

UNIVERSITY OF PITTSBURGH

SCHOOL OF NURSING



**Annual Report
2020- 2021**

UNIVERSITY OF PITTSBURGH SCHOOL OF NURSING

ANNUAL REPORT 2020-2021

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Under the leadership 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 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 nursing practice in the clinical, research, and teaching arenas, which includes students who are graduating as well-prepared nursing leaders.

ACCOMPLISHMENTS:

1. Continued excellence in educational programs: Over the past academic year the School of Nursing has improved its rankings for the Doctor of Nursing Practice program (6th nationally) and retains its place in the top 25 schools of nursing worldwide. 25 of 91 (27%) faculty serve on a total of 42 UPMC committees.
2. Continued excellence in nursing scholarship: The NIH research rank was retained at 6th in the nation. 70% of tenured and 77% of tenure-stream faculty have research funding. 100% of full time faculty (both tenure and appointment streams) in the school published at least one article during the year, with a total of 801 publications from 91 faculty, making Pitt the 3rd ranked school in faculty publications. Faculty continue to provide leadership in interdisciplinary team science. Two faculty (Bender & Rosenzweig) have leadership positions in the Hillman Cancer Center research activities and one faculty (Lingler) has a leadership position in the NIA Alzheimer's Disease Research Center. 11% of faculty are from diverse underrepresented groups.
3. Continued excellence in student profile: The school continues to be attractive to students across the United States. Enrollment for the year included a nearly equal distribution of out-of-state and in-state students. Student characteristics reflected a highly qualified group of young men and women based upon standardized test scores (SAT above 1340 and GRE at or above the 50th percentile) and previous grade point averages (4.02 for undergraduate and about 3.7 for graduate). Diversity continued to increase with the proportion of diverse students in each program being: undergraduate = 23%; second degree = 15.6%; master's = 7.7%; DNP = 11.7%; PhD = 24% for an overall school total of 19.4% diverse students (Black, Hispanic, Asian). There was an increase of students in the honors college (7). 91.61% of prelicensure students passed their licensure examination on the first trial. 100% of MSN, NP, NM, and CNS students and 92% of NA students passed their national certification examinations the first time.

FUTURE INITIATIVES

1. Increase pre-licensure enrollment without reducing quality
2. Increase graduate enrollment in concert with University goals, focusing on doctoral programs
3. Continue to pursue approval and open new programs
 - a. Master's entry program for second degree students and hopefully move the second degree BSN program to a regional campus
 - b. Acute care pediatric nurse practitioner program - DNP
4. Continue to pursue international collaborative opportunities
 - a. Two programs with Capital Medical University in China
 1. First NP program in China
 2. English language undergraduate program in China
 - b. Undergraduate pediatric nursing education program collaborative with Universitat Pompeu Fabra in Spain and Fundacion Universitaria Juan N Corpas in Columbia
5. Collaborate with UPMC Wolff Center on graduate student projects and publications
6. Jointly hire, with Dentistry, a student counselor through the University Counseling Center to address student needs
- 7.

RESPONSE TO COVID

1. All meetings and classes were converted to zoom format. Faculty and staff were purchased a laptop to be managed through the school technology office to facilitate work from home and secure computer resources.
2. Student clinicals were cancelled for 4 months and then reduced to ½ of allotted time. Certain clinical sites were closed to students. Online and zoom delivered simulations and case studies were substituted for the clinical hours not occurring in the clinical sites. Permission was sought and granted from the State Board of Nursing for this alteration.
3. A significant purchase of smart simulators were purchased along with the relevant computers and software to permit an increase in onsite simulation, again at ½ of students for ½ of the hours.
4. Significant staff and faculty retirements coupled with a hiring slow down and budget reductions required extra work for all faculty and staff. We saw the loss of 13 full time staff and 8 (of 91) full time faculty, including key positions, i. e. building manager, international director, associate budget manager, continuing education director, student recruitment director, director of IT services from the staff and associate dean for graduate clinical education from the faculty.
5. We instituted weekly zoom meetings for all faculty and staff for announcements, celebration of individual and school accomplishments, and open discussions. These will continue during the coming year.
6. No student fell behind in their studies and all graduated at their intended time. Thesis, project, and dissertations defenses were held via zoom.
7. Faculty research was interrupted. Most of the research in the School of Nursing involves direct interface with community or hospitalized research participants and so was put on hold following University research directives. At the point of this writing all research is back in operation.
8. Faculty and staff and students lost family members, were themselves infected with COVID, and experienced unusual stress during the year. We all tried to be supportive and to pick up the work of others as illnesses, deaths, and multiple University demands impacted the full nursing family.

1. Students

a. Enrollment

TOTAL HEADCOUNT ENROLLMENT 2020-21

| | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 |
|--|---------|---------|---------|---------|---------|
| PRE-LICENSURE | 463 | 500 | 569 | 645 | 676 |
| RN-BSN COMPLETION | 4 | 0 | 0 | 3 | 2 |
| ACCELERATED 2 nd DEGREE BSN | 58 | 79 | 84 | 96 | 77 |
| MASTER'S | 183 | 130 | 90 | 52 | 38 |
| DNP | 138 | 163 | 215 | 250 | 255 |
| PhD | 31 | 28 | 29 | 31 | 33 |
| NON-DEGREE/Undergrad* | 4 | 7 | 3 | 5 | 1 |
| NON-DEGREE/MASTER'S, DNP, PhD | 31 | 22 | 23 | 9 | 13 |
| POST MASTER CERT. | 4 | 3 | 4 | 7 | 16 |
| TOTALS | 916 | 932 | 1,017 | 1,098 | 1,111 |

b. Student Diversity

HEADCOUNT ENROLLMENT DATA 2020-2021 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 | 597 | 11 | 608 | 0 | 1 | 1 | 57 | 1 | 58 | 1 | 32 | 34 | 92 | 96 | 188 | 32 | 0 | 32 | 920 |
| Male | 66 | 2 | 68 | 0 | 1 | 1 | 18 | 1 | 19 | 0 | 5 | 5 | 32 | 35 | 67 | 1 | 0 | 1 | 161 |
| TOTAL | 663 | 13 | 676 | 0 | 2 | 2 | 75 | 2 | 77 | 1 | 38 | 39 | 124 | 131 | 255 | 33 | 0 | 33 | 1,081 |
| RACE | | | | | | | | | | | | | | | | | | | |
| White | 503 | 11 | 514 | 0 | 2 | 2 | 62 | 2 | 64 | 1 | 32 | 33 | 109 | 112 | 221 | 23 | 0 | 23 | 857 |
| Black | 35 | 0 | 35 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 4 | 8 | 0 | 0 | 0 | 47 |
| Asian | 76 | 2 | 78 | 0 | 0 | 0 | 8 | 0 | 8 | 0 | 3 | 3 | 8 | 11 | 19 | 8 | 0 | 8 | 116 |
| Hispanic | 43 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 46 |
| Amind | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Not Specified | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 4 | 2 | 0 | 2 | 13 |
| TOTAL | 663 | 13 | 676 | 0 | 2 | 2 | 75 | 2 | 77 | 1 | 37 | 39 | 124 | 131 | 255 | 33 | 0 | 33 | 1,081 |

c. Graduation Rates

GRADUATION STATISTICS FIVE-YEAR COMPARISON

| Program | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 |
|----------------------|------------|------------|------------|------------|------------|
| Total BSN | 203 | 214 | 215 | 272 | 261 |
| Total MSN | 65 | 55 | 55 | 14 | 11 |
| Total DNP | 48 | 49 | 24 | 37 | 72 |
| PhD Degree | 4 | 3 | 6 | 7 | 5 |
| Minors | | 6 | 2 | 4 | 3 |
| Certificate Programs | 3 | 1 | 5 | | 10 |
| GRAND TOTAL | 323 | 328 | 307 | 334 | 362 |

GRADUATION STATISTICS BY PROGRAM DEMOGRAPHICS DATA 2020-21

| | BSN 4-years | RN Options | Accel. 2 nd BSN | MSN | DNP | PhD | Minors | Certificate Programs | Grand Total |
|--------------------------------|-------------|------------|----------------------------|-----------|-----------|----------|----------|----------------------|-------------|
| GENDER | | | | | | | | | |
| Female | 154 | 0 | 60 | 11 | 54 | 5 | 3 | 9 | 296 |
| Male | 28 | 0 | 19 | 0 | 18 | 0 | 0 | 1 | 66 |
| TOTAL | 182 | 0 | 79 | 11 | 72 | 5 | 3 | 10 | 362 |
| | | | | | | | | | |
| White | 154 | 0 | 67 | 11 | 61 | 4 | 3 | 8 | 308 |
| Black | 6 | 0 | 4 | 0 | 1 | 0 | 0 | 2 | 13 |
| Asian/Pacific Islander | 20 | 0 | 6 | 0 | 7 | 0 | 0 | 0 | 33 |
| Hispanic | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 4 |
| American Indian/Alaskan Native | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Not Specified | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| TOTAL | 182 | 0 | 79 | 11 | 72 | 5 | 3 | 10 | 362 |

d. Attrition of African American Students Across 5-years

PRE-LICENSURE/UNDERGRADUATE AFRICAN AMERICAN ATTRITION FIVE YEAR COMPARISON

| Year Enrolled | Original # Enrolled | Withdrew | Academic Dismissal | Transferred within University | Total Number Left SON | Attrition Rate (%) |
|---------------|---------------------|----------|--------------------|-------------------------------|-----------------------|--------------------|
| 2016-17 | 11 | 0 | 1 | 0 | 1 | 9.09 |
| 2017-18 | 4 | 1 | 0 | 0 | 1 | 25.00 |
| 2018-19 | 12 | 0 | 0 | 1 | 1 | 0.00 |
| 2019-20 | 12 | 0 | 0 | 0 | 0 | 0.00 |
| 2020-21 | 11 | 2 | 0 | 0 | 2 | 18.00 |

e. BSN Licensing

NCLEX RESULTS: FIRST TIME EXAMINEES FIVE YEAR COMPARISON

| Class of Year | SCHOOL OF NURSING | | | PA PASS RATE (%) | NATIONAL PASS RATE (%) |
|---------------|-------------------|-----------------|---------------|------------------|------------------------|
| | NUMBER TESTED | (NUMBER PASSED) | PASS RATE (%) | | |
| 2016 | 246 | 221 | 89.84 | 87.93 | 84.30 |
| 2017 | 197 | 179 | 90.86 | 91.10 | 88.94 |
| 2018 | 211 | 198 | 93.84 | 92.84 | 87.56 |
| 2019 | 214 | 191 | 89.25 | 91.61 | 88.07 |

f. Graduate Students Certification 1st Time Pass Rates

| | 2016 | 2017 | 2018 | 2020 |
|---|-----------|-----------|-----------|---------------------|
| <u>MSN Program</u> | | | | |
| Clinical Nurse Leader | 50 (n=2) | 100 (n=4) | 100 (n=7) | 100 |
| Neonatal Nurse Practitioner | 100 (n=6) | 100 (n=3) | 100 (n=7) | 100 |
| <u>DNP Programs</u> | | | | |
| DNP Nurse Practitioner | | | | |
| AGACNP | 100 (n=1) | 100 (n=3) | 100 (n=8) | 100 |
| AGPCNP | No takers | 100 | No takers | No takers |
| FNP | 100 (n=4) | 50 (n=2) | 100 (n=6) | 100 |
| NNP | No grads | No grads | No grads | No takers |
| PNP | 89 (n=9) | 100 (n=1) | 100 (n=3) | 100 |
| PMHMP | 100 (n=3) | no takers | No takers | 100 |
| Clinical Nurse Specialist | 100 (n=1) | 100 (n=1) | 100 (n=1) | 100 |
| Nurse Midwifery | | | | 100 |
| Nursing Anesthesia | 95 (n=44) | 98 (n=42) | 87 (n=37) | 76 (n=29) |
| (note: overall pass rate is 100 every year) | | | last MSN | 1 st DNP |

g. BSN Honors Graduates with Theses

Undergraduate Students in BSN-Honors Program

| Class of Academic Year | # of graduates (Honors admitted) | # of graduates (Non Honors admitted) | # of graduates with Honors |
|------------------------|----------------------------------|--------------------------------------|----------------------------|
| 2016-2017 | 0 | 3 | 3 |
| 2017-2018 | 1 | 2 | 3 |
| 2018-2019 | 2 | 3 | 5 |
| 2019-2020 | 1 | 1 | 2 |
| 2020-2021 | 4 | 3 | 7 |

BSN-H Thesis Presentations 2020-2021

| Student Name | Thesis Advisor | Thesis Title |
|-----------------|-------------------|---|
| Matthew Pyankov | Jennifer Seaman | Analysis of Role of 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 |
| Kailaina Corbo | Elizabeth Schlenk | Association of Number of Comorbidities and Health-related Quality of Life in Patients with Rheumatoid Arthritis |

| | | |
|------------------|------------------------------------|--|
| Ashley Van Slyke | Heeyoung Lee | Exploring mental health literacy among undergraduate college students |
| Kailen Heath | Marci Nilsen | The Role of Health Literacy on Hospital Utilization for Head and Neck Cancer Patients Undergoing Radiation Therapy |
| Jennifer Stemler | Salah Al-Zaiti Stephanie Frisch | Taking a Closer Look at Using The Emergency Severity Index Tool at Emergency Department Triage for Patients Who Present With Suspected Acute Coronary Syndrome |
| Lacey Maclay | Salah Al-Zaiti | Examining the Relationship between Ischemic Preconditioning and Apoptosis and Autophagy in ST-Elevation vs. Non-ST Elevation Acute Myocardial Infarction |
| Long Tran | Eileen Chasens | The Associations between Pain, Sleep, Global Health, and Functional Outcomes in Older Adults |

h. **Student Leadership**

The SON Student Leadership groups are the following 1. Nursing Student Association (NSA), 2. VITAL, 3. Kappa Beta Chapter, and 4. Graduate Nursing Student Organization (GNSO). Students from each organization report their activities below.

1. Pitt Nursing Student Association (Pitt NSA)

Faculty: **Dr. Susan Wesmiller and Dr. Jamie Zelazny**

Student leadership:

Haley Marra, President
 Kate O'Meara, Vice President
 Melissa Lancellotti, Business Manager
 Julia Patterson, Secretary
 Kaitlyn Eastburn, Professional Development Chair
 Clare Stansbury, Health Promotion Chair
 Alexa Fasone, Service Chair
 Krista Devane, Social Chair
 Emma Zarett, Fundraising Chair (Food, PR committee)
 Madeleine Pennington, Fundraising Chair (Clothing)

A list of activities the student group has completed or been involved in over this last year (July 1, 2020- June 30, 2021)

- Held recorded GBMs twice a month via Zoom
 - Initiated a first-year advice panel which was very helpful for all the anxious freshmen and sophomores to talk to upperclassmen
- Initiated the Health Equity Committee which presented at each GBM
 - Black maternal and infant mortality, Effects of stress/mental health, LGBTQIA+ care, inequalities in healthcare for individuals with disabilities
 - Donations to BMMA
- Cards for Humanity - NSA students over 200 cards were made to reach out to those who are alone during COVID, including but not limited to the elderly.
- Chipotle fundraiser
- Reach out and advocacy to the community via social media about the importance of wearing masks
- Change Challenge - Greater Pittsburgh Community Food Bank - \$340
- Voting campaign urging students to vote
- Fundraiser for 412 Thrive
- Guest speakers throughout the year addressing topics such as

- Workplace bullying, not passing the NCLEX on the first try, and other things we normally think are taboo to talk about
- Careers in anesthesia – Pitt DNP program
- Resume building and interview tips from UPMC recruiters
- Career opportunities in Neonatology and Pediatrics, Pitt DNP programs by Jenna Bench
- Oncology, leadership, and the importance of participation in professional organizations by Dr. Fennimore
- Held UPMC Campus Ambassador Panel for 40-75 attendees with 5 panelists
- Clothing fundraiser in Fall and Spring
- Coordinated Mental Health Check-In Day via Zoom with the Counseling Center
- Yoga classes via Zoom throughout the semester
- Movie Nights via Zoom throughout the semester
- Game Nights via Zoom throughout the semester
- Virtual Mock Interviews for the upcoming Student Nurse Internship interviews
- Kahoot/Zoom NCLEX Bowl
- Toy Drive with Sigma Theta Tau – raised \$131
- Pitt Day of Giving 2/23- recruited social media ambassadors
- Made and sent Valentines for Veterans
- Freerice – online project to send rice to families in need
- Project Implicit online activities to increase awareness of internal biases
- Days for Girls (donated money and sent items from Amazon). This is a non-profit organization to provide menstrual product to girls who are in need and might otherwise miss school
- Charity miles
- Health Promotion initiative- posting informational Instagram story about the COVID- vaccine, wearing a mask, social distancing)
- Vitalant Blood Drives
- Started NCLEX question of the week on Instagram
- Zoom baking night 2/20- chocolate lava cake making!
- Stethoscope drive
- Participation in virtual SNAP LEAD workshop to build leadership skills for underclassmen
- Puppy Rug event for Animal Friends
- Volunteered at the Diaper Bank
- Volunteered at COVID-19 vaccination clinics
- Linked In Headshot Photoshoot
- Participated in the Shot @ Life campaign through the UN
- PACT Virtual 5K 4/4- 4/11: 100% of the proceeds were donated to UPMC Hillman Cancer Center
- American Foundation for Suicide Prevention- Out of the Darkness: Campus Walks
 - Raised \$4,728
- Participated in the virtual SNAP and NSNA annual conventions
- Milkshake Factory Fundraiser
- Participated in NSNA LGBTQ Health Mentorship Program
- Volunteered at the ICP Food Pantry

2. VITAL

Faculty: Willa Doswell

Student leadership:

- Current
 - Sabella Prime- President
 - Amanda Ehiri- Vice President
 - Karissa Johnson- Business Manager
 - Marlorie Pierre- Mentorship Chair
- Past
 - Gbemisola Dele-Lawal- President
 - Sabella Prime- Vice President
 - Ravyn Johnson- Business Manager

Activities:

- Monthly meetings with members
- Volunteering with Pitt's Homewood Community Engagement Center
- Monthly meetings with Pittsburgh Black Nurses in Action (PBNIA)
- One-on-one mentoring program between students and licensed nurses of PBNIA
- Social events including a virtual game night and post-midterm relaxation session
- Pitt Day of Giving
- Used textbook drive

3. **Kappa Beta Chapter activities** between Aug. 2020 and August 2021

Two 1.5 hours (10 am - 11:30 am) health education session remotely held with 10-15 middle school students from the Homewood area on:

Sat., Feb. 27, 2021- Students interested in becoming Kappa Beta chapter members participated

Sat., March 6, 2021- Health education session sponsored by Kappa Beta chapter

Fri., March 12, 2021 - Community service project

4. **Graduate Nursing Student Organization (GNSO)**

Fall 2020-Summer 2021

Fall 2020 Board Members

President: Huan Mwana

Vice President: Meaghan Maydick

Treasurer: Alyssa Smith

Secretary: Katelyn Lupica

Class Liaisons: Brittany Deslandes (CRNA), Ellen Christy (Nurse-Midwife), Lisa Gawron (PhD), and Ross Barr (CRNA)

Faculty Advisor: Dr. Julius Kitutu

Activities:

- NSA hosts graduate student speakers September: 2nd, 15th, 30th; October 13th, 28th; November 10th.

- Call for publishing for Pitt SOM Multiforme magazine

- Financial support for Board exams for students financially impacted by Covid-19 pandemic.

- BeTheMatch campaign, November 14th

Participants: Graduate nursing students

Spring 2021

President: Jessica Davis

Vice President: Jennifer Vaccaro

Treasurer: Sarah Kempel

Secretary: Amber Desantis

Class Liaisons: Lauren Mealy (CRNA), Maria Fernald (DNP), Kristen Slagle (PhD)

Faculty Advisor: Dr. Julius Kitutu

Activities:

- The Living Donor Virtual Education Session

Participants: Undergraduate and graduate nursing students

2. Faculty

a. Academic Analytics Report

Academic Analytics provide the University of Pittsburgh with faculty scholarship data. Our nursing faculty is compared to other nursing schools within the United States. The Academic Analytics report showed 100% of the nursing faculty published an article. Additionally, the School of Nursing is ranked third in highest number of publications. The following top five are as follows:

Top 5 Nursing Schools in Number of Nursing Publications

| Rank and School Name | Total Number of Publications |
|-------------------------------|------------------------------|
| 1. University of Pennsylvania | 981 |
| 2. University of Michigan | 892 |
| 3. University of Pittsburgh | 801 |
| 4. University of Columbia | 724 |
| 5. John Hopkins | 702 |

Retrieved from AcademicAnalytics 7/15/2021

b. Faulty Numbers

| | Total | Full-time | Part-time | Full-time | | | Part-time | | |
|-----------|-------|-----------|-----------|-----------|--------|-------------|-----------|--------|-------------|
| | | | | Tenured | Junior | Appointment | Tenured | Junior | Appointment |
| Fall 2020 | 123 | 93 | 30 | 22 | 21 | 50 | 1 | 1 | 28 |

c. Faculty Diversity

| FACULTY 2020-2021 | | Female | Male | Total | | US Born | Non-US born | Total | | % |
|----------------------------------|----|--------|------|-------|--|---------|-------------|-------|--|------|
| Black or African American | | | | | | | | | | |
| US Born | US | 4 | - | 4 | | 4 | - | 4 | | 3% |
| Kenyan | I | - | 2 | 2 | | - | 2 | 2 | | 2% |
| Subtotal Black | | 4 | 2 | 6 | | 4 | 2 | 6 | | 5% |
| Asian | | | | | | | | | | |
| US Born | US | 1 | 1 | 2 | | 2 | - | 2 | | 2% |
| Korean | I | 2 | - | 2 | | - | 2 | 2 | | 2% |
| Filipino | I | 1 | - | 1 | | - | 1 | 1 | | 1% |
| Chinese | I | 1 | 1 | 2 | | - | 2 | 2 | | 2% |
| Subtotal Asian | | 5 | 2 | 7 | | 2 | 5 | 7 | | 6% |
| White | | | | | | | | | | |
| US Born | US | 91 | 19 | 110 | | 110 | - | 110 | | 89% |
| Jordanian | I | - | 1 | 1 | | - | 1 | 1 | | 1% |
| Subtotal White | | 91 | 20 | 111 | | 110 | 1 | 111 | | 90% |
| Total | | 100 | 24 | 124 | | 116 | 8 | 124 | | 100% |
| Percentages | | 81% | 19% | 100% | | 94% | 6% | 100% | | |

d. Percent of Full-time Faculty with Publications

| | Tenured | Junior | Appointment |
|---------|-----------------|-----------------|----------------|
| 2020-21 | 91% (21/23) | 100% (22/22) | 44% (22/50) |
| 2019-20 | 100% (22/22) | 100% (19/19) | 62 (29/47) |
| 2018-19 | 95% (21/22) | 95% (21/22) | 69% (29/42) |
| 2017-18 | 100 (23/23) | 100 (22/22) | 81 (31/37) |

e. Faculty Presentations

| | Tenured | Junior | Appointment |
|---------|-----------------|----------------|----------------|
| 2020-21 | 61% (14/23) | 67% (14/21) | 37% (19/51) |
| 2019-20 | 73% (16/22) | 80% (16/20) | 49% (23/47) |
| 2018-19 | 91% (20/22) | 91% (20/22) | 55% (23/42) |
| 2017-18 | 100% (23/23) | 100 (23/23) | 78% (29/37) |

f. Tenured and Junior Faculty Active Funding

| | Tenured | Junior |
|------|-------------|-------------|
| 2021 | 70% (16/23) | 77% (17/22) |
| 2019 | 82% (18/22) | 86% (19/22) |
| 2018 | 83% (19/23) | 82% (18/22) |
| 2017 | 78% (18/23) | 77% (17/22) |
| 2016 | 63% (14/22) | 55% (11/20) |

Appotintment faculty with active funding in FY 2021 s 16%.

g. Leadership in Professional Associations

Faculty Service to the Nursing Profession

| | 2019-20 | 2020-21 |
|---|---------|---------|
| Service to the nursing profession | | |
| Number of faculty | 90 | 93 |
| Percent Serving on Board (editorial, advisory, professional organization) | 62% | 60% |
| Percent serving in Nursing Organizations (e.g., board, committee, reviewer) | 84% | 80% |

h. Faculty with Fellowship Honors

| First Name | Last Name | Fellowship |
|-------------------|--------------------|---------------------------|
| Michael | Beach | FAAN |
| Catherine | Bender | FAAN |
| Denise | Charron-Prochownik | FAAN |
| Eileen | Chasens | FAAN |
| Yvette | Conley | FAAN |
| Willa | Doswell | FAAN |
| Sandra | Engberg | FAAN |
| Laura | Fennimore | FAAN |
| Richard | Henker | FAAN |
| Jennifer | Lingler | FAAN |
| Grant | Martsolf | FAAN |
| Nancy | Niemczyk | FAAN |
| Margaret | Rosenzweig | FAAN |
| Elizabeth | Schlenk | FAAN |
| Paula | Sherwood | FAAN |
| Jacqueline | Dunbar-Jacob | FAAN, AHA, SBM, ABMR, APA |
| Rose | Constantino | FAAN, FACFE, ACBA |
| Lora | Burke | FAAN, FAHA, SBM |
| Marilyn | Hravnak | FAAN, FCCM |
| Ann | Mitchell | FAAN, FIAAN |
| Michael | Neft | FAAN, FNAP, FAANA |
| Annette | DeVito Dabbs | FAAN, HAPF |
| Salah | Al-Zaiti | FAHA |
| Sheila | Alexander | FCCM |
| Nicholas | Bircher | FCCM |
| John | Gallagher | FCCM |
| John | O'Donnell | FSSH, FAANA |
| Brenda | Cassidy | NAPNP |

i. Faculty Awards, Honors and Recognitions

| Full Name | Name of award, recognition | Organization/ Sponsor |
|----------------------|---|--|
| Allen, Marianne | NET Award for 'Remote Community Clinical Education Day: Transforming In-Person Clinical to Remote Virtual Clinical due to Covid-19 Pandemic.' | Pitt School of Nursing |
| Belcher, Sarah Marie | Early Career Reviewer (ECR) program participant | Center for Scientific Review (CSR) at the National Institutes of Health |
| Cassidy, Brenda Lee | Cameos of Caring Nurse Educator Award | University of Pittsburgh/UPMC |
| Chasens, Eileen | Visionary Leader | The University of Alabama at Birmingham School of Nursing's 70th Anniversary |
| Conley, Yvette Perry | Provost Excellence in Doctoral Mentoring Award | University of Pittsburgh |
| Crago, Elizabeth A | STAR Research Award | Society of Critical Care Medicine |

| | | |
|----------------------|---|---|
| | Dean's Distinguished Teaching Award Nomination | University of Pittsburgh |
| Demirci, Jill Radtke | Lucie Young Kelly Faculty Leadership Award | University of Pittsburgh School of Nursing |
| | Honorable Mention, 2021 Best of JOGNN Writing Award (senior authored paper) | Journal of Obstetric, Gynecologic, & Neonatal Nursing |
| | Reviewer of the Year | Journal of Perinatal and Neonatal Nursing (Perinatal Section) |
| Fennimore, Laura | Teaching as Research Award | University of Pittsburgh |
| Foertsch, Lisa | Distinguished Clinical Scholar | University of Pittsburgh School of Nursing |
| Gallagher, John | Presidential Citation | Society of Critical Care Medicine |
| Grant, Catherine | Mona Counts Award | Pennsylvania Coalition of Nurse Practitioner |
| Guttendorf, Jane | SCCM Presidential Citation Award | Society of Critical Care Medicine |
| Hoffmann, Rosemary | CNL Nurse Educator of the Year | AACN/CNC |
| Kameg, Brayden | Year of the Nurse Honoree | International Nurses Society of Psych-Mental Health Nurses |
| | Marianne Marcus Award | The Association for Multidisciplinary Education and Research in Substance Use and Addiction |
| | Rising Star Award | National Organization of Nurse Practitioner Faculties |
| Lee, Heeyoung | 2020 Nightingale Education Teaching Award | Nightingale Awards of Pennsylvania |
| Lingler, Jennifer | Distinguished Alumni for Research Award | University of Pittsburgh School of Nursing |
| Neft, Michael | Dean's Distinguished Teaching Award | University of Pittsburgh |
| Niemczyk, Nancy | "Keystone Midwife" award | Pennsylvania Association of Certified Nurse-Midwives |
| Nilsen, Marci | Distinguished Alumni Award in Practice | University of Pittsburgh School of Nursing |
| Rosenzweig, Margaret | 2021 Chancellor's Distinguished Public Service Award - University of Pittsburgh | University of Pittsburgh |
| | Chancellor's Distinguished Public Service Award | University of Pittsburgh |
| | President Award | Friends of the National Institute of Nursing Research |
| Schlenk, Elizabeth | President's Award Honoree | Association of Rheumatology Professionals |
| Seaman, Jennifer | Assembly on Nursing Marilyn Hansen Award | American Thoracic Society |
| Thomas, Teresa | Top Abstract | NCI/NINR/Oncology Nursing Society Symptom Science Colloquium |
| Wang, Weiwen | Sleep Quality and Clinical Self-Efficacy Beliefs Among Undergraduates Baccalaureate Nursing Students During an Adult Acute Care Clinical Experience | SON, Center for Scholarship of Teaching |
| Wesmiller, Susan | Deans Distinguished Teaching Award | University of Pittsburgh School of Nursing |

j. UPMC committee membership

| Faculty 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) |
| | UPMC Hillman Cancer Center Cancer Survivorship Conference Planning Committee |
| | UPMC Hillman Cancer Center Biobehavioral Cancer Control Program DSMB |
| Cassidy, Brenda | Adolescent Faculty Meetings |
| Constantino, Rose | Intimate Partner Violence Task Force |
| 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 |
| | Home Care Board |
| 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. |
| Nilsen, Marci L | 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 Cathchement Research - Hillman Cancer Center |
| Seaman, Jennifer Burgher | 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 Facutly Facilitator |
| Waechter, Darcy | DCOI |
| | System Informatics Council Meeting |
| Zedreck, Judith | Healthy Workforce |

3.Staff

a. Staff Numbers

Staff Totals and Funding

| Hard Money | Grant Funded | Other | Total |
|---------------|-----------------|-------|-------|
| 55 | 27 | 2 | 84 |

b. Staff Publications

The numbr of SON satff with publications is 11.

4. Programs

a. Five Research Hubs and Approval of 6th Hub (see chapter 5 for HUB reporting)

b. Rankings

| Rankings | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|------|------|------|------|------|
| The National Institutes of Health, Research Dollars Awarded | 5 | 4 | 6 | 6 | 6 |
| <u>QS World University Rankings</u> by Subject | | 16 | 18 | 16 | 21 |
| National Research Council, Nursing PhD Programs | 10 | 12 | 10 | 10 | 10 |
| Healthcare Management Degree Guide: CNL and Nursing Administration programs | 9 | 9 | 9 | | 9 |
| College Choice, Best Nurse Practitioner Programs | | 11 | 11 | | 9 |
| US News & World Report Rankings | | | | | |
| • DNP Program | 7 | 5 | 9 | 8 | 6 |
| • Adult/Gerontology, Acute Care | 7 | 7 | 9 | | |
| • Adult/Gerontology, Primary | 12 | 7 | | 4 | |
| • Family(individual Across the Lifespan): | | 12 | 12 | 16 | 12 |
| • Pediatrics Nurse Practitioner | | 6 | 7 | | |
| • Psychiatric Mental Health | | 12 | 7 | | |
| • Health Systems Executive Leadership | 4 | 10 | 10 | 10 | 4 |
| • Nurse Anesthesia | 4 | | | | 4 |
| • Nurse Midwifery | na | na | 27 | 27 | |
| • MSN Programs | 7 | 7 | 12 | 6 | |
| • CNL | 3 | 4 | 7 | 3 | |
| • Informatics | | 7 | | | |
| • Online Graduate Programs | 12 | | | | 23 |

c. URMP program

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 scholarships. In addition, the URMP offers students the chance to improve their academic performance and develop strong critical thinking abilities. In the 2019-2020 academic school year, 18 students presented via NCUR 2021, and one student presented at the APNA Conference. Additionally, six students published, and two students have submitted for review.

URMP Student Numbers by Year

| | 17-18 | 18-19 | 19-20 | 20-21 |
|----------------------------------|------------|------------|------------|------------|
| URMP Honors with Thesis | 2 | 3 | 4 | 2 |
| URMP Applicants (New) | 53 | 67 | 60 | 80 |
| URMP New Applicant Hired | 42 | 38 | 51 | 46 |
| URMP Returning Students | 64 | 66 | 73 | 56 |
| URMP Students with Mentor | 106 | 104 | 124 | 102 |
| URMP Students with Presentation | 17 | 26 | 32 | 19 |

d. Simulation in Nursing

Appendix C contains curricular plans for high fidelity simulations in BSN, ACAGNP, and Nursing Anesthesia programs. Below is a table indicating the number of experiences nursing students who attended WISER over the last three years.

Number of Nursing Students Recorded as Having School of Nursing/WISER Clinical Experiences

| School of Nursing Course/ Clinical Experience | 2019 | 2020 | 2021 | Grand Total |
|--|-------------|-------------|-------------|------------------------|
| ACLT ANES RES SRNA | 84 | 59 | 20 | 163 |
| CRNA & SRNA | 53 | 81 | 28 | 162 |
| BLS/ACLS/PALS | | | | |
| DAM SRNA | 41 | 38 | | 79 |
| ICU PD NEUR | | | 7 | 7 |
| ICU: QI | 44 | | | 44 |
| NUR 0080 | 291 | 267 | 28 | 586 |
| NUR 0092 | | | 63 | 63 |
| NUR 1120 Harvey | 238 | 212 | 78 | 528 |
| NUR 1121 ADV | 397 | 283 | 83 | 763 |
| NUR COMBO: 1050 & 1052 | 251 | | | 251 |
| NUR SON FTB | 4 | | | 4 |
| NURSAN 2740 (DLT/JV) | 38 | 42 | | 80 |
| PASS | 36 | 33 | 12 | 81 |
| Grand Total | 1477 | 1015 | 319 | 2811 |

Lumis Body Explorer

In 2008, a team of bioengineering students at the University of Pittsburgh used a media player, a few sensors, and a goat trachea to create a new medical training device. Ten years later, Pitt engineers and clinical educators continue to improve on that idea. The prototype has evolved into an advanced simulation-based healthcare training system for nurse anesthetists. It's called the BodyExplorer... The BodyExplorer is the first system of its kind that is fully self-contained, portable, durable, and can be operated by trainees 24/7 without an instructor present. With the BodyExplorer, medical students can practice more often, more easily, and on their own schedules. [Lumis – BodyExplorer System | WITF](#)

The following Nurse Anesthesia courses have examples of training scenarios:

- NURSAN 3802 - Identification and treatment of thoracic trauma.
- NURSAN 3785 Introduction to the Nurse Anesthesia Role (Spring)- Rapid sequence induction training/airway cartilage identification
- NURSAN 3787 Basic Principles of Anesthesia (Lab)- Medication Safety and Regional Anesthesia Introduction
- NURSAN 3796 Advanced Pharmacology for Nurse Anesthetists- Anesthetic Pharmacology Exploration\

e. International Experiences for Students and Scholars

The School of Nursing study abroad opportunities were closed to students this last year due to the COVID-19 pandemic. Below is our record of nursing students participating in global experiences.

SON Study Abroad Data for 2015–2020

| | 2015–16 | 2016–17 | 2017–18 | 2018–19 | 2019–20 | 2020-21 |
|--|---------|---------|---------|---------|---------|---------|
| BSN student participants in any study abroad program | 17 | 40 | 44 | 52 | 59* | 0 |
| BSN student participants in any study away program | | | | | | 0 |
| Nursing-specific programs | 2 | 5 | 8 | 11 | 12 | 0 |

International Scholars have the opportunity to come to the School of Nursing and train with our faculty. Below are the number of scholars who have work with faculty over the last four years.

International Students and Visiting Scholars

| | 17-18 | 18-19 | 19-20 | 20-21 |
|---------------------------|-------|-------|-------|--|
| <i>Visiting PhD</i> | 9 | 6 | 6 | 1 (Gao Wen) Zhejiang University (8/26/2019-8/26/2020) |
| <i>Visiting Post-Docs</i> | 1 | 0 | 0 | 0 |
| <i>Visiting Faculty</i> | 3 | 4 | 2 | 2 (Li Gao) Capital Medical University (11/15/2019-9/14/2020) (Qian Xiao) Capital Medical University (8/26/2019-8/26/2020) |

5. Successes, Purpose, and Challenges

a. Top 3 School of Nursing Successes

2. 1 faculty scholarship
3. 2 Retention and graduation rates
4. 3 student scholarship

a. NIH Funding

| Year | Ranking | Total \$ Awarded | Total Awards |
|-------|---------|---------------------|--------------|
| FY 15 | 10 | \$4,399,347 | 19 |
| FY 16 | 7 | \$5,477,083 | 16 |
| FY 17 | 5 | \$7,568,750 | 23 |
| FY18 | 4 | \$8,853,753 | 24 |
| FY19 | 6 | \$9,020,080 | 26 |
| FY20 | 6 | \$7,672,023 | 25 |

b. Average time to Degree and Student Debt

The average time to degree for the last five years graduates, PT/FT is established based on the number of cumulative credits divided by the number of terms enrolled (<9 is PT, >=9 FT).

Average for the last five years graduates

| Degree | | | # of Terms | # of Years |
|--------|-------------|-----------|---------------|---------------|
| BSN | Traditional | | 8 | 4 |
| | ABSN | | 3 | 1 |
| MSN | | Part Time | 9 | 3 |
| | | Full Time | 7 | 2 |
| DNP | post BSN | Part Time | 12 | 4 |
| | | Full Time | 9 | 3 |
| | post-MSN | Part-Time | 11 | 4 |
| | | Full Time | 7 | 2 |
| PhD | post-BSN | Part-Time | | |
| | | Full Time | 14 | 5 |
| | post-MSN | Part-Time | 24 | 8 |
| | | Full-Time | 13 | 4 |

Average student debt – 2020-2021:

| | Level | Distinct Enrollment | # Offered Loan | #Received Loan | Average Loan | Disbursed Amount |
|--|-----------|------------------------|-------------------|-------------------|-----------------|---------------------|
| | Undergrad | 798 | 549 | 405 | 16,443.03 | 6,659,427.54 |
| | Grad | 410 | 231 | 175 | 29,925.22 | 5,236,913.00 |

c. Employment

BSN: Employed in a nursing position (92.6%)

Enrolled in graduate school (2.4%)

MSN: Employed in a nursing position (100%)

DNP: Employed in a nursing position (100%)

PhD: Employed in a nursing position (100%)

d. Alumni Satisfaction (6 months after graduation)

BSN Alumni Satisfaction – 6 months post-graduation

| Academic year | Graduate Response rate | % of students satisfied |
|---------------|------------------------|-------------------------|
| 2019-2020 | 60.3% | 92.6% |
| 2018-2019 | 37.2% | 100% |
| 2017-2018 | 35.5% | 100% |

MSN Alumni Satisfaction – 6 months post-graduation

| Academic year | Graduate Response rate | % of students satisfied |
|---------------|------------------------|-------------------------|
| 2019-2020 | 70.5% | 100% |
| 2018-2019 | 13% | 100% |
| 2017-2018 | 25.4% | 86.7% |

DNP Alumni Satisfaction – 6 months post-graduation

| Academic Year | Graduate Response rate | % of students satisfied |
|---------------|------------------------|-------------------------|
| 2019-2020 | 93.8% | 97.7% |
| 2018-2019 | 17% | 100% |
| 2017-2018 | 48.9% | 100% |

PhD Alumni Satisfaction – 6 months post-graduation

| Academic Year | Graduate Response rate | % of students satisfied |
|---------------|------------------------|-------------------------|
| 2019-2020 | 62.5% | 100% |
| 2018-2019 | 50% | 100% |
| 2017-2018 | 66.6% | 100% |

e. Alumni Feeling of Long-Term Success at 3- and 5-year Post-Graduation

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

| | 2015 Graduates | 2016 Graduates | 2017 Graduates |
|-----|----------------|----------------|----------------|
| BSN | 100% | 100% | 100% |
| MSN | 100% | 95% | 100% |
| DNP | 96% | 100% | 100% |
| PhD | 100% | 100% | 100% |

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

| | 2013 Graduates | 2014 Graduates | 2015 Graduates |
|-----|----------------|----------------|----------------|
| BSN | 99% | 99% | 99% |
| MSN | 100% | 96% | 100% |
| DNP | 100% | 100% | 100% |
| PhD | 100% | 100% | 100% |

f. School of Nursing Challenges

Challenges for the coming year:

1. *Resources to support quality teaching and clinical placements with an increasing undergraduate cohort while sustaining the existing quality rankings of the nursing program*

With plans to expand undergraduate education within the School of Nursing, the needs for laboratory space for anatomy and physiology and for microbiology need to be expanded. Labs already are full with up to 45 students. Additional faculty will need to be hired, particularly to cover clinical practicum. In the midst of a national shortage of faculty and a county with 14 schools of nursing all looking to hire, salaries will need to be raised to attract faculty. We are already below the salaries offered by local baccalaureate/graduate schools. One strategy is to provide teaching assistantships to graduate students, however, this will require an adjustment in the financial aid budget. While clinical placements are guaranteed by UPMC senior nursing administration, placements within the local hospitals and community sites continue to be competitive.

2. *Recruitment of quality graduate students*

Consistent with the University objectives to increase graduate enrollment, the School of Nursing seeks to increase graduate students in all three (MSN, DNP, PhD) programs. In order to do this recruitment needs to be expanded beyond the local region. This is necessary for several reasons. First, there are opportunities for graduate enrollment in five programs in Pittsburgh as well as through the multitude of online programs. Second, the local health systems do not require graduate education for a number of positions that would be MSN or DNP required positions in other parts of the state, so the incentive is not as great among local nurses. Further, salaries are lower for advanced practice nurses in our region. Third, in order to sustain the quality of graduate education, which directly influences our rankings, we are seeking students who would be competitive at our competitors schools, NYU, Hopkins, Penn, Maryland, Virginia. Our intention is to hire a higher level recruitment coordinator for the school who can examine the potential markets and devise tailored (and evidence-based) recruiting plans for the School. Our recruitment needs to expand to the international and national markets where we are known and well ranked.

6. Research HUBS reports

The School of Nursing now has six research HUBs. <https://www.nursing.pitt.edu/research/research-hubs>
Below are the 5 HUB reports from the HUB directors. First, we list the links to the HUB website information.

1. [Genomics of Patient Outcomes](#)
2. [Excellence in eHealth Research](#)
3. [Sleep and Circadian Rhythms: Effect on Symptoms and Functional Outcomes Across the Lifespan](#)
4. [Behavioral Mechanism of Symptoms and Cancer Treatment Adherence](#)
5. [Nursing Health Services and Policy Research](#)
6. [Maternal/Perinatal and Reproductive Health Research](#), proposal from Dr. Jill Demirci - HUB funded as of *July 1, 2021*

1. Genomics of Patient Outcomes HUB & T32

July 1, 2019-December 31, 2020

Director: Yvette P. Conley, PhD, FAAN

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

Faculty: Sheila Alexander (R21), Sarah Belcher (K01), Yvette Conley (R01, T32), Beth Crago (R01, Momentum), Sandra Founds (R21), Rick Henker, Chris Imes (CRE), Theresa Koleck (R00), Dianxu Ren (R03), Mandy Schmella (R21; R01 submitted), Cecelia Yates, Susan Wesmiller (R01; competing continuation submitted), **Komal Singh (Arizona State University)

PostDocs: Mitali Ray (T32; K99/R00 submitted), Monica Wagner (K99/R00), McKenzie Wallace (T32), **Eileen Condon (K99/R00 @ Yale), **Jewel Scott (T32 through Department of Psychiatry), **Lacey Heinsberg (TL1 Scholar through Department of Human Genetics; K99/R00 submitted)

PhD Students: Frankie Peterson-Burch (T32, Jonas Scholar), Maura McCall (F99/K00, ACS), Jessica Davis (F31 submitted), Lisa Gawron (T32; F31 submitted), Tara Davis (T32), Susan Grayson (T32), Meredith Cummings, Megan Kazakoff, **Stephan Breazeale (F31 @ Yale; will start postdoc on T32 later in 2021)

DNP Students: Madison Betsker (Anesthesia)

Undergraduate Students: Katherine O'Meara (URMP, Honors Student doing a BPhil); Ningxi Chen (URMP); Susie Shockey (URMP, Honors Student)

Staff: Sandra Deslouches

Mission: The mission of the Genomics of Patient Outcomes Hub is to foster collaborations, sharing of ideas, leverage resources, and to promote, accelerate and disseminate research that incorporates omics approaches to better understand variability in patient outcomes within the context of a variety of phenotypes.

Activities:

We continue to have a weekly omics group meeting. 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 and one week per month is designated as a research in progress update from a trainee or faculty member. This 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 from within and outside of the School of Nursing.

Notable achievements by members of the genomics Hub during this review period:

- 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
- 2 PhD students received scholarships to attend the University of Washington's Summer Institute for Statistical Genetics
- Publications acknowledging the genomics T32 reached 84
- T32 renewal submitted, received impact score of 17, JIT was requested and is listed as "Pending" in eRA Commons, funding for years 16-20 looks promising
- In November 2020 ISONG held its yearly congress virtual. 15 members of this Hub presented at this conference, the largest number from a single institute
- 3 members of the Hub (Drs. Alexander, Wagner, and Conley) developed and presented a CEU offering related to the genomics of SARS-CoV2 and testing for the virus. Last tally was that 307 individuals completed this educational offering.

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 in May 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 review period.

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 on the T32 including 1 new postdoc slot and 1 new predoc slot 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 and trainee research funding
 - Host at least 2 presenters with content and methodologic expertise in social determinants of health and incorporating them into our omics research

Publications from HUB members July 1, 2019 – December 30, 2020; N = 69 total

1: Arockiaraj AI, Liu D, Shaffer JR, **Koleck TA**, **Crago EA**, Weeks DE, **Conley YP**. Methylation Data Processing Protocol and Comparison of Blood and Cerebral Spinal Fluid Following Aneurysmal Subarachnoid Hemorrhage. Front Genet. 2020 Jun 26;11:671. doi: 10.3389/fgene.2020.00671. PMID: 32670358; PMCID: PMC7332758.

- 2: Treble-Barna A, Patronick J, Uchani S, Marousis NC, Zigler CK, Fink EL, KochanekPM, **Conley YP**, Yeates KO. Epigenetic Effects on Pediatric Traumatic Brain Injury Recovery (EETR): An Observational, Prospective, Longitudinal Concurrent Cohort Study Protocol. *Front Neurol*. 2020 Jun 12;11:460. doi: 10.3389/fneur.2020.00460. PMID: 32595586; PMCID: PMC7303323
- 3: Kober KM, Lee MC, Olshen A, **Conley YP**, Sirota M, Keiser M, Hammer MJ, Abrams G, Schumacher M, Levine JD, Miaskowski C. Differential methylation and expression of genes in the hypoxia-inducible factor 1 signaling pathway are associated with paclitaxel-induced peripheral neuropathy in breast cancer survivors and with preclinical models of chemotherapy-induced neuropathic pain. *Mol Pain*. 2020 Jan- Dec;16:1744806920936502. doi: 10.1177/1744806920936502. PMID: 32586194; PMCID: PMC7322824.
- 4: Schaaf S, Huang W, Perera S, **Conley Y**, Belfer I, Jayabalan P, Tremont K, CoelhoP, Ernst S, Cortazzo M, Weiner D, Vo N, Kang J, Sowa G. Association of Protein and Genetic Biomarkers with Response to Lumbar Epidural Steroid Injections in Subjects with Axial Low Back Pain. *Am J Phys Med Rehabil*. 2020 Jun 22. doi: 10.1097/PHM.0000000000001514. Epub ahead of print. PMID: 32576742.
- 5: Wagner MA, Erickson KI, **Bender CM, Conley YP**. The Influence of Physical Activity and Epigenomics On Cognitive Function and Brain Health in Breast Cancer. *Front Aging Neurosci*. 2020 May 8;12:123. doi: 10.3389/fnagi.2020.00123. PMID: 32457596; PMCID: PMC7225270.
- 6: Heinsberg LW, **Alexander SA, Crago EA**, Minster RL, Poloyac SM, Weeks DE, **Conley YP**. Genetic Variability in the Iron Homeostasis Pathway and Patient Outcomes After Aneurysmal Subarachnoid Hemorrhage. *Neurocrit Care*. 2020 Apr 3;10.1007/s12028-020-00961-z. doi: 10.1007/s12028-020-00961-z. Epub ahead of print. PMID: 32246437; PMCID: PMC7541432.
- 7: Mellett K, **Ren D, Alexander S**, Osier N, Beers SR, Okonkwo DO, Puccio AM, **Conley YP**. Genetic Variation in the *TP53* Gene and Patient Outcomes Following Severe Traumatic Brain Injury. *Biol Res Nurs*. 2020 Jul;22(3):334-340. doi: 10.1177/1099800420912335. Epub 2020 Mar 24. PMID: 32207313; PMCID: PMC7492776.
- 8: Thompson HJ, Santacroce SJ, Pickler RH, Allen JK, Armer JM, Bakken S, Bowles KH, **Conley YP**, Dunbar SA, Ellington L, Grey M, Heitkemper MM, Herr KA, Lake E, McCarthy AM, Melnyk B, Miaskowski CA, Moore SM, Naylor MD, Stone PW, Titler MG, Weiss SJ. Use of individual development plans for nurse scientist training. *Nurs Outlook*. 2020 May-Jun;68(3):284-292. doi: 10.1016/j.outlook.2020.01.001. Epub 2020 Mar 18. PMID: 32197775.
- 9: Langford DJ, Morgan S, Cooper B, Paul S, Kober K, Wright F, Hammer MJ, **Conley YP**, Levine JD, Miaskowski C, Dunn LB. Association of personality profiles with coping and adjustment to cancer among patients undergoing chemotherapy. *Psychooncology*. 2020 Jun;29(6):1060-1067. doi: 10.1002/pon.5377. Epub 2020 Mar 22. PMID: 32154960.
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2. HUB for Excellence in eHealth Research

Structure: Hub director: Annette DeVito Dabbs
Co-director: Young Ji Lee
SoN members (See attached list)
Other school affiliates (See attached list)

Mission: 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. The mission of the eHealth Hub is too foster interdisciplinary collaboration, methodological innovation, and development of new investigators. The Hub offers expertise and infrastructure support for technology-enabled research and data analytics grounded in behavioral theory and guided by team science and user-centered design.

Activities

- T32 /Hub brainstorming to identify ideas/ priorities for T32 Admin supplement
 - Web-based, open-access curriculum on Equity Design Thinking selected for funding
 - Faculty from the Pitt (SON, GSPH); DePau U; U Mass Amherst; CMU; Cornell providing content for 10 learning modules
 - Trainees partnered with faculty to develop EDT materials
- Presentation by eHealth Hub Faculty for Mobile Sensing + Health (MoSHi group)
 - Advancing Digital Health and Data Analytics at the School of Nursing: seminar for the MoShi <https://www.moshi.pitt.edu/series>. It is a rapid fire presentation format highlighting the work of selected tech T32 trainees and faculty from the SON sponsored by the eHealth Hub and T32. Lora Burke and Judy Matthews spearheaded the effort. Presenters are: Stephanie Frisch, PhD student, Judith Matthews, PhD, MPH, Lora E Burke, PhD, MPH, Jamie Zelazny, PhD Jacob Kariuki, PhD, Marilyn Hravnak, PhD
- Spring 2021
 - Dr. Taya Irizarry (Highmark: Population Health Management: Using Machine Learning to Engage the Right Patient at the Right Time)
 - Dr. DeVito Dabbs (Development and Evaluation of Interactive Health Technologies: Pocket PATH Suite Exemplar)
 - Dr. Kenrick Cato (Columbia U: Using Healthcare Process Model to Determine Nursing Expert Signals for in Patient Clinical Deterioration: The CONCERN Study)
 - Dr. Rory Cooper (Pitt: A description of the role and goals for Research for STEM and Health Sciences Collaboration for Pitt and CMU)
 - Tutorials for use of MyNCBI
- Fall 2021
 - Virtual reality expert (TBD)
 - UMass Amherst group (TBD)
 - Launch EDT curriculum

Scholarship meetings

- Bi-weekly T32 seminars (September-May) open to eHealth Hub (e.g., journal clubs, trainee presentations series)
 - PhD students engaged (see attached list)
 - MSN & DNP students engaged (invited but poor attendance)
 - BSN students engaged (rare other than URMP associated with faculty projects)
 - Students from other disciplines engaged

Objectives for January 2021-December 2021:

- Sponsor SIG for BSN students interested in eHealth (resend invite Fall 2021)
- Re-evaluate the purpose and composition of original hub cores
- Sponsor pilot projects for 2 early SON investigators
- Continue to support Pitt-Oneil Fellowship (Leveraging Technology for Patient/Family Engagement GetWellNetwork)
- Continue to offer Pre and Post Doc students from Pitt SON the opportunity to participate in course: eHealth – Advancing the Use of Information Technology in Health Care (offered at INS, U of Basel in conjunction with IS at Pitt)
- Sponsor invited experts from external institutions

Budget Requests for 2021-2022 (\$22,000):

- 2- \$10K pilot projects focused ML/tech to reduce health inequities (must include stakeholders)
- \$2K (external expert presenters) left over in current budget

Budget Report: Project Period: July 01, 2020- June 30, 2021

Account 04.32010.xxxx.30148.000000.ref #

Visiting Scholar Series - eHealth Hub

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Balance Report Through January 2021 FY 21

| | |
|---|---------|
| Starting Balance - Awarded 07/2020 | 2500.00 |
| Previous Years expenses | 0.00 |
| Carry Over Balance From previous Year | 2500.00 |
| Current Year expenses | 0.00 |
| Current Balance | 2500.00 |
| Amount Committed | 400.00 |
| Remaining Balance to be Spent BY 05/31/2021 | 2100.00 |

3. Hub for Sleep Research

Sleep and Circadian Rhythms: Effect on Symptoms and Functional Outcomes Across the Lifespan

July 1, 2019 – December 31, 2020

1. Members of HUB:

Director: Eileen Chasens

Co-director: Faith Luyster

SON Faculty: Lynn Baniak, Willa Doswell, Christine Feeley, Christopher Imes, Jacob Kariuki, Jonna Morris, Paul Scott

SON PhD students: Bomin Jeon, Staci Orbell, Xiaojun Shi, Kai-Lin You

SON Undergraduate students: Long Tran, Taylor Kerstetter, Sara Kelly

Other school affiliates: Cassandra Godzik (T32 NIMH/HRSA Postdoc at Dartmouth College/Medical Center), Ann Johansson (Clinical researcher in Pitt Department of Medical Genetics and Former SON DNP student)

2. Mission:

The purpose of this HUB is to provide a forum for nurse scientists involved in sleep research to advance their programs of research through collaboration. The HUB aspires to support students and early career investigators in building highly successful and productive careers in the area of sleep medicine through providing necessary funding and resources and imparting collaborative relationships.

3. Publications:

1. **Baniak, L.M.**, Yang, K., Choi, J., & **Chasens, E.R.** (2020). Long sleep duration is associated with increased frailty risk in older community-dwelling adults. *Journal of Aging and Health*, 32(1-2), 42-51.
2. **Feeley, C.A.**, Sereika, S.M., **Chasens, E.R.**, Siminerio, L., Charron-Prochownik, D., Muzumdar, R.H., & Viswanathan, P. (2019 Jul 31) Sleep in parental caregivers and children with type 1 diabetes. *The Journal of School Nursing*, Epub ahead of print. doi: 10.1177/1059840519865942
3. **Morris, J.L.**, **Chasens, E.R.**, & Brush, L.D. (2020 Oct 1). Gender as a principle of the organization of clinical sleep research. *Nursing Outlook*, Epub ahead of print. doi.org/10.1016/j.outlook.2020.06.006
4. **Chasens, E.R.**, Dinardo, M., **Imes, C.C.**, **Morris, J.L.**, Braxter, B., & Yang, K. (2020). Citizenship and health insurance status predict glycemic management: NHANES data 2007–2016. *Preventative Medicine*, 139, 106180.
5. **Morris, J.L.**, Sereika, S.M., **Chasens, E.R.** (2020 April 18). Sex differences in subjectively reported symptoms of obstructive sleep apnea in community-dwelling adults with type 2 diabetes. *Sleep and Breathing*, Epub ahead of print. doi.org/10.1007/s11325-020-02074-56.
6. Caruso, C.C., Baldwin, C.M., Berger, A.B., **Chasens, E.R.**, et al. (2019). Policy brief: Nurse fatigue, sleep, and health, and ensuring patient and public safety. *Nursing Outlook*, 67(5), P615-P619.
7. Bigini, E.G., **Chasens, E.R.**, Conley, Y.P., & **Imes, C.C.** (2019). DNA methylation changes and improved sleep quality in adults with obstructive sleep apnea and diabetes. *BMJ Open Diabetes Research and Care*, 7(1), e000707.
8. Riesch, S.K., Liu, J., Kaufmann, P.G., **Doswell, W.M.**, Cohen, S., & Vessey, J. (2019). Preventing adverse health outcomes among children and adolescents by addressing screen media practices concomitant to sleep disturbance. *Nursing Outlook*, 67(4), 492-496.
9. Cajita, M.I., Kline, C.E., Burke, L.E., Bigini, E.G., & **Imes, C.C.** (2020). Feasible but not yet efficacious: a scoping review of wearable activity monitors in interventions targeting physical activity, sedentary behavior, and sleep. *Current Epidemiology Reports*, 7, 25-38.
10. Yu, Y., Burke, L.E., Shen, Q., **Imes, C.C.**, Sun, R., Groth, S., Zhang, W., & Kalarchian, M.A. (2020). A qualitative exploration of patients' experiences with lifestyle changes after sleeve gastrectomy in China. *Obesity Surgery*, 90(8), 3127-3134.
11. **Kariuki, J.K.**, Yamnia, C.I., **Imes, C.C.**, Weiss, P.M., & Engberg, S.J. (2019). Impact of lifestyle modification on absolute cardiovascular disease risk: a systematic review protocol. *JBIC Database of Systematic Reviews and Implementation Reports*, 17(10), 2106-2114.

12. Burke, L.E., Sereika, S.M., Parmanto, B., Beatrice, B., Cajita M., Loar, I., Pulantara, I.W., Wang, Y. **Kariuki, J.** et al. The SMARTER Trial: Design of a trial testing tailored mHealth feedback to impact self-monitoring of diet, physical activity, and weight. *Contemporary Clinical Trials*, 91, 105958.
13. **Morris, J.L.**, Hu, L., Hunsaker, A., Liptak, A., Seaman, J.S., & Lingler, J.H. (2020). Patients' and family members' subjective experiences of a diagnostic evaluation of mild cognitive impairment. *Journal of Patient Experience*, 7(1), 124-131.
14. **Luyster, F.S., Shi, X., Baniak, L.M., Morris, J.L., & Chasens, E.R.** (2020). Associations of sleep duration with patient-reported outcomes and healthcare use in U.S. adults with asthma. *Annals of Allergy, Asthma, and Immunology*, 125(3), 319-324.
15. **Luyster, F.S.**, Wang, J., Sciruba, F.C., & Bon, J (2020). Longitudinal associations between sleep disturbance and disease severity in patients with COPD. *Sleep Science and Practice*, 4, 12.
16. **Jeon, B.**, Sereika, S.M., Callan, J.A., **Luyster, F.S.**, DiNardo, M.M., **Chasens, E.R.** (2020). 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*. doi:10.1177/0145721720958396
17. **Luyster, F. S., Baniak, L. M., Chasens, E. R., Feeley, C.A., Imes, C. C., Morris, J. L.** (2019). Sleep among working adults. In D. T. Duncan, I. Kawachi, & S. Redline (Eds.). *Social Epidemiology of Sleep*. Oxford, UK: Oxford University Press.
18. **Godzik, C.M.** (2019). Gateless communication: A concept analysis. *Nursing Forum*, 54(4), 636-641.
19. Dinardo, M. M., Sereika, S. M., Korytkowski, M., **Baniak, L. M.**, Weinzierl, V. A. Hoenstine, A. L., **Chasens, E. R.** (2019). Current smoking: An independent predictor of elevated A1C in persons with type 2 diabetes. *The Diabetes Educator*, 45(2), 146-154.
20. **Scott, P.W.**(2020). Accounting for time-varying inter-individual differences in trajectories when assessing cross-lagged models. *Structural Equation Modeling: A Multidisciplinary Journal*, 1-11.
21. Blaskowitz, M. G., **Scott, P. W.**, Randall, L., Zelenko, M., Green, B. M., McGrady, E., Famularo, E. & Lonergan, M. (2020). Closing the gap: Identifying self-reported quality of life differences between youth with and without intellectual and developmental disabilities. *Inclusion*, 8(3), 241-254.
22. Constantino, R.E., Reyes, A.T., Kregg-Byers, C.M., Braxter, B., **Scott, P.W.**, Cobb, J., Hui, V., Ren, D., Kameg, B., Cuevas, P.E.G., Palompon, D.R., Petrie, J. & Palanisamy, B. (2020) Matters of HEARTS: health, experience of abuse, resilience, technology use, and safety of older adults, *Educational Gerontology*, 46:7, 367-381.
23. Li, H., Ji, M., **Scott, P.W.**, Dunbar-Jacob, J.M. (2019). The effect of symptom clusters on quality of life among patients with type 2 diabetes. *The Diabetes Educator*, 45(3), 287-294.
24. Ridener, R., Kuehn, S. & **Scott, P.W.** (2020) Why do criminology and criminal justice students choose their major? An examination of parental, personality, and other individual characteristics. *Journal of Criminal Justice Education*, 31(1), 1-25.
25. **Godzik, C. M.** (2020). Sleep disturbances in bereaved older people: a review of the literature. *Mental Health Practice*, 21(1). doi:10.7748/mhp. 2020.e1492.
26. Hurley, S. L., Welsh, D. M., Roy, K. M., **Godzik, C. M.** (2020). Bridging the gap: A hospice nurse residency program. *The Journal of Continuing Education in Nursing*, 51(8), 371-376.
27. **Luyster, F.S., Shi, X., Baniak, L.M., Morris, J.L.**, Yang, K., & **Chasens, E.R.** (2020). Insomnia and daily function in older adults with asthma. *Journal of Gerontological Nursing*, 46(11), 28-36.
28. **Godzik, C.M.**, Ryan, E.T., Crawford, S.L. (2020). Feasibility of an online cognitive behavioral therapy program to improve insomnia, mood, and quality of life in bereaved adults ages 55 and older. *Geriatric Nursing*, 42(1), 99-106.
29. Caruso, C. C., Baldwin, C. M., Berger, A., **Chasens, E. R.**, Landis, C., Redeker, N. S., Scott, L. D., Trinkoff, A. (2019). Declaración de posición: Reducir la fatiga asociada con la deficiencia de sueño y las horas de trabajo en enfermeras. *Southwest J Pulm Crit Care*.19:169-74. doi: <https://doi.org/10.13175/swjpc075-19>;
30. Jeon, B., Luyster, F. S., Callan, J. A., **Chasens, E. R.** (2021). Depressive Symptoms in Comorbid Obstructive Sleep Apnea and Insomnia: An Integrative Review. *Western Journal of Nursing Research*. On-line First. DOI: 10.1177/0193945921989656

31. Delslate, S., **Chasens, E. R.**, Yamanishi, C., Henker, R. (2021). STOP-BANG as a pre-procedure risk assessment tool to predict intra-procedure airway maneuvers and adverse events in a gastrointestinal laboratory. *AANA Journal*. 88; 9 (6). 45-52. <https://pubmed.ncbi.nlm.nih.gov/33501908/>

32. Chasens, E. R., Imes, C. C., Kariuki, J. K., Luyster, F. S., Morris, J. L., DiNardo, M. M., Godzik, C. M., Jeon, B., Yang, K., (2021). Sleep and metabolic syndrome, *Nursing Clinics of North America*, On-line first. <https://doi.org/10.1016/j.cnur.2020.10.012>

33. Imes, C. C., Bizhanova, Z., Kline, C. E., Rockette-Wagner, B., **Chasens, E. R.**, Sereika, S. M., Burke, L. E. (2021). Bidirectional relationship between sleep and sedentary behavior in adults with overweight or obesity: A secondary analysis. Accepted for publication. *Sleep Advances*.

4. Grant submissions:

Title: Role of Shift Work Resilience on Cardiovascular Health

PI: Christopher Imes

Co-Is: Lora Burke

Consultants: Eileen Chasens

Organization: American Heart Association

Title: An Ecological Momentary Assessment Study to Examine the Factors Associated with Shift Work Tolerance (1 R01 NR019629-01)

PI: Christopher Imes

Co-Is: Lora Burke, Eileen Chasens, Hassen Karimi, Christopher Kline, & Susan Sereika

Organization: NIH/NINR

Title: NINR Loan Repayment Program (LRP)

PI: Cassandra Godzik

Organization: NIH/NINR

Title: Sleep environments in home healthcare settings: Development of a survey to measure environmental factors contributing to sleep in the home

PI: Cassandra Godzik

Co-PI: Jennifer Salwen-Dermer

Organization: International Home Care Nurses Research Award (IHCNO)

Title: Home Sleep environments in primary care health settings: A research plan for primary prevention of disease

PI: Cassandra Godzik

Organization: Heilbrunn Nurse Scholar Award, The Rockefeller University

Title: Sex Differences in Symptom Reduction of Obstructive Sleep Apnea with Continuous Positive Airway Pressure Therapy

PI: Jonna Morris

Organization: Building Interdisciplinary Careers in Women's Health Research (K12)

Title: Sex Differences in Predictors of Adherence to Continuous Positive Pressure Airway Pressure with Obstructive Sleep Apnea

PI: Jonna Morris

Organization: American Thoracic Society Nursing Research Grant

Title: The Effect of Preoperative Obstructive Sleep Apnea Therapy on Surgical Outcomes

PI: Lynn Baniak

Co-Is: Faith Luyster, Patrick J. Strollo, Visala Muluk, Charles Atwood
Organization: American Academy of Sleep Medicine, Strategic Research Award

Title: Self-Monitoring, Sleep, and Psychosocial Outcomes in Dyad of Child with Type 1 Diabetes and Parent
PI: Christine Feeley
Organization: NIH/NINR

5. Grants awarded:

Title: Upper Airway Stimulation Therapy for Sleep Apnea: the Patient's Experience (Inspire Medical Systems, Inc.)
PI: Faith Luyster
Co-Is – Patrick Strollo, Ryan Soose
Organization: Inspire Medical Systems, Inc.

Title: The impact and prevalence of co-morbid insomnia in Veterans health administration service users with chronic obstructive pulmonary disease nationally
PI: Jessica Bon
Co-Is – Faith Luyster, Monique Boudreaux-Kelly
Organization: VA Healthcare Network

Title: Sleep Correlates of social media type and use in Tween African American Girls
PI: Willa Doswell
Co-Is: Paul Scott, Christine Feeley
Organization: Sleep hub pilot project award

6. Grant reviews and/or mock reviews:

Title: Enhancing pulmonary rehabilitation in veterans with chronic obstructive pulmonary disease through internet-based cognitive-behavioral treatment for insomnia
PI: Faith Luyster
Co-Is: Jessica Bon, Daniel Forman, Daniel Buysse, Lee Ritterband, Monique Boudreaux-Kelly
Organization: VA Merit Award

7. Scholarship meetings:

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 4 published manuscripts using NHANES data.

8. Presentation series (ongoing; SON):

- **10-29-2019** Daniel Buysse, MD, UPMC Professor of Sleep Medicine, Professor of Psychiatry and Clinical and Translational Science, University of Pittsburgh School of Medicine; Title of presentation: Sleep: Health, Medications, and Clinical Practice
- **02-13-2020 (cancelled)** Patrick Strollo, MD, VP Medical Service Line, Vice Chair of Medicine for Veteran Affairs, VA Pittsburgh Healthcare System; Professor of Medicine and Clinical and Translational Science, University of Pittsburgh School of Medicine; Title of presentation: Current Management of Sleep Apnea in the Era of Precision Medicine
- **04-02-2020 (cancelled due to COVID-19)** Amy Sawyer, PhD, RN, Associate Professor of Sleep and Health Behavior, School of Nursing, University of Pennsylvania; Clinician Scientist Education, Corporal Michael J Crescenz VA Medical Center, Philadelphia, PA; Title of presentation: A Vision of Sleep Practice in Nursing: Needs, Opportunities & Implications for APNs and Practice Leaders

9. Presentations at national conferences

- Sleep and Breathing (August 2019) – Lynn Baniak, Eileen Chasens
- American Thoracic Society (August 2020) – Jonna Morris, Lynn Baniak, Eileen Chasens
- SLEEP conference (August 2020) – Faith Luyster, Jonna Morris, Christopher Imes, Christine Feeley, Bomin Jeon, Lynn Baniak, Eileen Chasens, Long Tran
- International Society of Nurses in Genetics (November 2019) – Ann Johansson, Christopher Imes
- American Heart Association’s EPI/Lifestyle Scientific Sessions (March 2020) – Christopher Imes, Eileen Chasens

10. PhD students engaged.

- Bomin Jeon, Staci Orbell, Xiaojun Shi, Kai-Lin You

11. BSN students engaged.

- Long Tran, Taylor Kerstetter, Sara Kelly
- Honor Thesis: Long Tran , Title: The association between pain, sleep, global health, and functional outcomes in older adults. Committee: E.R. Chasens (chair), J. Kariuki, B. eon, P. Scott, and C. Godzik. Defended April 14, 2021

12. Scientific findings over July 1, 2019-December 31, 2020

- Over 12 weeks of diabetes education and counseling with either CPAP or sham-CPAP, TNFAIP3 and PER1 DNA methylation levels decreased. While DNA methylation level changes were observed in the study, the causal mechanism is unclear and additional work is needed.
- Wearable activity monitors (WAM)-based physical activity (PA) interventions exhibited preliminary efficacy in increasing PA. Although not as many interventions were focused on sedentary behavior, current interventions also showed potential in decreasing sedentary time. Meanwhile, more evidence is needed to determine the utility of WAM in improving sleep.
- Insomnia to be a common complaint among older adults with asthma. Insomnia in the presence of depressive symptoms may impede one’s ability to perform ADLs or IADLs.
- Compared with adults having asthma and normal sleep duration, those having short sleep duration experience more frequent asthma attacks, increased health care use, and worse health-related quality of life, whereas those with long sleep duration experience more frequent activity limitation.
- Latent expectations about gender are often found in clinical sleep research. Awareness of these gendered assumptions may help researchers to examine their own expectations about gender when assessing potential sex or gender differences in their findings.
- Women with type 2 diabetes at high risk for OSA reported worse sleep quality and daytime function than men. While women with type 2 diabetes reported worse outcomes associated with sleep (worse sleep quality, daytime function), the outcomes were not associated with OSA severity.

13. Objectives for the next fiscal 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.

4. Behavioral Mechanism of Symptoms and Cancer Treatment Adherence HUB

Director: Catherine Bender

Professor, Nursing and Clinical and Translational Science Institute

Nancy Glunt Hoffman Endowed Chair in Oncology Nursing

Co-Leader, Biobehavioral Oncology Program

UPMC Hillman Cancer Center

School of Nursing members: Sarah Belcher, Grace Campbell, Yvette Conley, Heidi Donovan, Laura Fennimore, Young Ji Lee, Marci Nilsen, Dianxu Ren, Margaret Rosenzweig, Paula Sherwood, Susan Sereika, Teresa Hagan Thomas, Susan Wesmiller

Other School affiliates: Dana Bovbjerg, Takis Benos, Lindsay Sabik,

PhD Students: Karen Alsbrook, Rachel Brazee, Meredith Cummings, Vivan Hui, Maura McCall, Karina Phillips, Elizabeth Skrovanek, Kai-Lin You, Susan Walborn, Jian Zhao

DNP Students: Mary Pat Lynch, Meaghan Maydick, Elyse Tedeschi

BSN Students: Caroline Baird, Rachel Bergeron, Ashley Bleier, Kayla Dougherty, Makenna Hadley, Kathryn Hannah, Natalie McKinley, Katherine Oyer, Kiley Roche, E. Rodi, Varshini Sivakumar, Daniel Storm, K Wang, Jessie Zhu

Cancer Survivorship HUB activities:

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 2021.

Regular Meetings to support research activities among members.

The following is a listing of the cancer survivorship-related funded research, publications, presentations, awards and significant scientific findings among our members.

Sarah Belcher

Funded Research

| | | |
|--|---------------------|---|
| Understanding Oral Anticancer Medication Adherence among Patients with Multiple Myeloma (1K23NR019296-01), 8/1/2020-7/31/2023 | PI | National Institute of Nursing Research |
| Examining the Relationship between Economic Hardship and Quality of Life in Patients with Multiple Myeloma, 6/4/2019-6/3/2020 | PI | Alpha Epsilon chapter of Sigma, Atlanta, GA |
| Examining the Relationship between Economic Hardship and Quality of Life in the Outpatient Oncology Palliative Care Setting: A Pilot Study (NEPC-2018-01), 4/1/2019 - 3/31/2020 | Co-PI | Center for Nursing Excellence in Palliative Care, Nell Hodgson Woodruff School of Nursing, Emory University |
| Pilot for Center for the Study of Symptom Science, Metabolomics and Multiple Chronic Conditions: Oral Health, Inflammation, and the Risk of Mild Cognitive Impairment among Cancer Caregivers (3P30NR018090-02S2), administrative supplement, 9/1/2019 - 8/31/2020 | Postdoctoral Fellow | National Institute of Nursing Research |

Publications

Bai J, **Belcher SM**, Meador R, Daniel G, Shelton JW, Patel P, Dolan M, Arluck J, Khanna N, Horowitz I, Liu T, & Bruner DW (2019). Comparison of depression, sexual function, and quality of life between women with gynecological cancers and race-matched healthy controls. *Cancer Nursing*. doi:10.1097/NCC.0000000000000744
doi:10.1097/NCC.0000000000000744

Belcher SM, Bruner DW, Hofmeister CC, Kweon J, Meghani SH, & Yeager KA (2020). Characterizing pain experiences: African American patients with multiple myeloma taking around-the-clock opioids. *Clinical Journal of Oncology Nursing*, 24 (5), 538-546. doi:10.1188/20.CJON.538-546

Belcher SM & Bruner DW (in press). Sexual function. In M. McQuestion, M. E. Witt, & L. Drapek (Eds.), *Manual for radiation oncology nursing practice and education* (5th ed.). Oncology Nursing Society.

Belcher SM, Donovan HS, Sherwood PS, Bovbjerg DH, Campbell GB, & Sereika SM (2020). Psychobehavioral risks factors for financial hardship and poor functional outcomes in survivors of multiple primary cancers. *Psycho-Oncology*, 29 (3), 507-516. doi:10.1002/pon.5293

Thomas TH, Campbell GB, Lee YJ, Roberge MC, Kent EE, Steel JL, Posluszny DM, Arida JA, **Belcher SM**, Sherwood PR, & Donovan HS (2020). Priorities to improve cancer caregiving: Report of a caregiver stakeholder workshop. *Supportive Care in Cancer*. doi: 10.1007/s00520-020-05760-y

Presentations

1. **Moris JL**, Baniak L, **Belcher SM**, Imes C, **Luyster F**, **Scott PW**, **Sereika SR**, & **Chasens ER** (2020). Perceived financial difficulty predicts sleep quality in participants with type 2 diabetes and obstructive sleep apnea. *SLEEP*, 43 (Supplement 1), A401. doi: 10.1093/sleep/zsaa056.1052.

Presented virtually at Sleep 2020, the 34th annual meeting of the Associated Professional Sleep Societies (APSS).

2. **Belcher S**, Curseen KL, Lal A, Nguyen J, Gantz L, & Yeager K (2020). Exploring financial hardship and quality of life in patients with advanced cancer in the ambulatory palliative care setting. *Oncology Nursing Forum*, 47 (2), 243. doi: 10.1188/20.ONF.E56

Selected among top-scoring research abstracts for moderated poster presentation at Oncology Nursing Society 45th Annual Congress.

Meeting cancelled due to COVID-19; e-poster presented at the ONS Bridge virtual conference.

Scientific Findings, 7/1/19-12/31/20 (bullet points)

- Gynecological cancer patients had higher BMIs, more depression, and lower QOL than healthy controls; within group comparisons differed by race.
- Women with gynecological cancer and healthy controls both met criteria for sexual dysfunction at baseline.
- African American patients with multiple myeloma taking around-the-clock opioids experienced everyday pain and high symptom burden and had higher levels of depression than published norms.
- Pain management barriers among African American patients with multiple myeloma taking around-the-clock opioids included dislike of pills, fear of addiction, and bothersome side effects from pain and medication.
- Cancer caregiver-identified priorities for support included: 1) training and information about cancer and treatment; 2) caregiver integration into the patient's healthcare delivery; 3) assistance with healthcare navigation; 4) focus on caregiver health and well-being; and 5) policy reform to address caregiver needs.
- Perceived financial difficulty was the only social determinant of health examined that predicted worse sleep quality among individuals with type II diabetes and obstructive sleep apnea.
- Among individuals with type II diabetes and obstructive sleep apnea, being African American, female, lower education, and younger age were associated with worse perceived financial difficulty.
- Despite receiving ambulatory palliative care services, patients with advanced cancer experienced high financial hardship, low QOL, and moderate pain and fatigue scores.

- High financial hardship was associated with lower QOL role limitations due to emotional problems among advanced cancer patients receiving ambulatory palliative care service.

Catherine Bender

Funded Research

| | | |
|---|--|---|
| Influence of Exercise on Neurocognitive Function in Breast Cancer (1R01CA196762) | MPI (Bender, Erickson, Conley) | NCI |
| Epigenomics of Neurocognitive Function in Breast Cancer (CA221882) | MPI (Conley, Bender, Erickson) | NCI |
| Epigenomics of Neurocognitive Function in Breast Cancer (CA221882) | MPI (Conley, Bender, Erickson) | NCI |
| Supplement: Understanding Aging Trajectories Among Cancer Survivors | | |
| Symptoms and Adherence to Cancer Therapeutics | MPI (Bender, Conley) | Pitt CTSI |
| Symptoms and Adherence to Cancer Therapeutics | MPI (Nilsen, Bender) | Head and Neck Cancer Spore, UPMC Hillman Cancer Center American Cancer Society Career Development Award |
| Strong Together: Piloting a Serious Game to Improve Self-Advocacy | PI: Thomas Sponsors (Bender, Schenker) | |
| Understanding Oral Anticancer Medication Adherence among Patients with Multiple Myeloma (K23NR019296) | PI: Belcher Sponsor (Bender) | NINR |
| A Multi-omics Approach to Examine Symptoms and Medication Adherence in Women with Breast Cancer (F99CA253771) | PI: McCall Sponsors (Bender, Conley) | NCI |
| Genomic Underpinnings for Breast Cancer Treatment Induced Nausea and Vomiting R01NR016695 | PI: Wesmiller Co-I: Bender | NINR |

Publications

Bender, CM., Sereika, SM., Gentry, AL., Duquette, JE., Casillo, FE., Marsland, A., Brufsky, AM., Evans, S., Gorantla, VC., Grahovac, TL., McAuliffe, PF., Steiman, JG., Zhu, Y., Erickson, KI. (2021). Physical Activity, Cardiorespiratory Fitness and Cognitive Function in Postmenopausal Women with Breast Cancer. *Supportive Care in Cancer*, DOI: 10.1007/s00520-020-05865-4.

Brick RS, **Bender C.M.**, Skidmore ER. (In press). Impact of cancer and cancer-related treatments on participation restrictions. *Br J Occup Ther.*

Heinsberg LW, **Bender CM**, Rohay JM, Sherwood PR, Crago EA. Psychometric Properties of the Patient Assessment of Own Functioning Inventory Following Aneurysmal Subarachnoid Hemorrhage. *Journal of Nursing Measurement*. 2020;28(2):205-228. doi:10.1891/JNM-D-18-00117

Kim, H., Sereika, S.M., Lingler, J.H., Albert, S.M., **Bender, C.M.** Illness Perceptions, Self-efficacy, and Self-reported Medication Adherence in Persons Aged 50 and Older With Type 2 Diabetes. *Journal of Cardiovascular Nursing*.

Li, H., Marsland, A. L., Conley, Y. P., Sereika, S. M., & **Bender, C. M.** (2020). Genes Involved in the HPA Axis and the Symptom Cluster of Fatigue, Depressive Symptom and Anxiety in Women with Breast Cancer During 18 Months of Adjuvant Therapy. *Biological Research for Nursing*, 22(2): 277-286. <https://doi.org/10.1177/1099800419899727>

McCall, M., Nugent, B., Connolly, M., Mazanec, S., Sereika, S., **Bender, C.**, Rosenzweig, M. Protocol for Symptom Experience, Management, Outcomes and Adherence according to Race and Social Determinants of health (SEMOARS): A Mixed-

method, Descriptive, Comparative Study in Women Receiving Breast Cancer Chemotherapy" (2020). Nursing Research. In Press.

Nugent, B.D., McCall, M.K., Connolly, M., Mazanex, S.R., Sereika, S.M., **Bender, C.M.**, Rosenzweig, M.Q. (In press). Protocol for Symptom Experience, Management, Outcomes and Adherence in Women Receiving Breast Cancer Chemotherapy. *Nursing Research*.

Thomas, T.H., Donovan, H.S., Rosenzweig, M.Q., **Bender, C.M.** and Schenker, Y., 2021. A Conceptual Framework of Self-advocacy in Women With Cancer. *ANS. Advances in nursing science*, 44(1), p.E1.

Wagner, M. A., Erickson, K.I., **Bender, C.M.**, Conley, Y.P (In press). The Influence of Physical Activity and Epigenomics On Cognitive Function and Brain Health in Breast Cancer. *Frontiers in Aging Neuroscience*.

Zhu Y. KTA, **Bender C.M.**, Conley Y.P. (2020). Genetic Underpinnings of Musculoskeletal Pain During Treatment With Aromatase Inhibitors for Breast Cancer: A Biological Pathway Analysis. *Biological Research for Nursing*, 22:263-276.

Honor:

Invited to serve on NCI Expert Panel, Cancer-Related Cognitive Impairment, State of the Science.

Presentations

Physical Activity & Cancer Related Cognitive Impairment: Samples & Mechanisms, an invited presentation to the NCI Cancer-Related Cognitive impairment Symposium, March 4, 2021.

What does it mean when a patient complains of cognitive impairments? Presented at the University of North Carolina Palliative Care Symposium. March 31, 2021.

Scientific Findings

- Lower levels of physical activity and cardiorespiratory fitness are associated with poorer cognitive function across several cognitive domains in women with breast cancer prior to the initiation of systemic adjuvant therapy.
- Lower levels of physical activity and cardiorespiratory fitness are associated with greater severity of pain, fatigue, depressive symptoms, and sleep problems in women with breast cancer prior to the initiation of systemic adjuvant therapy.

Takis Benos

Funded Research

| | | | |
|--------------------------------------|---|----------------|-----------|
| U01 HL145550 (PI: Rojas/Benos/et al) | Mapping age-related changes in the lung | MPI | NIH-NIA |
| R01 HL140963 (PI: Morris/Benos/Chan) | Systems Biology of Diffusion Impairment in HIV | MPI | NIH-NHLBI |
| P30 DK120531 (PI: Monga) | Pittsburgh Liver Research Center | Core PI | NIH-NIDDK |
| R35CA210039 (PI: Finn) | Immunoprevention and immunosurveillance of human non-viral cancers | Co-I | NIH-NCI |
| DoD (PI: Najja, Delgoffe) | Metabolic Remodeling of the Tumor Microenvironment to Improve the Efficacy of Immunotherapy | Co-I | DoD |
| P01 HL103455 (PI: Gladwin/Morris) | Therapeutic Targeting of Vascular Subphenotypes of Lung Disease | Co-I | NIH-NHLBI |

Publications

A. Cheikhi, C. Wallace, C. St. Croix, C. Cohen, W.-Y. Tang, P. Wipf, P.V. Benos, F. Ambrosio, A. Barchowsky, "Mitochondria are a substrate of cellular memory", **Free Radic Biol Med**, (2019), **130**:528-541. PMID: [30472365](#). PMCID: PMC0000000.

I. Abecassis[†], A.J. Sedgewick[†], M. Romkes, S. Buch, T. Nukui, M.G. Kapetanaki, A. Vogt, J. Kirkwood, P.V. Benos^{*}, Hussein Tawbi^{*}, “PARP1 rs1805407 Increases Sensitivity to PARP1 Inhibitors in Cancer Cells Suggesting an Improved Therapeutic Strategy”, **Scientific Reports**, (2019), **9**:3309. PMID: 30824778. PMCID: PMC6397203.

[†]equal contribution; ^{*}corresponding author

V.K. Raghu, W. Zhao, J. Pu, J.K. Leader, R. Wang, J. Herman, J.-M. Yuan, P. V. Benos^{*}, D.O. Wilson, “Feasibility of lung cancer prediction from low-dose CT scan and smoking factors using causal models”, **Thorax**, (2019), **74**:643-649. PMID: 30862725. PMCID: PMC6585306. ^{*} corresponding author

J. Mandel, H. Wang, D.P. Normolle, W. Chen, Q. Yan, P.C. Lucas, P.V. Benos, E.V. Prochownik, “Expression patterns of small numbers of transcripts from functionally-related pathways predict survival in multiple cancers”, **BMC Cancer**, (2019), **19**:686. PMID: 31299925. PMCID: PMC6626418.

J.E. McDonough, F. Ahangari, Q. Li, S. Jain, S.E. Verleden, J. Herazo-Maya, M. Vukmirovic, G. Deluliis, A. Tzouvelekis, N. Tanabe, F. Chu, X. Yan, J. Verschakelen, R.J. Homer, D.V. Manatakis, J. Zhang, K. Maes, L. De Sadeleer, R. Vos, A. Neyrinck, P.V. Benos, Z. Bar-Joseph, D. Tantin, J.C. Hogg, B.M. Vanaudenaerde, W.A. Wuyts, Naftali Kaminski, “Transcriptional regulatory networks of fibrosis progression within the human IPF lung”, **JCI Insight**, (2019), **4**:e131597. PMID: 31600171. PMCID: PMC6948862.

G.D. Kitsios, L. Yang, D.V. Manatakis, J. Evankovich, W. Bain, D. Dunlap, F. Shah, I. Barbash, S.F. Rapport, Y. Zhang, M. Nouraie, R.S. DeSensi, N.M. Weathington, B.B. Chen, P. Ray, R.K. Mallampalli, P.V. Benos, J.S. Lee, A. Morris, B.J. McVerry, “Host-Response Subphenotypes Offer Prognostic Enrichment in Patients With or at Risk for Acute Respiratory Distress Syndrome”, **Critical Care Medicine**, (2019), **47**:1724-1734. PMID: 31634231. PMCID: PMC6865808.

K.L. Buschur, M. Chikina; P.V. Benos, “Causal network perturbations for instance-specific analysis of single cell and disease samples”, **Bioinformatics**, (2020) **36**:2515–2521. PMID: 31873725. PMCID: PMC7178399.

X. Ge[†], V.K. Raghu[†], P.K. Chrysanthis^{*}, P.V. Benos^{*}, “CausalMGM: An interactive web-based causal discovery tool”, **Nucl Acids Res**, (2020) **48**(Web Server issue):W597-W602. PMID: 32392295. PMCID: PMC7319538. ^{*} equal contribution; [†] corresponding authors

G.D. Kitsios, H. Yang, L. Yang, S. Qin, A. Fitch, X.-H. Wang, K. Fair, J. Evankovich, W. Bain, F. Shah, K. Li, B. Methé, P.V. Benos, A. Morris, B.J. McVerry, “Dysbiosis in Upper and Lower Respiratory Tract Microbial Communities is Associated with Inflammatory Host Responses and Worse Clinical Outcomes in Mechanically-Ventilated Patients”, **Am J Resp Crit Care Med**, (2020), *in print*. PMID: 32717152. PMCID: PMC0000000.

Grace Campbell

Funded Research

| | | |
|---|------------|--|
| Characterizing Age-Related Variations in Persistent Neuropathy-Related Balance/Gait Changes, Functional Impairments, and Social Role Disability after Chemotherapy for Gynecologic Cancer | PI | UPMC Aging Institute |
| Implementing a Stepped ‘SmartRehab’ Approach to Optimize Return to Social Participation among Cancer Survivors and Family Caregivers: A Systemwide Scale-Up Project” Program project under “Center for Research, Training, and Dissemination of Family Support for People with Disabilities Across the Life Course: Rehabilitation Research and Training Center (RRTC) on Family Support” (PIs: Donovan; Parmanto; Beach) | Lead Co-PI | DHHS/Administration for Community Living Grant #12877426 |

Publications

Thomas TH, Campbell GB, Lee YJ, Roberge MC, Kent EE, Steele JL, Posluszny DL, Arida JA, Belcher SM, Sherwood PR, Donovan HS. (in press). Priorities to Improve Cancer Caregiving: Report of a Caregiver Stakeholder Workshop. Supportive Care in Cancer.

Wilkenfeld D, Campbell G. (in press). Improving Informed Consent by Enhancing the Role of Nurses. Nursing Ethics.

Hoffmann RL, Battaglia A, Perpetua Z, Wojtaszek K, Campbell G. The Clinical Nurse Leader and COVID-19: Leadership and Quality at the Point of Care. (in press). Journal of Professional Nursing.

Paice J, Campbell G, Ginex PK, Harris M, Matzo M, Mazanec P. (in press). Providing Compassionate, Safe & Effective Pain Management for Patients with Serious Illness and Co-Morbid Substance Use Disorder. Nursing2020.

Bluethmann SM, Flores E, Campbell G, Klepin HD. (in press). Mobility Device Use and Mobility Disability in Medicare Beneficiaries with and without Cancer History. Journal of the American Geriatrics Society. DOI: 10.1111/jgs.16789

Stout N, Brown J, Schartz A, Marshall T, Campbell A, Nekhlyudov L, Zucker D, Basen-Engquist K, Campbell G, Meyerhardt J, Cheville A, Covington K, Ligbel J, Sokolof J, Schmitz K, Alfano C. (2020). An Exercise Oncology Clinical Pathway: Screening and Referral for Personalized Interventions. Cancer. 2020 Mar 25. doi: 10.1002/cncr.32860. [Epub ahead of print].

Kringle EA, Barone Gibbs B, Campbell G, Terhorst L, McCue M, Kersey J, Skidmore ER. (2020). Influence of interventions on daily physical activity and sedentary behavior after stroke: A systematic review. PM R;12(2):186-201. <https://doi.org/10.1002/pmrj.12222>

Kringle EA, Terhorst L, Barone Gibbs B, Campbell G, McCue M, Skidmore ER. (in press, scheduled for publication in Volume 74, Issue 6). Activating behavior to reduce sedentary behavior after stroke: A non-randomized pilot feasibility study. Am J Occup Ther.

Belcher SM, Donovan HS, Bovbjerg DH, Sherwood PR, Campbell GB, Sereika SM. Psychobehavioral risk factors for financial hardship and poor functional outcomes in survivors of multiple primary cancers. Psycho-Oncology (published online ahead of print, 11/15/2019). DOI: <https://doi.org/10.1002/pon.5293>.

Campbell G, Boisen M, Hand L, Lee YJ, Lersch N, Roberge M, Suchonic B, Thomas T, Donovan H. (2019). Integrating Family Caregiver Support into a Gynecologic Oncology Practice: An ASCO Quality Training Program Project. Published online September 7, 2019: <https://ascopubs.org/doi/full/10.1200/JOP.19.00409>

Jang H, Lee Y J, Carenini G, Ng R, Campbell G, & Ho, K. (2019). Neural Prediction of Patient Needs in an Ovarian Cancer Online Discussion Forum. In Canadian Conference on Artificial Intelligence (pp. 492-497). Springer, Cham.

Kringle EA, Terhorst L, Barone Gibbs B, Campbell G, McCue M, Skidmore ER. (2019). Preliminary effects of the ABLE intervention on sedentary behavior after stroke. Development and feasibility of a sedentary behavior intervention for stroke: A case series. Top Stroke Rehabil. (published online ahead of print). DOI: 10.1080/10749357.2019.1623437.

Hand LC, Thomas TH, Belcher S, Campbell G, Lee YJ, Roberge M, Donovan HS. (2019). Defining essential elements of caregiver support in gynecologic cancer utilizing a modified Delphi methodology. Journal of Oncology Practice, Mar 8:JOP1800420. doi: 10.1200/JOP.18.00420. [Epub ahead of print].

Heidi Donovan

Funded Research

National Rehabilitation Research and Training Co-Director NIDILRR
Center on Family Support - (ORTGE0002)

Publications

Belcher SM, Donovan HS, Sherwood PS, Bovbjerg DH, Campbell GB, & Sereika SM (2020). Psychobehavioral risks factors for financial hardship and poor functional outcomes in survivors of multiple primary cancers. *Psycho-Oncology*, 29 (3), 507-516. doi:10.1002/pon.5293

Donovan HS, Thomas TH, Boisen MM, Campbell G, Edwards RP, Hand LC, Lee YJ. Stability of symptoms and symptom clusters over time for women with recurrent ovarian cancer on GOG-259: A GOG/NRG Oncology study. Gynecologic Oncology. 2020 Oct 1;159:60.

Lee YJ, Park A, Roberge M, **Donovan H**. What Can Social Media Tell Us About Patient Symptoms: A Text-Mining Approach to Online Ovarian Cancer Forum. Cancer Nursing. 2020 Jul 8.

Thomas TH, Campbell GB, Lee YJ, Roberge MC, Kent EE, Steel JL, Posluszny DM, Arida JA, **Belcher SM**, Sherwood PR, & Donovan HS (2020). Priorities to improve cancer caregiving: Report of a caregiver stakeholder workshop. *Supportive Care in Cancer*. doi: 10.1007/s00520-020-05760-y

Thomas TH, Campbell GB, Lee YJ, Roberge MC, Kent EE, Steele JL, Posluszny DL, Arida JA, Belcher SM, Sherwood PR, Donovan HS. (in press). Priorities to Improve Cancer Caregiving: Report of a Caregiver Stakeholder Workshop. *Supportive Care in Cancer*.

Laura Fennimore

Publication

Lynch, M. P., Kagan, S. H., **Thomas, T., H.**, & Fennimore, L. (In press) Age-friendly cancer care: A survey on readiness. *Oncology Nursing Forum*.

Honors

Invited as Organizational Affiliate Liaison to the ANA Board, to join the National Commission to Address Racism in Nursing. The **purpose** of the Commission is to: Advance a national discussion across the nursing profession to magnify the impact of racism within nursing on patient/families/communities, the health care system, and colleagues. Develop strategies to actively address issues of racism within nursing across the spectrum of practice, policy, and education.

Young Ji Lee

Funded Research

Development and Implementation of a Health e- PI NINR
 Librarian with Personalized Recommender
 (HELPer) 5R01LM013038

Publications

Lee YJ, Kamen C, Margolies L, Boehmer U. Online health community experiences of sexual minority women with cancer. *Journal of the American Medical Informatics Association*. 2019 Aug;26(8-9):759-66.

Donovan HA, Boisen MM, Hand L, **Lee YJ**, Lersch N, Roberge M, Suchonic B, Thomas T, Campbell G. Family caregiver needs assessment in a gynecologic oncology practice: An ASCO quality training program project. *Journal of clinical Oncology*. 2019;37(27_suppl): 178-178.

Ge A, Jang H, Carenini G, Ho K, **Lee YJ**. Octvis: ontology-based comparison of topic models. In 2019 IEEE Visualization Conference (VIS) 2019 Oct 20 (pp. 66-70). IEEE.

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Lee YJ, Niyu H. Development of a Graph-Based Database for Ovarian Cancer Symptoms. *Studies in health technology and informatics*. 2020;270:1253-4.

Donovan HS, Thomas TH, Boisen MM, Campbell G, Edwards RP, Hand LC, **Lee YJ**. Stability of symptoms and symptom clusters over time for women with recurrent ovarian cancer on GOG-259: A GOG/NRG Oncology study. *Gynecologic Oncology*. 2020 Oct 1;159:60.

Lee YJ, Park A, Roberge M, Donovan H. What Can Social Media Tell Us About Patient Symptoms: A Text-Mining Approach to Online Ovarian Cancer Forum. *Cancer Nursing*. 2020 Jul 8.

Lee YJ, Bryce C, Jain S, Kraschnewski J, McTigue K. Patient-centered visualization on supporting patients' decision-making. *European Journal for Person Centered Healthcare*. 2020 Jul 29;7(4):630-9.

Lee YJ, Brazile T, Galbiati F, Hamm M, Bryce C, Jain S, Kraschnewski J, McTigue K. Understanding shared decision-making experience among vulnerable population: Focus group with food bank clients. *Journal of Clinical and Translational Science*.:2020:1-8.

Thomas TH, Campbell GB, **Lee YJ**, Roberge MC, Kent EE, Steel JL, Posluszny DM, Arida JA, Belcher SM, Sherwood PR, Donovan HS. Priorities to improve cancer caregiving: report of a caregiver stakeholder workshop. *Supportive Care in Cancer*. 2020 Sep 12:1-2.

Presentations

Zhu J, Donovan H, **Lee YJ**. Discovering Factors Contributing to Distress in Family Caregivers of Women with Gynecologic Cancers. National Conferences on Undergraduate Research 2020. (March, 2020)

Lee YJ, Campbell G, Han V, Jang H. Dialog Act Classification for Automated Classification of Online Health Communities. 2019 American Medical Informatics Association Annual Symposium. (November, 2019)

Hui V, **Lee YJ**. Harnessing Health Information Technology in Family Violence in the United States – Systematic Review. 2019 American Medical Informatics Association Annual Symposium. (November, 2019)

Tahker K, He D, Brusilovsky P, **Lee YJ**. Automated categorization of online health documents using Domain Specificity. 2020 American Medical Informatics Association Annual Symposium. (November, 2020)

Wang Z, Brusilovsky P, Donovan H, Hui V, Klem ML, Przybylak D, Reis H, He D, **Lee YJ**. Machine learning based iterative annotation system for Ovarian Cancer articles. 2020 American Medical Informatics Association Annual Symposium. (November, 2020)

Marci Nilsen

Funded Research

| | | |
|--|-----|--|
| Cancer-associated anxiety drives tumor progression and exacerbates cancer pain | PI | PNC Charitable Trust |
| The Influence of Radiation Therapy on Cognitive Function in Head & Neck Cancer | PI | School of Nursing, CRE Pilot/Feasibility Study Program |
| Cancer associated anxiety drives tumor progression and exacerbates cancer pain via local adrenergic signaling in the cancer microenvironment | MPI | Head and Neck Cancer SPORE Developmental Research Project (5P50 CA097190-13; PI: Ferris) |

Publications

Baddour, K., Kudrick, L.D., Neopane, A., Sabik, L.M., Peddada, S.D., **Nilsen, M.L.**, Johnson, J.T., Ferris, R.L., & Mady, L.J. (2020, epub). Potential impact of the COVID-19 pandemic on financial toxicity in cancer survivors. *Head & Neck*, <https://doi.org/10.1002/hed.26187>

Dharmarajan, H., Anderson, J.L., Kim, S., Sridharan, S., Duvvuri, U., Ferris, R.L., Solari, M.G., Clump, D.A., Skinner, H.D., Ohr, J.P., Zandberg, D.P., Branstetter, B., Hughes, M.A., Traylor, K.S., Seethala, R., Chiosea, S.I., **Nilsen, M.L.**, Johnson, J.T., & Kubik, M.W. (2020, epub). Transition to a virtual multidisciplinary tumor board during the COVID-19 pandemic: University of Pittsburgh experience. *Head & Neck*, <https://doi.org/10.1002/hed.26195>

Graboyes, E.M., Hand, B.N., Ellis, M.A., Huang, A.T., **Nilsen, M.L.**, Pipkorn, P., Marsh, C.H., Maurer, S., Day, T.A., Sterba, K.R. (2020). Validation of a Novel, Multidomain Head and Neck Cancer Appearance- and Function-Distress Patient-Reported Outcome Measure Otolaryngology-Head and Neck Surgery. *Otolaryngology-Head and Neck Surgery*. <https://doi.org/10.1177/0194599820927364>

Harris, A., Lyu, L., Wasserman-Wincko, T., George, S., Johnson, J.T., & **Nilsen, M.L.** (2020). Neck Disability and Swallowing Function in Post-Treatment Head and Neck Cancer Patients. *Otolaryngology-Head and Neck Surgery*. 163(4):763-770, <https://doi.org/10.1177/0194599820923630>

Nilsen, M.L., Lyu, L., Belsky, M., Mady, L., Zandberg, D., Clump, D., Skinner, H., Peddada, S.D., George, S., & Johnson, J.T. (2020). Impact of Neck Disability on Health-Related Quality of Life Among Head and Neck Cancer Survivors. *Otolaryngology-Head and Neck Surgery*, 162(1):64-72

Nilsen, M.L., Belsky, M.A., Scheff, N., Johnson, J.T., Zandberg, D.P., Skinner, H., & Ferris R. (2020). Late and Long-term treatment-related effects and survivorship for head and neck cancer patients. *Current Treatment Options in Oncology*. 21(12):92, <https://doi.org/10.1007/s11864-020-00797-x>

Nilsen, M. L., Moskovitz, J., Lyu, L., Randazza, E., Peddada, S.D., and Johnson, J. T. (2020), Health Literacy: Impact on Quality of Life in Head and Neck Cancer Survivors. *The Laryngoscope*, 130(10):2354-2359, <https://doi.org/10.1002/lary.28360>

Nilsen, M.L, Clump, D.A., Kubik, M., Losego, K., Mrozek, A., Pawlowicz, E., Pickford, D., Sridharan, S., Traylor, K., Wasserman-Wincko, T., Young, K., Zandberg, D., & Johnson, J.T. (2020, epub) Prevision of multidisciplinary head and neck cancer survivorship care during the 2019 novel coronavirus pandemic. *Head & Neck*, <https://doi.org/10.1002/hed.26256>

Nilsen, M. L., Mady, L. J., Hodges, J., Wasserman-Wincko, T. and Johnson, J. T. (2019, epub). Burden of treatment: Reported outcomes in a head and neck cancer survivorship clinic. *The Laryngoscope*, <https://doi.org/10.1002/lary.27801>

Presentations

Nilsen, M.L & Johnson, J.T. (September 2020). Integration of Multidisciplinary Survivorship Care into Head and Neck Cancer Practice. American Academy of Otolaryngology, Virtual Meeting

Scientific findings

- Over half of survivors (54.2%) reported neck disability. The odds of neck disability in survivors who received nonsurgical treatment and those who received surgery plus adjuvant treatment were 3.46 and 4.98 times higher compared to surgery alone ($P = .008$, $P = .004$). Survivors who underwent surgery only had higher physical and social QOL than those who received nonsurgical treatment (physical QOL: $P < .001$, social QOL: $P = .023$) and those who received surgery plus adjuvant treatment (physical QOL: $P < .001$, social QOL: $P = .039$).
- Survivors treated for early stage cancer had lower swallowing scores than those with advanced stage (early = 3.55 ± 7.46 ; advanced = 11.95 ± 11.02 , $P < .001$). After controlling for age, time since treatment, American Joint Committee on Cancer stage, and treatment modality, the EAT-10 score for patients with mild neck disability was 6.88 (95% confidence interval [CI], 3.71-10.06; $P < .001$) points higher than those without neck disability, and the score for those with moderate-complete neck disability was 13.65 (95% CI, 9.47-17.83; $P < .001$) points higher than those without neck disability.
- Head and neck cancer patients and controls performed comparably on measures of attention, working memory, learning/memory, and executive function ($p \geq .05$). However, head and neck cancer participants reported higher levels of perceived cognitive impairment than controls at baseline [FACT-Cog: Total Comments from Others ($p < .05$) and FACT-Cog: Perceived Cognitive Abilities ($P < .05$)].

Dianxu Ren

Funded Research

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|--|------|------|
| Cardiometabolic Risk Factors and Risk of Dementia R03 1R03AG068413-01 | PI | NIA |
| Recruitment Innovations to Enhance Diversity in AD Research R01 AG054518 01A1 | Co-I | NIA |
| Effect of Antenatal Milk Expression on Breastfeeding Outcomes among Overweight and Obese Women R01 1 R01HD098186-01 | Co-I | NIHD |
| Lung Transplant Go (LTGO): Improving Self-Management of Exercise after Lung Transplantation R01 1R01NR017196-01 | Co-I | NINR |
| Sex Steroids and IGF in the CNS Following aSAH and Their Relationship to Patient Outcomes R01 1R01NR018160-01 | Co-I | NINR |
| Epigenetic Changes and Delirium after Intensive Care Unit Admission R21 1R21AG059167-01 | Co-I | NIA |

Publications

Imes CC, Baniak LM, Choi J, Luyster FS, Morris JL, **Ren D**, Chasens ER. (2019). Correlates of Endothelial Function in Older Adults With Untreated Obstructive Sleep Apnea and Cardiovascular Disease. *J Cardiovasc Nurs*, 34(1):E1-E7.

Ren D, Kwon A. Effect of walking behavior on perceived stress based on binary multi-level modeling. *Journal of Public Health*. 2019/11; doi: 10.1007/s10389-019-01143-8

Cole AM, Weigel J, Albrecht S, **Ren D**, Reilly Ak, Danford CA. (2019). Setting Kids Up for Success (SKUFS): Outcomes of an Innovation Project for Promoting Healthy Lifestyles in a Pediatric Patient-Centered Medical Home (PCMH). *Journal of Pediatric Health Care*. 33(4):455-465.

Reiser V, Rosenzweig M, Welsh A, **Ren D**, Usher B. (2019). The Support, Education, and Advocacy (SEA) Program of Care for Women With Metastatic Breast Cancer: A Nurse-Led Palliative Care Demonstration Program. *American Journal of Hospice and Palliative Medicine*. 36(10):864-870

Nugent BD, **Ren D**, Bender CM, Rosenzweig M. (2019). The impact of age and adjuvant chemotherapy modifications on survival among Black women with breast cancer. *Clin Breast Cancer*, 19(4):254-258.

Ren D., Lopez O.L., Lingler J., Conley Y. (2020). The effect of APOE e2e4 genotype on the development of Alzheimer's disease (AD) and mild cognitive impairment (MCI) in Non-Latino Whites. *Journal of the American Geriatrics Society*, 68(5):1044-1049.

Wang J, **Ren D**, Liu Y, Wang Y, Zhang B, Xiao Q. (2020). Effects of early mobilization on the prognosis of critically ill patients: A systematic review and meta-analysis. *Int J Nurs Stud*. 2020 Jul 11;110:103708. doi: 10.1016/j.ijnurstu.2020.103708. [Epub ahead of print] Review. PubMed PMID: 32736250.

Joy JA, Novosel LM, **Ren D**, Engberg S. (2020). Effect of a QI Intervention on Nursing Assistants' Pain Knowledge and Reporting Behavior. *Pain Manag Nurs*. 2020 Jul 31;. doi: 10.1016/j.pmn.2020.06.010. [Epub ahead of print] PubMed PMID: 32747173.

Bench VR, Beach M, **Ren D**. (2020). Evaluation of an Adapted Collaborative Care Model for Older Adult Depression Severity Reduction and Quality of Life Improvement. *J Evid Based Soc Work* (2019). 2020 Sep-Oct;17(5):527-537. doi: 10.1080/26408066.2020.1768193. Epub 2020 Jun 23. PubMed PMID: 32573365.

Margaret Rosenzweig

Funded Research

| | | |
|--|--------------|---|
| Breast Cancer Treatment Symptom Experience, Management, Outcomes According to Race R01MD012245-01 | PI | The National Institute of Minority Health and Health Disparities |
| SOALCO <u>The Influence of Life Stress on Advanced Lung Cancer Outcomes</u> (2021-2023) - CONNECT for Patients with Advanced Cancer 1R01CA197103-01A1 | PI Co - I | Genentech (G-89023) 2020 Health Equity Innovations Fund National Cancer Institute: |
| <u>ONc- PoWER – Oncology Nursing Practitioner/APP Web Education Resource</u> <u>R25 1R25CA148050</u> | PI | National Cancer Institute: |
| CTSI Pilot - Genomic Knowledge and Willingness to Engage in Research According to Race | PI | CTSI's University of Pittsburgh |

Publications

Brazee, R. L., Sereika, S. M., & **Rosenzweig, M. Q.** Prevalence, pattern, and probability for

goals of care discussions among women diagnosed with metastatic breast cancer. *Journal of cancer survivorship: research and practice*. In Press

Blohmer, M., Zhu, L., Atkinson, J. M., Beriwal, S., Rodríguez-López, J. L., **Rosenzweig, M.**, ... & Oesterreich, S. (2020). Patient treatment and outcome after breast cancer orbital and periorbital metastases: a comprehensive case series including analysis of lobular versus ductal tumor histology. *Breast Cancer Research*, 22(1), 1-14.

Cohen, Michael G., Andrew D. Althouse, Robert M. Arnold, Hailey W. Bulls, Douglas White, Edward Chu, Margaret Rosenzweig, Kenneth Smith, and Yael Schenker. "Is Advance Care Planning Associated With Decreased Hope in Advanced Cancer?." *JCO Oncology Practice* (2020): OP-20.

Harlan, M. **Rosenzweig, M.**, Hoffmann. (2021). Preferred Teaching/Learning Strategies for Graduate Nursing Students in Web-Enhanced Courses. *Dimensions of Critical Care Nursing*. In Press

Heckman, R., **Rosenzweig, M.** (2021) The Quality of End-of-Life Care for Women Deceased from Metastatic Breast Cancer." *The Journal of Hospice and Palliative Care Nursing*. In Press.

McCall, M., Nugent, B., Connolly, M., Mazanec, S., Sereika, S., Bender, C., **Rosenzweig, M.** Protocol for Symptom Experience, Management, Outcomes and Adherence according to Race and Social Determinants of health (SEMOARS): A Mixed-method, Descriptive, Comparative Study in Women Receiving Breast Cancer Chemotherapy" (2020). *Nursing Research*. In Press.

McCall, M., Bender, C., Conley, Y., **Rosenzweig, M.** (2019) The symptom experience, management and outcomes according to race + genomics, epigenetics and metabolomics (SEMOARS+GEM) explanatory model of racial symptom and treatment disparity during breast cancer chemotherapy. *Journal of Cancer Education*

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*, 69(5), 404.

Resick, J., Sefcik, J., Arnold, R., LeBlanc, T., Bakitas, M., **Rosenzweig, M.Q.**, Smith, T., Dorritie, K.

MD, Sehgal, A., Im, A., Folino, R., Tarr, N., Bress, D., Schenker. Primary Palliative Care for Patients with Advanced Hematologic Malignancies: A Pilot Trial of the SHARE Intervention *Journal of Palliative Medicine*. 2020 Oct 19 (online ahead of print). PMID: 33074775. doi: 10.1089/jpm.2020.0407.

Rosenzweig, M., AD Althouse, L Sabik, R Arnold, E Chu, TJ Smith, ...Schenker, Y. Association Between Area Deprivation Index and Patient Reported Outcomes in Patients with Advanced Cancer. *Health Equity*. (2021) 5 (1), 8-16

Thomas, T., Althouse, A., Sigler, L., Arnold, R., Chu, E., White, D.B., **Rosenzweig, M.**, Smith, K., Smith, T.J. and Schenker, Y., 2021. Stronger therapeutic alliance is associated with better quality of life among patients with advanced cancer. *Psycho-Oncology*. (2021)

Thomas, T.H., Donovan, H.S., **Rosenzweig, M.Q.**, Bender, C.M. and Schenker, Y., 2021. A Conceptual Framework of Self-advocacy in Women With Cancer. *ANS. Advances in nursing science*, 44(1), p.E1.

Presentations

Symptom Science Advances in Oncology Nursing - virtual event on February 4 and 5, 2021. Plenary speaker – *Racial Disparity in Cancer Symptom Experience and Management*. NINR/NCI/ONS

Awards received

2020 President Award - Friends of the National Institute of Nursing Research

2021 Chancellor's Distinguished Public Service Award - University of Pittsburgh

Scientific findings over July 1, 2019-December 31, 2020 (bullet points)

- Chemotherapy symptom severity trajectories between Black and White women with breast cancer differs at chemotherapy baseline (prior to chemotherapy), midline and the end of treatment.
- Interpersonal support and economic hardship is significantly correlated to anxiety during COVID -19 among black patients with early stage breast cancer.
- Neighborhood deprivation index is significantly correlated to anxiety during COVID -19 among White patients with early-stage breast cancer.

Lindsay Sabik

Funded Research

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| Effects of Insurance Expansions on Cancer Treatment: Recent Policy Changes and Implications for Future Reform R01HS027396 | PI | Agency for Healthcare Research and Quality |
| Addressing Urban Rural Disparities in Cancer: The Case for Registry Expansion R01CA229551 | Co-I | NCI |
| Delivering High-Quality HIV Care in the South: System-Level Policy Alternatives R01MD011277 | Co-I | National Institute of Minority Health and Health Disparities |
| Access to Care by Low Income Senior Medicare Beneficiaries: Direct and Indirect Effects of Medicaid Policy on Enrollment, Healthcare Utilization, Spending and Health R01HS025422 | Co-I | Agency for Healthcare Research and Quality |
| The Role of Health Centers in Reducing Disparities in Potentially-Preventable Hospital-Based Care Among Dual Eligibles R01MD011513 | Co-I | National Institute on Minority Health and Health Disparities |

Publications

Lin L, Soni A, Sabik LM, Drake C. “Early- and Late-Stage Cancer Diagnosis Under Three Years of Medicaid Expansion.” American Journal of Preventive Medicine (In press)

Wallace DJ, Donohue JM, Angus DC, Sabik LM, Davis B, Yabes J, Kahn JM. “Association Between State Medicaid Expansion and Emergency Access to Acute Care Hospitals in the United States.” JAMA Network Open (In press)

Spada N, Geramita EM, Zamanian M, van Londen GJ, Sabik LM. “Changes in disparities in stage of breast cancer diagnosis in Pennsylvania after the Affordable Care Act.” Journal of Women’s Health. Sep 2020; doi: 10.1089/jwh.2020.8478. [Epub ahead of print]

McInerney M, Mellor JM, Sabik LM. “Welcome Mats and On-Ramps for Older Adults: The Impact of the Affordable Care Act’s Medicaid Expansions on Dual Enrollment in Medicare and Medicaid.” Journal of Policy Analysis and Management. Sep 2020 doi: 10.1002/pam.22259. [Epub ahead of print]

Roberts ET, Glynn A, Donohue JM, Sabik LM. “The relationship between take-up of prescription drug subsidies and Medicaid among low-income Medicare beneficiaries.” Journal of General Internal Medicine. Sep 2020; doi: 10.1007/s11606-020-06241-y. [Epub ahead of print]

Shah AA, Kumar P, Ogunmola AG, Ayyash O, Yabes JG, Sabik LM, Odisho AY, Bandari J, Macleod LC, Davies BJ, Jacobs BL. “Statewide Price Variation for Generic Benign Prostatic Hyperplasia Medications.” Urology. Sep 2020; doi: 10.1016/j.urology.2020.08.054. [Epub ahead of print]

Shafer PR, Dusetzina SB, Sabik LM, Platts-Mills TF, Stearns SC, Trogon JG. “Insurance instability and changes in emergency department and office-based care after gaining coverage: an observational cohort study.” PLoS ONE. Sep 2020; 15(9): e0238100. doi: 10.1371/journal.pone.0238100

Eom KY, Jarlenski MP, Schoen RE, Robertson L, Sabik LM. “Sex Differences in the Impact of Affordable Care Act Medicaid Expansion on Colorectal Cancer Screening.” Preventive Medicine Sep 2020; 138:106171.

Grajales V, Bandari J, Hale NE, Yabes JG, Turner RM, Fam MM, Sabik LM, Gingrich JR, Davies BJ, Jacobs BL. "Associations Between Female Sex and Treatment Patterns and Outcomes for Muscle-invasive Bladder Cancer." *Urology*. Jul 2020; doi: 10.1016/j.urology.2020.06.058. [Epub ahead of print]

Baddour K, Kudrick LD, Neopaney A, Sabik LM, Peddada SD, Nilsen ML, Johnson JT, Ferris RL, Mady LJ. "Potential Impact of the COVID-19 Pandemic on Financial Toxicity in Cancer Survivors." *Head & Neck*. Jun 2020; 42(6):1332-1338.

Bono RS, Dahman B, Sabik LM, Yerkes LE, Deng Y, Belgrave FZ, Nixon DE, Rhodes AG, Kimmel AD. "HIV-Experienced Clinician Workforce Capacity: Urban-Rural Disparities in the US South." *Clinical Infectious Diseases*. Mar 2020; doi: 10.1093/cid/ciaa300. [Epub ahead of print]

Sabik LM, Eom K, Dahman B, Li J, Yao N, van Londen GJ, Bradley CJ. "The Impact of Massachusetts Health Reform on Colorectal and Breast Cancer Stage at Diagnosis." *Medical Care*. Feb 2020; 58(2):183-191.

Sabik LM, Vichare A, Dahman B, Bradley CJ. "Co-Payment Policies and Use of Breast and Cervical Cancer Screening Among Medicaid Enrollees." *American Journal of Managed Care*. Feb 2020; 26(2):69-74.

Sabik LM, Dahman B, Vichare A, Bradley CJ. "Breast and Cervical Cancer Screening among Medicaid Beneficiaries: The Role of Physician Payment and Managed Care." *Medical Care Research and Review*. Feb 2020; 77(1):34-45.

Maganty A, Sabik LM, Sun Z, Eom KY, Li J, Davies BJ, Jacobs BL. "Under Treatment of Prostate Cancer in Rural Locations." *Journal of Urology*. Jan 2020; 203(1):108-114.

Hale NE, Macleod LC, Yabes JG, Turner RR, Fam MM, Gingrich JR, Skolarus TA, Borza T, Sabik LM, Davies BJ, Jacobs BL. "Implications of Cystectomy Travel Distance for Hospital Readmission and Survival." *Clinical Genitourinary Cancer*. Dec 2019; 17(6):e1171-e1180.

Roberts ET, Mellor JM, McInerney M, Sabik LM. "State Variation in the Characteristics of Medicare-Medicaid Dual Enrollees: Implications for Risk Adjustment." *Health Services Research*. Dec 2019; 54(6): 1233-1245.

Bradley CJ, Sabik LM. "Medicaid Expansions and Labor Supply among Low-income Childless Adults: Evidence from 2000-2013." *International Journal of Health Economics and Management*. Dec 2019; 19(3-4):235-272.

Moyo P, Gellad WF, Sabik LM, Cochran GT, Cole ES, Gordon AJ, Kelley DK, Donohue J. "Opioid Prescribing Safety Measures in Medicaid Enrollees with and without Cancer." *American Journal of Preventive Medicine*. Oct 2019; 57(4):540-544.

Mady L, Lyu L, Owoc MS, Peddada SD, Thomas TH, Sabik LM, Johnson JT, Nilsen ML. "Understanding Financial Toxicity in Head and Neck Cancer Survivors." *Oral Oncology*. Aug 2019; 95:187-193.

Susan Sereika

Funded Research

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|--|------|-----------|
| Influence of Exercise on Neurocognitive Function in Breast Cancer R01-CA196762 | Co-I | NCI |
| The Symptom Experience Management and Outcomes According to Race and Social Determinants of Health (SEMOARS) During Breast Cancer Chemotherapy R01-MD012245 | Co-I | NIH |
| The Symptoms, Experience, Management and Outcomes According to Race | Co-I | Genentech |

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| Genomic Underpinnings for Breast Cancer Treatment Induced Nausea and Vomiting R01-NR016695 | Co-I | NINR |
| Epigenomics of Neurocognitive Function in Breast Cancer R01-CA221882 | Co-I | NCI |
| Sensor-Based Assessment: Chemotherapy-Induced Peripheral Neuropathy-Related Balance/Gait Impairments | Co-I | Oncology Nursing Society |

Publications

Nugent BD, McCall MK, Connolly M, Mazanec SR, Sereika SM, Bender CM, Rosenzweig MQ. Protocol for Symptom Experience, Management, Outcomes, and Adherence in Women Receiving Breast Cancer Chemotherapy. *Nurs Res.* 2020 Sep/Oct;69(5):404-411. doi: 10.1097/NNR.0000000000000450. PMID: 32520763; PMCID: PMC7483966.

Li H, Marsland AL, Conley YP, Sereika SM, Bender CM. Genes Involved in the HPA Axis and the Symptom Cluster of Fatigue, Depressive Symptoms, and Anxiety in Women With Breast Cancer During 18 Months of Adjuvant Therapy. *Biol Res Nurs.* 2020 Apr;22(2):277-286. doi: 10.1177/1099800419899727. Epub 2020 Jan 7. PMID: 31908177; PMCID: PMC7273805.

Belcher SM, Donovan HS, Bovbjerg DH, Sherwood PR, Campbell GB, Sereika SM. Psychobehavioral risk factors for financial hardship and poor functional outcomes in survivors of multiple primary cancers. *Psychooncology.* 2020 Mar;29(3):507-516. doi: 10.1002/pon.5293. Epub 2019 Nov 25. PMID: 31733024.

Li H, Sereika SM, Marsland AL, Conley YP, Bender CM. Symptom Clusters in Women With Breast Cancer During the First 18 Months of Adjuvant Therapy. *J Pain Symptom Manage.* 2020 Feb;59(2):233-241. doi:10.1016/j.jpainsymman.2019.10.002. Epub 2019 Oct 11. PMID: 31610271.

Li H, Sereika SM, Marsland AL, Conley YP, Bender CM. Impact of chemotherapy on symptoms and symptom clusters in postmenopausal women with breast cancer prior to aromatase inhibitor therapy. *J Clin Nurs.* 2019 Dec;28(23-24):4560-4571. doi: 10.1111/jocn.15047. Epub 2019 Sep 15. PMID: 31469461.

Paula Sherwood

Funded Research

| | | |
|--|-----------------|---------|
| National Rehabilitation Research and Training Center on Family Support - (ORTGE0002) | Co-investigator | NIDILRR |
| Sex steroids and IGF1 in the CNS following aSAH and their relationship to outcomes | Consultant | NINR |

Publications

Belcher SM, Donovan HS, **Sherwood PS**, Bovbjerg DH, Campbell GB, & Sereika SM (2020). Psychobehavioral risks factors for financial hardship and poor functional outcomes in survivors of multiple primary cancers. *Psycho-Oncology*, 29 (3), 507-516. doi:10.1002/pon.5293

Heinsberg LW, Bender CM, Rohay JM, **Sherwood PR**, Crago EA. Psychometric Properties of the Patient Assessment of Own Functioning Inventory Following Aneurysmal Subarachnoid Hemorrhage. *Journal of Nursing Measurement.* 2020;28(2):205-228. doi:10.1891/JNM-D-18-00117

Heinsberg LW, Arockiaraj AI, Crago EA, Ren D, Shaffer JR, **Sherwood PR**, Sereika SM, Weeks DE, Conley YP. (2020). Genetic variability and trajectories of DNA methylation may support a role for HAMP in patient outcomes after aneurysmal subarachnoid hemorrhage. *Neurocritical Care.* 32(2):550-563.

Thomas, T., Campbell, G. B., Lee, Y. J., Roberge, M., Kent, E. E., Steel, J. L., Posluszny, D. M., Arida, J. A., Belcher, S. M., **Sherwood, P. R.**, Donovan, H. (2020). Priorities to improve cancer caregiving: Report of a caregiver stakeholder workshop. *Journal of Supportive Care in Cancer*. PMID: 32918611

Teresa Hagan Thomas

Funded Research

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| Efficacy of a self-advocacy serious game intervention for women with advanced cancer (R01 Clinical Trial) | PI | NINR: Score: 1.0 JIT requested |
| Mentored Research Scholar Grant MRSB-18-051-01-PCSM: Strong Together: Piloting a Serious Game to Improve Self-Advocacy | PI | American Cancer Society |
| Strong Together: Piloting a Serious Game to Improve Self-Advocacy | PI | National Palliative Care Research Grant (same study as American Cancer Society and CRE grants) |
| Promoting Patient Self-Advocacy and Nurse Empowerment in the Clinical Encounter | PI | Sigma Theta Tau International & Hospice and Palliative Nurses Association |
| Piloting a Serious Game to Improve Self-Advocacy among Women with Advanced Cancer | PI | Center for Research Evaluation (CRE), University of Pittsburgh School of Nursing (same study at National Palliative Care and American Cancer Society grants) |
| Defining How Men with Cancer Advocate for their Needs: A Mixed Methods Exploratory Study | PI | University of Pittsburgh Central Research Development Fund Internal Funding |
| Family CARE Center | Co-I | Clovis Oncology |

Publications

Lynch, M. P., Kagan, S. H., **Thomas, T. H.**, & Fennimore, L. (In press) Age-friendly cancer care: A survey on readiness. *Oncology Nursing Forum*.

Lee, Y. J., Jang, H., Campbell, G., Carenini, G., **Thomas, T. H.**, & Donovan, H. (In press). Identifying language features associated with needs of ovarian cancer patients and caregivers using social media. *Cancer Nursing*. PMID: 33577203

Thomas, T. H., Althouse, A., Sigler, L., Arnold, R., Chu, E., White, D. B., **Rosenzweig, M.**, Smith, K., Smith, T. J., & Schenker, Y. (In press). Stronger therapeutic alliance is associated with better quality of life among patients with advanced cancer. *Psycho-Oncology*. PMID: 33547717

Thomas, T., Campbell, G. B., Lee, Y. J., Roberge, M., Kent, E. E., Steel, J. L., Posluszny, D. M., Arida, J. A., Belcher, S. M., Sherwood, P. R., Donovan, H. (2020). Priorities to improve cancer caregiving: Report of a caregiver stakeholder workshop. *Journal of Supportive Care in Cancer*. PMID: 32918611

Thomas, T. H., Donovan, H., Rosenzweig, M., Bender, C., & Schenker, Y. (2021). A conceptual framework of self-advocacy in women with cancer. *Advances in Nursing Science*, 44(1), E1-E13. PMID: 33181568

Thomas, T. H., Sivakumar, V., Babichenko, D., Grieve, V. L. B., & Klem, M. L. (2020). Mapping behavioral health serious game interventions for adults with chronic illness: Scoping review. *Journal of Medical and Internet Research Serious Games*, 8(3), e18687. PMID: 32729836

Awards received

Top abstract at the National Institute of Nursing Research, National Cancer Institute, and Oncology Nursing Society Symptom Science Advances in Oncology Nursing,

Presentations at national and international conferences

Thomas, T. H., Bender, C., Rosenzweig, M., Donovan, H. S., You, K. L., Bergeron, R., Sivakumar, V., & Schenker, Y. (2021). Self-advocacy behaviors and needs in women with advanced cancer: Assessment and differences by social determinants of health [Abstract]. *Oncology Nursing Forum*.

You, K., L., Schenker, Y., Bender, C., McKinley, N., Rosenzweig, M. & **Thomas, T. H.** (2021). Describing cancer survivors' engagement in a serious game intervention: Who engages and why it matters [Abstract]. *Oncology Nursing Forum*.

Thomas, T. H., Bender, C., Rosenzweig, M., Donovan, H. S., & Schenker, Y. (2021). The feasibility and preliminary efficacy of a self-advocacy serious game intervention for women with advanced breast or gynecologic cancer: A pilot randomized clinical trial [Abstract]. Oral presentation presented in the 46th Annual Oncology Nursing Society Congress, held by Oncology Nursing Society. *Oncology Nursing Forum*.

You, K.L., Schenker, Y., Bender, C., McKinley, Rosenzweig, M., Donovan, H., & **Thomas, T. H.** (2021, April). A comparison of the experiences of cancer survivors who are healthcare professionals with non-healthcare professionals: How are healthcare providers' needs different? Oral presentation presented in the 46th Annual Oncology Nursing Society Congress. *Oncology Nursing Forum*.

Thomas, T. H., Donovan, H. S., Bender, C., Rosenzweig, M., & Schenker, Y. (2020, February). *Patient self-advocacy: A framework for defining patient ability to engage in patient-centered cancer care*. Podium presentation at Carol Carfang Nursing & Healthcare Ethics Conference, Clearwater, FL.

Thomas, T. H., Donovan, H. S., Bender, C., McLaughlin, M., & Schenker, Y. (2020, June). *Testing a narrative serious game to improve cancer patient self-advocacy*. Podium presentation at Serious Play Conference, Orlando, FL.

Sigler LE, Althouse AD, **Thomas T**, Arnold RM, Smith TJ, Chu E, Bakitas MA, Schenker Y. (2021, February). *The effects of an oncology nurse-led, primary palliative care intervention on illness understanding among patients with advanced cancer: A secondary analysis of the CONNECT randomized clinical trial*. Poster presented at 2021 Annual Assembly of Hospice and Palliative Medicine

Scientific findings

- Pilot feasibility data from self-advocacy serious game. The main highlight is that the 3-month self-advocacy serious game intervention ("Strong Together") was perceived as feasible and acceptable by women newly diagnosed with advanced breast or gynecologic cancer. We are currently finalizing our dataset and will publish quantitative and qualitative data in 2021. We also found that the intervention led to a small increase in self-advocacy in participants.

Susan Wesmiller

Funded Research

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| Genetic Underpinnings of Treatment Induced Nausea and Vomiting in Breast Cancer NRO196556 | PI | NIH - National Institute of Nursing Research |
| Administrative supplement for the above grant, to add new variables and another year of data collection to investigate the effect of COVID-19 on the symptom trajectory experienced by women with breast cancer in the first two years following surgery. | PI | NIH – NINR, supplement |

Publications

*Alsbrook, K., Dunwoody, C., Harpel, C., Hayden, A., Scott, P., & **Wesmiller, S.** (2021). Older Women and Opioid Analgesia Following Breast Cancer Surgery. *Pain Management Nursing*, Accepted for Publication, 12/14/2020.

Skrovanek E, Dunbar-Jacob J, Dunwoody C, **Wesmiller S.** Integrative Review of Reproductive Decision Making of Women Who Are BRCA Positive. *J Obstet Gynecol Neonatal Nurs*. 2020;. doi:10.1016/j.jogn.2020.07.006, 10.1016/j.jogn.2020.07.006

Wang JS, Conley YP, Sereika SM, Bender CM, Godbole P, **Wesmiller SW.** Examining the effect of 5-HTTLPR on depressive symptoms in postmenopausal women 1 year after initial breast cancer treatment. *Support Care Cancer*. 2019;27(2):513-519. doi:10.1007/s00520-018-4332-9, 10.1007/s00520-018-4332-9

*Wagner, M., **Wesmiller, S.**, Maydick, M., Gawron, L., Peterson-Burch, F. & Conley, Y. (2020). Symptom Science: Omics and Response to Non-Pharmacological Interventions. *Biological Research Nursing*, Online ahead of print.

Von Ah, D., Brown, C., Brown, S., Bryan, A., Davies, M., Dodd, M, Ferrell, B., Hammer, M., Knobf, M., Knoop, T., Lo-Biondo-Wood, G., Mayer, D., Miaskowski, C., Mitchell, S., Song, L., Watkins, D., **Wesmiller, S.** & Cooley, M. (2019). Research Agenda for the Oncology Nursing Society: 2019-2022. *Oncology Nursing Forum*,46(6), 654-669.

Awards Received

November 2020 Elected President-Elect to the International Society of Nurses in Genetics (ISONG)

June 2020 Deans Distinguished Teaching Award

University of Pittsburgh School of Nursing

November 2019 International Society of Nurses in Genetics President's Award

International Presentations

Miaskowski, C., **Wesmiller, S.**, Davies, M., & Hammer, M. (2020). **Panel presentation** titled: "What's Next? Advancing Oncology Symptom Science Research." The Bridge: Oncology Nursing Society Annual Conference. Originally scheduled for San Antonio Texas, held virtually due to pandemic.

Wesmiller, S. Sereika, S., Bender, C., Skrovanek, E. & Conley, Y. (2019). The Association of Polymorphisms Identified as Common Data Elements with Symptoms Experienced by Women with Breast Cancer. 2019 annual meeting of the *International Society for Nurses in Genetics*, San Antonio, Texas.

Primary faculty for Medical and Nursing Care in the Genomic Era. Genomics Course for the Master's Program in Nursing at University of Basel. March – July, 2020.

Scientific findings (genetic analysis for R01 will begin this summer)

- Confirmation of polymorphisms as common data elements associated with symptoms measured using PROMIS measures. (paper under development)
- A changing paradigm of age of women scheduled for mastectomies.
- Observation of increased radiation induced nausea and vomiting in women treated for breast cancer (paper under development).

PhD Students

Karen Alsbrook

Funding

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| Bessie Li Sze Memorial Scholarship | PI | University of Pittsburgh School of Nursing |
| Bill and Ruth Fincke PhD Student Research Award | PI | |

Rachel Heckman

Funding

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| Swigart/Gold Doctoral Award for Scholarship in Nursing Ethics | Primary Investigator | University of Pittsburgh School of Nursing |
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Publications

Heckmann, R. (2020) Understanding the Influence and Implications regarding High Quality Palliative and End of Life Care. Guest Speaker for the Saint Xavier University Concepts of Nursing Class: Chicago, IL.

Maura McCall

Funding

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| A Multi-omics Approach to Examine Symptoms and Medication Adherence in Women with Breast Cancer (F99CA253771) | PI: McCall Sponsors (Bender, Conley) | NCI |
| Trajectories and Predictors of Aromatase Inhibitor Adherence and Symptoms DSCN-19-049-01-SCN | Scholarship Awardee | American Cancer Society |

Trajectories and Predictors of Aromatase Inhibitor Adherence and Symptoms (no number)
Targeted Research and Academic Training Program for Nurses in Genomics
T32NR009759

Nurse Scholar
Awardee
Trainee

Rockefeller University Heibrunn
Family Center for Research
Nursing
NINR

Publications

McCall, M. K., Ibikunle, S., Murphy, Y., Hunter, K., & Rosenzweig, M. Q. (in press). Knowledge and Attitudes about Genetic Testing among Black and White Women with Breast Cancer. *J Racial Ethn Health Disparities*.

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> NIHMSID 1596997.

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 PMC7245588.

Elizabeth Skrovanek

Funding

Jonas Foundation Doctoral Scholar

Publications

Skrovanek E, Dunbar-Jacob J, Dunwoody C, Wesmiller S. Integrative Review of Reproductive Decision Making of Women Who Are BRCA Positive. *J Obstet Gynecol Neonatal Nurs*. 2020; doi:10.1016/j.jogn.2020.07.006, 10.1016/j.jogn.2020.07.006

Objectives for the next fiscal year

1. Establish a Cancer Survivorship Special Interest Group comprised of faculty and students from all programs in the School of Nursing. At an initial meeting of this group, topics/experiences of interest identified by students include:
 - Roles for nurses in oncology nursing
 - Shadowing experiences
 - Integration of intensive care and oncology nursing care
 - Translation of research findings into practice
 - Monitoring mental health in cancer survivors
 - Integration of social determinants of health in cancer survivorship care
 - Genomics in cancer survivorship research.
2. Stimulate new multidisciplinary collaborations by conducting jointly sponsored presentations with the Biobehavioral Cancer Control Program of the UPMC Hillman Cancer Center
3. Foster research and training collaborations among the SON HUBS

5. Nursing Health Services and Policy Research HUB

Grant R. Martsof, PhD, MPH, RN, FAAN, Director

Professor, UPMC Health Systems Chair in Nursing Science

Health services and policy research (HSPR) is a multidisciplinary field that studies 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.

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 University of Pittsburgh 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.

1. Increase awareness and interest in HSPR across Pitt Nursing.
2. Provide mentorship to new and emerging nursing HSPR researchers through use of ongoing and newly funded research studies.
3. Enhance HSPR infrastructure at Pitt Nursing.
4. Increase collaborations among HUB investigators and the broader Pitt HSPR community.
5. 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:

1. Bi-weekly research colloquium. Current schedule and confirmed speakers can be found [here](#). Please email Grant Martsof if you are interested in presenting at the colloquium. [Past recorded presentations are available here](#).
2. 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.
3. Develop infrastructure to oversee and coordinate long term planning of HSPR in Pitt Nursing and administration of the HUB

6. Maternal/Perinatal and Reproductive Health Research

HUB funded as of July 1, 2021

Jill Demirci, PhD, RN, IBCLC, Director

PURPOSE AND MISSION

The primary, long-term goal of the Hub is to establish Pitt SON as a national and global leader in maternal/perinatal and reproductive health nursing research. Secondary goals in support of the Hub's primary mission include the following:

1. Accelerate the pace of research, in terms of funded grants and published manuscripts, in maternal/perinatal and reproductive health research at the SON.
2. Enhance the impact, reproducibility, and innovation of maternal/perinatal and reproductive health research at the SON.
3. Increase the visibility, translation, implementation, and utility of maternal/perinatal and reproductive health research at the SON.

Activities that will support these goals broadly include the following: building research synergy and collaborations within the SON, with investigators and programs across the University of Pittsburgh, and with other institutions, communities, and individuals with expertise in the content area; developing a pipeline for recruitment and plan for retention of top-talent faculty and students with research expertise or interest in maternal/perinatal or reproductive health, prioritizing those from diverse backgrounds; supporting the development of preliminary research and grant applications for large external funding (e.g., NIH R01s) in the content area; and fostering the creation of new research resources and refinement of existing resources within the SON available to maternal/perinatal and reproductive health researchers

ADMINISTRATIVE CORE

The Administrative Core will be responsible for assisting the Director of the Hub in allocating Hub resources, reviewing and selecting pilot research proposals for Hub funding, planning Hub activities, and strategic planning for Hub goals and changes to the structure or research cores contained within the Hub. Once established, the Administrative Core will meet quarterly, with minutes recorded. Administrative Core members will consist of the Director, Co-Director, Research Core Chairs, PIs of the pilot projects, a Business Official (proposed to be Debbie Evansky, SON Grants Manager), and an administrative member, currently proposed to be Melissa Glasser, PhD, a Research Project Coordinator in the HPD. The administrative member will report and work directly with the HUB Director and coordinate and promote the activities of the HUB and research cores, track and record data relevant to the evaluation plan, and coordinate communication amongst Hub investigators. In the inaugural year of the Hub, the proposed Administrative Hub Director is **Jill Demirci**, PhD, RN, IBCLC, an Assistant Professor in the Department of Health Promotion & Development. Proposed Co-Director is **Denise Charron-Prochownik, PhD, RN, CPNP, FAAN**, a Professor and the Department Chair of Health Promotion & Development. Potential Research Core Chairs are listed below and will be finalized within the first two months of the HUB, along with the PIs of the pilot research projects.

RESEARCH CORES

A major goal of the Hub will be the development of three research cores: 1) Community and Global Maternal Health; 2) Clinical Partnerships in Perinatal and Reproductive Health; and 3) Biologic and Molecular Origins of Maternal Health. The purpose of the research cores is to facilitate collaborations, utilization of core resources, and increase dissemination among researchers with similar content area expertise and those who desire to incorporate a component of the core into their own research programs. In Year 1 of the Hub, considerable effort will be expended on finalizing the structure, personnel, purpose, and objectives of each research core. We anticipate that each core will be led by an individual Core Chair from the SON with associated internal and external faculty, other external members with expertise in the content area, and students. External faculty members will have had external research funding in the area of maternal/perinatal or reproductive health research and will have been supportive of SON research (for example, they have served on PhD dissertation committees). We envision that each research core will facilitate its own activities, services, and opportunities, and eventually seek out funding to maintain and grow its functions. Below we provide a preliminary vision for each research core, along with key personnel, activities, and associated projects:

Global and Community Maternal Health

This research core will include a focus on reducing maternal mortality, and relatedly, addressing social determinants of health and health equity both locally and globally. These focal areas are in line with the Future of Nursing 2030 report's Priority Research Topics, as well as NINR's recently published Training/Career Development Award Priority areas for 2021. We envision having external representation in this core from community members, prioritizing research that is high priority in affected communities and incorporating a CBPAR approach, and growing the SON representation and activities in the University of Pittsburgh's Community Engagement Centers, as well as on a global scale.

- **Key personnel** for this core will include a Core Chair from the SON faculty, associated internal faculty, external University of Pittsburgh faculty, external community leaders, and students (URMP, Honors, PhD, and DNP). Potential internal faculty with active research funding who could chair or co-chair this research hub include **Jill Demirci**, PhD, RN, IBCLC, **Denise Charron-Prochownik** PhD, RN, CPNP, FAAN, **Betty Braxter** PhD, CNM, and **Rick Henker**, PhD, RN, CRNA, FAAN. Internal associated faculty include **Willa Doswell**, PhD, RN, FAAN, **Claudia Kregg-Byers** PhD, MPH, RN, **Andrea Fischl**, PhD, MPH, BS, CRNP, RN, **Nancy Niemczyk** PhD, CNM, ACNM, and **Brenda Cassidy**, DNP, RN, MSN, CPNP-PC. Potential external University of Pittsburgh faculty for this research core are **Dara Mendez** PhD, MPH, Assistant Professor, Epidemiology, **Diego G. Chaves-Gnecco**, MD, MPH, FAAP Associate Professor of Pediatrics, Program Director and Founder, Salud Para Niños, UPMC Children's Hospital of Pittsburgh, and **Patricia I Documet**, MD, DrPH, Associate Professor and Director of the Doctoral Program, Behavioral and Community Health Sciences and Director of Latinx Research and Outreach, Center for Health Equity. External community members may include those SON faculty have existing relationships with through the Black Mamas Matter Alliance, the Pittsburgh Black Breastfeeding Circle, Healthy Start, and Allegheny County Health Department.
- **Key activities** for this core include synergy meetings to advance collaborative research proposals and papers, speakers series, and establishing infrastructure and connections for increased research involvement of SON faculty and students in community/global facilities involved in the care of childbearing people.
- **Associated projects** for this core for SON faculty include:
 - *A Pilot Exploring Self-Advocacy as a Health Inequity Factor in Maternal Mortality/Morbidity in Pregnant Black Women* (PI: Braxter, Co-Is: Thomas, Doswell; Funding: Pitt Momentum Seed Fund)
 - *Supporting AI/AN Mothers and Daughters in Reducing Gestational Diabetes Risk* (PI: Charron-Prochownik; Funding: NINR, NCE)
 - *Empowering Diverse Indigenous Communities to Reduce the Risk of Gestational Diabetes Mellitus among Adolescents using a Family-Based Ancestral Knowledge Approach Promoting Holistic Health* (PI: Charron-Prochownik; Submitted R01 to NIMHD)
 - *The Impact of Telelactation Services on Breastfeeding Outcomes among Minority Mothers: Siteless Tele-MILC Trial* (Co-I: Demirci, Funding: NINR)
 - Dr. Rick Henker's multiple ongoing education and QI projects in Laos with focus on maternal and neonatal health, including Maternal Child data in the WHO DHIS2 data set

Clinical Partnerships in Perinatal and Reproductive Health

This research core will focus on enhancing collaborations in clinically-based research in maternal/perinatal and reproductive health at the SON. This includes research conducted both in the hospital-setting and outpatient clinical facilities, including those affiliated with Magee-Womens Hospital of UPMC (MWH). Such collaborations may involve partnering with faculty and sharing resources within the CTSI NuRSERy program, which provides assistance in the conduct of clinical research in the newborn nursery at MWH, the newly-established Pregnancy Recovery Center at MWH, and the Magee CTSC. Another major long-term goal will be to develop mutually-beneficial research partnerships between nurses practicing clinically at MWH and nurse researchers at the SON.

- **Key personnel** for this core will include a Core Chair from the SON faculty, associated internal faculty, external University of Pittsburgh faculty, nurse leaders at clinical sites, and students (URMP, Honors, PhD, and DNP). Proposed chair of this core is **Jill Demirci**, PhD, RN, IBCLC. Associated internal faculty include **Betty Braxter** PhD, CNM, **Nancy Niemczyk** PhD, CNM, ACNM, **Sandy Founds**, PhD, FNP, CNM, **Cynthia Chew**, DNP, CPNP-PC, IBCLC, **Gerri Maurer** DNP, CRNP, FNP-C, RNC-OB, MPM, and **Marianne Allen**, DrNP, RNC-OB, CNS, CBC. External faculty may include **Elizabeth Krans**, MD, MSC, Assistant Professor, Department of Obstetrics, Gynecology & Reproductive Sciences, **Judy Chang**, MD, MPH, Associate Professor, Department of Obstetrics, Gynecology &

Reproductive Sciences, and Internal Medicine, **Maisha Feghali**, MD, Assistant Professor, Department of Obstetrics, Gynecology & Reproductive Sciences, and **Arun Jeybalan** MD, Associate Professor, Department of Obstetrics, Gynecology & Reproductive Sciences Director, Division of Maternal-Fetal Medicine.

- **Key activities** of this core will include synergy meetings to advance collaborative research proposals and papers, establishment of clinical nurse/research nurse research partnership infrastructure at MWH, and speaker series.
- **Associated projects** for this core for SON faculty include:
 - *Effect of Antenatal Milk Expression on Breastfeeding Outcomes Among Overweight and Obese Women* (PI: Demirci; Funding: NICHD)
 - *Evaluation of Consensus Guidelines for Safe Prevention of the Primary Cesarean Delivery in Birth Centers* (PI: Niemczyk; Funding: AABC)
 - *Group-based Trajectory Analysis of the First Stage of Labor* (PI: Niemczyk; Funding: HRSA)

Biologic and Molecular Origins of Maternal Health

This research core will capitalize on the research being conducted at the SON on biological, genetic, and molecular underpinnings of perinatal health problems and phenotypes. It will use the existing SON biobank resources which enable storage, processing, and analysis of biological specimens. This core will also grow its existing collaborative relationships with related Pitt/UPMC and community resources to enhance SON research in this area, including the Magee-Women's Research Institute and MOMI database, the Health Sciences Metabolomics and Lipidomics Core, and the Human Milk Science Institute and Biobank.

- **Key personnel** for this core will include a Core Chair from the SON faculty, associated internal faculty, external University of Pittsburgh faculty, and students (URMP, Honors, PhD, and DNP). Proposed chair of this core is **Mandy Schmella**, PhD, RN. Associated internal faculty include **Sandy Founds**, PhD, FNP, CNM, **Nancy Niemczyk** PhD, CNM, ACNM, **Jill Demirci**, PhD, RN, IBCLC, and **Yvette Conley** PhD, FAAN. Proposed external faculty will include **Janet Catov**, PhD, MS, Associate Professor, Department of Obstetrics, Gynecology & Reproductive Sciences and the Department of Epidemiology, University of Pittsburgh and additional faculty selected by the chair.
- **Key activities** of this core may include speaker series and synergy meetings amongst associated faculty and with other research core chairs to advance papers and funding proposals.
- **Associated projects** for this core for SON faculty include:
 - *DNA Methylation Profiling of Preeclampsia Across Pregnancy* (PI: Schmella; Funding: NICHD)
 - *Longitudinal Epigenomic Study of Gestational Diabetes Mellitus and Cardiac Structure and Function* (Co-I: Schmella; Funding: AHA)
 - *Relating Pregnancy Phenotype with Chromosome Copy Number in Placentation Cells from the Endocervix* (PI: Founds; Funding: NICHD)

EXTERNAL ADVISORY COMMITTEE AND EVALUATION PLAN

An External Advisory Committee will be selected by the Administrative Core during the first 2-4 months of the Hub. This committee will consist of members not part of the Administrative Core or associated Hub faculty. The committee will be responsible for evaluating the overall progress and effectiveness of the Hub and individual research cores, including development and utilization of Hub resources, effectiveness of Administrative Core members in meeting programmatic goals, productivity of Hub investigators, and progress of the pilot studies. Another key function of this committee will be to act in an advocacy and advisory role to continually improve the Hub and move it towards conversion to a self-sustaining Center. The Administrative Core will be responsible for providing a written annual progress report to the External Advisory Committee. After review of the progress report, the Administrative Core will convene a meeting with the External Advisory Committee to discuss progress, suggested improvements, and new short- and long-term goals and activities. These meetings will occur annually with minutes recorded.

Potential individuals to serve on this committee include **Sonya Borrero**, MD, Director, Center for Women's Health Research and Innovation (CWHRI) at the University of Pittsburgh; **Elizabeth Miller**, MD, PhD, FSAHM, Division Director of

Adolescent and Young Adult Medicine, Professor of Pediatrics, Public Health and Clinical and Translational Science, and Co-Director of Community Engagement, Clinical and Translational Science Institute at the University of Pittsburgh and Scientific Director of Children's Community Health Collaborative at UPMC Children's Hospital of Pittsburgh; **Debra Bogen**, MD, Director of the Allegheny County Health Department; **Suzanne Shores**, CNM, FNP, the Division Director of Midwifery in the Department of Obstetrics, Gynecology & Reproductive Sciences at the University of Pittsburgh; the Director of a current NIH/NINR funded P30; and an individual from Pitt CTSI. Note that resources and personnel from Pitt CTSI may also be accessed more frequently by the Administrative Core to build Hub capacity, particularly in the first year. As the Hub matures and approaches submission of NIH funding to establish a Center (estimated within five years), a NIH/NINR extramural program staff who has experience with P30s may be invited to be a member.

Table 1. Measurable Goals, Activities, and Evaluation of Successes for Year 1 of the Hub

| Goals | Activities/Deliverables | Evaluation of Success |
|---|---|---|
| Develop each of the three proposed research cores (Global and Community Maternal Health, Clinical Partnerships in Perinatal and Reproductive Health, and Biologic and Molecular Origins of Maternal Health) | <ul style="list-style-type: none"> Finalize structure, personnel, purpose, and objectives of each Research Core Initiate activities/services of Research Cores | <ul style="list-style-type: none"> Written plan for each Research Core in place, and documented in Administrative Core meeting minutes Activities or services of each Core are being accessed by SON faculty, demonstrating utility of Hub |
| Build upon successes/momentum of existing SON Hubs and increase research collaborations with these Hubs | <ul style="list-style-type: none"> Discuss experiences, successes, and failures with leaders of other Hubs in terms of Hub structure, budget allowances, activities, funding Explore potential for writing/research collaborations with other Hubs and their members | <ul style="list-style-type: none"> Notes in Administrative Core minutes Plans documented or drafts of 1-2 papers or abstracts representing a Hub-to-Hub faculty or student collaboration (e.g., HSPR Hub) |
| Foster awareness of/interest in Hub across University and community | <ul style="list-style-type: none"> Develop a Hub website and web presence, within SON and Pitt guidelines Identify processes and individuals to assist with website development/maintenance Identify organizations where Hub website can be linked for maximum visibility Develop plan for social media advertising of Hub and Hub activities | <ul style="list-style-type: none"> Website/web presence functional Social media plan in place including content, timing of advertising, and monitoring traffic/comments |
| Increase research mentorship provided to students and junior faculty with an interest in maternal/perinatal or reproductive health | <ul style="list-style-type: none"> Continue writing group for PhD and post-docs led by J. Demirci and Mandy S. Develop plan for new writing and research group(s) for different groups as need/interest exists (e.g., DNP partnerships) Develop plan to track progress and successes of those being mentored through these meetings and groups | <ul style="list-style-type: none"> Administrative Core meeting minutes demonstrate attendance at mentoring groups and progress in mentoring collaborations and productivity Produce 2-5 papers or abstracts where junior faculty, post-doc or students are first authors and members of Research Core faculty are senior authors; as evidenced in annual report of Hub progress |

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| Develop a Hub speaker series | <ul style="list-style-type: none"> • In consultation with Research Core Chairs and Hub members, including students, create a running list of desired topics and potential speakers • Develop a plan for infrastructure necessary to support speaker series (web hosting, process for developing and disseminating announcements) • With input from administrative core and external advisory committee, develop rules around fair compensation of speakers as Hub evolves | <ul style="list-style-type: none"> • Documents finalized regarding procedures for inviting speakers and hosting talks • The list of potential speakers yields 5-10 verbal confirmations to speak within the current or following year |
| Fund and execute up to 2 (1-2 year) pilot project(s) | <ul style="list-style-type: none"> • Develop and disseminate a call for internal proposals for pilot data in support of R mechanism funding proposal • Administrative Core evaluates applications, with adjudication by External Advisory Board if needed • Hub resources utilized in fulfillment of project aims | Aims of project met, or on track to be met, as documented through end of year progress report that also includes plans for dissemination and grant submission. |
| Develop plan for funding call for pilot proposals for Year 2 | <ul style="list-style-type: none"> • In consultation with the Administrative Core and External Advisory Board, decide on focus and required components of proposals, target audience for announcements, means to deliver the announcements, and development of announcements (language, advertisements) | Announcements developed and disseminated by month 9 of the inaugural year, as documented in the Administrative Core minutes. |
| Increase the number of individuals available to collaborate and meaningfully contributing to advancing Hub goals/activities | <ul style="list-style-type: none"> • Develop a strategic plan together with the Administrative Core and External Advisory Committee for recruiting/attracting a top-tier and diverse group of students, post-docs, faculty with maternal/perinatal or reproductive health focus • Through funding calls for pilot projects and other communication channels (e.g., website), encourage existing SON faculty to extend the reach of their current program of research to incorporate elements fitting with Hub's goals | <ul style="list-style-type: none"> • Discussions regarding strategic plan included in Administrative Core meeting minutes; draft plan complete by end of Year 1 • 1-2 SON faculty without prior research focus on maternal/perinatal or reproductive health research utilize Hub resources (e.g., pilot funding, writing groups) to extend their current program of research to include these elements |

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| <p>Increase the incorporation of current research in maternal/child and reproductive health within curriculum in SON</p> | <ul style="list-style-type: none"> • Develop objectives and structure for the previously offered Women's Health seminar within the PhD program (and consider offering to PhD, DNP, undergrad/URMP students) • Support Hub members to apply for SON funding for education initiatives based upon their research (e.g., Lucie Young Kelly award) • Identify opportunities for Hub members' research to be integrated into undergraduate or graduate curriculum (e.g., lactation content in undergrad pharmacology course) | <ul style="list-style-type: none"> • Draft/outline syllabus prepared for Women's Health Seminar by end of Year 1 • Discussions documented in Administrative Core meeting minutes or via email to Hub members for research education initiatives • Table prepared of all Hub member's research and cross-walked with objectives of core undergrad and grad courses |
| <p>Increase the national and international recognition of Hub faculty's and students' research</p> | <ul style="list-style-type: none"> • Develop a database of applicable research awards for students, post-docs, and faculty, including timing of submissions • Assist eligible students and faculty in applying for such awards, including drafting support letters • Maintain a file of successful applications for future individuals applying for same award | <ul style="list-style-type: none"> • Database of awards developed and available to Hub members on Hub shared drive • Nominate 1-2 Hub students or faculty for national or international awards |
| <p>Establish a plan for external funding to enhance the activities of the Hub</p> | <ul style="list-style-type: none"> • Collect information on potential funding mechanisms and opportunities for Hub activities, including, ultimately, conversion to a Center (P30) • Develop a plan for submission of funding application(s) including timing and areas that need to be addressed prior to submission | <ul style="list-style-type: none"> • Discussion and evaluation of potential funding avenues will be documented in the Administrative Core minutes. These may include T32s, internal or foundational funding to support specific infrastructure, and other federal funding outside the NIH or NINR. • Plans for submission(s) included in Year 1 Hub progress report to External Advisory Committee |

Appendix A: Publications

FY 20201 School of Nursing Publications

(note: Faculty names are Bold-faced, *students are in Italicized*, and staff is underlined)

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- Akcayir, G., Demmans, E.C., **Mitchell, A.M.**, & Horne, J. (2020). Students' perspective of simulation for psychiatric nurse training. [online] American Educational Research Association (AREA) Online Paper Repository at <https://www.aera.net/publications/online-paper-repository>
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- Albert, S, Venditti, E, Boudreau, R Kieffer, L, Rager, J, Zgibor, J, Vander Bilt, J, Danielson, M, **Burke, L**, Glynn, N, Jakicic, J, Smith, K, Semler, L.; Newman, A. (in press, 2021). Weight Loss through Lifestyle Intervention Improves Mobility in Older Adults" *The Gerontologist*.
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- Alexander, S.** (2020). Targeted Temperature Management. *The Chinese Journal of Emergency and Critical Care Nursing*.
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- Alexander, S.** (2021). ICU nursing priorities in the US. *Critical Care Clinics of North America*.
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- Alsbrook, K.*, Harpel, K., Dunwoody, C., Hayden, A., **Scott, P. & Wesmiller, S.** (2021). Older women and Opioid Analgesia Following Breast Cancer Surgery. *Pain Management Nursing* (ingress).
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- Anzio, N., Saul, L., **Ren, D., Miller, S. & Tuite, P.** (IN PRESS). A pilot project to decrease the 30-day readmission rates in heart failure patients through patient heart-failure self-care education. *MEDSURG Nursing*.
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- Barnes, H., **Martsof, G.**, McHugh, M. D., and Richards, M. R. (2020). Vertical integration and physician practice labor composition. *Medical Care Research and Review*, 1077558720972596.
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- Barnes, H., Richards, M. R., **Martsof, G.**, Nikpay, S., and McHugh, M. (2021). Association between physician practice Medicaid acceptance and employing nurse practitioners and physician assistants: A longitudinal analysis. *Health Care Management Review*. In press.
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- Beach (S), S. R., Schulz, R., **Donovan, H.**, & Rosland, A. M. (2021). Family Caregiving During the COVID-19 Pandemic. *The Gerontologist*, gnab049. Advance online publication. <https://doi.org/10.1093/geront/gnab049>
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- Beach, M.** Acute Care Nurse Practitioner: Case Studies. Chapter 19 Disaster and Nurse Practitioners
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- Belcher SM**, Watkins Bruner D, Hofmeister CC, Kweon J, Meghani SH, Yeager KA. Characterizing Pain Experiences: African American Patients With Multiple Myeloma Taking Around-the-Clock Opioids. *Clin J Oncol Nurs*. 2020 Oct 1;24(5):538-546. doi: 10.1188/20.CJON.538-546. PubMed PMID: 32945786.

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- Boele, F., **Donovan, H.S.**..., and **Sherwood, P.R.** (2021) The effects of SmartCare on neuro-oncology family caregivers' distress: a randomized controlled trial. *Supportive Care in Cancer*; In review
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