

**UNIVERSITY OF
PITTSBURGH SCHOOL OF
NURSING**



Annual Report

JULY 1, 2019 - JUNE 30, 2020

1. School-Wide Accomplishments and Key Outcomes

Under the direction of Jacqueline Dunbar-Jacob, PhD, RN, FAAN, the University of Pittsburgh School of Nursing continues to achieve its mission. The School of Nursing's (SON) mission is to "provide high-quality undergraduate education" and "superior graduate programs in nursing that respond to the needs of health care in general and nursing in particular within Pennsylvania, the nation, and the world." One of the SON's goals is to "produce nurses who conduct evidence-based practices, engage in scholarly activities, and translate knowledge in health sciences and health care to improve healthcare delivery to all human beings." The following report provides data demonstrating that faculty are continuing to advance the practice of nursing in the clinical, research, and teaching arenas, which includes students who are graduating as well-prepared nursing leaders.

The School of Nursing 2019-2020 rankings

- The National Institutes of Health, Research Dollars Awarded: Ranked 6th
- [QS World University Rankings](#) by Subject: Ranked 16th
- U.S. News & World Report's 2020 Best Nursing Grad Schools: DNP Programs: Ranked 8th
- Adult/Gerontology, Acute Care: Ranked 4th
- Family (individual Across the Lifespan): Ranked 16th
- U.S. News & World Report's 2020 Best Nursing Grad Schools: MSN Programs: Ranked 6th
- CNL Programs: Ranked 3rd
- National Research Council, Nursing PhD Programs: Ranked 10th
- Healthcare Management Degree Guide: CNL and Nursing Administration programs: Ranked 9th
- College Choice, Best Nurse Practitioner Programs: Ranked 1st

Research Findings of Nursing Faculty AY 19-20

- **Al-Zaiti, Salah** Temporal-spatial featurization of digital 12-lead ECG signal for acute coronary lesions prediction, combined with machine learning classifiers, achieves 52% gain in sensitivity compared to commercial interpretation software and 37% gain in sensitivity compared to experienced clinicians
- **Bender, Catherine** We previously documented that, compared to age and education-matched controls, women with breast cancer have poorer executive function immediately after diagnosis and prior to the initiation of systemic adjuvant therapy (endocrine therapy +/- chemotherapy). We also demonstrated that women with breast cancer have deteriorations in attention, working memory and executive function with adjuvant therapy. We recently explored the relationships among cognitive function, physical activity (actigraph) and cardiorespiratory fitness (sub-maximal graded exercise test) and found that higher levels of physical activity and cardiorespiratory fitness are associated with better cognitive function in these women.
- **Burke, Lora** We conducted an analysis to examine the relationship between multiple dimensions of day-to-day sleep quality and daily self-efficacy for adhering to a daily healthy lifestyle plan in a sample of adults participating in a behavioral weight loss intervention. While longer sleep duration and better sleep quality were associated with higher self-efficacy for adhering to a daily healthy lifestyle plan, greater trouble sleeping and more awakenings were associated with lower self-efficacy.
- **Conley, Yvette** We discovered that DNA methylation for the gene that codes for angiotensinogen (ANGPT1) contributes to the risk of delayed cerebral ischemia and 3 and 12 month outcomes in patients with aneurysmal subarachnoid hemorrhage. Angiotensinogen is involved in vascular development and angiogenesis and delayed cerebral ischemia significantly impacts patient outcomes after aneurysmal subarachnoid hemorrhage.
- **Crago, Elizabeth** We have identified significant associations between plasma levels of IGF1, Testosterone, Estrogen and Estrone early after aneurysmal subarachnoid hemorrhage and both functional and cognitive measures 1 year after insult.
- **Charron-Prochownik, Denise** At 3-months, in our mother-daughter dyadic randomized control trial at 5 American Indian (AI) sites, AI daughters in the treatment group who received our new culturally adapted online Stopping GDM intervention had significantly improved self-efficacy, reproductive health and Gestational Diabetes Mellitus (GDM) knowledge compared with controls. Mothers' knowledge was associated with daughters'

perceived susceptibility for GDM and benefits of GDM risk reduction.

- **Dabbs, Annette** Consumer adoption of patient portals is becoming increasingly critical for receipt of quality health care, interactions with health providers, and engagement in health care. However, there is a dearth of knowledge about the social-behavioral factors that impact the willingness and capacity of older adults to engage in their health care, the perspectives of older adults regarding the patient-provider interactions that promote engagement, and the barriers that older adults face in accessing and effectively using patient portals. (We found) older adults were interested in using a patient portal regardless of health literacy level, previous patient portal adoption, or experience navigating health information on the Web.
- **Demirci, Jill** Prenatal and postpartum evidence-based breastfeeding support delivered via semiautomated SMS text messaging is a feasible and an acceptable intervention for first-time mothers.
- **Dunbar-Jacob** Predictors of medication adherence vary by measurement method within person and within medication
- **Feeley, Christine** Children with type 1 diabetes who sleep poorly, have parents who sleep poorly (parent and child sleep is correlated via actigraphy), and poor sleepers had elevated levels of stress and depressive symptoms.
- **Germack, Hayley** Over the 2008-2015 period, outpatient mental health visits for adults increased overall. Although the percentage of visits with specialty mental health providers remained relatively stable, and the percentage of visits with primary care physicians decreased, and visits with other types of providers significantly increased. The greatest proportion of visits with other providers were with nurse practitioners, suggesting that nurse practitioners are serving an increasingly important role in mental health care.
- **Koleck, Theresa** We developed a method that combines standardized vocabularies, clinical expertise, and natural language processing to generate comprehensive symptom vocabularies and automatically identify symptom information in electronic health record notes.
- **Lee, Young Ji** My work demonstrated the potential of using social media data to supplement traditional cancer research data and provide unique information that is not attainable from clinical data
- **Li, Dan** We developed an image analysis algorithm to automatically identify and differentiate wound tissues from pressure injury wound beds. Combined with the automatic pressure injury size measurement tool we developed before, this wound tissue analysis tool can provide clinicians an objective, reliable, and efficient computational tool for segmentation and measurement of wound tissues. With this, clinicians will be able to monitor the healing process of pressure injuries more effectively. In a second study, our results showed that Cytoreductive Surgery with Hyperthermic Intraperitoneal Chemotherapy (CRS+HIPEC) has been shown to (1) extend life among a relevant population of peritoneal carcinomatosis patients and (2) be safe in high volume surgical centers.
- **Lingler, Jennifer** We tested the hypotheses that providing patients with the opportunity to learn the results of AD biomarker testing would increase their understanding of their syndrome and self-efficacy for coping with their diagnosis. Our primary hypotheses, that disclosure of these results would be beneficial, were not supported. Importantly, and in contrast to previously published reports, we observed significant and sustained emotional distress in individuals who learned that they were biomarker positive.
- **Luyster, Faith** We found that an Internet-based cognitive-behavioral therapy for insomnia (CBT-I) intervention resulted in improvements in sleep, asthma control, and asthma quality of life. This study suggests that Internet-based CBT-I is a potential treatment option for adults with asthma and comorbid insomnia.
- **Morris, Jonna** Women with mild obstructive sleep apnea (OSA) are significantly more likely to report disturbed sleep than men with mild OSA. While both men and women experience excessive daytime sleepiness, men were less likely to endorse a generalized daytime burden.
- **Rosenzweig, Margaret** Despite conventional thought, we found no racial differences in genetic knowledge and attitudes toward genetic testing among women with early stage breast cancer receiving chemotherapy.
- **Schlenk, Elizabeth** A self-efficacy based intervention had significant improvements in self-reported lower extremity exercise and fitness walking compared to attention-control at immediate post-intervention with slight declines at 6 months post-intervention in older adults with the comorbid conditions of knee osteoarthritis and hypertension.
- **Schmella, Mandy Jo** Based on our utilization of epigenome-wide DNA methylation data to estimate proportions

of neutrophils, monocytes, B cells, NK cells, CD4+ T cells, and CD8+ T cells in individuals with/without preeclampsia during the three trimesters of pregnancy, our preliminary findings suggest that WBC proportions differ by race.

- **Seaman, Jennifer** We can improve clinician-family communication in the ICU using nurses as key agents of change. We created an intervention with components that target each of the key levers (capability, opportunity, motivation).
- **Sherwood, Paula** A cognitive behavioral intervention with family caregivers of persons with a primary malignant brain tumor was associated with changes in the caregiver’s C-reactive protein level.
- **Wesmiller, Susan** We identified BDNF as a new potential biomarker to predict nausea in women with breast cancer.
- **Yates-Binder, Cecelia** We have recently challenged the current immunological dogma of macrophage control immune response during fibrotic tissue remodeling. Our group’s paradigm-shifting findings have revealed that fibroblasts develop a proinflammatory profile during fibrosis to control both inflammatory and extracellular matrix remodeling microenvironment. We have submitted several disclosures and a pending patent application with the Innovation Institute for targeted anti-fibrotic treatments supported by our recent mechanistic discovery.
- **Zhang, Fei** We designed, built, and deployed a data acquisition system at UPMC to collect high-fidelity data from multiple anesthesia devices during surgeries. Results showed that the data acquisition system exhibits robust, high-quality performance and efficiently reduces costs compared to previously manual methods and allows seamless integration into the anesthesia management environment, independent of its routine work

Research Productivity

- Currently ranked 6th in NIH research dollars among Schools of Nursing for 2019; and last year ranked 4th
- Total external research dollars: For University FY 20, Awarded directly to SON, Faculty and Students, Fed and Non-Fed: \$9,527,187
- Total training dollars: For University FY 20, Awarded directly to SON faculty and students, Fed and Non-Fed (T32’s and scholarship awards): \$742,922
- Total NIH research dollars: For University FY 20, Awarded directly to SON faculty and students: \$8,573,977

NIH Institutes from which we have funding: NHLBI, NCI, NINR, NIDDK, NIA, NICHD, NIMHD, NIGMS, NIAMS, NLM
 Other nonfederal sponsors: STT, Robert Wood Johnson, ENA, ISONG, AACN, ANF, ACS, Cambia Health Foundation
 Hillman Scholars, NRG Oncology Fnd, American Thoracic Society, Clovis Oncology, CSL Behring, AABC, FNSNA, Inspire Medical

Table 1.1

Number and Percent of Tenured/Tenure-Stream Faculty with NIH Funding

	Number in	Number with External	Number with NIH Funding (PI and subaccounts)
7/1/19 - 6/30/20	Stream	Funding	
Tenured	23	16	12 (52%)
Tenure Stream	22	15	11 (50%)
Non-Tenure			
Stream	46	5	2 (4%)
TOTAL:	91	40	25 (27%)

Table 1. 2
FY 2020 Active Grants

	External #	External \$	Internal #	Internal \$	Total #	Total \$
Faculty						
Tenured						
NIH	34	5,948,225	-	-	34	5,948,225
Other Federal	7	131,508	-	-	7	131,508
Non-federal	13	1,185,802	3	55,000	16	1,240,802
Subtotal Tenured Faculty	54	7,265,535	3	55,000	57	7,320,535
Tenure Stream						
NIH	16	3,670,743	-	-	16	3,670,743
Other Federal	4	102,438	-	-	4	102,438
Non-federal	9	288,940	13	157,082	22	446,022
Subtotal TS Faculty	29	4,062,121	13	157,082	42	4,219,203
Non-tenure stream						
NIH	3	233,524	-	-	3	233,524
Other Federal	3	194,878	-	-	3	194,878
Non-federal	2	16,648	3	54,000	5	70,648
Subtotal NTS Faculty	3	54,000	3	54,000	11	499,050
Subtotal Faculty	86	11,381,656	19	266,082	110	12,038,788
Student/Post-Doc						
NIH	4	165,355	-	-	4	165,355
Other Federal	-	-	-	-	-	-
Non-federal	20	125,000	14	24,002	34	149,002
Subtotal Student/Post-Doc	24	290,355	14	24,002	38	314,357
Total	110	11,672,011	33	290,084	148	12,353,145

Table 1.3*Summary of Granting Funding FY 2016-2020*

FACULTY FUNDING*	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
	7/1/15-6/30/16	7/1/16-6/30/17	7/1/17-6/30/18	7/1/18-6/30/19	7/1/19 – 6/30/20
Federal NIH Grants Awarded Directly to SON	14	17	21	25	22
Other Federal Grants Awarded Directly to SON	4	4	4	6	6
Nonfederal Grants Awarded Directly to SON	8	17	17	20	12
Subcontracts	4	5	5	8	9
Foreign Subcontracts	2	3	3	3	3
Subaccounts from within Pitt	17	19	23	24	22
Univ of Pittsburgh Internal Awards	9	10	11	14	9
TOTAL	58	75	84	100	83

*does not include grants in a no-cost extension

Please see Appendix A for grant funding listed by individual faculty, post-doctoral students, and our PhD students. The table provides the name, title of the grant, funding agency, grant type, and dollar totals.

Tenure Track Faculty Publications

Table 1.4 indicates the number of tenured and tenure-stream faculty with first and/ or senior authorship publications in per-reviewed journals and book chapters.

Table 1.4*Full-time, Tenure-Track Faculty with Publications as a First or Senior Author*

	Total Counted	# with 1 st or Senior Authorship	Percent
Tenured	21	21	100%
Tenured Stream	22	22	100%

(Data from ProjectConcert and Reports to the Department Chairs)

Please see Appendix B for a complete listing of faculty publications for all tenured, tenure-stream and non-tenured faculty.

Faculty Collaboration with UPMC**Table 1.5***School of Nursing Faculty Collaboration with UMPC (data from ProjectConcert)*

Full Name	Name of Committee/ task force
Alexander, Sheila	Evidence Based Practice Quality Research Council
	My Nursing Career Panel
Bender, Catherine	Co-Leader Biobehavioral Cancer Control Program of the UPMC Hillman Cancer Center

	UPMC Hillman Cancer Center Cancer and Aging Strategic Initiative
	UPMC Hillman Cancer Center REAC Committee (Cancer Center Program Leaders)
Campbell, Grace	UPMC Cancer Rehabilitation Task Force
	UPMC Magee Gynecologic Oncology Program Family CARE Center
Cassidy, Brenda	Adolescent Faculty Meetings
Constantino, Rose	Intimate Partner Violence Task Force
Demirci, Jill	Magee Women's Hospital Nursing Research Council
Donovan, Heidi	Co-Leader: Patient-Oriented Responses to Cancer and Cancer Treatment Behavioral Oncology Program of UPCI
Dunbar-Jacob, Jackie	UPMC Shadyside-Presbyterian Quality Patient Care Committee
	UPMC Health Plan Quality Improvement Committee
	UPMC Health System Quality Patient Care Committee
	UPMC Chief Nursing Officer Leadership Team
Fennimore, Laura	UPMC Nursing Advocacy Council
	UPMC Health Plan Professional Practice Council
Hoffmann, Rosemary	Nursing Research Advisory
Imes, Christopher	Perceptions of Shift Work Study
Kelly, Linda	Vizient Nurse Residency Program
Kregg, Claudia	UPMC Community Health Choices Health Education Advisory Committee
	UPMC Community Health Choices Committee
Lee, Young Ji	UPMC Informatics Council
Li, Dan	System informatics council committee
	WOCN lead contact professional practice meeting
Lingler, Jennifer	Aging Institute: Dementia Workgroup
Miller, Susan	UPMC Nurse Residency
Mitchell, Ann	Invited Consultant at Aso Iikuka Hospital (AIH), Iizuka in Northern Kyushu, Fukuoka, Japan. Working to conduct a review and assessment of the Nursing Service Department and Nursing Education Program.
	Invited Consultant at Aso Iikuka Hospital (AIH), Iizuka in Northern Kyushu, Fukuoka, Japan. Working to develop a Transition to Practice Program (TTP) and a Preceptor Academy.
Nilsen, Marci	Multidisciplinary Tumor Board
O'Donnell, John	WISER Associate Director Committee
	CRNA Director Group- Ex Officio
Park, Na Jin	Biobehavioral Medicine in Oncology Program (BMOP), UPCI
Rosenzweig, Margaret	Associate Director for Cathchment Research - Hillman Cancer Center
Seaman, Jennifer	Presbyterian University Hospital Medical Ethics Committee
	PUH Ethics Committee Advance Directives Workgroup
Sowko, Lucille	Preceptor task force
Tuite, Patricia	Rules of Evidence Committee
	Evidence Based Practice council
	VIZIENT RN Resident Faculty Facilitator
Waechter, Darcy	DCOI
	System Informatics Council Meeting
Zedreck, Judith	Healthy Workforce

School Diversity

Table 1.5 represents the diversity of faculty and staff in July 2020. Student diversity is indicated in Table 1.6 below.

Table 1. 6

Faculty and Staff Diversity

	Faculty	Staff	Male	Female	Immigrant	Asian	Black	White	2+ races	Hispanic
Total faculty & staff Full & part-time: 211	124	87	38 (18%)	172 (82%)	10 (5%)	8 (4%)	11 (6%)	189 (90%)	2	0

Full Time Faculty	93	Male	Female	Immigrant	Asian	Black	White	2+	Hispanic
Professors	20	3	17	0	0	0	20	0	0
Associate Professors	17	5	12	5	3	4	10	0	0
Assistant Professors	56	11	45		4	2	50	0	0
Chairs	4	1	3	0	0	0	4	0	0
Associate Deans	4	1	3	1	0	2	2	0	0
Tenured	22	2	20	3	2	2	18	0	0
Tenure stream	21	3	18	3	3	1	17	0	0
Total	43 of 93 FT faculty	5 (5%)	38 (41%)	6 (6%)	5 (5%)	3 (3%)	35 (38%)		
Overall	93								
White	80 (86%)								
Black	6 (6%)								
Asian	7 (8%)								

Table 1.7

Student Diversity Data - Pitt Nursing (July 2020)

	Male	White	Black	Hisp	Asian	Amind	other	Total
Undergrad	86	590	42	25	87	1	4	749
MSN	9	44	2	0	5	0	1	52
DNP	61	217	11	3	15	0	4	250
PhD	10	19	0	1	9	0	2	31
Cert	0	5	0	0	2	0	0	7
Total	166	875	55	29	118	1	11	1089
Percent	15%	80%	5%	2.6%	10.8%		1%	
(USA Nursing)	9 to 11%	74.5%	11.9%		9.2%		2.33%	

comparison to overall national Nursing Data (Data USA)

Student Enrollment

Table 1.8

Student Enrollment in all Nursing Programs, 5-year comparison

		2015-16	2016-17	2017-18	2018-19	2019-20
PRE-LICENSURE		482	463	500	569	645
RN-BSN COMPLETION		6	4	0	0	3
ACCELERATED 2 nd DEGREE BSN		59	58	79	84	96
MASTER'S		177	183	130	90	52
DNP		165	138	163	215	250
PhD		35	31	28	29	31
NON-DEGREE/Undergrad*		5	4	7	3	5
NON-DEGREE/MASTER'S, DNP, PhD		31	31	22	23	9
POST MASTER CERT.		4	4	3	4	7
TOTALS		964	916	932	1,017	1098

Data Source: Fall Enrollment Report (Fall Term 2019)

Student Attrition

Table 1.9

Undergraduate Attrition, 5- year comparison

Year Enrolled	Original # Enrolled*	Withdrew	Academic Dismissal	Transferred within University	Total Number Left SON	Attrition Rate (%)
2015-16	125	2	0	6	8	1.60
2016-17	140	2	1	0	3	2.14
2017-18	156	6	0	1	7	3.84
2018-19	194	2	1	5	8	1.55
2019-20	192	4	0	3	7	2.08

Data Source: STARS Database (PS Term 2201)

*Includes Freshman and Sophomore Admits (doesn't include the re-admits)

Table 1.10*MSN Programs, Student Attrition Data*

Year Enrolled	Original Number Enrolled	Active	Inactive*	Attrition Rate
2015-16	177	176	1	0.57%
2016-17	183	182	1	0.55%
2017-18	130	129	1	0.77%
2018-19	90	90	0	0.00%
2019-20	52	50	2	3.84%

Data Source: STARS Database

*The term "Inactive" are students who have completely withdrawn from a program or are temporarily inactive.

Table 1.11*DNP Programs, Student Attrition Data*

Year Enrolled	Original Number Enrolled	Active	Inactive*	Attrition Rate
2016-17	139	137	2	1.44%
2017-18	163	161	2	1.23%
2018-19	215	214	1	0.47%
2019-20	250	246	4	1.6%

Data Source: STARS Database

*The term "Inactive" are students who have completely withdrawn from a program or temporarily inactive.

Student Graduation**Table 1.12***Graduation Numbers, Five-Year Comparison*

Program	2016-17	2017-18	2018-19	2019-20	2020-21	Difference (Fall 2019 vs Fall 2020)
BSN Degree						
Pre-Licensure	461.8	500.0	566.0	638.4	668.2	29.8
Accelerated Registered Nurse	56.8	78.4	83.4	95.4	75.8	(19.6)
RN-BSN	0.4					
RN-MSN	0.4					
RN-DNP	0.8					

Online RN-BSN				1.2	0.8	(0.4)
Non-Degree	0.4	0.4	0.4	1.8	0.4	(1.4)
Non-Degree Intl Guest	3.0	6.0	2.0	2.0	-	(2.0)
Total UGRD	523.6	584.8	651.8	738.8	745.2	6.4
MSN Degree						
Anesthesia Nursing	124.4	79.0	37.0			
Neonatal NP	11.2	11.6	6.6	3.4	0.4	(3.0)
Nurse Practitioner	11.2	11.6	6.6	3.4	0.4	(3.0)
Clinical Nurse Leader		0.4				
Online Administration	2.0	0.8	0.8	0.4		(0.4)
Online Clinical Nurse Leader	13.4	13.2	15.6	14.8	11.2	(3.6)
Online Informatics	3.8	2.8	3.6	4.6	4.2	(0.4)
Nurse Specialty Role	19.2	17.2	20.0	19.8	15.4	(4.4)
Total MSN	154.8	107.8	63.6	23.2	15.8	(7.4)
DNP Degrees						
Anesthesia DNP	2.0	35.0	77.2	89.8	104.2	14.4
Anesthesia Online DNP	4.8	1.6	2.4	3.6	4.4	0.8
Anesthesia Nursing	6.8	36.6	79.6	93.4	108.6	15.2
Adult Gerontology Acute Care NP	18.8	15.0	12.8	11.0	11.0	0.0
Adult Gerontology Primary Care NP	2.0	1.0	1.8	3.4	4.0	0.6
Family (Individual Across Life Span) NP	21.0	18.0	14.8	13.0	8.8	(4.2)
Neonatal NP	1.4	0.4	0.4	1.0		(1.0)
Pediatric Primary Care NP	5.2	5.8	6.6	7.8	6.8	(1.0)
Psych Mental Health NP	3.8	6.8	12.8	12.4	10.0	(2.4)
Online Adult Gerontology Acute Care NP	3.4	2.4	0.8	0.8	2.2	1.4
Online Family (Individual Across Life Span) NP	2.8	5.0	3.6	3.2	3.2	0.0
Online Neonatal NP						1.0

	1.0			0.8	1.8	
Online Pediatric Primary Care NP	0.8	0.8	0.4			
Online Pediatric Acute Care NP (new)					1.0	1.0
Nurse Practitioner	61.0	55.2	54.0	53.4	48.8	(4.6)
Adult Gerontology CNS	0.4	3.0	3.0	2.4	1.0	(1.4)
Medical Surgical CNS	0.4					0.0
Online Adult Gerontology CNS	0.8	2.8	2.8	2.2	2.0	(0.2)
Online Psych Primary Care CNS	0.4	1.0				0.0
Clinical Nurse Specialist	2.0	6.8	5.8	4.6	3.0	(1.6)
Online Administration Health Systems Executive Leadership	8.4	1.4	0.4			
Online Health Systems Executive Leadership		10.6	13.4	13.4	13.0	(0.4)
Nurse Specialty Role	8.4	11.0	13.8	13.4	13.0	(0.4)
Nurse Midwife	3.4	3.6	5.4	5.4	3.0	(2.4)
Total DNP	81.6	113.2	158.6	170.2	176.4	6.2
PhD Degree						
PhD Degree	28.6	26.2	28.4	29.8	33.0	3.2
Total PhD	28.6	26.2	28.4	29.8	33.0	3.2
Certificate Programs						
Post-Master's ACNP	1.2	0.4				
Post-Master's Adult Gerontology ACNP			0.8			
Post Master's Psychiatric Mental Health NP			0.4	0.4	0.4	0.0
Post-Master's Informatics	0.4					
Online Post-Master's Informatics		0.8	0.4	0.4		(0.4)
Online Adult Gerontology ACNP				2.8	5.6	2.8
Online Gerontology for NP Cr				0.4	-	(0.4)
ONLINE School Nurse Cert.					1.6	1.6

Certificate Programs	1.6	1.2	1.6	4.0	7.6	3.6
Graduate Non-Degree	13.0	8.8	9.2	4.2	5.2	1.0
TOTAL	803.2	842.0	913.2	970.2	983.2	13.0

BSN Students, NCLEX Licensure Exam

Table 1.13

NCLEX Results: First Time Examinees, Three-year Comparison

Class of Year	SCHOOL OF NURSING			PA PASS RATE (%)	NATIONAL PASS RATE (%)
	NUMBER TESTED	(NUMBER PASSED)	PASS RATE (%)		
2017	197	179	90.86	91.10	86.94
2018	211	198	93.84	92.84	87.56
2019	214	191	89.25	91.81	88.07

Data Source: National Council State Board Report

Graduate Students, Specialty Certification Exams

Table 1.8 indicated the number of students who took a specialty exam and passed it on the first attempt. We had 45 students take an exam. Students are listed by their program. Our benchmark is for 90% of the specialty exams on their first try and 100% will pass by the second attempt. When the benchmark is not met, program coordinators develop an action plan to improve the overall pass rate within their program.

Please see Appendix D for more SAAR Student data.

Table 1.14

Graduate Specialty Certification Exams/ Pass Rates

	Exam Organization	Number of Students that Took Exam	Passed on First Attempt	Passed on Subsequent Exam	Pass Rate for First-Time Takers	Pass Rate for Students who Took the Exam
MSN						
Clinical Nurse Leader	CNC	4	4	na	100	100
DNP						
Nurse Anesthesia	AANA-COA	28	21	7	75	100
Clinical Nurse Specialist	AACN	1	1	na	100	100
Midwifery	AMCB	2	2	na	100	100
DNP Nose Practitioner						
Adult Gero Acute Care	AACN or ANCC	4	4	na	100	100
Adult Gero Primary Care	ANCC or AANPCB	na	na	na	na	na
Family	AANP or ANCC	4	4	na	100	100
Neonatal	NCC	1	1	na	na	100
Psychiatric Mental Health	ANCC	4	4	na	100	100
Pediatric	ANCC & PNCB	1	1	na	na	100

2. Student Research: Opportunities and Publications

URMP

In addition to coursework and clinical experiences, Pitt's undergraduate BSN students can enroll in the Undergraduate Research Mentorship Program (URMP). The goal is to introduce students to research methods and to engage them in faculty-led projects and scholarship. The URMP offers students the chance to improve their academic performance and develop strong critical thinking abilities.

Table 2.1

URMP Students in 2019-2020 Academic Year

Student Level	Ethnicity					Total
	Asian	AA	Hispanic	White	Not Stated	
1 st	3	0	1	16	1	21
2 nd	4	1	0	7	0	12
3 rd	13	0	0	35	0	48
4 th	8	1	1	34	0	44
Total	28	2	2	92	1	125

Mentors – 73 (Faculty – 52; Doctoral/Post-Doctoral – 21)

Number of student presentations - 32

Honor Program

Below is a listing of students who completed a thesis for an honors degree in Nursing (BSN-H).

Table 2.2

SON Honors Student BPhil/BSN-H Defense Presentations 2019-2020

Emilie Loudenslager	The Role of a PGC1- α Variation in Patient Outcomes after Severe Traumatic Brain Injury Chair: Yvette Conley
Chloe Minahan	Infection Prevention and Control Practices as Reported by Registered Nurses and Nurse Midwives in 13 Government Hospitals in Cambodia Chair: Richard Henker
Kalaina Corbo	Association of Number of Comorbidities and health-related Quality of Life in Patient in Rheumatoid Arthritis Chair: Elizabeth Schlenk
Matthew A. Pyankov	Analysis of Role Magnet Designation in Developing a Culture of Professional Nursing Partnerships and Evidence-based Practice in the ICU: An Expanded Secondary Analysis of a National ICU Survey Chair: Jennifer Seaman
Ashley Van Slyke	Exploring Mental Health Literacy among Undergraduate College Students Chair: Heeyoung Lee

Graduate Student Research Publications

PhD Publications

Abujaradeh, H., Charron-Prochownik, D., Galla, B.M., Sereika, S., DiNardo, M., Feeley, C., Viswanathan, P. 786-P: Describing and Comparing Mindfulness Practices on Diabetes Self-Management (DSM) and Glycemic Control in Adolescents with T1D. *Diabetes* 2020 Jun; 69(Supplement 1): <https://doi.org/10.2337/db20-786-P>

Abujaradeh, H., Charron-Prochownik, D., Viswanathan, P., Sereika, S., DiNardo, M., Feeley, C., Galla, B.M. The Association of Facets of Mindfulness with Diabetes Distress (DD), Depression, and Diabetes- Outcomes in Adolescents with Type 1 Diabetes (T1D). *Nursing Research*. 69 (2020). No. 3.

Abujaradeh, H., Colaianne, BA., Roeser, RW., Tsukayama, E., Galla, BM. (2019). Evaluating the Psychometric Properties of a Short-Form Five Facet Mindfulness Questionnaire in High School Adolescents. *International Journal of Behavioral Development*, 44(1), 20-30.

Charron-Prochownik D, Abujaradeh H, Codner E, Downs J, Escobar A.M., Fischl, A, Giraudo F A., Montgomery K, Moore K, , Olshansky E., Peterson-Burch, F , Stotz, S. (2020). Culturally competent approach to adapting a validated diabetes (DM) preconception counseling (PC) intervention to prevent pregnancy-related complications in adolescent and young adult (AYA) females of ethnically diverse populations. *Nursing Research* 69 (2020):E91-E92

Charron-Prochownik, D., Fischl, AF., Krall, JT., Finney, J., Abujaradeh, H., Becker, DJ., Diaz, AM., & Libman, I. (2020). 781-P: Exploring Concerns and Preventative Behaviors Regarding Reproductive Health (RH) Complications in Female Adolescents and Young Adults (AYA) with T1D. *Diabetes* 2020 Jun; 69(Supplement 1): -. <https://doi.org/10.2337/db20-781-P>

Constantino, R.E.,Angosta, A.D., Reyes, A.T., Kameg, B., Wu, L., Cobb, J., Hui, V., Palompon, D., Safadi, R., Daibes, M. and Schlenk, E. (2019) Is Intimate Partner Violence a Risk Factor for Cardiovascular Disease in Women? A Review of the Preponderance of the Evidence. *Health*, 11, 841-854

Davis, J.A. & Spatz DL (2019) Human milk and infants with congenital heart disease: A summary of current literature supporting the provision of human milk and breastfeeding. *Advances in Neonatal Care*,19(3): 212-218. doi: 10.1097/ANC.0000000000000582

T. Davis, J. Nathan, A. Tinoco Martinez, J.De Vis, LC. Turtzo, L. Latour; Comparison of T1-Post and FLAIR-Post MRI for Identification of Traumatic Meningeal Enhancement in Traumatic Brain Injury Patients PLOS ONE (June 2020)

Dieterich, R., Caplan, E., Yang, J., & Demirci, J. (2019). Integrative Review of Breastfeeding Support and Related Practices in Child Care Centers. *Journal of Obstetric, Gynecologic & Neonatal Nursing*. doi:<https://doi.org/10.1016/j.jogn.2019.10.006>

Dieterich, R., Demirci, J., & Danford, C. (2020). Weight Stigma Related to Pregnancy: A Concept Analysis. *ANS Adv Nurs Sci*. doi:10.1097/ans.0000000000000297

K. Edwards, C. Pattinson, V. Guedes, J. Peyer, C. Moore, T. Davis, C. Devoto, L. C. Turtzo, L. Latour, J. Gill; Inflammatory Cytokines Associate With Neuroimaging After Acute Mild Traumatic Brain Injury *Frontiers in Neurology* (June 2020)

Heinsberg, L.W., Alexander, S.A., Crago, E.A., Minster, R.L., Poloyac, S.M., Weeks, D.E., Conley, Y.P. Genetic Variability in the Iron Homeostasis Pathway and Patient Outcomes After Aneurysmal Subarachnoid Hemorrhage. *Neurocritical Care*. 2020 Apr 3; doi: 10.1007/s12028-020-00961-z [Epub ahead of print] PubMed PMID: 32246437; NIHMSID:NIHMS1581972; PMCID: In process.

Heinsberg, L.W., Arockiaraj, A.I., Crago, E.A., Ren, D., Shaffer, J.R., Sherwood, P.R., Sereika, S.M., Weeks, D.E., Conley, Y.P. Genetic Variability and Trajectories of DNA Methylation May Support a Role for HAMP in Patient Outcomes After Aneurysmal Subarachnoid Hemorrhage. *Neurocritical Care*. 2020 Apr; 32(2):550-563. doi: 10.1007/s12028-019-00787-4. Epub 2019 July. PubMed PMID: 31346934; PubMed Central PMCID: PMC6981002.

Heinsberg, L.W., Bender, C.M., Rohay, J.M., Sherwood, P.R., Crago, E.A. Psychometric Properties of the Patient Assessment of Own Functioning Inventory Following Aneurysmal Subarachnoid Hemorrhage. *Journal of Nursing Measurement*. 2020 Apr 27; doi: 10.1891/JNM-D-18-00117. [Epub ahead of print] PubMed PMID: 32341171. PMCID: In

process.

Heinsberg LW, Conley YP. Omics for Nurse Scientists Conducting Environmental Health Research. *Annual Review of Nursing Research*. 2019 Dec 23;38(1):35-52. doi: 10.1891/0739-6686.38.35. PubMed PMID: 32102954; PubMed Central PMCID: PMC7100388.

Heinsberg, L.W., Liu, D., Weeks, D.E., Shaffer, J.R., Conley, Y.P. Characterization of Cerebrospinal Fluid DNA Methylation Age During the Acute Recovery Period Following Aneurysmal Subarachnoid Hemorrhage. *Frontiers in Genetics*. 2020; 11: 671. Published online 2020 Jun 26. doi: [10.3389/fgene.2020.00671](https://doi.org/10.3389/fgene.2020.00671).

Hoberg, M., & Founds, S. F. (2020, April 1). The concept of postpartum anxiety [Conference session]. Sigma Eta Scholars Night, Pittsburgh, PA, United States

Jeon B, Sereika SM, Callan JA, Luyster FS, DiNardo MM, Chasens ER. "Age-related differences in mood, diabetes-related distress, and functional outcomes in adults with type 2 diabetes mellitus and comorbid obstructive sleep apnea and insomnia" *The Diabetes Educator*. Sept 18 2020 doi: 10.1177/0145721720958396

Li, H., Liu, T., Heinsberg, L.W., Lockwood, M., Wainwright, D.A., Jang, M., Merriman, J., Doorenbos, A. Systematic Review of the Kynurenine Pathway and Psychoneurological Symptoms Among Adult Cancer Survivors. *Biological Research for Nursing*. 2020 Oct;22(4):472-484. doi: 10.1177/1099800420938141. Epub 2020 Jun 30

Lisanti AJ, Fitzgerald J, Helman S, Dean S, Sorbello A, Griffis H. Nursing Practice with Transthoracic Intracardiac Catheters in Children: International Benchmarking Study. *Am J Crit Care*. 2019;28(3):174–181.

Lisanti AJ, Helman S, Sorbello A, et al. Holding and Mobility of Pediatric Patients with Transthoracic Intracardiac Catheters. *Crit Care Nurse*. 2020;40(4):16-24.

McCall, M. K., Connolly, M., Nugent, B., Conley, Y. P., Bender, C. M., & Rosenzweig, M. Q. (2019). Symptom Experience, Management, and Outcomes According to Race and Social Determinants Including Genomics, Epigenomics, and Metabolomics (SEMOARS + GEM): an Explanatory Model for Breast Cancer Treatment Disparity. *Journal of Cancer Education*. doi:10.1007/s13187-019-01571-w

McCall, M.K., Ibikunle, S., Murphy, Y., Hunter, K., Rosenzweig, M. (resubmission). Knowledge and Attitudes about Genetic Testing among Black and White Women with Breast Cancer. Submitted to *Journal of Racial and Ethnic Disparities*.

Moore, K., Stotz, S., Fischl, A., Beirne, S., McNealy, K., Abujaradeh, H., & Charron-Prochownik, D. (2019). Pregnancy and Gestational Diabetes Mellitus (GDM) in North American Indian Adolescents and Young Adults (AYA): Implications for Girls and Stopping GDM. *Curr Diab Rep*, 19(11), 113. doi:10.1007/s11892-019-1241-3

Moon, S.E. & Lee, H. (2020). Relapse to substance use: A concept analysis. *Nursing Forum*, doi:10.1111/nuf.12458 [Epub ahead of print]

Nugent, B. D., McCall, M. K., Connolly, M., Mazanec, S. R., Sereika, S. M., Bender, C. M., & Rosenzweig, M. Q. (2020). Protocol for Symptom Experience, Management, Outcomes, and Adherence in Women Receiving Breast Cancer Chemotherapy. *Nursing research*, 10.1097/NNR.0000000000000450. Advance online publication. <https://doi.org/10.1097/NNR.0000000000000450>

Schlenk, E. A., & Shi, X. (2019). Evidence-based practices for osteoarthritis management: Self-management education is the foundation of osteoarthritis care. *American Nurse Today*, 14(5), 22

LC. Turtzo, N. Jikaria, M. Cota, J. Williford, V. Uche, T. Davis, J. Maclaren, A. Moses, G. Parikh, M. Castro, D. Pham, J.

Butman, L. Latour; Meningeal Blood-Brain Barrier Disruption in Acute Traumatic Brain Injury Brain Communications (August 2020)

Wong, J., Addala, A., Abujaradeh, H., Adams, R., Barley, R., Hanes, S., Iturralde, E., Naranjo, D., Tanenbaum, M., Hood, K. (2019). Depression in Context: Important Considerations for Youth with Type 1 versus Type 2 Diabetes. *Pediatric Diabetes*, doi:10.1111/peidi.12939.

Yumi Ma, Annette DeVito Dabbs, Mary Amanda Dew, Susan M. Sereika, Marci Lee Nilsen, Hiba Ahmad Eid Mohammad Abujaradeh, Alexander Gabriel Morris. Cognitive Impairment after Solid Organ Transplantation: Systematic Review and Meta-analysis. PROSPERO 2020 CRD42020130401 Available from: https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42020130401

Yumi Ma, Annette DeVito Dabbs, Mary Amanda Dew, Susan M. Sereika, Marci Lee Nilsen, Yehui Zhu, Khadejah Fahmi Mustafa Mahmoud. Physical Inactivity after Solid Organ Transplantation: Systematic Review and Meta-analysis. PROSPERO 2020 CRD42020140191 Available from: https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42020140191

DNP Publications

Joy, JA, Novosel, LM, Ren, D, Engberg, S. (2020). Effect of a QI intervention on nursing assistants' pain knowledge and reporting behavior. *Pain Management in Nursing*; July 32 (epub ahead of print)

Thomas, T. H., Hughes, T., Mady, L., & Belcher, S. (2019). Financial toxicity: A state of the science and nursing opportunities. *Clinical Journal of Oncology Nursing*, 23(5), 5-13. PMID: 31538991

Fazio, N., Lynch, J., Devlin, M., & Kameg, B. (accepted). Mental health problems among sex trafficked youth. *The Nurse Practitioner*.

Kameg, B., & Fradkin, D. (accepted). Military sexual trauma: An update for nurse practitioners. *The Journal for Nurse Practitioners*.

Laird, E., Maydick, M., & Kameg, B. (accepted). Depression and glycemic control in the primary care setting: An overview for primary care providers. *Journal of Doctoral Nursing Practice*.

Kameg, B., Fradkin, D., & Mitchell, A. (accepted). Preparing nurse practitioners to combat the opioid epidemic: A survey of nurse practitioner academic programs in the United States. *Journal of the American Association of Nurse Practitioners*.

Komar, E., & Kameg, B. (2020). Anorexia nervosa: An overview for primary care providers. *The Nurse Practitioner*.

Kameg, B., & Fradkin, D. (2020). Adverse childhood experiences in youth: Trauma-informed assessment, diagnosis, and management. *The Journal for Nurse Practitioners*.

Gilbert, M., Niemczyk, N., Cassidy, B. (2020). Evaluating childhood vaccination rates and vaccine hesitancy after a pilot web-based prenatal immunization education program with vaccine hesitant parents at an urban midwifery practice.

Palmer, J., Mitchell A., Elizabeth A. Schlenk, E.A., Mullick, P., Lee, H. (accept for publication). Buprenorphine Program Evaluation in a Private Psychiatric Office-Based Practice, *Journal of Addictions Nursing*.

Reynolds, K., Kaufman, R., Korenoski, A., Fennimore, L., Shulman, J., & Lynch, M. (2019). Trends in Gabapentin and Baclofen exposures reported to U.S. Poison Centers. *Clinical Toxicology*. Retrieved from: <https://doi.org/10.1080.15563650.2019.1687902>

Littleton, L.L., Fennimore, L.A., Shull-Fernald, C., & Zedreck Gonzalez, J. Z. (2019). Effective nurse leader rounding improves the patient experience. *Nursing Management*, (October), 11-14.

Sankovich, K., Hoffmann, R., Ren, D., & Fennimore, L.A. (2019). The impact of education and feedback on the accuracy of pressure injury stating and documentation by bedside nurses. *Patient Safety Journal*, (September), 10-17.

Graduate Student Presentations

PhD Presentations

Abujaradeh, H., Workshop: Culturally Competent Approach to Adapting a Validated Diabetes Preconception Counseling Program in Adolescents and Young Adult Females (AYA) of Ethnically Diverse Populations. Presenter: *2020 8th Annual Adolescent And Young Adult Health Research Symposium*. UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA

Abujaradeh, H., Charron-Prochownik, D., Galla, B.M., Sereika, S., DiNardo, M., Feeley, C., Viswanathan, P. Describing and Comparing Mindfulness Practices on Diabetes Self-management (DSM) and Glycemic Control in Adolescents with T1D. *80th American Diabetes Association Scientific Sessions (ADA 2020)*, Virtual.

Abujaradeh, H., Charron-Prochownik, D., Viswanathan, P., Sereika, S., DiNardo, M., Feeley, C., Galla, B.M. The Association of Facets of Mindfulness with Diabetes Distress (DD), Depression, and Diabetes- Outcomes in Adolescents with Type 1 Diabetes (T1D). *Eastern Nursing Research Society Annual Conference (ENRS 2020)*, Virtual. [PhD School Selected Abstract].

Alsbrook, K. Finding their voice: Older women and pain self-advocacy. Paper presented at the meeting of *T32NR008857: Technology Research in Chronic and Critical Illness*, Pittsburgh, PA (May 2020)

Burke, R., **McCall, M.K.**, Bender, C.M. (2020, March 26-28). An Exploration of Concomitant Medications And Symptoms In Women During Hormone Receptor-Positive Breast Cancer Treatment Using Aromatase-Inhibitors. Poster to be presented at the National Conferences on Undergraduate Research (NCUR 2020) at Montana State University, Bozeman, Montana. <http://www.cur.org/what/events/students/ncur/2020/> (conference cancelled) Also presented at the University of Pittsburgh School of Nursing Ninth Annual Scholarly Presentation Symposium February 10, 2020.

Charache, N., **Abujaradeh, H.**, Olshansky, E., Charron-Prochownik, D. Perceived Family Support on Issues of Family Planning and Pregnancy Among Adolescent Latinas with Diabetes. *National Conferences on Undergraduate Research (NCUR 2020)*, *Montana State University, Bozeman, Mont- cancelled*. My Undergraduate Research Student Mentee

Charron-Prochownik D , **Abujaradeh H**, Codner E, Downs J, Escobar A.M., Fischl, A, Giraud F A., Montgomery K, Moore K, , Olshansky E., Peterson-Burch, F , Stotz, S. (2020). Culturally competent approach to adapting a validated diabetes (DM) preconception counseling (PC) intervention to prevent pregnancy-related complications in adolescent and young adult (AYA) females of ethnically diverse populations. *Eastern Nursing Research Society Annual Conference (ENRS 2020)*, Virtual.

Dew, M.A., Dabbs, A. DV., DiMartini A. F., **Ma Y**, McNulty, M. L, Posluszny, D. M., Myaskovsky, L., Sciortino, C. M., Sanchez, P. G., & Pilewski, J. M. (April, 2020). Health-related quality of life impairments and benefits 15-19 years after lung or heart transplant, International Society for Heart and Lung Transplantation, Montreal, Canada.

Dieterich, R. Weight Stigma Related to Pregnancy: A Concept Analysis. Poster Presentation at *Eastern Nursing Research Society*, Boston, MA (March 2020)

Dieterich, R. Communication Practices of Healthcare Professionals with Overweight and Obese Pregnant Women: An Integrative Review. Podium Presentation at *International Conference on Communication in Healthcare*, San Diego, CA (October 2019)

Gawron, L., Heinsberg L., Crago E., Conley Y. Oxytocin Receptor Gene (OXTR) Single Nucleotide Polymorphism and Delayed Cerebral Ischemia after Subarachnoid Hemorrhage [Abstract] International Society of Nurses in Genetics 2019 Congress (Accepted, Poster Presentation)

Heinsberg, L.W., Crago, E.A., Weeks, D.E., Conley, Y.P. (2019). Associations between DNA Methylation of Aconitase 1 and 2 and Patient Outcomes after Aneurysmal Subarachnoid Hemorrhage [Abstract]. International Society of Nurses in Genetics World Congress (Podium Presentation).

Helman S, Purcell-PellathyT, PinskyM, DubrawskiA, Hravnak M. “Cardiorespiratory Instability Prediction Using Individualized Patient Characteristics”, Eastern Nursing Research Society, 32nd Annual Scientific Session, Boston, MA, USA, March 2020.

Hoberg, M. (2020, May) *Maternal and newborn outcomes associated with pregnancy mood state.* Presentation presented at the meeting of the Pregnancy Adaptation Lab Group, Pittsburgh, Pa.

Hui, Vivian C., Rose E. Constantino, Claudia Kregg-Byers, et.al ‘The Association between the experience of abuse and the sleep quality of older adults’ presented in Society of Behavioral Medicine, Annual meeting, Washington, DC, 2019

Hui, Vivian C., Bomin Jeon, YoungJi Lee, et al ‘Harnessing Health Information Technology in Domestic Violence systematic review’ presented in American Medical Informatics Association Annual Conference, Washington, DC, 2019

Jeon B, Sereika SM, Atwood CW, Strollo PJ, Stansbury R, Baniak LM, Zheng Y, Chasens ER (2019). Comparison of Sleep Quality and Functional Outcomes between Younger and Older Adults with Comorbid Obstructive Sleep Apnea and Insomnia. Poster presentation. *Sleep* 2019. June 2019. San Antonio, TX

Jeon B, Luyster FS, Chasens ER (2020). Association between circadian preference and sleep-related thoughts: Data from the 2015 Sleep in America Poll. Poster presentation. *Sleep* 2020. June 2020. Pennsylvania, PA.

Ma Y., Dew, M.A., Sereika, S. M., Nilsen, M. L., Dabbs, A. DV. (March, 2020). Cognitive Impairment after Solid Organ Transplantation: A Systematic Review and Meta-Analysis Protocol. Eastern Nursing Research Society, Boston, MA

McCall, M.K., Sereika, S.M., Conley, Y.P., Bender, C.M. (2019, Nov 9). Relationships Among APOE Genotype, Symptoms, and Anastrozole Adherence in Postmenopausal Women with Hormone Receptor Positive Breast Cancer. Paper presented at 2019 International Society of Nurses in Genetics Congress, San Antonio, TX. Also presented at the University of Pittsburgh School of Nursing Ninth Annual Scholarly Presentation Symposium February 10, 2020.

McCall, M.K. (May 21, 2020) Heilbrunn Nurse Scholar Presentation. [virtual] Rockefeller University, New York, NY.

McCall, M.K., Ibikunle, S., Murphy, Y., Hunter, K., Rosenzweig, M. Q. (2020, April). Knowledge and Attitudes about Genetic Testing among Black and White Women with Breast Cancer. [virtual] Poster accepted at the 2020 Health Disparities Poster Competition, University of Pittsburgh, Pittsburgh, PA.

McCall, M. K., Bender, C.M., Conley, Y.P., Sereika, S.M. (2019, June 19-20). Relationships among ESR1 polymorphisms, symptoms, and anastrozole adherence in postmenopausal women with early stage breast cancer. Poster session at Hillman Cancer Center retreat June 19-20, 2019.

Moon, S.E. & Lee, H. (October 2019). Relapse to substance use: A concept analysis. [Poster presentation], 33rd Annual American Psychiatric Nurses Association Conference, New Orleans, LO, United States.

Naumov, D., **Heinsberg, L.**, Deslouches, S., Conley, Y. (2020). Associations of Klotho Genotype with Outcomes after Traumatic Brain Injury [Abstract]. PA Junior Academy of Science Competition.

Peterson-Burch, F., Weeks, D., Gorin, M., & Conley, Y. (2019, November). *miRNAs Related to Age-Related Macular Degeneration, Given Nuclear and Mitochondrial Genetic Susceptibility*. Poster presented at the International Society of Nurses in Genetics World Congress, San Antonio, TX.

Ye, T., **Abujaradeh, H.**, Sereika, S., Charron-Prochownik, D. Description of Trait Mindfulness and Mindfulness Practices in Adolescents with Type 1 Diabetes. *National Conferences on Undergraduate Research (NCUR 2020), Montana State University, Bozeman, Mont- cancelled. My Undergraduate Research Student Mentee*

Zheng Y, Sereika SM, Korytkowski M, Burke LE, Atwood CW, Strollo PJ, **Jeon B**, Chasens ER (2019). Insomnia Severity and Insulin Adherence. Poster presentation. American Diabetes Association. July 2019. San Francisco, CA.

DNP Presentations

Fazio, N., Braxter, B., Cassidy, B., (2019). Evaluating the use of interactive virtual simulation to improve primary care providers' recommendation quality for HPV vaccine and subsequent HPV vaccine rates, Allegheny County Immunization Coalition Conference, Pittsburgh, Pa.

Steiner, C., DeChant, J., Cassidy, B., (2019). An Evidence-based Protocol to Improve HPV Vaccine Initiation Rates at a County Immunization Clinic, Allegheny County Immunization Coalition Conference, Pittsburgh, Pa.

Gilbert, M., Niemczyk, N., Cassidy, B. (2020). Evaluating childhood vaccination rates and vaccine hesitancy after a pilot web-based prenatal immunization education program with vaccine hesitant parents at an urban midwifery practice, ACNM Annual Conference, virtual

Horner, A. & Danford, C. (2020, February). Social media for health: Utilizing Instagram to improve eating habits of overweight and obese adolescents [Poster session cancelled]. NAPNAP 41st National Pediatric Conference, Long Beach, CA, United States.

Horner, A. & Danford, C. (2020, February). Social media for health: Utilizing Instagram to improve eating habits of overweight and obese adolescents [Poster session].The Three Rivers NAPNAP Winter Symposium, Pittsburgh, PA, United States.

Horner, A. J. & Danford, C. (2019, February). Social media for health: Utilizing Instagram to improve eating habits of overweight and obese adolescents. [Rising Star Poster Session] Sigma: Creating Healthy Work Environments Conference, New Orleans, LA, United States

Horner, A. & Danford, C.A. (26 March, 2020). Social media for health: Utilizing Instagram to improve eating habits of overweight and obese adolescents. Poster presentation at NAPNAP 41st National Conference on Pediatric Health Care. Long Beach, CA. Cancelled due to COVID-19.

Fradkin, D. (October, 2020). Evaluating Barriers and Facilitators of Different Models of Behavioral Health Integration: A Preliminary Policy Analysis [Conference poster presentation]. APNA 34th Annual Conference, Virtual.

Dean, N. "Feasibility of Implementing a Parent-reported Quality of Life Instrument for Developmentally At-Risk Infants and Young Children." UPMC Children's Hospital of Pittsburgh.

Devlin, M. "A screening and education protocol for primary care providers to identify children at risk for bullying." CCP

South Fayette.

Ferriero, J. "Improving the Flow of a Massive Transfusion protocol."

Student Awards and Scholarships (Data for SAAR)

The School of Nursing awarded 187 endowed scholarships to undergraduate and graduate students, which totaled to \$518,165. Below are tables listing students and their awards which ae from internal and external sources.

3. Faculty Recognitions and Leadership

One hundred percent of the full-time faculty are doctorally-prepared. The faculty holds advanced practice certifications where appropriate and nurse practitioner faculty meet NTF 2012 guidelines. Newly hired full-time faculty are required to have an earned doctorate. There are 88 full-time faculty and 33 part-time faculty. The School of Nursing faculty is comprised of exceptionally talented and motivated individuals in the area of scholarship, teaching, and service. The following section highlights faculty TEACHING, SCHOLARSHIP, AND SERVICE. See Faculty publications Appendix B. Please see Appendix C for the faculty list, faculty collaboration with UMPC, and faculty presentations.

Table 3.1

Fellows in the American Academy of Nursing (2019- 2020)

School of Nursing Faculty Fellows
Michael Beach DNP, ACNP-BD, PNP, FAAN
Lora Burke PhD, MPH, RN, SBM, FAHA, FAAN
Catherine M. Bender PhD, RN, FAAN
Denise Charron-Prochownik PhD, RN, CPNP, FAAN
Eileen Chasens PhD, RN, FAAN
Yvette Conley PhD, FAAN
Rose Constantino PhD, JD, RN, FAAN, FACFE
Annette (Devito) Dabbs PhD, RN, ACNS-BC, FAAN
Willa Doswell RN, PhD, FAAN
Jacqueline Dunbar-Jacob PhD, RN, FAAN
Sandra J. Engberg PhD, RN, CRNP, FAAN
Richard Henker PhD, RN, CRNA, FAAN
Marilyn Hravnak PhD, RN, CRNP, BC, FCCM, FAAN
Jennifer Lingler PHD, MA, CRNP, FAAN
Grant Martsof PhD, MPH, RN, FAAN
Ann Mitchell PhD, RN, AHN-BC, FAAN
Michael Neft DNP, MHA, CRNA, FNAP, FAAN
Margaret Rosenzweig PhD, CRNP-C, AOCN, FAAN
Elizabeth Schlenk PhD, RN, FAAN
Paula Sherwood PhD, RN, CNRN, FAAN

Table 3.2*2019-2020 Faculty Awards, Honors, and Recognitions*

o	Name	Organization/ Sponsor
Al-Zaiti, Salah Shafiq	Dean's Distinguished Teaching Award	University of Pittsburgh
	Chancellor's Distinguished Teaching Award	University of Pittsburgh
Anderson, Maighdin	SCCM Nursing Section Travel Award	SCCM Nursing Section
Braxter, Betty Jean	University of Pittsburgh Chancellor's Public Service Award	University of Pittsburgh
Campbell, Grace	Fellow	Association of Rehabilitation Nurses
Cassidy, Brenda Lee	Pennsylvania Nightingale DNP Award	
	Excellence in Nursing, DNP	Pittsburgh Magazine
Conley, Yvette Perry	Chancellor's Distinguished Researcher Award	University of Pittsburgh
Constantino, Rose	Balik Scientist Research Award- The HEARTS of Older Pers	Philippine Co. on Health Res and Dev, Dept Of Sci and Tech
	2020 Hall of Fame	American Nurses Association
Crago, Elizabeth A	Star abstract Research Award	Society of Critical Care Medicine
Danford, Cynthia	Outstanding Researcher of the Year Award	Association of Faculties of Pediatric Nurse Practitioners (AFPNP)
Doswell, Willa Marlene	Pittsburgh Courier Woman of the Year Awardee-Health	Pittsburgh Courier
	University of Pittsburgh School of Nursing Appreciation Award-25 years of Service	SON
Grant, Catherine	Excellence in Nursing Recipient	Pittsburgh Magazine
Hravnak, Marilyn T	STAR RESEARCH AWARD Yousef KM, Crago E, Fisher A, Lagattuta T, Hravnak M. Mean Flow Velocity of the Middle Cerebral Artery Predicts Poor Outcome after Subarachnoid Hemorrhage	Society of Critical Care Medicine
	Induction as Master of Critical Care Medicine,	American College of Critical Care Medicine, Society of Critical Care Medicine.
Kariuki, Jacob Kigo	Scholar at the National Heart, Lung, and Blood Institute Programs to Increase Diversity among Individuals Engaged in Health-Related Research	NHLBI

	(PRIDE-CVD)	
Lee, Young Ji	ANI Emerging Leaders	American Nursing Informatics
Lingler, Jennifer Hagerty	Nursing Research Award	Nightingale Award of Pennsylvania
	Excellence in Nursing Honoree (Research Category)	Pittsburgh Magazine
Martsof, Grant R	Mentorship Award	Interdisciplinary Research Group on Nursing Issues
Mitchell, Ann M	Honor a Nurse during the Year of the Nurse	International Society of Psychiatric Nurses (ISPN)
Morris, Jonna Lee	2020 New Faculty Boot Camp	American Thoracic Society
Nilsen, Marci Lee	Lucie Young Kelly Faculty Leadership Award	University of Pittsburgh, School of Nursing
Seaman, Jennifer Burgher	Assembly on Nursing Early Career Achievement Award	American Thoracic Society
Sowko, Lucille A	Faculty Honors Award	Univ. of Pitt
Thomas, Teresa Hagan	Gold Award for Healthcare Games – Strong Together	International Serious Play Award Program
	Nurse Scientist Intensive (competitive selection to attend a 2-day workshop for junior faculty who are oncology nurse researchers)	Oncology Nursing Foundation
Tuite, Patricia Klinefelter	Nursing Education Academia	Nightingale Awards of Pennsylvania
	Excellence in Nursing Academia Honorable Mention	Pittsburgh Magazine
Wesmiller, Susan K	Deans Distinguished Teaching Award	University of Pittsburgh School of Nursing
	Isong Presidents Award	International Society for Nurses in Genetics
Wilkenfeld, Daniel A	Resident Fellow	Center for Philosophy of Science

The School of Nurse faculty is involved in leadership roles on the local, regional, state, national and international levels. Highlighted here are the faculty who serve on editorial and advisory boards as well as in Study Sections.

Table 3.3

School of Nursing Faculty on Editorial Boards 2019-2020

Name	Name of Board
Alexander, Sheila Ann	PLOS One
	Biological Research in Nursing
Al-Zaiti, Salah Shafiq	Journal of Electrocardiology

Beach, Michael	Cover International Journal of Experimental, Clinical, Behavioural and Technological Gerontology Editor(s): Wick, G. (Innsbruck)
Blazeck, Alice Maus	Clinical Simulation in Nursing
Burke, Lora	Journal of Cardiovascular Nursing
	Progress in Cardiovascular Nursing
	Journal of Cardiovascular Nursing
Callan, Judith A	Frontiers in Psychology
Charron-Prochownik, Denise	NIH DSMB Monitoring Board
Chasens, Eileen Ruth	The Diabetes Educator
	Applied Nursing Research
Conley, Yvette Perry	Biological Research for Nursing
Constantino, Rose	International Journal in Nursing Practice
	Asian and Pacific Islander Nursing Journal
Dabbs, Annette Devito	Qualitative Health Research
Dechant, Jake	Human Anatomy & Physiology 12th edition by Elaine Marieb
Demirci, Jill Radtke	BMC Pregnancy and Childbirth
	Journal of Perinatal and Neonatal Nursing (JPNN)
Engberg, Sandra	Journal of Wound, Ostomy and Continence Nursing
Fennimore, Laura Ann	Journal of Continuing Education In Nursing
	International Journal of Palliative Nursing
	Journal of Emergency Nursing
	Home Healthcare Now
Guttendorf, Jane	Critical Care ALERT
	Critical Care Alert
Hoffmann, Rosemary	Journal of Professional Nursing
	Dimensions of Critical Care Nursing
Hravnak, Marilyn	Heart and Lung
Kameg, Brayden Nicole	Journal of Addictions Nursing Editorial Board
Kaufman, Robert Reid	Journal of Addictions Nursing
Kelly, Linda Kathryn	Elsevier Subject matter expert for Mosby's Essential Nursing CE Course
Lee, Heeyoung	Journal of Korean Academy of Psychiatric and Mental Health Nursing
	Journal of Korean Living Environment System
	Journal of Nursing Education and Practice
Lingler, Jennifer	American Journal of Geriatric Psychiatry
Luyster, Faith S	Journal - SLEEP
Martsof, Grant	Nursing Outlook
Mitchell, Ann	Advances in Nursing
	The Scientific World Journal
	International Society of Addiction Journal Editors (ISAJE)
Niemczyk, Nancy	Journal of Midwifery & Women's Health

Novosel, Lorraine	Urologic Nursing
O'Donnell, John	AANA Journal Reviewer
Park, Na Jin	Korean Academy of Biological Nursing Science
Schlenk, Elizabeth	Central European Journal of Nursing and Midwifery
Sereika, Susan	Journal of Wound, Ostomy and Continence Nursing
Sherwood, Paula	World Journal of Neuroscience
	International Board of Nursing and Midwifery, Eastern Europe
	Neuro-Oncology Practice
Warner, Karin	Association of Military Surgeons of the United States
	Sigma Theta Tau International Publications
Yates-Binder, Cecelia	American Journal of Pathology
	Current Pathobiology Reports
Zedreck, Judith	Journal of Nurse Practitioners

Data Source: ProjectConcert

Table 3.4

Faculty Service on Advisory Boards 2019-2020

Full Name	Name of Board
Alexander, Sheila	Neurocritical Care Society Curing Coma Campaign/NINDS Common Data Elements for Coma and Disorders of Consciousness: Biospecimens
Allison, Virginia	Three Rivers NAPNAP
Al-Zaiti, Salah	International Society of Computational Electrocardiology
Beach, Michael	Annals of Trauma and Acute Care
Bender, Catherine	CTS Fellowship (TL1) Program - Advisory Committee
	Oncology Nursing Society Research Advisory Board
Braxter, Betty	Lemington Residential Corporation
	The Professional Nurses of South Western Pennsylvania
	Gwen J. Elliott Research Institute
	Strong Women, Strong Girls , MEL Advisory Board
Callan, Judith	T 32 Faculty Advisory Board
Campbell, Grace	Association of Rehabilitation Nurses
	ACRM/ACSM Task Force on Guideline Development for Cancer Rehabilitation and Exercise
	Foresite Company Professional Advisory Board
Cassidy, Brenda	Jewish Healthcare Foundation Health Careers Futures
	PNP program Advisory Board
Charron-Prochownik, Denise	Center for Managing Chronic Disease Univ of Michigan
	Advisory Committee for T32 "Behavioral Aspects of T1D"
Conley, Yvette	National Advisory Council for Nursing Research
	Multidisciplinary Advisory Committee (CTSI-KL2)
Constantino, Rose	Nursing and Health Care Editorial

Dabbs, Annette Devito	External Advisory Board T32 proposal.
	Oneill Fellowship
Dixon, Bettina	Community Advisory Board for Nurse Anesthesia Program
	Pennsylvania Patient Safety Authority - Healthcare Associated Infections Advisory Board
Donovan, Heidi	National Ovarian Cancer Coalition Medical Advisory Board
	BIRCWH Scholars Advisory Board
Doswell, Willa	Black Girls Equity Alliance Workgroup
	University of Pittsburgh CEC Advisory Committee
	AAN-Special Interest Group: Child-Adolescent_Family Sig
Dunbar-Jacob, Jackie	Jewish Healthcare Foundation: Pittsburgh Regional Health Initiative Board, Pittsburgh, PA
	Institute of Politics
	ACLD, Association for Children and Adults with Learning Disabilities
	Beckwith Institute for Innovation in Patient Care
	Health Careers Futures Advisory Board, Jewish Healthcare Foundation
	UPMC Health Plan Quality Improvement Committee
	UPMC Presbyterian Shadyside Quality Patient Care Committee
UPMC Health System Quality Patient Care Committee	
Fischl, Andrea	Key Leader: Alliance to Improve Community-Clinical Partnerships (AICCP), Pennsylvania State Department of Health and the Health Promotion Council
	Pennsylvania's Action Plan to Scale and Sustain the National Diabetes Prevention Program
	Pennsylvania DPP Action Plan Implementation Working Group
Grant, Catherine	FNP Advisory Board Committee
Henker, Richard	G4 Alliance
	Board of Directors Health Volunteers Overseas
Hoffmann, Rosemary	HSEL Community of Interest
	CNC
	AD HOC for promotion to associate professor in SHRS
Hravnak, Marilyn	Society of Critical Care Medicine Discovery Research Network Steering Committee
	International Network for Doctoral Education in Nursing
Kameg, Brayden	Albert Schweitzer Pittsburgh Fellows Program, Advisory Council
Kitutu, Julius	CNCBOC - AACN
Kregg, Claudia	CTSI/All of Us Pennsylvania Research Program Stakeholder Advisory Board.
	UPMC Health Education Advisory Board
	National Black Nurses Association
Li, Dan	WPAHIMSS
Lingler, Jennifer	Alzheimer's Disease Clinical Meaningfulness Advisory Board, Genentech
Martsof, Grant R	Interdisciplinary Research Group on Nursing Issues
	Working group to organize National invitation-only meeting of national experts to convened to "Determine the Nursing Health Services Research Agenda for the 2020s
Maurer, Geraldine	M.O.R.E. McMasters University, Hudson, Ontario

	OMICS publications
Miner, Laurel	Community Advisory Board
Neft, Michael	Expert Panel - Psychiatry Mental Health and Substance Abuse_AAN
	Expert Panel - Acute and Critical Care-AAN
	AAN's Policy Conference Planning Advisory Committee
Niemczyk, Nancy	Midwife Center for Birth & Women's Health Medical Advisory Committee
Nilsen, Marci Lee	research project: The Symptom Experience, Management and Outcomes According to Race and Social Determinants of Health (SEMOARS) during Breast Cancer Chemotherapy
O'Donnell, John	Frank J. Torretta-LaSalle University, Einstein Medical Center Nurse Anesthesia Program
	State Board of Nursing
	Northeastern University NAP Advisory Board
Seaman, Jennifer	Presbyterian SeniorCare Dementia Care Management Advisory Panel
Sereika, Susan	DSMB for Lerret K23
	DSMB for CAMCI
Sherwood, Paula	Planning committee: Inaugural Cancer Caregiving Conference in Caregiving Research, Education and Policy Retreat
	Clovis Caregiver Guide Development Committee
Thomas, Teresa	National Ovarian Cancer Coalition - Pittsburgh Chapter
Waechter, Darcy C	Stakeholder Advisory Board, CTSI All of Us PA Research Program
Warner, Karin	Center for Military Medicine Research (CMMR) Internal Advisory Council
	Pan Africa Children Advocacy Watch (PACAW)
Yates-Binder, Cecelia	Elsevier-Journals Strategy Committee
Zedreck, Judith	AONE Fellow Designation Committee
	CNL Advisory Board University of Pittsburgh
	HSEL DNP University of Pittsburgh

Data Source: ProjectConcert

4. Faculty Research HUBs

HUBS – In the goal of creating communities of science, enhancing the quality of research education, and raising the volume of targeted research, we are utilizing a HUB of research concept. HUBs provide funding opportunities to foster collaborative, interdisciplinary research programs. HUBs feature multiple faculty members and students with similar research interests pursuing pilot projects on similar topics and themes, or integrating multiple existing projects so as to benefit from leveraging their resources and research expertise.

Pitt Nursing has 5 HUBS –

1. Genomics of Patient Outcomes
2. Sleep and Circadian Rhythms
3. Cancer Survivorship
4. e-Health Research
5. Policy Research

Genomics of Patient Outcomes HUB & T32

Director: Yvette P. Conley, PhD, FAAN

Genomic approaches, previously utilized primarily to investigate susceptibility to a disorder, are now being utilized to increase our understanding of variability in patient outcomes. Nurses are on the forefront of optimizing patient outcomes and bringing genomics and other omic approaches (including transcriptomics, proteomics, and epigenomics) to assist research on patient outcomes is a timely endeavor. The School of Nursing at Pitt provides an ideal environment for this HUB as it features active genomics laboratories in-house, directed by its own research faculty with formal training in the field of genomics.

Goals: to enhance interdisciplinary, biobehavioral research that uses genomics and other state-of-the-science omics approaches to advance the science of patient outcomes. Patient outcomes is broadly defined to include symptom experiences, functional status, adverse events, recovery trajectory, response to intervention, and psychological distress. The HUB will build upon the strong research and training relationships already in place among Pitt Nursing, the other Schools of the Health Sciences at Pitt, the Clinical & Translational Science Institute, and other Centers to support genomic research.

Membership in Genomics Hub: This list includes most individuals conducting omics research in the School of Nursing. These individuals are invited to and attend our weekly omics meetings. When applicable, funding for genomics-based research is noted for individuals in parenthesis.

Faculty: Sheila Alexander (R21, Weil), Barbara Brandom, Yvette Conley (R01, T32), Beth Crago (R01, CRDF), Sandra Founds(R21), Rick Henker, Chris Imes (CRE), Mandy Schmella (R21, CRE), Susan Wesmiller (R01, Kuehn), Cecelia Yates (R01)

PhD Students: Lacey Wright (F31, Nightingale of PA, STT, ISONG, Hoffmann, Jonas Scholar, ANF), Frankie Peterson-Burch (T32, Jonas Scholar),

Letitia Graves (T32, RWJ Scholar; postdoctoral fellowship at the NIH), Maura McCall (T32), Yehui Zhu (F99K00, ACS), Hongjin Li (ACS; postdoctoral fellowship at the University of Illinois Chicago) Undergraduate Students: Emilie Loudenslager (URMP, Honors Student doing a BPhil – defended her BPhil and graduated in April 2020), Katherine O’Meara (URMP, Honors Student doing a BPhil)

Activities: Weekly omics group meetings are held. These weekly meetings are in response to requests by the omics trainees and investigators in the school of nursing for more group discussions around state of the science and emerging technologies and opportunities. One week per month is designated to a traditional journal club format allowing trainees experience in presentation of omics topics. Weekly omics meeting is also the venue for communication about all things omics in the school and is well attended by undergraduate, graduate and postdoctoral trainees as well as faculty within the University.

Notable achievements by members of the genomics Hub in the past year:

- Dr. Monica Wagner received a K99/R00 award from NINR
- Maura McCall received a F99/K00 award from NCI
- Dr. Sarah Belcher received a K01 award from NINR
- Dr. Theresa Koleck was recruited to the SON and activated her R00 award from NINR
- Lacey Heinsberg defended her dissertation in May 2020 and is a postdoctoral scholar in the Department of Human Genetics supported by a TL1 award
- 1 Undergraduate student defended an omics-based BPhil project and graduated in April 2020
- Dr. Susan Wesmiller was elected President of the International Society of Nurses in Genetics
- Dr. Yvette Conley received the Chancellor’s Distinguished Research Award
- Publications acknowledging the genomics T32 reached 80
- T32 renewal submitted, received impact score of 17, funding for years 16-20 looks promising

The Hub had previously funded 4 pilot studies when the Hub was funded during its first 2 years. Two of these pilot studies led to NIH R01 funding (one funded by NIAMS and one funded by NINR) and one led to NIH R21 funding (funded by NIA). The other pilot study forms the basis for an application to NIH that is currently under review.

The National Institute of Nursing Research/ National Human Genome Research Institute; Genome Research Consortium (Co-Chaired by Yvette Conley) developed an online portal for nurse scientists and trainees for omics research, omics education, and omics common data elements called the Omics Nursing Science and Education Network (ONSEN) and Hub members remain active in support of ONSEN.

Science Advanced through Synergy:

- 1) Hub members are co-investigators and consultants on each other’s grant submissions.
- 2) Hub members review each other’s grants prior to submission, review trainees grants prior to submission, serve on dissertation committees together, provide feedback to each other through practice presentations prior to research conferences, and support journal club and related activities.
- 3) Cross-Hub synergy of the Genomics Hub and the Cancer Survivorship Hub have resulted in acquiring pilot funds to support submission of a P01 that is making progress and is slated to be submitted either May 2021 or September 2021.

The Genomic Hub has engaged undergraduate students in its activities:

- Undergraduate students working with faculty members involved with the Hub are invited to our weekly omics group meeting and many attend.
- One undergraduate student affiliated with the Hub successfully defended her BPhil in the past year.

Goals for the next year:

- Submit P01 grant application in collaboration with the Cancer Survivorship Hub
- Continue weekly omics meetings
- Recruit trainees for predoctoral and postdoctoral fellowships, currently all slots are filled but recruitment is active for fellows for the July 1, 2021 start cycle
- Continue to support trainees and faculty submitting grants and disseminating research findings with the goal of increasing faculty research funding

Sleep and Circadian Rhythms HUB

Directors: Eileen Chasens/ Faith Luyster

Faculty Members: E. Chasens, F. Luyster, C. Imes, C. Feeley, J. Morris, & L. Baniak

Sleep is a basic human need that occupies one-third of our lives. Sleep was previously thought of as a passive event that was unrelated to health outcomes. However, current evidence suggests that adequate duration and quality of sleep is essential for the promotion of health and well-being.

Goals: Engage students interested in learning more about sleep and health and engage Nurse scientists involved in sleep research to advance their programs of research through collaboration. Our core group includes faculty, postdoctoral fellows, and doctoral students who examine the effect of impaired sleep and/or circadian rhythms across a wide variety of populations and topics including children and adults with acute and chronic health conditions, shift workers, caregivers, genetics, and health promotion to reduce cardiovascular risk. We are available to act as a resource for students and faculty interested in adding sleep and/or circadian rhythms to their research.

The Sleep and Circadian HUB is providing support for members to submit strong research proposals, demonstrate collaboration through joint publications and presentations, support non-sleep faculty to include sleep in their research proposal, and provide a learning forum for new findings/instruments to be used in sleep research. Outcomes include funded grants by Drs. Imes and Luyster, two additional proposals currently under review by Drs. Imes and Feeley, and one small pilot research proposal submitted by a previous non-sleep faculty that was funded by the HUB. There were 10 joint publications, 2 book chapters, and 9 presentations demonstrating collaboration between HUB members. Students were included in projects. One PhD student utilized the results of a collaborative project to complete her dissertation, 2 PhD students have begun to incorporate sleep in their doctoral studies, and undergraduate students are involved with Sleep and Circadian Rhythms researchers. Dr. J. Morris, a University of Pittsburgh School of Nursing alumni (PhD 2018) and current Assistant Professor, completed one-year post-doctoral fellowship on the Sleep and Circadian Rhythms T32 (Buysse/Hall).

1. Current Research Projects and funding source:

Luyster (PI): Upper Airway Stimulation Therapy for Sleep Apnea: the Patient's Experience (Inspire Medical Systems, Inc.)

Luyster (PI): Improving Asthma Control Using Internet-Based Cognitive-Behavioral Treatment for Insomnia (R01)

Luyster (Co-I): The impact and prevalence of co-morbid insomnia in Veterans health administration service users with chronic obstructive pulmonary disease nationally (VA Healthcare Network)

Chasens (PI): The Effect of Treatment of OSA on Diabetes Self-Management and Glycemic Control (R01)

Chasens (PI): Self-Management, Insomnia, and Glucose Control in Adults with Diabetes (K24)

Johansson (PI): A Prader-Willi Syndrome Clinic: Health-Related Quality of Life of Patients and Caregivers and Evaluation by Key Stakeholders (DNP project)

Morris (PI): Sex Differences in Symptom Reports of Obstructive Sleep Apnea (SOSAS). Pilot study (University of Pittsburgh Central Development Research Fund)

2. Other activities:

We continue to have bimonthly meetings. These meetings focus on project development (papers, abstracts, grants, etc.) where people can give feedback and if appropriate co-authors can volunteer to be involved along with planning for speakers and other related activities. During the past year, Hub members collaborated on 3 published manuscripts using NHANES data. Using hub funds, we purchased 10 Actiwatch Spectrum Plus devices that can be loaned out to SON researchers assessing sleep in their research studies.

Due to COVID-19, typical conferences (American Thoracic Society; SLEEP) attended by sleep hub members (normally occurring in May or June) were pushed to August 2020 and offered virtually. 1 faculty member (Jonna) presented a poster presentation at the virtual American Thoracic Society conference. 5 faculty (Faith, Jonna, Chris, Chrissy) and trainees (Bomin) presented oral or poster presentations at the virtual SLEEP conference. Ann Johansson had a poster presentation at International Society of Nurses in Genetics conference in November 2019.

Notable achievements by member of sleep Hub in past year:

- Faith Luyster receive a grant from Inspire Medical Systems, Inc.
- Cassandra Godzik received the Sleep Research Society (SRS) Mentor-Mentee Award to examine sleep measures in the MrOS and SOF datasets.
- Jonna Morris received a competitive award - Bootcamp for New Faculty, American Thoracic Society, 2020.

3. Goals for the next year:

- Continue bimonthly hub meetings.
- Continue to support trainees and faculty submitting grants and disseminating research findings
- Continue to collaborate on manuscripts
- Raise awareness of the Sleep Hub (within and outside the SON)
- Identify internal and external speakers who can present on sleep topics relevant to nurses
- Explore opportunities to provide sleep education to the Pittsburgh community
- Generate and conduct a pilot study that supports the groups' research interests, and disseminate findings.

Cancer Survivorship HUB

Director: Catherine Bender

Faculty Members: Takis Benos, Grace Campbell, Yvette Conley, Heidi Donovan, Young Ji Lee, Marci Nilsen, Dianxu Ren, Margaret Rosenzweig, Lindsay Sabik, Teresa Hagan Thomas, Susan Wesmiller

Goals: to examine the association between disease-and treatment-related symptoms and patient and provider adherence to prescribed cancer therapy. The long-term goal of our combined efforts is the development of effective, tailored symptom management interventions, fundamental to improving cancer therapy adherence. A clear description of the patient's symptom experience, the relationship between symptoms and adherence to cancer therapy, and an examination of the genetic variations explaining the presence and severity of symptoms and nonadherence are key to the development of such interventions.

Research Projects and funding source: Members of the Cancer Survivorship HUB are developing a P01 application focused in the area of symptoms and adherence to cancer therapy. In 2019, they were awarded a \$50,000 Program Project Planning Grant to support preliminary studies the results of which are to serve as the basis for the planned program project grant application to be submitted in 2020.

In addition the HUB held a retreat to discuss approaches to assessment of the socioeconomic impact of cancer and cancer therapy. Dr. Cathy Bradley, Associate Dean for Research, Professor & Deputy Director of the Colorado University Cancer Center participated in the retreat.

eHealth HUB (HUB for Excellence in eHealth Research)

Director: Annette DeVito Dabbs; **Co-Director:** Young Ji Lee

Senior SON faculty: Denise Charron-Prochownik, Eileen Chasens, Heidi Donovan, Jacqueline Dunbar-Jacob, Judith Matthews, Elizabeth Schlenk, Sue Sereika, Paula Sherwood

SON faculty affiliates: Salah Al-Zaiti, Betty Braxter, Judith Callan, Grace Campbell, Rose Constantino, Willa Doswell, Becky Faett, Richard Henker, Marilyn Hravnak, Christopher Imes, Jacob Kariuki, Heeyoung Lee, Young Ji Lee, Jennifer Lingler, Dan Li, Faith Luyster, John O'Donnell, Paula Sherwood, LuAnn Sowko, Teresa Hagan Thomas, Weiwen Wang, Susan Wesmiller, Zelazny, Jamie

The eHealth HUB includes SON researchers (faculty and trainees) and their interdisciplinary partners who are harnessing novel technologies to improve health care and health outcomes. To foster interdisciplinary collaboration, methodological innovation, & development of new investigators, the Hub offers expertise & infrastructure support for technology-enabled research and machine learning grounded in behavioral theory & guided by team science & user-centered design. Emerging information and communication technologies are revolutionizing the methods used by scientists and clinicians to understand and influence everyday health. Novel sensor systems, sophisticated Internet functionalities, and wireless data transmission are enabling increasingly nuanced assessment of health behaviors and symptoms as well as more targeted biobehavioral intervention. This burgeoning field of eHealth, which includes mHealth, or the use of mobile communication for health services and information, is making assessment and intervention possible in real time, often informed by an individual's location, social context, and health behavior patterns.

The HUB for Excellence in eHealth Research (or "eHealth HUB") involves School of Nursing researchers who are harnessing novel technologies to improve health care and health outcomes. To foster transdisciplinary collaboration, methodological innovation, and development of new investigators, the eHealth Hub offers important infrastructure support for technology-enabled research that is grounded in behavioral theory and guided by principles of team science and user-centered design.

Administrative Core

Annette DeVito Dabbs, PhD, RN, ACNS-BC, FAAN, Director

Young Ji Lee, PhD, MS, RN, Co-Director

The Administrative Core oversees all eHealth HUB activities to ensure progress toward its ultimate goal of becoming a resource for the greater research community. Activities to share methods, technologies, and expertise among investigators and across programs of research include monthly eHealth Seminar Series, the biweekly Technology T32 Seminar and Speakers Series, and the monthly Center for Research and Evaluation Research Methodology Series. The Administrative Core maintains an Expert Registry of behavioral scientists, clinicians, and technologists within and external to the School of Nursing who are active in the eHealth field and willing to consult with HUB members. In addition to providing support for pilot studies and infrastructure enhancement projects, the Administrative Core coordinates the work of three Hub Cores, encourages scholarly productivity among HUB investigators, and spearheads efforts to ensure the HUB's sustainability.

Design to Dissemination Core

Susan M. Sereika, PhD, Leader

This HUB Core provides consultation for eHealth investigations, which often require specialized statistical and methodological expertise to ensure valid analysis and data interpretation. Examples include application of data reduction strategies to complex, serially collected data from sensors or devices; assessment and estimation of missing data; mediation and moderation analyses; and longitudinal analytic approaches.

As a centralized HUB resource, the Design to Dissemination Core stimulates synergies among Hub investigators faced with similar statistical and

methodological challenges, which often involve common constructs and measures. In addition to conducting statistical analyses for individual studies, this Core coordinates pooled analyses of data across studies and facilitates dissemination of these research findings.

Biobehavioral Resources Core

Lora E. Burke, PhD, MPH, FAHA, FAAN, Interim Leader

Launching a program of research in eHealth is costly, and pilot monies are often insufficient to cover both acquisition of devices and programming. To help investigators new to eHealth obtain feasibility or pilot data for grant proposals, the Biobehavioral Resources Core maintains a repository of devices for loan on a time-limited basis. This Core also provides consultation regarding technology needs for grant proposals and assists investigators with identifying needed peripherals or software, acquiring devices from appropriate sources (including obtaining bids when necessary), and following required purchasing procedures.

Technology Infrastructure and Data Management Core

Judith T. Matthews, PhD, MPH

Investigators are often unfamiliar with the array of technological tools at their disposal for measurement and intervention. Likewise, they may be unaware of technologists at the University of Pittsburgh and elsewhere who are willing to collaborate on novel solutions or modification of existing technologies.

The Technology Infrastructure and Data Management Core provides consultation regarding interface design and modification of eHealth technologies, and it refers investigators to individuals with the pertinent technical expertise to advance their aims. This Core is developing a toolkit aimed at streamlining processes to 1) help investigators manage data from study startup through the archival process for storing data upon study completion, and 2) track their progress and related productivity. The Core is also exploring establishment of a permanent web and database server infrastructure that would enable investigators to execute their eHealth research ideas relatively quickly and inexpensively. Click to link to the [eHUB researchers and projects](#).

Nursing Health Services and Policy Research HUB

Director: Grant Martsolf

Health services and policy research (HSPR) is a multidisciplinary field that focuses on studying these and other important issues in the finance, organization, and delivery of health care services. Well-constructed health services and policy research (HSPR) is necessary to help ensure access to high-quality, affordable health care and to promote the health and well-being of the population. The nursing discipline has a rich tradition of theory and practice within an interdisciplinary framework and can make valuable contributions to addressing the most vexing health care problems through HSPR. Funded in 2020, the long-term goal of the HUB is to establish the University of Pittsburgh School of Nursing as an epicenter of NHSPR by extending and supporting the work of researchers currently performing HSPR within the School of Nursing and to develop new HSPR capabilities within the school. The HUB would build on the resources and expertise of faculty at the School of Nursing; our early efforts will focus on understanding and improving the quality, cost, and access to care delivered to individuals with chronic conditions, especially major behavioral health conditions. We also will focus specifically on the role of advanced practice providers within primary care and specialty practices toward addressing the needs of patients with chronic conditions.

This HUB will focus in Year 1 on achieving five specific goals.

- Increase awareness and interest in HSPR across Pitt Nursing.
- Provide mentorship to new and emerging nursing HSPR researchers through use of ongoing and newly funded research studies.
- Enhance HSPR infrastructure at Pitt Nursing.
- Increase collaborations among HUB investigators and the broader Pitt HSPR community.

- Develop a plan to actively pursue funding to enhance the activities of the Hub with long-term goals of converting the HUB to a self-sustaining Center within Pitt Nursing.

These goals are supported through three specific HUB activities:

- Bi-weekly research colloquium. Current schedule and confirmed speakers can be found [here](#). Please email Grant Martsolf if you are interested in presenting at the colloquium. [Past recorded presentations are available here](#).
- Research cores The HUB will work to develop three content-specific cores focusing on research related to 1) nurse practitioners in primary care, 2) behavioral health services, 3) nurse practitioners in specialty practice.
- Develop infrastructure to oversee and coordinate long term planning of HSPR in Pitt Nursing and administration of the HUB

5. International Activities

International Visiting Scholars

International visiting scholars are those who wish to pursue an individually-designed, mentored program to enhance their research, teaching, and/or clinical skills. Potential international visiting scholars must be approved by the Dean of the University of Pittsburgh (Pitt), School of Nursing (SON)

and must have an assigned faculty mentor from within the Pitt SON.

Table 5.1

International Visiting Scholars

Dates of Visit	People/School	Type of visit	Faculty Mentor
10/1/2018-8/1/2019	1 PhD student (Minmin Lu) Fudan University	Long Term	Marilyn Hravnak
12/1/2018-12/1/2019	1 PhD student (Xiaoling Yuan) Shanghai Jiao Tong University	Long Term	Cathy Bender
7/1/2019-6/30/2020	1 student (Abdullah Ahmad) University of Jordan	Long Term	Salah Al-Zaiti
8/26/2019-8/26/2020	1 PhD student (Gao Wen) Zhejiang University	Long Term	Sheila Alexander
9/10/2019-12/10/2019	1 student (LiXia Chen, J2 Visa) Jiangning Traditional Chinese Hospital of Nanjing	Short Term	Marci Nilsen
10/14/2019-11/27/2019	1 PhD Student (Anu Numeksela) University of Eastern Finland	Short Term	Judy Zedreck
11/15/2019-11/14/2020	1 faculty (Li Gao) Capital Medical University	Long Term	Jacob Kariuki
11/15/2019-11/14/2020	1 faculty (Qian Xiao) Capital Medical University	Long Term	Betty Braxter

Student Study Abroad

Table 5.2

SON Study Abroad Data for 2015–2020

	2015–16	2016–17	2017–18	2018–19	2019–20
BSN student participants in any study abroad program	17	40	44	52	59*
Nursing-specific programs	2	5	8	11	12

One of our newer SON strategic goals is to (1) encourage more of our BSN students to take advantage of the various study abroad/away opportunities offered by Pitt Study Abroad and (2) increase the number of study abroad/away opportunities for our BSN students that are nursing

specific. We also hope to encourage nursing students to use study abroad/away to add a global component to their BSN degree program—for example, pursuing a Global Credential, the Global Health Certificate, or various minors at Pitt might not otherwise be possible for BSN students without study abroad/away programs. Table 22 provides data from the last 5 academic years and depicts our increase toward both goals. *For 2019–2020, the numbers reflect completed BSN-student applications for study abroad programs. As a result of the COVID-19 pandemic, study abroad and study away programming for spring break, spring term, and summer term 2020 was cancelled by the University of Pittsburgh (Pitt); therefore, actual numbers for participants were zero because Nursing study abroad programming, owing to the structure of the BSN curriculum, typically occurs during spring break and summer terms. Many of the BSN students who were unable to study abroad for 2019–2020 are planning to study abroad for 2020–2021, and these students will receive priority for admission to programs.

To accomplish the goal of increasing the number of students in study abroad/away programs and increase the number of abroad opportunities, we (1) have established a Director for International Affairs who serves as an internal and external liaison to create, promote, and sustain our various inbound and outbound international initiatives—which include study abroad/away, (2) have hired a Nursing Study Abroad Program Manager who manage the design and execution of and student advising for study abroad/away programs, (3) are emphasizing the value of study abroad/away and global activities in enhancing knowledge of healthcare delivery to our nursing students in orientation activities, advising sessions, and didactic courses, and (4) are collaborating with Pitt Study Abroad to create more short-term study abroad opportunities (e.g., spring break and 2-week programs in May, i.e., “Maymester”) and other global programming that is commensurate with the constraints of our BSN curriculum. For example, during 2019–2020, we were able to add one new study abroad/away program to the portfolio available to SON students: *Disaster Relief and Response* initially will be a study away program led by a member of the Pitt SON faculty in Eugene, Oregon. During the 2-week program, students will earn 4 credits and a certificate in Wilderness First Aid from the National Outdoor Leadership School. This course also will be offered as a study abroad course in a location abroad, once mobility is restored and university operations are normalized after the COVID-19 pandemic has passed.

Because these study abroad/away programs are open to all Pitt students, all the programs are, in terms of participants, interdisciplinary. In terms of curricular design that features an interdisciplinary focus (i.e., specifically designed with two or more disciplines in mind), at least one of our longer-standing programs (i.e., *Healthcare Delivery in Beijing* for Nursing and Anthropology students) is interdisciplinary, and two of our newer programs (i.e., *Plus3—Healthcare Management in Argentina* for Nursing and Business students and *Himalayan Wilderness First Responder* for Nursing and Anthropology students) are interdisciplinary.

6. Alumni

SON Alumni receive surveys at the 6-month, 3-year, and 5-year intervals. Alumni report on their satisfaction with SON education and their employment/ graduate school status. The information in this report refers to the 6-month survey of students who graduated in 2018-19 because the 2019-120 data is currently being collected.

Graduate Employment

Employment in a nursing position includes being in clinical practice, research, education, and administration. Of the academic year 2018-2019 alumni who completed the 6-month survey, their placement, and graduate school information is as follows:

BSN: Employed in a nursing position (86.3%)

Employed and enrolled in graduate school (10%)

MSN: Employed in a nursing position (100%)

DNP: Employed in a nursing position (100%)

PhD: Employed in a nursing position (100%)

Alumni Satisfaction

Below is a comparison of alumni satisfaction at 6-months post-graduation over the last three years based on the survey respondents.

Table 6.1

BSN Alumni Satisfaction – 6 months post-graduation

BSN	Academic year	Graduate Response rate	% of students satisfied
	2018-2019	37.2%	100%
	2017-2018	35.5%	100%
	2016-2017	39.2%	998.7%

Table 6.2

MSN Alumni Satisfaction – 6 months post-graduation

MSN	Academic year	Graduate Response rate	% of students satisfied
	2018-2019	13%	100%
	2017-2018	25.4%	86.7%
	2016-2017	27.7%	94.4%

Table 6.3

DNP Alumni Satisfaction – 6 months post-graduation

DNP	Academic Year	Graduate Response rate	% of students satisfied
	2018-2019	17%	100%
	2017-2018	48.9%	100%
	2016-2017	29.2%	93%

Table 6.4

PhD Alumni Satisfaction – 6 months post-graduation

PhD	Academic Year	Graduate Response rate	% of students satisfied
	2018-2019	50%	100%
	2017-2018	66.6%	100%
	2016-2017	100%	100%

Long-term Educational Benefits/ Satisfaction

Alumni are asked about their satisfaction with long-term benefits from attending SON. They responded to a “feeling of long-term success because of the School of Nursing.” Student satisfaction is reported by 3- and 5-years post-graduation alumni. Figures are based on the number of survey respondents. Graduates from 2017 (3-year post-graduation) and 2015 (5 years post-graduation) are still in the survey response process.

Table 6.5

3-Year Post-graduation – Feeling of Long-term Success

	2014 Graduates	2015 Graduates	2016 Graduates
BSN	99%	100%	100%
MSN	100%	100%	95%
DNP	100%	96%	100%
PhD	100%	100%	100%

Table 6.6*5-Year Post-graduation – Feeling of Long-term Success*

	2012 Graduates	2013 Graduates	2014 Graduates
BSN	99%	99%	99%
MSN	100%	100%	96%
DNP	100%	100%	100%
PhD	100%	100%	100%

Appendix B
School of Nursing Faculty Bibliography 2019-2020

School of Nursing Faculty Bibliography 2019-2020

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Appendix D

Student Data 2019-2020

7. 2019-20 Student Recruitment

On March 17, 2020, University of Pittsburgh employees began to work remotely due to the Covid-19 pandemic. All university-related travel was prohibited through Summer 2020 Term and all onsite recruitment events were canceled.

Prior to March 17, 2020, the School of Nursing participated in 16 Office of Admissions and Financial Aid (OFA) events focusing on prospective high school, internal and external transfer applicants, and newly-admitted BSN students, including those with Honors Program eligibility. The School also participated in OFA's Call and Text Campaign to encourage admitted BSN students to accept Pitt's offer of admission.

The Graduate Programs Fair, held in the Fall Term, was well-attended by current BSN students and professional nurses seeking information about graduate program options. Faculty from all graduate programs were available to answer questions. A series of thirteen weekly "Meet a ..." discussions was scheduled for Spring Term, but only 8 discussions were able to be held before the Covid-19 pandemic. The convenient and informal discussions, led by graduate program faculty, provided opportunities for undergraduate nursing students to learn about nurse specialties, advanced nursing practice, and nursing research roles from nurses working in the specific roles. The discussions were well-attended by students.

Meet & Greet Sessions were held with the Accelerated 2nd Degree BSN students and Traditional BSN students, who received the Guaranteed Admission to Graduate Nursing Programs when admitted to the School of Nursing. Faculty representatives from the MSN, DNP, & PhD discussed and answered questions about the programs in the informal setting. The sessions were well-attended by students.

Weekly Internal Transfer Sessions were well-attended by students (predominately from Arts & Sciences) who were interested in transferring to the freshman BSN class. The sessions provided information regarding transfer requirements and time for individual questions. Weekly Accelerated 2nd Degree BSN and Undergraduate BSN Information Sessions were also well-attended. After March 17, 2020, virtual BSN Information Sessions were held twice per week.

Prior to the Covid-19 pandemic, the School of Nursing was represented at a total of 32 external recruitment events, including university career fairs and local, state, and national conferences of various professional nursing organizations. The focus of these events was to attract prospective Accelerated 2nd Degree BSN, RN Options (RN-BSN, RN-MSN, RN-DNP), master’s, and doctoral students. In a concerted effort to promote the RN Options to professional nurses, the School of Nursing attended career fairs at various local hospitals. In collaboration with West Penn Hospital Professional Development Council and the School of Nursing Professional Development and Continuing Education Department, continuing education programs were offered to nurses at West Penn Hospital. Faculty facilitated presentations related to their area of expertise followed by discussion of the School’s RN Options and graduate nursing programs.

Two Virtual Graduate Nursing Programs were held (April & June) to market the school’s RN Options and graduate nursing programs during the Covid-19 pandemic. Each event consisted of 12 Zoom meetings: 9 led by faculty from each graduate program, 3-4 about the Application Process, and 1 about graduate nursing education and Advanced Practice Registered Nurse roles. The event attracted national and international prospective students.

In an effort to promote the Accelerated 2nd Degree BSN, the School of Nursing met with University of Pittsburgh undergraduate students enrolled in Rehab Sciences courses and students at the Penn State University - Greater Allegheny Campus. The School also attended the Pitt Coalition of Pre-Health Students Summit Networking Fair, etc.

Specific events, including OAFA’s Multicultural Visit Program, were attended in an effort to recruit prospective students from diverse backgrounds. The annual National Student Nurses Association Convention, which is attended by many students of diverse backgrounds, was canceled due to the Covid-19 pandemic. The School of Nursing continued to partner with the Office of Health Sciences Diversity by participating in its various events.

The School of Nursing promoted the school’s graduate nursing programs with a presentation and tour of the School of Nursing to an exchange group of nursing students and faculty from Birmingham City University.

The School of Nursing faculty attended many local, state and national chapter meetings of various professional nursing organizations. Their active participation in these organizations helps promote the School of Nursing, maintain name recognition, and generate interest in the RN Options, master’s, and doctoral programs.

The need to keep recruitment brochures updated, accurate, and timely continues to be a goal. A diligent effort has been made to make revisions in collaboration with coordinators and to match the information on the school’s website.

An essential element of the recruitment process is timely follow-up with prospective applicants. Recruitment received an average of 212 e-mail and telephone inquiries per month; all inquiries are answered promptly, typically within 24 hours.

Pitt Nurse is an excellent recruitment tool and continues to supplement recruitment brochures. It provides a timely snapshot of the School of Nursing and gives the reader information about faculty, student and alumni activities. The Director of Operations & Outreach continues to coordinate the strategic placement of advertisements in various publications, programs, and newsletters to complement the School of Nursing’s attendance at various recruitment events. The Associate Dean for Student Affairs & Alumni Relations, Director of Recruitment, Director of Operations & Communications, and Assistant Director of Marketing & Communications continue to collaborate regularly on marketing and social media advertising campaigns to attract national and international applicants.

Table D. 1.

SON Endowments and/or Scholarships

Scholarship Name	Undergrad or Grad	# of students Awarded	Award Total
Adam Steele Endowed Scholarship	Undergraduate	1	\$750

African American Nursing Alumni Scholarship	Undergraduate	1	\$3,800
Ann M.J. Reed Memorial Scholarship	Undergraduate	4	\$4,900
Alumni Senior Award	Undergraduate	1	\$500
Anne J. Pierce Endowed Fund for Student Resources	Undergraduate	1	\$1,175
B.K. Simon Family Charitable Foundation	Undergraduate	23	\$100,000
Barbara A. Schell Bonenberger Scholarship	Undergraduate	1	\$1,250
Bruno and Georgianna Feo Nursing Scholarship	Undergraduate	1	\$2,300
Caesar O. Aldisert MD, and Helen M. Aldisert BSN Nursing Scholarship	Undergraduate	6	\$19,800
Deborah Elaine Lawhorn Memorial Fund	Undergraduate	1	\$1,000
Donna Rae Shupe Thompson Memorial Scholarship	Undergraduate	4	\$2,200
Dr. Ann Gera Yurick Memorial Fund	Undergraduate	1	\$2,400
Dr. B. Joan McDowell Nursing Award	Undergraduate	1	\$630
Elaine F. Hagerty Memorial Nursing Student Resources Fund	Undergraduate	1	\$1,000
Ellen B. Rudy Endowed Scholarship for Future Nursing Leaders	Undergraduate	1	\$6,500
Elise A. Mannella Student Resource Award	Undergraduate	1	\$1,100
Frank & Anna Minno Scholarship Fund in Memory of their Daughter Lt. Col. Julia Minno	Undergraduate	1	\$7,400
Gail Nixon Rowles and Kenneth A. Rowles Scholarship	Undergraduate	1	\$980
Gerald R. and Helen Kissel Burns Resource Fund	Undergraduate	1	\$790
Helene Fuld Health Trust Endowed Scholarship	Undergraduate	9	\$13,050
Kathryn C. & John W. Conway Endowed Student Nursing Award	Undergraduate	4	\$7,200
Ladies Hospital Aid Society Endowed Fund for Student Resources	Undergraduate	1	\$980
Lila Decker Endowed Nursing Scholarship	Undergraduate	1	\$20,000
Lt. Ann Visnovsky Miner-Class of 1948 Nursing Scholarship Fund	Undergraduate	3	\$12,600
Monica Yoezle Memorial Student Resource Fund	Undergraduate	1	\$1,030
Nursing Academic Excellence Award	Undergraduate	1	\$2,100
Nursing Alumni Scholarships	Undergraduate	15	\$28,600
Pirates Alumni African-American Nursing Student Support	Undergraduate	1	\$1,200
Rebecca Olive McKinney Endowed Fund for Student Resources	Undergraduate	4	\$10,500
Shirley B. Jacobson Endowed Scholarship	Undergraduate	1	\$3,000
Stella Yaksich Endowed Scholarship	Undergraduate	1	\$2,300
Student International Travel	Undergraduate	0	\$0
Tommieroe Vawters-Backers Schp	Undergraduate	1	\$1,150
Tony & Mildred Sherry Savino Memorial Student Resource Fun	Undergraduate	1	\$1,200
Vincent and Filomena Varvaro Scholarship Fund	Undergraduate	1	\$3,300
Virginia G. Braley	Undergraduate	3	\$4,500

William Randolph Hearst Foundation Endowed Scholarship Fund for Undergraduate Students	Undergraduate	1	\$8,400
Abraham Constantino Scholarship	Graduate	1	\$2000
Beryl B. Haughton Jackson Endowed Fund for Graduate Students to Study Women's Health	Graduate	0	\$0
Bessie Li Sze Scholarship	Graduate	1	\$18,800
Boytim Student Award	Graduate	2	\$1,400
Cameos of Caring Endowed Nursing Scholarship	Graduate	26	\$92,795
Corrine M. Barnes Scholarship	Graduate	1	\$20,750
DNP Program Scholarship	Graduate	10	\$10,000
Doris E. & Davina Gosnell Endowed Nursing Scholarship	Graduate	1	\$2,500
Dorothy Drake Brooks Endowment	Graduate	1	\$1,900
E. Jane Martin Scholarship	Graduate	1	\$1,000
Elizabeth Bayer Baxter Student Resource Fund	Graduate	1	\$800
Elizabeth Lloyd Noroian Scholarship	Graduate	2	\$900
Ethel Lawyer Shaw Scholarship	Graduate	4	\$2,900
Gail A. Wolf Graduate Nursing Leadership Award	Graduate	1	\$2,500
Jeanne Swindell Wolfe Orr Endowed Fund for Graduate Students	Graduate	1	\$1,500
Jennifer Thuheimer-Cacciotti	Graduate	1	\$400
Lois G. Norton Award	Graduate	1	\$1,000
Margaret M. Dick Quasi-Endowed Scholarship in the School of Nursing	Graduate	15	\$37,050
Marie S. Houston Student Resource Fund	Graduate	1	\$1,000
Martha Malinzak Nursing Award	Graduate	1	\$460
Martha Malinzak Acute Care DNP Award	Graduate	1	\$1,000
Patricia Jones Hodgson Schp	Graduate	1	\$6,500
Patricia P. Lynch Scholarship	Graduate	2	\$3,200
Rose E. Constantino Endowed Scholarship	Graduate	1	\$2,200
Ruth & Bill Fincke, PhD Student Scholarship Award	Graduate	1	\$945
Nurse Anesthesia Program Sandra Sell "SPIRIT" Award	Graduate	1	\$1,100
Susan B. Edelstone Endowed Nursing Scholarship (Nursing Alumni)	Graduate	1	\$2,500
Susan Nath Bywaters Nurse Anesthesia Endowed Fund for Student Resources	Graduate	1	\$2,080
Szeming Sze Student Award	Graduate	2	\$11,000
The Dr. Mary DePaolis Lutzo and John Lutzo Endowed Scholarship	Graduate	1	\$800
W. Edward & Jeannette L. Wolfe Memorial Fund	Graduate	1	\$1,600
William Randolph Hearst Endowed Nursing Scholarship	Graduate	1	\$6,000
Total School of Nursing Endowments	187	\$518, 165	

TABLE D.2
HIGH SCHOOL PAID ADMITS SAT SCORES
THREE-YEAR COMPARISON

	Fall 2017	Fall 2018	Fall 2019
VERBAL	676	661	673
MATH	665	679	679
TOTAL	1,341	1,340	1352

TABLE D.3
HEADCOUNT ENROLLMENT DATA 2019-20
BY PROGRAM, GENDER/RACE

	Pre-Licensure			RN Options			Accelerated 2 nd Degree BSN			Master's			DNP			PhD			Grand Total
	Full	Part	Sub- Total	Full	Part	Sub- Total	Full	Part	Sub- Total	Full	Part	Sub- Total	Full	Part	Sub- Total	Full	Part	Sub- Total	
GENDER																			
Female	568	10	578	0	2	2	78	1	79	4	39	43	92	97	189	28	2	30	921
Male	66	1	67	0	1	1	17	0	17	0	9	9	25	36	61	1	0	1	156
TOTAL	634	11	645	0	3	3	95	1	96	4	48	52	117	133	250	29	2	31	1077
RACE																			
White	493	11	504	0	3	3	79	1	80	3	41	44	105	111	216	17	2	19	866
Black	35	0	35	0	0	0	7	0	7	0	2	2	3	8	11	0	0	0	55
Asian	78	0	78	0	0	0	7	0	7	1	4	5	5	10	15	9	0	9	114
Hispanic	24	0	24	0	0	0	1	0	1	0	0	0	2	1	3	1	0	1	29
Amind	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Not Specified	3	0	3	0	0	0	1	0	1	0	1	1	2	3	5	2	0	2	12
TOTAL	634	11	645	0	3	3	95	1	96	4	48	52	117	133	250	29	2	31	1,077

Data Source: Fall Enrollment Report (PS Term 220)

TABLE D.4
ENROLLMENT STATISTICS (FTE) FIVE-YEAR COMPARISON

Program	2015-16	2016-17	2017-18	2018-19	2019-20
BSN Degree					
Pre-Licensure	480.8	461.8	500	566	638.4
Accelerated	58.4	56.8	78.4	83.4	95.4
Registered Nurse					
RN-BSN		0.4			1.2
RN-MSN	1.6	0.4			0
RN-DNP	0.8	0.8			0
Non-Degree		0.4	0.4	0.4	1.8
Non-Degree Intl Guest	5	3	6	2	2
Total UGRD	546.6	523.6	584.8	651.8	738.8
MSN Degree					
Anesthesia Nursing	111.4	124.4	79	37	0
Acute Care NP	0.4				
Adult NP					
Family NP					
Neonatal NP	9.2	11.2	11.6	6.6	3.4
Nurse Practitioner	9.6	11.2	11.6	6.6	3.4
CNS Med-Surg CNS	0.4				
Clinical Nurse Specialist	0.4				
Administration	0.4				
Clinical Nurse Leader	1.6		0.4		
Education					
Informatics					
Online Administration	2.4	2	0.8	0.8	0.4
Online Clinical Nurse Leader	11.4	13.4	13.2	15.6	14.8
Online Informatics	5.6	3.8	2.8	3.6	4.6
Nurse Specialty Role	21.4	19.2	17.2	20	19.8
Total MSN	142.8	154.8	107.8	63.6	23.2
DNP Degree					
Anesthesia DNP		2	35	77.2	89.8
Anesthesia Online DNP	5.6	4.8	1.6	2.4	3.6
Anesthesia Nursing	5.6	6.8	36.6	79.6	93.4
Acute Care NP	2.8				
Adult Gerontology Acute Care NP	28.2	18.8	15	12.8	11
Adult NP					
Adult Gerontology Primary Care NP	1	2	1	1.8	3.4
Family (Individual Across Life Span) NP	27.4	21	18	14.8	13
Neonatal NP	1	1.4	0.4	0.4	1
Pediatric Primary Care NP	12.4	5.2	5.8	6.6	7.8
Psych Mental Health NP	5.4	3.8	6.8	12.8	12.4
Online Acute Care NP	1.8	0.8			
Online Adult Gerontology Acute Care NP	2	3.4	2.4	0.8	0.8
Online Adult NP					

Online Family(Individual Across Life Span) NP	4	2.8	5	3.6	3.2
Online Neonatal NP	0.8	1			0.8
Online Pediatric Primary Care NP	0.8	0.8	0.8	0.4	0
Online Psych Mental Health NP	0.4				
Nurse Practitioner	88	61	55.2	54	53.4
Adult Gerontology CNS		0.4	3	3	2.4
Medical Surgical CNS	1.4	0.4			
Online Adult Gerontology CNS	0.4	0.8	2.8	2.8	2.2
Online Medical Surgical CNS	1.6				
Online Psych Primary Care CNS	0.4	0.4	1		
Clinical Nurse Specialist	3.8	2	6.8	5.8	4.6
Administration	1.8				
Online Administration	7.6	8.4			
Health Systems Executive Leadership			1.4	0.4	0
Online Health Systems Executive Leadership			10.6	13.4	13.4
Nurse Specialty Role	9.4	8.4	11	13.8	13.4
Nurse Midwife		3.4	3.6	5.4	5.4
Total DNP	106.8	81.6	113.2	158.6	170.2
PhD Degree					
PhD Degree	32.6	28.6	26.2	28.4	29.8
Total PhD	32.6	28.6	26.2	28.4	29.8
Certificate Programs					
Post-Master's ACNP	1.4	1.2	0.4		
Post-Master's Adult Gerontology ACNP				0.8	0
Post Master's Psychiatric Mental Health NP				0.4	0.4
Post-Master's Informatics	0.8	0.4			
Online Post-Master's Informatics			0.8	0.4	0.4
Online Adult Gerontology ACNP					2.8
Online Gerontology for NP Crt					0.4
Post-Master's Education					
Health Care Genetics					
Doctoral Research					
Certificate Programs	2.2	1.6	1.2	1.6	4
Graduate Non-Degree	13	13	8.8	9.2	4.2

TABLE D.5
ALL NON-DEGREE HEADCOUNT ENROLLMENT DATA 2019-20
BY PROGRAM, GENDER/RACE

	Non-degree Undergrad			Non-degree Master's, DNP, PhD			Post Master's Certificates			Grand Total
	Full	Part	Sub-Total	Full	Part	Sub-Total	Full	Part	Sub-Total	
GENDER										
Female	3	1	4	0	7	7	2	5	7	18
Male	0	1	1	1	1	2	0	0	0	3
TOTAL	3	2	5	1	8	9	2	5	7	21
RACE										
White	1	2	3	1	8	9	1	4	5	17
Black	0	0	0	0	0	0	0	0	0	0
Asian	2	0	2	0	0	0	1	1	2	4
Hispanic	0	0	0	0	0	0	0	0	0	0
Amind	0	0	0	0	0	0	0	0	0	0
Not Specified	0	0	0	0	0	0	0	0	0	0
TOTAL	3	2	5	1	8	9	2	5	7	21

Data Source: Fall Enrollment Report (PS Term 2201)

TABLE D.6
PRE-LICENSURE /UNDERGRADUATE HEADCOUNT ENROLLMENT DATA 2019-20
BY RACE AND YEAR

	First Year			Second Year			Third Year			Fourth Year			Grand Total
	Full	Part	Total	Full	Part	Total	Full	Part	Total	Full	Part	Total	
RACE													
White	136	0	136	149	0	149	112	3	115	96	8	104	504
Black	12	0	12	9	0	9	4	0	4	10	0	10	35
Asian	23	0	23	20	0	20	20	0	20	15	0	15	78
Hispanic	16	0	16	6	0	6	1	0	1	1	0	1	24
Amind	0	0	0	0	0	0	1	0	1	0	0	0	1
Not Specified	1	0	1	1	0	1	0	0	0	1	0	1	3
TOTAL	188	0	188	185	0	185	138	3	141	123	8	131	645

Data Source: Fall Enrollment Report (PS Term 2201)

TABLE D.7
**PRE-LICENSURE/UNDERGRADUATE HEADCOUNT ENROLLMENT DATA
 BY YEAR (FIVE-YEAR COMPARISON)**

Academic Year	First Year	Second Year	Third Year	Fourth Year	Grand Total
2015-16	123	112	117	130	482
2016-17	134	110	106	113	463
2017-18	156	137	103	104	500
2018-19	193	145	132	99	569
2019-20	188	185	141	131	645

Data Source: Fall Enrollment Reports (PS Terms 2161, 2171, 2181, 2191, 2201)

TABLE D.8
PERMANENT RESIDENCE OF PhD STUDENTS 2019-20

USA	China	Hong Kong	Jordan	Korea	Korea, Democratic People's Rep	Saudi Arabia
19	4	1	2	2	2	1

Data Source: Fall Enrollment Report (PS Term 2201)

TABLE D.9
COMPARISON OF RESIDENCY 2019-20

	In-State	Out of State
Undergrad (pre-licensure)	357	284
RN Options	3	0
Accelerated 2 nd Degree BSN	83	13
Master's	38	14
DNP	181	69
PhD	14	17

Does not include non-degree seeking students.
Includes both full and part time students.

TABLE D.10
ADMISSIONS SUMMARY
RN OPTIONS PROGRAM FIVE YEAR COMPARISON

		2015-16	2016-17	2017-18	2018-19	2019-20
Applications	RN-BSN		6	13	11	12
	RN-MSN	8				1
	RN-DNP	2			1	
	Total	10	6	13	11	13
Admissions	RN-BSN		4	10	2	3
	RN-MSN	1				
	RN-DNP	2				
	Total	3	4	10	2	3
New Enrollment	RN-BSN		1		2	1
	RN-MSN					
	RN-DNP	2				
	Total	2	1		2	1

Data Source: STARS Database

TABLE D.11 – GRADUATE APPLICATIONS 2019-20

	Applications	Complete Application	Pending (Advised)	Incomplete or Expired	Withdrawn Application	Rejected	Admitted (Offered Admission)			Pending Acceptance	Declined/Not Responded	Accepted	Plan Checked	Never Enrolled	Enrolled
							Full Time	Part Time	Total						
Neonatal NP	1	1						1	1			1		1	
Nurse Specialty Roles Nursing Informatics ONLINE	10	9	1				1	6	7		2	5			5
Clinical Nurse Leader ONLINE	18	17		1			6	11	17		1	17		4	13
TOTAL Master's	29	27	1	1		1	7	17	24		3	23		5	18
Anesthesia	135	120	4	11	10	74	51		51		7	44		1	43
Anesthesia ONLINE	6	5		1		4		2	2			2			2
Adult Gerontology Acute Care NP	22	16	3	3	1	5	11	3	14		2	12		3	9
Adult Gerontology Acute Care NP ONLINE	2	2						2	2		11	1			1
Adult Gerontology Primary Care NP	3	3					2	1	3			3		1	2
Family (Individual Across the Lifespan) NP	13	11	1	1		7	4		4		1	3		1	2
Family (Individual Across the Lifespan) NP ONLINE	4	4						3	3			3			3
Pediatric Primary Care NP	9	3	5	1	1	3	4		4		1	3			3
Psych Mental Health NP	13	9		4	1	5	2	1	3		2	1			1
Neonatal NP ONLINE	2	1	1				1	1	2			2			2
Clinical Nurse Specialist Adult Gerontology	1	1					1		1			1			1
Clinical Nurse Specialist Adult Gerontology ONLINE	2	2						2	2			2			2
Health Systems Executive Leadership				1											
Health Systems Executive Leadership ONLINE	12	9		2			1	8	9		1	8			8
Nurse Midwife	2	2					2		2			2	1		1
TOTAL DNP	226	188	14	24	13	98	79	23	102		25	87	1	6	80
PhD	16	11	1	4		4	12		12		4	8			8

Data Source: STARS Application

Table D.12: Graduate Applicants/Admits/Acceptance/Enrolled

	Acad. YR	Applicants	Admitted	Accepted	Enrolled
MSN	2015-16	206	72	64	55
	2016-17	275	132	126	58
	2017-18	89	74	71	35
	2018-19	42	35	30	28
	2019-20	29	24	22	18
DNP	2015-16	78	46	36	33
	2016-17	118	75	61	54
	2017-18	236	105	95	84
	2018-19	215	102	88	82
	2019-20	226	102	87	80
PhD	2015-16	21	11	9	9
	2016-17	17	5	3	3
	2017-18	10	2	2	2
	2018-19	15	10	8	8
	2019-20	16	12	8	8
TOTAL	2015-16	305	129	109	97
	2016-17	410	212	190	115
	2017-18	335	181	168	121
	2018-19	272	147	126	118
	2019-20	269	135	113	85

TABLE D.13

GRADUATION STATISTICS FIVE-YEAR COMPARISON

Program	2015-16	2016-17	2017-18	2018-19	2019-20
Pre-Licensure (UPO)	147	118	106	101	132
Pre-Licensure (UPJ)	42	29	40	31	38
Accelerated 2 nd Degree BSN	60	52	65	82	102
RN-BSN (UPO)		2			
RN-BSN (UPJ)	1				
RN-MSN (UPO)	1	1	2		
RN-DNP (UPO)		1	1	1	
Total BSN	251	203	214	215	272
Anesthesia	41	44	42	37	

Acute Care NP	2				
Neonatal NP	1	6	2	7	5
CNS Adult Gerontology	1				
NSR-Administration	1		1		
NSR-Administration ONLINE	3	3		1	1
NSR-Informatics ONLINE	6	5	2	2	3
Clinical Nurse Leader	1	1			
Clinical Nurse Leader ONLINE	7	6	8	8	5
Total MSN	62	65	55	55	14
Anesthesia DNP					28
Anesthesia ONLINE	3	7	1	1	1
Midwife DNP					1
Adult Gerontology Acute Care	18	12	5	9	2
Adult Gerontology Acute Care ONLINE	1	1	7		
Adult Gerontology Primary Care	2			1	
Adult Gerontology Primary Care ONLINE	1				
Family (Individual Across the Life Span)	10	11	16	2	
Family (Individual Across the Life Span) ONLINE	1	1	2	1	1
Neonatal			1		
Neonatal ONLINE		1		1	
Pediatric Primary Care	4	7	4	1	
Pediatric Primary Care ONLINE			1	1	
Psychiatric Mental Health	2	2		2	
CNS Med-Surgical	2	1			
CNS Med-Surgical ONLINE	2	1			
CNS Adult-Gerontology			2	1	
CNS Adult-Gerontology ONLINE			1	1	
CNS Psych Primary Care ONLINE			1		
NSR-Administration	4				
NSR-Administration ONLINE	4	4	1		
NSR Health Systems Executive ONLINE			7	3	4
Total DNP	53	48	49	24	37
PhD Degree	11	4	3	6	7
Minors	3		6	2	4
Certificate Programs	4	3	1	5	
GRAND TOTAL	385	323	328	307	334

Data Source: STARS Database / Graduation Report, UPJ Statistics

TABLE D.14
GRADUATION STATISTICS BY PROGRAM
DEMOGRAPHICS DATA 2018-20

	Pre-Licensure	RN Options	Accelerated 2 nd Degree BSN	Master's	DNP	PhD	Minors	Certificate Programs	Grand Total
GENDER									
Female	146	0	81	12	25	7	2	0	273
Male	23	0	20	2	12	0	2	0	59
TOTAL	169	0	101	14	37	7	4	0	332
White	138	0	89	12	30	0	2	0	271
Black	11	0	5	1	1	1	1	0	20
Asian/Pacific Islander	17	0	5	1	3	5	0	0	31
Hispanic	2	0	1	0	1	0	1	0	5
American Indian/Alaskan Native	0	0	0	0	0	0	0	0	0
Not Specified	1	0	1	0	2	1	0	0	5
TOTAL	169	0	101	14	37	7	4	0	332

Data Source: STARS Database/Graduation Report (2187, 2191, 2194 Terms)
UPJ Statistics, Data Warehouse

TABLE D.15
MEAN GRE SCORES FOR ADMITTED PhD STUDENTS

Academic Year		Verbal (V)	Quantitative (Q)	Analytical Writing (AW)
2015-16	Old GRE (1)	430	630	3.6
	New GRE (8)	154	154	

2016-17	New GRE(2)	163	157	4.0
2017-18	New GRE(2)	149	154.5	3.75
2018-19	New GRE(10)	152.3	149.7	4.15
2019-20	New GRE(8)	154.8	158.0	3.88

Data Source: STARS Database

TABLE D.16
MASTER'S SPECIAL NON-DEGREE

Term	Number of Students	Total Credits Taken	Average Credits Taken
2201	23	84	3.82
2204	19	73	3.84
2207	6	20	3.33

Data Source: STARS Database (2201, 2204, 2207 Terms)

TABLE D.17
YEARLY INQUIRIES FROM STARS

	Inquiries
Total Inquiries	3,354
In-State inquiries	1,275
Out of State inquiries	1,027
Others	1,052

(July 1st, 2019 to June 30th, 2020)

TABLE D.18
INQUIRIES BY PROGRAM FROM STARS

Program	PA	OOS	Other	Inquiries	%
BSN	263	101	236	600	17.89%
PRE-LICENSURE	10	2	3	15	0.45%
ACCELERATED PROG.	139	70	101	310	9.24%
UG-EXT TRANSFER	8	2	16	26	0.78%
UG-INT TRANSFER	2	0	11	13	0.39%
RN-BSN	62	15	53	130	3.88%
RN-MSN	22	6	21	49	1.46%
RN-DNP	20	6	30	56	1.67%
RN Options	0	0	1	1	0.03%
MSN	189	109	180	478	14.25%

MSN MASTERS UNDECIDED	28	33	60	121	3.61%
MSN NSR Nursing INFORMATICS	9	3	7	19	0.57%
MSN NSR Nursing INFORMATICS ONLINE	44	22	12	78	2.33%
MSN NSR Clinical Nurse Leader	48	24	85	157	4.68%
MSN NSR Clinical Nurse Leader ONLINE	60	27	16	103	3.07%
DNP	682	667	495	1,844	54.98%
DNP Undecided	51	43	89	183	5.46%
DNP Anesthesia	149	238	112	499	14.88%
DNP NP Adult Gerontology Acute Care	61	45	35	141	4.20%
DNP NP Adult Gerontology Primary Care	29	16	15	60	1.79%
DNP NP Family (Individual Across Lifespan)	98	39	56	193	5.75%
DNP NP Neonatal	39	35	22	96	2.86%
DNP NP Pediatric Acute Care	7	2	2	11	0.33%
DNP NP Pediatric Primary Care	39	22	11	72	2.15%
DNP NP Psychiatric Mental Health	47	52	22	121	3.61%
DNP NP Adult Gerontology Acute Care ONLINE	14	21	1	36	1.07%
DNP NP Adult Gerontology Primary Care ONLINE	8	7	4	19	0.57%
DNP NP Family (Individual Across Lifespan) ONLINE	28	18	2	48	1.43%
DNP NP Neonatal ONLINE	5	10	2	17	0.51%
DNP NP Pediatric Primary Care ONLINE	12	7	1	20	0.60%
DNP NP Psychiatric Mental Health ONLINE	18	19	5	42	1.25%
DNP CNS Adult Gerontology	11	10	4	25	0.75%
DNP NSR Health Systems Executive Leadership	19	15	81	115	3.43%
DNP NSR Health Systems Exec.Leadership ONLINE	17	25	14	56	1.67%
DNP Nurse Midwife	30	43	17	90	2.68%
PhD	16	17	31	64	1.91%
Certifications	92	125	96	313	9.33%
Adult Gerontology Acute Care Certification Post MSN	13	70	25	108	3.22%
Adult Gerontology Certification Post MSN	3	9	8	20	0.60%
Education Certification Post MSN	9	6	2	17	0.51%
Informatics Certification Post MSN	2	0	3	5	0.15%
Informatics Certification Post MSN ONLINE	8	11	4	0	0.00%
Psych Primary Care NP Certification Post MSN	14	13	11	38	1.13%
Health Care Genetics Certificate Post MSN	2	1	0	3	0.09%
Research Certification Post MSN	4	6	3	13	0.39%
Neonatal Certification Post MSN	4	4	3	11	0.33%
Pediatric Acute Care Nurse Practitioner Post MSN	1	0	0	1	0.03%
Health Care Genetics Certificate Post Baccalaureate	7	1	1	9	0.27%
Research Certification Post Baccalaureate	7	3	5	15	0.45%
School Nurse Certification	18	1	31	50	1.49%
NON DEGREE MSN, DNP, PhD	31	7	8	46	1.37%
GENERAL INQUIRY	2	1	6	9	0.27%

Grand Total	1,275	1,027	1,052	3,354	100.00%
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