditions
 - Enhance knowledge, skills and competencies of ACPNPs by providing education and training focusing on transitions in age/development, acuity, and/or environment for health care
 - Reduce health care disparities by targeting gaps in health care service delivery during transitions
 - Create linkages for education and training of ACPNPs throughout California by developing new clinical sites and preceptors supporting transitional care



Facilitators and Barriers: Academic & Clinical Preparation of Transition Agents as ACPNPs

Facilitators: Belief that "we could do this work well"

- Strong commitment by both schools of nursing to achieve goals
- Growing applicant pool
- Commitment to support technological linkages to facilitate access to course content
- Changes in clinical practice supporting transitional care
- Barriers: Unexpected economic challenges
 - · Challenges with technology: Faculty and students
 - Challenges in accessing clinical sites
 - Preceptor confusion with changing role





What Have We Learned? What Has Changed?

- There is a crucial need to facilitate transitions for children with complex health conditions
- Changes in health care financing necessitate smooth transitions and will require future APNs to function as transition agents
- Gaps continue to exist during transitions in health care and increase the risk of complications, readmissions and increased costs
- New models of transitional care are developing but transitions from pediatric to adult care continue to be fraught with discontinuity



Collaboration: Transitions in Working Together



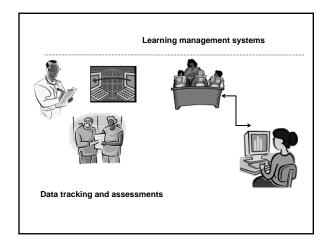
http://www.geography.org.uk/resources/communitycohesion/

Part IV - Utilizing technology effectively: Complementary strategies to support clinical training for APRN learners

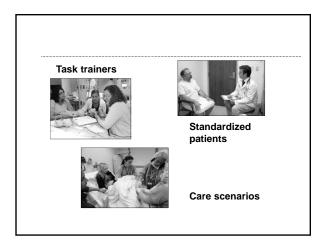
> Annette Carley NNP PNP Clinical Professor

Objectives

- Understand and be able to identify literature support for technology-based virtual experiences to support learner skill building and self-efficacy
- 2. Describe use of a virtual learning site to support an ACPNP curriculum







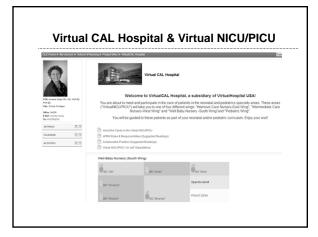
Literature support

Urgent care issues and new role expectations are sources of stress for novice providers (Cusson & Strange, 2008; Schwind et al, 2011)

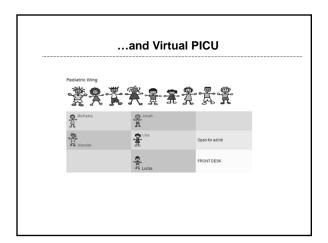
Simulation-based learning (including virtual experiences) can support low-stakes acquisition of essential skills (Galloway, 2009; Sanford, 2010; Scherer et al, 2003) such as critical thinking and decision making (Guhde, 2010; Bolick et al, 2012; Hoffman, 2008), competence (Schwind et al, 2011) and confidence and self-efficacy (Plant et al, 2011; Schwind et al, 2011)

Can a simulation-based strategy developed within the Moodle LMS™ support APRN skill building and self-efficacy?

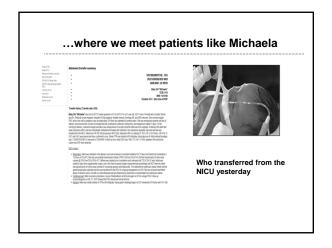
Introducing Virtual NICU/PICU







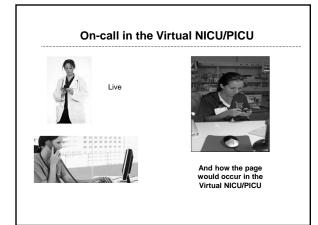


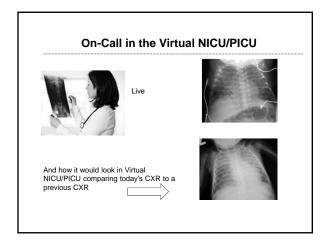


On-Call in the Virtual NICU/PICU

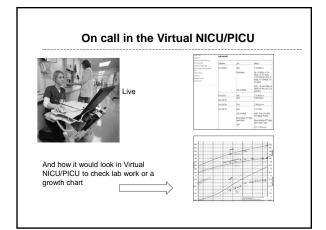
Student has responsibility for "coverage" of a cohort of virtual patients

Ongoing messages via texting and discussion postings into the Virtual NICU/PICU site within Moodle LMS[™] to mimic the on-call experience

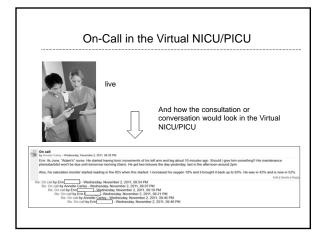














Can the On-Call experience support skills such as clinical reasoning...and most importantly support confidence in readiness for practice and self efficacy?

preliminary data suggested trend toward enhanced selfefficacy; will be retested with larger sample this year

Thank You!

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