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Acknowledgement

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Background

- Current Nurse Practitioner (NP) education is both MSN and DNP
- Competency-based education (CBE) has been recommended for nurse practitioner (NP) education.
- To implement CBE the core competencies NPs need to obtain must be reduced and refined.

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Significance

- CBE has been implemented in various health care professions and has been recommended for nursing
- Various health-related organizations have defined 354 core competencies for Advanced Practice Registered Nurses (APRNs)
- Current core competencies are weakly aligned with NP practice
- Competencies should reflect workforce needs

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Purpose

- Refine and reduce redundancy in core APRN competencies
 - Utilized National Organization of Nurse Practitioner Faculties (NONPF) 2017 NP Core Competencies and American Association of Colleges of Nursing (AACN) 2006 Essentials of Doctoral Education for Advanced Nursing Practice and 2017 Common Advanced Practice Registered Nurse Doctoral-Level Competencies
- Assure NP core competencies are relevant as well as clear and measurable

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Research Questions

- What are the core competencies necessary for entry into independent NP practice as a DNP?
- Are the necessary competencies clear and measurable?

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Methodology

- Delphi approach
 - Allows discussion and judgment on a topic without interpersonal interaction which can create bias and conflict
 - Collect a group of experts' opinion to reach consensus through a series of questionnaires that build upon each other

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Design, Setting, Sample

- Questionnaires administered electronically utilizing Qualtrics
- Sample is a selected panel of individuals that are perceived to have expertise in NP education and practice
 - · Recruited with assistance of NONPF
 - Individuals nominated to be on the panel
 - Invitation to participate sent by researcher with study details

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Inclusion Criteria

- 1) employed in the U.S.
- 2) able to read and write in English
- 3) and either
 - 1) faculty with a minimum of three years of experience in a BSN-DNP program;
 - 2) actively practicing NP clinician educated as a DNP with a minimum of five years of experience; or
 - 3) recent BSN-DNP program graduate whom has been employed as a NP full-time for 6-18 months

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Panel

- 60 nominees sent invitation to participate
 - 37 BSN-DNP faculty
 - 13 actively practicing NPs with 5 years experience as DNP
 - 7 new BSN-DNP graduates practicing as NPs
- 37 consented to participate
 - 16 never responded
 - 7 declined or did not meet inclusion criteria

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Data Collection

- Researcher devised questionnaire based on NP core competencies with a focus on evaluation to gain consensus
 - NONPF Core Competencies (NONPF, 2017)
 - The Essentials of Doctoral Education for Advanced Practice Nursing (AACN, 2006), and
 - Common APRN Doctoral-Level Competencies (AACN, 2017)

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Round One

- First round presented the 139 different NP core core competencies randomly
 - Pilot testing done
- Rate competencies for:
 - Relevancy (1-4 scale)
- Option to add comments and additional recommended competencies

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Round Two

- Developed based on results of round 1 analysis
- Competencies were grouped together by a concept
- Panel asked to determine if competency is:
 - Critical (1-4 scale)
 - Measurable (yes/no)
 - · Clear (yes/no)
 - Redundant (yes/no)
- Opportunity for comments and suggestions to change a competency or missing concepts Leadership Defined...

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Round Three

- Developed based on round 2 survey results
- Competencies grouped together according to Englander, et al (2013) Taxonomy of Competency Domains for the Health Profession Competencies.
- Panel asked for each competency:
 - Agreement (1-4 scale)
 - Appropriate domain (yes/no)
- Opportunity for comments and suggestions to change a competency or missing concepts

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Data Analysis

- Quantitative data
 - SPSS 23
 - Median & interquartile range
 - Percentage of agreement
- Qualitative Data
 - · Manual approach
 - · Content analysis
 - Audit trail

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Panel Members

Characteristic	Consented	Round 1	Round 2	Round 3
Male	6 (16%)	4 (15%)	3 (14%)	2 (12%)
Female	31 (84%)	23 (85%)	18 (86%)	15 (88%)
BSN-DNP Faculty	25 (68%)	17 (63%)	15 (71%)	13 (76%)
Actively Practicing DNP 5 yrs	8 (22%)	7 (26%)	4 (19%)	3 (18%)
Recent BSN-DNP Graduate	4 (11%)	3 (11%)	2 (10%)	1 (6%)
Adult NP/ Primary Care	7 (19%)	7 (26%)	6 (29%)	3 (18%)
Acute Care NP	5 (14%)	3 (11%)	3 (14%)	3 (18%)
Family NP	16 (43%)	12 (44%)	8 (38%)	7 (41%)
Pediatric NP	6 (16%)	4 (15%)	3 (14%)	3 (18%)
Psychiatric NP	2 (5%)	0	0	0
Neonatal NP	1 (3%)	1 (4%)	1 (5%)	1 (6%)

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Results Round 1

- Quantitative results no competencies eliminated
 - 131 of 139 consensus on relevant
 - 8 no consensus on relevancy
- Qualitative eliminated 51 competencies
 - Redundancy
 - Measurability
- 88 competencies moved forward to round 2 survey

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Results Round 2

- Quantitative 47 did not reach consensus
 - interquartile range above 1and/or below 80% agreement on clarity or measurability
 - Redundancy in 6 out of 7 concepts
- Qualitative
 - Reduction in competencies based on redundancies
 - Rewriting of competencies to clarify them or make them measurable
 - · Additional 4 competencies written due to missing concepts
- Eliminated 39 competencies, 49 competencies evaluated in round 3

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Results Round 3

- Quantitative
 - · 48 out of 49 reached consensus
- Qualitative
 - One competency reworded and moved domains
- Final list of 49 competencies in 8 domains Note: show word document listing the competencies DUQUESNE UNIVERSITY

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Discussion

- Achieved final list of 49 competencies for NPs educated as BSN-DNPs
- Redundancy was main issue with initial competencies
- Content analysis was main strategy for reducing and revising competencies
- Only a few concepts were missing from competencies
- Included perspective of educators and practicing NPs

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Limitations

- Mainly related to Delphi method
 - Determining consensus
 - Reliability and validity
 - · Bias of expert panel
- Variation in NP practice across US

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Implications for Nursing

- National organizations utilize study results to revise BSN-DNP core NP competencies
- Movement toward CBE is occurring
 - First step is appropriate, measurable competencies

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Conclusions

- Produced a list of 49 relevant, clear, and measurable NP core competencies
- Panel composed of educators and practicing NPs
- NP education needs to move to CBE as other health professions have done

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Questions?

- Contact Information
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- Manuscript accepted for publication in Journal of the American Association of Nurse Practitioners

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