A Competent Workforce: Measuring Community/Public Health Nurses' Knowledge, Skills, and Attitudes of Public Health Nursing Competencies RACHELLE COLLINGE, MPH, RN CENTER FOR LOCAL PUBLIC HEALTH SERVICES MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES ASSOCIATION OF PUBLIC HEALTH NURSES ANNUAL CONFERENCE MAY 1, 2018

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Describe the demographics of practicing community/public health nurses. Identify the knowledge, skills and attitudes (K/S/A) of community/public health nurses utilizing the Quad Council Competencies of Public Health Nursing. Determine the difference among knowledge, skills and attitudes (K/S/A) of practicing community/public health nurses for each competency domain of the Quad Council Competencies for Public Health Nursing. Describe activities to increase community/public health nurses' knowledge of Quad Council Competencies of Public Health Nursing and the competencies' use for workforce development.



An inquiring mind asked.... 1. "Is anyone using a competency based community/public health nursing clinical evaluation tool?" 2. "Can concept based education strengthen knowledge, skills and attitudes of nursing and health profession students utilizing population health competencies?" > Manica iamon, MSH, MPH, RN pased this question on the ACHNE statery (1/23/13)

Our Multi-Site Goals
 Develop a clinical evaluation tool (CET) based on the 2011 Tier 1 Quad Council Competencies for Public Health Nursing.
 Educate and evaluate faculty and practicing nurses on the 2011 Quad Council Competencies for Public Health Nursing.
 Increase use of the 2011 Quad Council Competencies for Public Health Nursing to guide population health focused education, practice, research, and policies.
 Evaluate student and professional nurses' knowledge, skill and behavior (attitude) related to the 2011 Quad Council Competencies for Public Health Nursing.





Current Challenges Lack of awareness of common set of standards, competencies, resources, and tools Current practice may not have the mechanism to operationalize them (benchmarks) Multiple settings and outcomes for practicing PHNs and C/PHN students Developing the next generation of PHN workforce

Core Competencies in Population Health Nursing Practice

Significance for the Research

APHA

ACHNE

Council

Coun

Quad Council Coalition Public
Health Nursing Competencies

OCCPHN (2011) represent the continuum of evolving PHN roles, responsibilities, and functions as differentiated by three fiers of competence

Fier 1 Core Competencies
Applies to generalist PHNs not in management positions
Fier 2 Core Competencies
Applies to PHNs with an array of responsibilities including program implementation and management/supervisory

Tier 3 Core Competencies
Applies to PHNs at an executive/senior management and leadership levels in PH organizations

Quad Council Competencies for Public Health Nurses Domains					
Domain 1: Analytic and Assessment	Domain 5: Community Dimensions of Practice				
Domain 2: Policy Development/Program Planning Skills	Domain 6: Public Health Science Skills				
Domain 3: Communication Skills	Domain 7: Financial Planning & Management Skills				
Domain 4: Cultural Competencies Skills	Domain 8: Leadership and System Thinking Skills				

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Professional Competency	

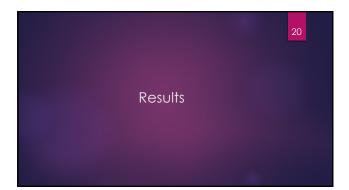
Competency Note: "An individual who demonstrates competence is performing at an expected level" and "competency is an expected level of performance that integrates knowledge, skills, abilities, and judgment" (ANA Leadership™, 2013, p. 3).

Differentiating Competencies & 16 Learning Objectives						
Competencies	Learning Objectives					
Define applied skills & knowledge	Specific to a course of instruction					
Relevant to an individual's job responsibilities, roles & capabilities	Describe what the learner should be able to achieve at the end of the learning period					
Verify that a learner has learned what was intended in the learning objectives	Should be specific, measurable statements written in behavioral terms					
How we are certain learners know what they have learned?	What we want learners to know?					
	Anderson, L. W., & Krathwohl, D. R., 200					

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Research Hypotheses 17
There will be no significant difference in K/S/A of public health nursing [PHN] competencies among PHNs practicing in a government agency based on nursing specialty preparation, years of nursing experience and years of PHN experience.
There will be no significant difference in application of PHN competencies in clinical practice of PHNs based on nursing specialty preparation, years of nursing experience and years of PHN experience.
There will be no significant difference among K/S/A of PHN competencies in PHNs for each of the competency domains.

Methodology 18
Data Collection
Researcher developed a two-part survey questionnaire
*Demographics
Public Health Nursing Competency Instrument (Reckinger, Cross, Block, Josten & Savik, 2013)
 Included 76 PHN competencies with a five-point response that elicited K/S/A
 Use of online data collection: Survey Monkey

Demographic Data N= 308 Knowledge of QCCPHN - 38% (N=118) had none ~ 20% (N=61) to had minimal Education - 40% (N=135)w/BSN; ~24% (N=73)w/MSN, MPH Certified - ~79% (N=233) were not certified Years of Experience - 60% (N=183) had greater than 21 years Years of Experience C/P/PHN - 28% (N=86) had greater than 21 yrs. Position Title - 44% (N=136) PHN Job Function - Communicable disease (~50%, N=146); Immunizations (~47%, N=141) Setting - County Health Departments - 66% (N=200)



Knowledge								
Public Health Nurses	Knowledge	Sum of Squares	df	Mean Square	F	Sig		
Nursing Experience	Between Groups Within Groups Total	1472.351 381226.600 382698.951	5 299 304	294.470 1275.005	.231	.949		
C/PH Experience	Between Groups Within Groups Total	15651.123 367048.668 382699.791	5 300 305	3130.225 1223.496	2.25	<u>.028</u>		
Specialty Preparation	Between Groups Within Groups Total	8530.245 359373.088 367903.333	5 288 293	1706.049 1247.823	1.36	.237		

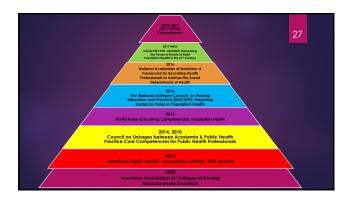
SKILLS							
Public Health Nurses	Skills	Sum of Squares	df	Mean Square	F	Sig	
Nursing Experience	Between Groups Within Groups Total	3173.277 323434.736 326608.013	5 299 304	634.655 1081.722	.587	.710	
C/PH Experience	Between Groups Within Groups Total	9492.984 317123.251 326616.235	5 300 305	1898.597 1057.078	1.796	.113	
Specialty Preparation	Between Groups Within Groups Total	14998.682 297330.029 312328.711	5 288 293	2999.736 1032.396	2.906	.014	

	Attitudes							
Public Health Nurses	Attitudes	Sum of Squares	df	Mean Square	F	Sig		
Nursing Experience	Between Groups Within Groups Total	3215,324 102976,928 106192,252	5 300 305	643.065 343.256	1.873	.099		
C/PH Experience	Between Groups Within Groups Total	2098.114 104352.336 106450.450	5 301 306	491.623 346.686	1.210	.304		
Specialty Preparation	Between Groups Within Groups Total	626.340 104720.487 105346.827	5 289 294	125.268	.346	.885		

Application						
Public Health Nurses	Application	Sum of Squares	df	Mean Square	F	Sig
Nursing Experience	Between Groups Within Groups Total	3393.199 332253.555 335646754	5 299 304	678.640 1111.216	.611	.692
C/PH Experience	Between Groups Within Groups Total	7179.817 328901.022 336080.840	5 300 305	1435.963 1096.337	1.310	.260
Specialty Preparation	Between Groups Within Groups Total	19379.185 315455.075 334834.260	8 295 303	2422.398 1069.339	2.265	.023







Strategies to Reinforce Lifelong Learning

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- ▶ Knowledge Dissemination
- Collaboration (Intraprofessional and transdisciplinary)
- ▶ Integration of PHN Competencies in Education, Practice, Research, & Policy Development
- ➤ Strengthening the Influence of PHN Competencies in Population-Focused Health Care Delivery

Knowledge Dissemination

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Presentations

- Local: Multi-site Universities and Nursing Departments, Kansas State Nurses Association, Zeta Theta Chapter at Large, Sigma Theta Tau, International
- National: AACN, ACHNE, NBNA, APHA, APHN, webinar-learning communities
- International: Global PHN Network, CUGH

Manuscripts

- Amplifying the Impact (Editorial, Public Health Nursing, 2015)
- Global Health & Interprofessional Competency Analysis (Annals of Global Health, August, 2017)
- $\diamond\,$ Phase One: (Faculty) Manuscript In Press (Public Health Nursing, 2018)
- $\diamond\,$ Phase Two: (PHNs) Manuscript in Progress (Public Health Nursing)
- Quality Improvement Manuscript in Progress (Nurse Educator

Recommendations for Professional Nursing Practice

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- Continuation of professional development focused on QCC Competencies for practicing nurses and health care team.
- Application of QCC Competencies in the practice setting for rigorous and robust population-focused care.
- Utilization of QCC Competencies for orientation, evaluation, & career ladder programs for practicing nurses regardless of nursing specialty.
- Assurance of preceptors/clinical faculty fluent in population-focused practice and QCC Competencies.
- ▶ Enhancement of collaboration and partnerships between nursing education and clinical practice sites based upon QCC Competencies.

Strengthening the Influence of Quad Council Competencies for Professional Nurses in Education, Practice, Research, & Policy will: Improve population-focused care and population health. Recognize common standards to be used in academia, practice, research, and policy. Promote a unified front of health care professionals and educators committed to QCC Competencies in CPHN practice across Tiers, research activities, and population-focused policies. Prepare current and future nurses to be transformative and meet expanding challenges of 21½ century health care delivery systems. Advance cycle of the academic and professional pipelines to constantly enhance the inclusion and utilization of QCC Competencies.

Summary

Improve population-focused care, population health, and community-based networks locally and globally.

Assure that universal common standards are in place to be utilized by academia, practice, and research to inform health care policies and health professions education.

<u>Re-examine, re-focus,</u> and <u>re-design</u> PHN practice, education, research, and policy to address the challenges of 21st century health care delivery systems locally and globally.

