

#### **Learner Outcomes**

- Describe data sources regarding DNP/DNAP outcomes
- Identify the educational and policy implications of findings from these sources as well as a 2017 randomized, national study of members of American Association of Nurse Anesthetists (AANA), American Organization of Nurse Executives (AONE), and American Association of Nurse Practitioners (AANP)

### Acknowledgements

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### **Significance**

- Program costs to students, institution and society
- Educational responsibility and others
- Potential impact on professional solidarity

#### **Aims**

- Describe DNP graduates' roles, activities and opinions about degree effects
- Explore differences between and among DNP graduates by job title and organizational membership

### **Current data sources: Contributions and Gaps**

- Self report: satisfaction and work contributions
- Reviews of school newsletters: projects and work contributions
- Limitations
- Gaps

### **Results of 2017 National Study**

### **Design & Method**

- Design Cross-sectional, IRB approved
- Method Survey (paper or on-line REDCap option)
- Instrument Based on AACN essentials and previously tested demographic and labor items

### **Subjects**

- Overall response rate 32% (n=1846)
- Organizational membership
  - AANA (n=1283)
    - All DNPs
    - Response rate 35% (n=452)
  - AONE (n=2606)
    - Random
    - Response rate 26% (n=672)
  - AANP (n=2000)
    - Random DNPs
    - Response rate 37% (n=740)
  - Note: Subjects could indicate membership in >1 organization

### **Analytic Techniques**



## Characteristics of the DNP Subjects by Organization (n=1308)

(1 of 2)

(	Membership						
Characteristic	% (n)						
	AONE (n=253)	AANP (n=642)	AANA (n=427)	All (n=1308)*			
Gender							
Male	14.7 (37)	10.6 (67)	33.9 (143)	19.1 (246)			
Female	84.5 (212)	89.2 (563)	65.9 (278)	80.6 (1041))			
Don't wish to identify	0.8 (2)	0.2 (1)	0.2(1)	0.3 (4)			
Ethnic Background							
Hispanic or Latino/a	2.5 (6)	5.0 (31)	4.9 (20)	4.5 (57)			
Racial Background							
American Indian or Alaska Native	0.8 (2)	1.2 (8)	2.1 (9)	1.4 (18)			
Asian	3.2 (8)	3.7 (24)	3.5 (15)	3.7 (48)			
Black or African American	2.0 (5)	4.5 (29)	3.3 (14)	3.7 (48)			
Native Hawaiian or Other Pacific Islander	0.0	0.3 (2)	0.7 (3)	0.5 (6)			
White	90.5 (229)	87.4 (561)	88.5 (378)	88.0 (1151)			



# Characteristics of the DNP Subjects by Organization (n=1308) (2 of 2)

			Membership					
Characteristic		Mean Years (SD; Range)						
	AONE	AANP	AANA	All				
Age	55.5 (7.4; 28-75)	49.0 (11.1; 25-77)	46.5 (10.6; 26-69)	49.3 (10.7; 25-77)				
Age at DNP Graduation	51.9 (7.4; 28-74)	45.0 (10.5; 24-74)	42.6 (10.2; 24-63)	45.4 (10.3; 24-74)				
Years Since DNP Attained	3.6 (2.5; ≤1-15)	4.0 (3.0; <u>&lt;</u> 1-25)	3.9 (2.4; 1-18)	3.9 (2.8; ≤1-25)				



#### Ratings of DNP Education Impact on Abilities by Organization (1 of 2)

	Rating (%)						
Impact on Abilities	Not at all	2	3	4	Profound Effect		
Organizational Change							
All (n=1268)	9.3	8.8	20.7	32.7	28.5		
AONE (n=243)	1.2	1.2	10.7	43.6	43.2		
AANP (n=621)	10.0	8.2	23.7	29.6	28.5		
AANA (n=419)	12.2	13.6	22.4	32.0	19.8		
Quality Improvement							
All (n=1273)	6.6	6.0	16.5	35.0	35.9		
AONE (n=243)	1.2	2.1	12.3	38.7	45.7		
AANP (n=624)	5.9	5.1	17.9	32.4	38.6		
AANA (n=420)	9.5	9.0	16.9	37.6	26.9		
Evidence Based Practice							
All (n=1277)	4.3	3.6	11.6	28.5	52.0		
AONE (n=245)	0.4	2.0	8.2	26.9	62.4		
AANP (n=628)	5.1	2.9	11.8	26.1	54.1		
AANA (n=418)	4.3	5.5	13.4	34.7	42.1		



## Ratings of DNP Education Impact on Abilities by Organization (2 of 2)

	Rating (%)				
Impact on Abilities	Not at all	2	3	4	Profound Effect
Leadership					
All (n=1275)	5.7	4.2	15.4	33.6	41.1
AONE (n=244)	1.6	2.0	8.6	30.7	57.0
AANP (n=628)	5.3	4.3	16.1	32.0	42.4
AANA (n=417)	8.2	4.6	18.7	37.6	30.9
Policy Setting					
All (n=1260)	12.8	12.5	27.1	30.0	17.6
AONE (n=243)	7.0	7.8	21.8	39.9	23.5
AANP (n=619)	13.7	12.9	26.5	28.9	17.9
AANA (n=413)	13.6	13.8	31.5	28.1	13.1



#### Ratings of DNP Education Impact on Abilities by Position

1 of 3)	% Rating						
Impact on Abilities	Not at all	2	3	4	Profound Effect		
Organizational Change							
All respondents (n=1268)	9.3	8.8	20.7	32.7	28.5		
Faculty/Educational Administrator (n=211)	4.7	5.7	16.6	38.4	34.6		
Administrator (n=221)	1.4	0.9	10.9	40.3	46.6		
CRNA (n=329)	14.3	15.8	23.1	30.1	16.7		
Nurse Practitioner (n=424)	12.0	10.1	27.1	25.5	25.2		
Quality Improvement							
All respondents (n=1273)	6.6	6.0	16.5	35.0	35.9		
Faculty/Educational Administrator (n=213)	3.3	2.8	16.9	29.6	47.4		
Administrator (n=221)	1.8	2.3	9.5	38.9	47.5		
CRNA (n=331)	11.8	10.9	18.4	36.3	22.7		
Nurse Practitioner (n=426)	7.5	6.8	18.5	33.8	33.3		



# Ratings of DNP Education Impact on Abilities by Position (2 of 3)

	% Rating						
Impact on Abilities	Not at all	2	3	4	Profound Effect		
Evidence Based Practice							
All respondents (n=1277)	4.3	3.6	11.6	28.5	52.0		
Faculty/Educational Administrator (n=212)	3.3	0.5	9.4	25.9	60.8		
Administrator (n=222)	0.9	2.7	9.0	26.1	61.3		
CRNA (n=331)	5.7	6.3	15.1	35.6	37.2		
Nurse Practitioner (n=429)	5.8	4.2	11.4	25.9	52.7		



### Ratings of DNP Education Impact on Abilities by Position

(3 of 3)

	% Rating						
mpact on Abilities	Not at all	2	3	4	Profound Effect		
eadership							
All respondents (n=1275)	5.7	4.2	15.4	33.6	41.4		
Faculty/Educational Administrator	3.3	1.4	12.7	30.0	52.6		
(n=213)							
Administrator (n=222)	1.4	2.3	7.2	31.1	58.1		
CRNA (n=328)	10.1	6.1	21.0	38.1	24.7		
Nurse Practitioner (n=428)	6.3	5.4	18.2	32.9	37.1		
olicy Setting							
All respondents (n=1260)	12.8	12.5	27.1	30.0	17.6		
Faculty/Educational Administrator (n=211)	8.5	9.5	26.5	29.4	26.1		
Administrator (n=220)	8.6	6.4	23.6	37.3	24.1		
CRNA (n=324)	15.4	16.7	29.9	26.5	11.4		
Nurse Practitioner (n=421)	15.7	14.0	27.3	27.3	15.7		

#### **After Graduation**

- > 72% never participated in any local, state or federal policy change
- ▶ 85% never led any local state or federal policy change
- ► 47% never led <u>nor</u> participated in QI projects
- ▶ 43% never led <u>nor</u> participated in an organizational change project



# Reported Roles in Selected Activities after DNP Graduation by Position (1 of 4)

	Position %					
	Faculty/Educational  Administrator  (n=216)	Administrator (n=226)	CRNA (n=335)	Nurse Practitioner (n=435)	All (n=1308)	
Roles						
Starting an APRN Clinic						
Participant	8.8	3.1	1.2	6.4	4.8	
Leader	11.6	4.4	0.3	12.0	7.6	
QI Design and Implementation						
<u>Project</u>						
Participant	28.2	19.0	19.7	22.3	21.9	
Leader	30.1	74.8	17.6	23.0	33.0	



# Reported Roles in Selected Activities after DNP Graduation by Position (2 of 4)

	Position %					
Roles	Faculty/Educational  Administrator  (n=216)	Administrator (n=226)	CRNA (n=335)	Nurse Practitioner (n=435)	AII (n=1308)	
Organization Change Project						
Participant	23.6	10.2	23.3	25.1	21.5	
Leader	35.6	88.5	19.7	25.3	37.8	



# Reported Roles in Selected Activities after DNP Graduation by Position (3 of 4)

		Position %					
	Faculty/Educational	Administrator	CRNA	Nurse Practitioner	All		
	Administrator (n=216)	(n=226)	(n=335)	(n=435)	(n=1308)		
Roles							
Local Policy Change							
Participant	25.0	29.2	14.9	16.3	19.4		
Leader	12.5	25.2	9.0	7.1	12.0		
State Policy Change							
Participant	26.4	28.3	11.0	16.3	18.7		
Leader	7.9	8.8	6.3	3.9	6.1		
Leader	16.2	7.1	2.1	3.7	6.1		



# Reported Roles in Selected Activities after DNP Graduation by Position (4 of 4)

	Position %						
	Faculty/Educational	Administrator	CRNA	Nurse Practitioner	All		
	Administrator (n=216)	(n=226)	(n=335)	(n=435)	(n=1308)		
Roles							
Externally Funded Research							
Grant							
Participant	21.8	19.9	3.9	6.2	11.2		
Leader	12.0	8.0	2.4	2.5	5.3		
Federal or International Policy							
Change							
Participant	13.4	10.2	5.4	6.4	7.7		
Leader	2.8	3.5	0.9	1.4	1.8		
Educational/Training Grant							
Participant	25.0	18.1	4.8	7.6	12.1		
Leader	16.2	7.1	2.1	3.7	6.1		



# Employment Changes and Reported Degree Effect on Obtaining/Keeping Position by Position (n=1210) (1 of 2)

	Position %				
	Faculty/ Educational  Administrator	Administrator	CRNA	Nurse Practitioner	
Position & Employment Changes Between Entering DNP and Survey Completion	n=209	n=214	n=321	n=415	
Same Employment Setting/Same Position	19.6	36.4	43.3	36.6	
Different Employment Setting/Same Position	5.3	5.6	14.0	14.2	
Different Employment Setting/Different Position	52.6	33.6	26.2	38.6	
Same Employment Setting/Different Position	22.5	24.3	15.9	9.4	
Did not work before DNP	_		0.6	1.2	



# Employment Changes and Reported Degree Effect on Obtaining/Keeping Position by Position (n=1210) (2 of 2)

	Position %							
	Faculty/ Educational  Administrator	Administrator	CRNA	Nurse Practitioner				
DNP Effect on Ability to Get/Keep Current Position	n=213	n=221	n=331	n=425				
None, Not Required nor Preferred	12.7	51.1	76.4	76.5				
Not Required but Preferred	24.9	37.1	13.0	17.9				
Required	62.4	11.8	10.6	5.6				



# Greatest Personal Contribution of DNP Degree by Position (n=1052)

		% Indicating Contribution									
	Personal	Job Options	Prestige	Do Job Better	Do Research	Specific Skill	Nothing/ Detrimental	Other			
Title											
Faculty/Educational Administrator (n=189)	7.9	30.2	10.6	0.5	1.6	48.1	0.5	0.5			
Administrator (n=179)	8.9	17.4	21.2	0.6	0.6	49.7	0.0	1.7			
CRNA (n=263)	11.4	22.8	12.6	1.5	0.4	40.7	8.7	1.9			
Nurse Practitioner (n=345)	17.1	13.3	14.2	1.2	1.7	45.3	6.3	0.9			
All (n=1052)	12.7	19.8	14.8	1.0	1.1	44.7	4.7	1.3			

### **Effects of Age, Time Since Degree**

#### **Limitations**

- Not inclusive of all organizations
- Perhaps overestimates favorably (organizational membership)
- No comparison with those who did not get DNP and hold similar positions

### **Implications**

- Preparation for today and tomorrow's work force
- Expense: Benefit ratio
- Organizational effects
  - Inter
  - Intra

### Time: From Training to Use (If Ever)

### Potential Gap Between Leadership and Membership

# Potential Differentiation in Views Among Nursing Organizations

### **Next Steps**

#### **Questions and Reactions**

#### References

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