

Strategic plan for units reporting to Senior Associate Dean for Medicine and Research

Goal 1:

Oral communication

Taught and assessed through professor rounds, family connection exercise during required family medicine clerkship, and through selected EPA’s in the 4<sup>th</sup> year acting internship.

Metric: # of students who complete the EPA without attaining the designated level of competence.

The following tables show AI results since July 1, 2019 when these began to be required. All students achieved required designated levels of competence in required areas of assessment. Some EPA’s were not required areas of assessment but are analyzed if reported and are also shown here for information.

1. Communicates with healthcare teams, patients and families including patient handoffs.			
Average Score	Minimum   Maximum	Applicable Answers	Scale
4.43	3   5	125	1 to 5
Answer Value	Answer Choices	Answer Count	Percent of All Answers
0	Not Observed or Applicable	2	1.57%
1	Requires Complete Hands-on guidance	0	0.00%
2	Requires Constant Direction	0	0.00%
3	Requires Intermittent Direction	7	5.51%
4	Independent, but Requires Supervision	57	44.88%
5	Completely Independent	61	48.03%

[Time Series](#)
[Freq Dist](#)
[Pie](#)
[Bar](#)
[Horizontal Bar](#)
[All](#)

Tactic: Taught and assessed through patient-centered learning, and team-based learning small groups and patient interviewing

Metrics: # of students with successful assessment evaluations in patient-centered learning and team-based learning and # of students with successful clinical skills assessment scores

This metric has been reconfigured to count failures rather than successes. We have had no failures with unsuccessful remediation. All students have successfully passed oral communication assessment.

Tactic: Students to be offered opportunities for advanced oral communication about research

Metric: # of students presenting poster, platform or workshop presentations at regional, national and international meetings.

We do not have a formal mechanism for tracking this at this time. It is an open question for discussion whether this is worth establishing such a mechanism. However, such opportunities abound. We do have the recorded information below, which likely undercounts such activity. In addition, all students are offered the opportunity to present at the Frank Low research day and at the student-organized Service Learning Symposium annually.

	Invited Platform	Posters	Workshop	Total
National / International Meetings	2	11		13
Regional / Institutional Meetings	1	29		30

Goal 2:

Student support

Tactics: Learning specialist, NBME question use in preclinical exams, gateway exam, moving USMLE Step 1 into the clinical phase

Tactics: Reassessment and renewal of the curriculum by the faculty

Metric: Block failure and reexamination rates

AY 2018-2019

Block 1: 4 block failures and 14 re-examinations

Block 2: 5 block failures and 9 re-examinations

Block 3: 2 block failures and 8 re-examinations

Block 4: 0 block failures and 10 re-examinations

Block 5: 1 block failure and 7 re-examinations

Block 6: 2 block failures and 10 re-examinations

Block 7: 1 block failure and 3 re-examinations

Block 8: 1 block failure and 2 re-examinations

-nine students successfully remediated a failed block in the summer

Metric: # of students / year who are dismissed after failing first two blocks

AY 2018-2019: 2 students dismissed after failing two blocks in year 1.

Metric: Student failure to progress through the preclinical phase without interruption

AY 2018-2019: 3 student leaves of absence (health)

Metric: USMLE Step 1 failures

AY 2018-2019: 2

Metric: Mean USMLE Step 1 scores

AY 2018-2019: 232

Metric: Number of students in each quartile of the USMLE Step 1 (assuming a normal distribution)

AY 2018-2019

1. <218=23
2. 219-231=12
3. 232-244=11
4. >244=28

Tactics: Mid clerkship rotation feedback on all campuses for all required rotations

Metric: % of students receiving mid clerkship feedback

We have changed this metric to report the number of students NOT receiving mid clerkship feedback on required rotations. See below. While this is a substantial improvement over the previous year, there is still room for improvement.

Rotation	Mid Clerkship Feedback not received
1	Neuro Far 2
2	Psych Far 1, MILE psych 3, MILE neuro 1, Surg Fargo 1
3	MILE FM 1, MILE psych 1, MILE IM 1, MILE Neuro 1

4	ROME FM 1, MILE psych 1, MILE IM 1
5	Psych Far 1
6	MILE neuro 1
2018-2019	17
2017-2018	12
2016-2017	13

Tactics: Develop professionalism standards for clinical clerkships that will make boundaries for expected behavior clear to students.

Metric: Adoption of professionalism standards.

A professionalism objective and procedure was adopted for all clerkships. Each department is currently determining how they will account for it in the clerkship grade.

Tactic: Adoption of a plan and timeline for curriculum revision by FAC.

Metric: Subsequently following this timeline.

The timeline for implementation of a revised curriculum is execution of a transitional curriculum for Academic Year 2020-2021 and the revised curriculum for Academic Year 2021-2022. This timeline is currently being successfully met with planning and organization for the transitional curriculum completed for a July 2020 deployment and development of the revised curriculum in progress.

Tactic: Development of clinical differential review sessions for pre-clinical students, correlating disease and pathology findings to clinical presentations and approach to management.

Metric: Students attending optional and enhanced learning sessions; evaluations from sessions

We do not take attendance at such optional sessions and so do not have a means for tracking attendance. However, patient-centered learning, team-based learning, simulation scenarios and oral case presentations, write-ups as part of the ambulatory care experience all are focused on providing both formative and summative feedback regarding clinical presentations. These sessions range from optional high-fidelity simulation scenarios using mannequins to mandatory clinical skills assessment. We do receive evaluations from these sessions and comments from them are abstracted below.

**Gross anatomy review sessions and mock practical exam; Year 1 Block 2**

- *Dr. Carr's anatomy review sessions are extremely helpful for me. I felt quite overwhelmed with the variety of anatomy that we experienced this block and the volume of information, but his sessions help to simplify and look at it from another perspective, very much appreciated!*
- *One of the most important element of the block that helped me learn was Dr. Carr's anatomy review sessions. It was really helpful to know what are the big ideas that we absolutely need to focus on and connecting anatomy to clinical relevance.*
- *Dr. Carr's anatomy review sessions were also some of the most effective anatomy i learn as he demonstrates tips and tricks on memorization.*
- *I think the most important parts of the block that helped me learn was any time that I was able to be tested. So I would really like there to be more opportunities for students to be tested on the material throughout the block on anatomy, such as mock practicals, and basic sciences like how the mid block is set up*

- *Anatomy help sessions with Dr. Carr are extremely helpful. This is time very well spent and helps identify simple ways to think about a complex and intimidating subject. I understand that resources likely would not permit something like this, but it would certainly help me learn even better if this sort of smaller group learning (help sessions or study halls) were offered for more of our subjects. I am imagining a situation where a professor reserves a room and does a quick run-down of his/her subject*
- *The case vignettes for anatomy lab helped me learn the clinical relevance of structures and a better understanding of how the many aspects can come together (i.e. blood flow, innervation, injury, etc.).*
- *Reviews/support sessions for anatomy, immunology, and histology- reviews allow for us to ask questions about topics that we find challenging or confusing. Receiving the answers to these questions are extremely helpful.*
- *One thing that greatly improves my learning are the Anatomy review meetings that Dr. Carr would hold once per week. They were helpful to receive a second look at the materials and see if that could assist in my learning. The review sessions at the end of the block were also helpful for learning as they gave an opportunity to assess my learning. I appreciated the mid block exam, it offered a way of getting a feel for the material and testing to see if what I had been doing to study was beneficial. I also greatly appreciated the anatomy practical quiz during week 8, again, it was another*

#### **Patient-centered learning; Year 1 Block 2**

- *The most important elements of the block for my learning were PCL and the LOs, and the group concept maps from weeks 1 and 2.*
- *I believe that most of my learning occurred in the PCL environment. I learn best in an environment where I can relate the concepts being taught in lecture to real life scenarios, and PCL gives me this opportunity*
- *I feel that PCL experience was very helpful because it correlated the clinical and basic science lectures well. Also, the reviews that were held throughout the block were very helpful and were good ways for me to gauge my understanding of the material.*
- *PCL helped me integrate the basic science lectures with clinical applications, specially towards the later weeks when the cases matched up with the basic science material.*
- *PCL helped in applying what we were learning*
- *PCL because it put ideas we were learning into clinical context.*
- *PCL was important for developing my professional and teamwork skills and also learning about patient-centered care*
- *PCL greatly contributed to my understanding of confusing immunology concepts, cardiology, muscle physiology, and the respiratory system*

#### **Team-based learning; Year 2 Block 6**

- *I enjoyed the discussions on Wednesday and the TBL sessions.*

- *The TBL activities along with the iRAT and gRAT quizzes were very beneficial to my understanding of the information for this block.*
- *TBL- I really enjoyed the TBL format this block. The individual and group quizzes actually helped me learn the material so much and I learned a lot from my wrong answers that my classmates were able to explain. The TBL activity after the gRAT was super helpful in learning as well, for very similar reasons. My classmates taught me so much and it was fun to learn in such an interactive setting!*
- *The PCL experience, along with working with the content experts in the TBL sessions helped give us a different perspective to the questions we always do which was incredibly nice.*
- *The whole class TBL session is pointless.*
- *I thought the TBL was super helpful in learning ideas and identifying weak points in my learning. I thought it was much more effective than getting a bunch of information lectured at me when I've already covered it in my independent studying.*
- *The TBL sessions and iRAT/gRAT were some of the most important elements that helped me because it allowed me to see how questions could be formed along with see how to improve my own test taking skills by seeing how other students approached questions.*

### **Simulation scenarios**

- *Simulations are always one of the most useful and important elements of the block for integrating basic science and clinical knowledge into a realistic scenario. These experiences have been instrumental in my development as a future physician.*
- *The SIM labs, boot camp days, and ACE exam were the most beneficial in demonstrating patient centered care.*
- *I think the ACE and SIM experiences embraced the patient-centered approach to care.*
- *Dr. Allen and the entire simulation center team did an outstanding job with the clinical skills bootcamp. It really provided a sense of confidence for year three to allow me to step up and try to do these things in the hospital.*
- *Dr. Allen - He always has valuable insight during the debriefs following SIM experiences*
- *The simulations and bootcamp lectures were much appreciated this block. The simulation scenarios were ones I will remember for a long time.*
- *The dying patient SIM was not realistic, when will there ever be two nurses and three doctors in the room of a Hospice patient? We also have never been instructed on how to handle a situation such as this.*
- *Simulations are always vital to the development of our clinical reasoning and skills.*
- *The simulations in this block were patient centered in that they developed our ability to interact with nursing professionals which promotes team work and benefits the patient.*
- *Simulation Center Encounters integrated patient-centeredness and multidisciplinary communication in patient care.*
- *The elements of the block that are most helpful for me are the exam practice, PCL, and simulations.*

**Ambulatory care experiences; Year 2 Block 7 and Block 8**

- *The most important elements of the block that helped me learn are always the hands on activities that we participate in.....2. ACE - this not only helps us practice for Block 8 exams but helps us learn how to manage our time, chart, get feedback and learn how to come up with differentials based on our history and PE findings.*
- *The SIM labs, boot camp days, and ACE exam were the most beneficial in demonstrating patient centered care.*
- *I think the ACE and SIM experiences embraced the patient-centered approach to care.*
- *I also appreciated how ACE was set up. Getting personal feedback on the physical exam and write-up was helpful, I wish there could be a way to incorporate that feedback earlier in the year and avoid the burn-out of staff.*
- *I would like to see some changes in how ACE is formatted.*

Tactic: Seek ways to enhance quality and quantity of student interactions with teaching residents

Metric: # of rotations on each campus at which students interact with residents

We do not at this time have a clear mechanism for tracking student interactions with residents per rotation per campus. Moreover, this might not be meaningful on the longitudinal clerkships. However, the CSCS has now adopted standards for minimal student-resident interaction during the required rotations or Phase II of the curriculum. On the evaluation form for next year in the clerkships we will be tracking the ½ days that students work with residents. Students will be instructed that they will be responsible for tracking this until they meet the CSCS requirement of 20 half-days. This will allow us to track that we have met the CSCS standard without placing undue burden on the students to track this more than CSCS deems necessary.

Metric: (delayed) student satisfaction scores on GQ

The following represents students’ overall satisfaction with their medical education from the GQ.

**Please indicate the extent to which you agree with the following statement:**

		Percentage of Respondents Selecting Each Rating					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
Overall, I am satisfied with the quality of my medical education							
All Medical Schools	2019	1.4	3.2	6.2	49.4	39.8	16,020
North Dakota	2019	1.7	1.7	6.9	69.0	20.7	58
North Dakota	2018	1.6	4.8	8.1	69.4	16.1	62
North Dakota	2017	0.0	2.8	16.7	50.0	30.6	36
North Dakota	2016	0.0	5.6	5.6	59.3	29.6	54
North Dakota	2015	0.0	2.4	9.5	54.8	33.3	42

**Goal 3**

Opportunities to employ state-of-the art technologies

Tactic: Utilization of three- dimensional table-top virtual dissection platform

Metric: # of students who have had an exposure to three dimensional table-top virtual dissection platform

Approximately 300 medical students have been able to utilize the three dimensional table-top virtual dissection platform as part of their gross anatomy education.

Tactic: Utilization of simulated ultrasonography training hardware

Metric: # of students who have had an exposure simulated ultrasonography training hardware

Pat, is this meant to be in the sim labs in the preclinical years? Are we doing this? Can we say they have all had it?

This occurs in the SIM labs. All students have had exposure to ultrasound. However, we are not certain that all have had an opportunity to utilize the training hardware. In the new curriculum 2.0, we intend to implement an intentional, and rigorous course.

Tactic: Exposure of students to telepsychiatry

Metric: # of students who have had an exposure to telepsychiatry

12

Tactic: Exposure of clinical clerkship students to online or teleconferenced distance learning experiences. For example, in the Departments of Psychiatry and Family and Community Medicine, we will review of the benefit of the current Project ECHO Medication Assisted Treatment project. The Department of Psychiatry is also collaborating with the Mental Health Technology Transfer Center and will consider a Project Echo Collaborative Care Clinic in which medical students can learn.

Metric: Establishment of such a Project Echo Clinic. In subsequent years # of students exposed to it.

We currently have a Project ECHO Clinic established, which occurs monthly. Currently the only opportunity for medical students to take part are those who might be rotating on sites participating, including UND Family Medicine. With more ECHO programs being developed via UND, we expect increased opportunities for access.

Tactic: use of teleconferencing technology for student education to rural and remote community learning sites, as well as for coordination of learning across campuses

Metric: # of required hours of online or teleconferenced distance learning experiences / clerkship

Clerkship	Hours per clerkship
FM	7 hours teleconferenced
IM	1 hour traditional campuses, 3 hours ROME students teleconferenced
Neuro	0 hours
OB/Gyn	12 hours teleconferenced; 48 hours online activities
Peds	5 hours teleconferenced; 32 online cases to complete
Psych	8 hours teleconferenced
Surgery	13.5-18.5 hours teleconferenced

Tactic: Online CME and CE programs offer CME and CE to health care providers across the state  
 Metric: # of hours of CME delivered (CME office)

For 2019, CME offered:

39 online courses for a total of 47.75 hours of educational credit. There were a total of 341 participants in the online courses.

382 Live activities for a total of 504 hours of educational credit. There were a total of 7739 participants in the live activities.

7 Enduring programs for a total of 12 hours of educational credit. There were a total of 63 participants in the Enduring programs.

Metric: # of hours of non-CME CE delivered (Pathology)

In addition, the Department of Pathology offered the following in 2019:

Death investigation on-line courses: 291 enrollees for 1998 Continuing education credit hours

	Credits	Participants	Total Credits
Advanced Topics	5	38	190
Basics of Death Investigation	7.75	87	674.25
Cultural Competency	2.25	45	101.25
Forensic Pathology	18	31	558
Mental Health Issues	3.25	34	110.5
Terminology of Disease	6.5	56	364
		291	1998

Tactic: Exposure of undergraduate and ND High school students to STEM and technology through technology educational cores such as molecular biology, advanced imaging.

Metric: Sponsorship of ND Science Fairs by UND

Graduate Students, Post-doctoral fellows, and Faculty yearly serve as judges for the State Science Fair. The Department of Biomedical Sciences yearly supports numerous Science Fair Awards for categories in the biology/health related areas. The ND INBRE provides registration support for student participants in the State Science Fair.

Metric: ND STEM teachers in secondary schools with access and training in STEM developed technology laboratory

The SMHS initiated a new program called Native Educator University Research Opportunity [NEUROscience] to help high school teachers at tribal schools improve their STEM curricula and create engaging lessons.

Metric: Talks and programs given by UND faculty and staff to elementary, middle and high school students

Graduate students in the Department of Biomedical Sciences provide approximately 12 SMHS tours and presentations to high school students from North Dakota and Minnesota. Medical Students in the SMHS hold a Teddy Bear Clinic for Grand Forks kindergarten students yearly. The SMHS Center for Rural Health hosts a Scrubs Academy for middle school and high school students yearly. The SMHS Indians into

Medicine (INMED) offers a Summer Institute for students in grades 7-12. The ND INBRE program hosts multiple Biotechnology/AP Prep Teacher Workshops per year at various locations around the state.

#### Goal 4

##### Discovery

Tactic: DaCCoTA CTR investment in building and funding interprofessional collaborative teams to do clinical and translational research

Tactic: Internal Medicine residency to begin to require resident research project

Proposed tactic: Investment in SMHS core facilities to increase capacity and service

Proposed tactic: Clinical departments with residency programs to encourage (and consider mandating) publication by residents

Proposed tactic: Clinical chairs to work with faculty and students to encourage publication

Proposed tactic: Clinical departments with residency programs to encourage (and consider mandating) publication by residents

Proposed tactic: Clinical chairs to work with faculty and students to encourage publication

Proposed tactic: Pilot grant program

Proposed tactic: Meritorious grant award program

Proposed tactic: Encourage mini-sabbaticals for faculty development in research

Proposed tactic: Matching support of postdoctoral awards from the VPFR office

Proposed tactic: REMS program support to the extent budget allows. Request budgetary support for supply expenses for mentors in coming years' REMS budgets.

Proposed tactic: New faculty recruitment

Proposed tactic: Strategic investment in ND-relevant targeted research areas

Additional tactic: Building Research Capacity (BRC) or other consultation for expanding and aligning resources for increasing research activities. Consult performed and report pending for F & CM Department.

CTR Metrics: Too detailed and numerous to list here. See DaCCoTA Tracking and Evaluation Core.

Metric: # of publications annually. Each department should track and trend this annually and report to Senior Associate Dean for Medicine and Research

We await the ability of Digital Measures to help with this. Meanwhile, each department needs to do it separately.

Accomplished for 2019. (Please see Appendix B).

Metric: 3 year rolling average for extramural grant funding at SMHS

Average of last three fiscal years sponsored funding.

FY19 \$20,785,310

FY18 \$25,366,758

FY17 \$20,412,330

Total 3 years \$66,564,407 divided by 3 is

\$22,188,136 annual 3 year average for SMHS sponsored funding

Metric: # of medical students who engage in REMS-supported research

In the summer of 2019, there were 19 REMS students.

Metric: # of postdoctoral research fellows at SMHS

Currently there are 15 Postdoctoral Research Fellow at SMHS.

Goal 5: welcoming, safe, inclusive environment

Await Goal 5 working group recommendations. Meanwhile.....

Tactic: Incorporation of diversity objectives into third year required clerkships

Tactic: Enactment of fourth year diversity elective

Tactic: Encourage and expand service learning opportunities on each campus

Tactic: Ob/Gyn to adopt new diversity and inclusion guidelines

Tactic: Obtain feedback on the benefits of the support of the Wellness Advocate position and adjust accordingly (at least in year one) . Consider yearly surveys and a CQI approach if warranted.

Tactic: During curriculum revision, seek to include diversity-relevant learning objectives within pre-clinical curriculum integrated within diseases and topics.

Metric: Number of medical student responses to a survey re: Wellness Advocate.

We are not sure which survey this was referring to. However, the Wellness Advocate has met with strongly favorable comments throughout her work at SMHS. The change in leadership in the office of the Associate Dean for Student Affairs and Admissions presents an opportunity to continue to think creatively about wellness issues as well as to develop new metrics for student wellness.

Metric: # of required clerkships that address diversity through learning objectives

Currently Family Medicine, Pediatrics, Ob-Gyn, and Psychiatry address diversity through learning objectives.

Metric: GQ scores for medical students feeling prepared to manage diversity (However, we must recognize the substantial time lag between actions and likely effect on this metric.)

Here is the 2019 GQ question.

2019 Medical School Graduation Questionnaire

**12. Indicate whether you agree or disagree with the following statements about your preparedness for beginning a residency program: (Continued)**

		Percentage of Respondents Selecting Each Rating					
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree	Count
I believe I am adequately prepared to care for patients from different backgrounds.							
All Medical Schools	2019	0.3	0.6	2.8	29.4	67.0	16,137
North Dakota	2019	1.9	3.7	9.3	42.6	42.6	54
North Dakota	2018	0.0	8.1	9.7	45.2	37.1	62
North Dakota	2017	0.0	5.9	5.9	32.4	55.9	34
North Dakota	2016	0.0	6.0	6.0	56.0	32.0	50
North Dakota	2015	0.0	2.5	7.5	57.5	32.5	40

Metric: Approval of new Ob/Gyn diversity and inclusion guidelines

OBGYN-05: Recognize that diverse cultural, religious and socioeconomic backgrounds can affect both the provider's approach and the patient's response to women's healthcare issues

Metric: Inclusion of diversity-relevant learning objectives within pre-clinical curriculum integrated within diseases and topics.

This awaits better curriculum mapping as we move into curriculum 2.0, but diversity-related issues are being actively discussed in curriculum redesign.

Goal 6: Educational needs of active duty and reserve personnel, veterans, and their families  
We make our student and residency slots available to veterans and their families freely. Medical students and residents are counseled about opportunities to serve in the military reserves during their training and they can do so. It is not clear that active duty military could reasonably participate in medical school or residency training at UND given the time demands of each. This will be reported to FAC and the Dean consistent with the strategic plan instructions.

Tactic: Improving support of military match students applying for residency programs

Metric: Creation of a document that advises students as to how to do this (please see Appendix A).

Although this is a challenging and ever-changing area, we have developed a brief summary of Military Residency Match information that will be listed on our website for students in the coming years. These are general guidelines for military match residencies and can change from year-to-year with little advance notice. (Please see attached)

Tactic: Offer at least one Psychiatry Grand Rounds that may be relevant and/or of interest to active duty military or veterans or their families.

Metric: # of hours of relevant content offered. # of military/veteran/families utilizing Psychiatry Grand Rounds

Two Grand Rounds (1 hour each) this past year were offered with particular relevance to military/family:

- 1) Effective and Recommended PTSD Care: An Overview of Cognitive Processing Therapy (CPT)
- 2) The Concept of Traumatic Brain Injury as a Chronic Health Condition

The specific identification of participants with the military is not tracked, and this metric should be abandoned.

Metric: CME and CE hours pertaining to active duty military or veterans

4 Live Activities for a total of 4 hours of educational credit. There were a total of 14 participants in these Live activities. Active duty military and veterans are invited to attend any of our offerings but they are not tracked separately.

Tactic:: Seek research and collaboration with agencies addressing key health issues of veterans, including VA, DOD, National Guard, and active duty military.

Metric : Participation in initiatives addressing these needs

We are currently seeking to collaborate with the VA by renting laboratory space to them. This is in evolution.

Tactic: Consider giving credit in some holistic fashion in recruitment for applicants to residency who have served in the military

## Goal 7: Fund raising

Potential targets for endowed chairs:

Alzheimer's disease

Informatics

Cancer

Substance abuse

Public health / safety

Rural health

Family genetics

Quality assurance in medicine

## Goal 8

HWI goals

### 1. Train more health care providers

Tactic: Seek funding to expand residency offerings. (SMHS budget requests to the Dean, grant funding, partnership with hospital partners)

Potential opportunities: IM chief resident; FM rural expansion, neurology residency, forensic path fellowship (especially coupled with an MPH degree); Fill Fargo & Bismarck geriatrics fellowship positions; Further partnerships with Sanford Fargo in medical oncology, surgical critical care, adolescent psych. Explore possibilities of creating an Ob-Gyn residency.

The FM Hettinger rural track expansion was funded and approved by one additional resident per year. The Bismarck geriatrics program was closed due to unavailability of faculty, but the Fargo program continues to do well. We either have submitted or expect to submit PIFs for neurology, pediatrics, and forensic pathology this coming year, and continue to explore possibilities in medical oncology and ob/gyn.

Metric: # of residents or fellows who matriculate to UND programs in a given academic year.

As this seems ambiguous, we suggest rewording this metric to indicate the # of UND students who stay in UND programs for residency or fellowship after graduation. This was 19 for the previous year.

### 2. Assess efficacy of HSWI-funded psychiatry residency expansion

Tactic: The Department of Psychiatry will conduct a review of the expansion of the UND Psychiatry Residency program in year one. Further reviews may be conducted via a CQI process as warranted.

Metric: # of UND resident telepsychiatry clinic sites responding to survey.

Metric: Results of survey

This survey is in progress in 2020 and so we hope to be able to report these metrics in next year's update.

### 3. Interprofessional education

Tactic: Interprofessional education to be incorporated as a thread through the new curriculum

Metric: Initially, successful incorporation of interprofessional education into the curriculum

Since 2006, there has been a multi-disciplinary interprofessional education curriculum in the medical program.

Metric: Identification by the interprofessional education group of appropriate metrics for further evaluation of success

All medical students have successfully completed this course and have earned "Successful" grades.

Metric: Hours of required curriculum incorporating interprofessional team instruction and learning

Fifteen hours of mandatory multi-disciplinary interprofessional education curriculum currently exists in the curriculum with the intention of increasing the number of hours and activities required.

## Appendix A

### Military Residency Match

Uniformed Services University of the Health Sciences (USUHS) and Health Profession Scholarship Program (HPSP) students have the same chances of getting their residency of choice as civilian students. The military will never dictate which specialty to choose. In general the more competitive the student and the more programs the student applies to the better the chances of matching. The availability of residency slots, however, depends on the military's need at that particular time and how competitive the residency is overall.

Students who do not receive their first specialty choice may elect to take a transitional year internship and reapply for their first specialty choice in the following years. Unlike students in the civilian match, USUHS and HPSP students will still receive internship training. If a student has a particular specialty in mind and are wondering about the chances of getting their choice of residency, they are advised to contact a recruiter for further information.

The process of matching to a residency is slightly different for military medical students than it is for civilian students. Since this will not apply to UNDSMHS students it is only mentioned here for completeness.

The military match takes place first, in December of the fourth year of medical school, and students are most likely to be matched at that time. If the student does not match into a military residency or post graduate year 1 program, the student will be authorized to participate in the civilian match.

If the student is selected for a military residency, they will start working at a military healthcare facility as an active duty physician and will be paid as a Captain in the Army and the Air Force or as a Lieutenant in the Navy. Students are reminded that time spent in a military residency will not count towards their service commitment but it will count towards their eventual promotion, pay longevity and retirement.

The military may allow a student to attend a civilian residency if there are not enough military slots available in the specialty desired and if the military still has a need for physicians in that specialty. Students should plan on interviewing for military residencies to be on the safe side. Other specific parameters may apply.

For students who do not match into the military or, if permitted a civilian residency of their choice, they will still have other options. In some cases they could switch to a military residency in another field if a slot is available. Otherwise, they should plan on doing a one year civilian or military internship. After that internship they will be able to get their license to practice medicine and can then either reapply for a residency or serve as a General Medical Officer (GMO).

The position of GMO offers a relative opportunity but is available only for the Air Force and Navy. GMO's provide primary care medicine to active duty personnel which means they will get military specific medical training such as flight surgeons or undersea medical officers. Time served as a GMO does fulfill active duty service obligation for participation in a medical scholarship program.

Be aware that the number of military residency slots can fluctuate from year to year depending upon the specific manpower needs of each military branch.

Fourth year medical school rotations need to be considered when deciding where to do a military residency. The military suggests you chose elective rotations wisely and think of them as auditions. At least one rotation should be the military medical facility where the student may want to do their residency. Nonmilitary medical students will go through the regular residency match process, the results of which are announced in mid March of their senior year and approximately three months after military match announcements.

These are general guidelines for military match residencies and can change from year to year with little advance notice. UNDSMHS students who are part of this process report that it helps to be in contact with medical students from other institutions who are experiencing the same situation. It appears that information given by one branch of the military or even one military residency program may not be identical.

## Scholarship Reporting – 2019

### BIOMEDICAL SCIENCES

Biomed faculty/adjunct faculty authors: 72

Total publications: 56

Includes former faculty authors who list UND Biomedical Sciences in their author information for that publication.

1. Nieborowska-Skorska M, Maifrede S, Ye M, Toma M, Hewlett E, Gordon J, Le BV, Sliwinski T, Zhao H, Piwocka K, Valent P, **Tulin AV**, Childers W, Skorski T. Non-NAD-like PARP1 inhibitor enhanced synthetic lethal effect of NAD-like PARP inhibitors against BRCA1-deficient leukemia. *Leuk Lymphoma*. 2019 Apr;60(4):1098-1101. doi: 10.1080/10428194.2018.1520988. Epub 2018 Oct 2. No abstract available. PMID: 30277116
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5. de Anda-Jáuregui G, Guo K, McGregor BA, Feldman EL, **Hur J**. Pathway crosstalk perturbation network modeling for identification of connectivity changes induced by diabetic neuropathy and pioglitazone. *BMC Syst Biol*. 2019 Jan 7;13(1):1. doi: 10.1186/s12918-018-0674-7. PMID: 30616626
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## **FAMILY & COMMUNITY MEDICINE**

### **Total Publications: 13**

1. **Bryan S. Delage MD, Kamille Sherman MD, Eric Johnson MD**, Gwen Halaas MD; Getting the Pre-Doc Back Into Documentation: Students as Scribe During their Clerkship"; *Family Medicine* – accepted for publication 12/2019
2. Vogel MT, Abu-Rish Blakeney E, Willgerodt MA, Odegard PS, **Johnson EL**, Shrader S, Liner D, Dyer CA, Hall LW, Zierler B. Interprofessional education and practice guide: interprofessional team writing to promote dissemination of interprofessional education scholarship and products. *J Interprof Care*. 33(5): 406-413. Doi: 10.1080/13561820.2018.153811. Sep-Oct 2019
3. **Johnson EL**. Textbook chapter Mitochondrial Dysfunction in Diabetes. *Handbook of Mitochondrial Dysfunction*. ISB 13:978-1-138-33608-7. <https://www.routledge.com/Handbook->

[of-Mitochondrial-Dysfunction-1st-Edition/Ahmad/p/book/9781138336087](https://doi.org/10.1080/22423982.2019.1577093). Ahhmad Shamin, editor, Taylor Francis. May 2019

4. **Redvers N.** The Crossroads of the Planetary Health Paradigm: An Indigenous Perspective, *The Vital Link*, 26:3. 2019
5. **Redvers, N.**, Marianayagam, J., Blondin B. Improving access to Indigenous medicine for patients in hospital-based settings: a challenge for health systems in northern Canada, *International Journal of Circumpolar Health*, 78:1, DOI: 10.1080/22423982.2019.1577093. 2019
6. **Redvers, N.R.** The Science of the Sacred-Bridging Global Indigenous Medicine Systems and Modern Scientific Principles. Berkley, California: North Atlantic Books. March 26, 2019
7. Patterson DG, **Schmitz D**, Longenecker RL. "Family Medicine Rural Training Track Residencies: Risks and Resilience" *Family Medicine* 2019; 51(8):649-656. 2019.
8. Sundberg M, Leader Charge D, Owen M, Subrahmanian K, Tobey M, **Warne DK**, Developing Graduate Medical Education Partnerships in American Indian/Alaska Native Communities, *Journal of Graduate Medical Education*, December 2019
9. Kruger H, Zumwalt C, Guenther R, **Warne D**, Dyke C, Disparities in Secondary Prevention of Atherosclerotic Heart Disease After Coronary Artery Bypass Grafting in Northern Plains American Indians, *Health Equity*, October 2019
10. Frerichs L, Bell R, Hassmiller Lich K, Reuland D, **Warne DK**, Regional differences in health insurance among American Indians and Alaska Natives after the Affordable Care Act, *Health Affairs*, September 2019
11. Frerichs L, Bell R, Hassmiller Lich K, Reuland D, **Warne DK**, Health insurance coverage among American Indians and Alaska Natives in the context of the Affordable Care Act, *Ethnicity and Health*, June 2019

12. **Warne DK, Wescott S**, Social Determinants of American Indian Nutritional Health, Current Developments in Nutrition, May 2019
  
13. Morenz AM, **Wescott S**, Mostaghimi A, Sequist TD, Tobey M. Evaluation of Barriers to Telehealth Programs and Dermatological Care for American Indian Individuals in Rural Communities. JAMA Dermatology. 155(8):899-905. 2019

## GERIATRICS

**Total Publications: 12**

### **Ram Mathur, PhD**

1. [Mechanistic Insight into the Development of TNBS-Mediated Intestinal Fibrosis and Evaluating the Inhibitory Effects of Rapamycin.](#)  
Mathur R, Alam MM, Zhao XF, Huang Y, Zhu X.  
J Vis Exp. 2019 Sep 12;(151). doi: 10.3791/60067. PMID: 31566603
  
2. [Targeting Microglia Using Cx3cr1-Cre Lines: Revisiting the Specificity.](#)  
Zhao XF, Alam MM, Liao Y, Huang T, Mathur R, Zhu X, Huang Y.  
2019 Jul 10;6(4). pii: ENEURO.0114-19.2019. doi: 10.1523/ENEURO.0114-19.2019. Print 2019 Jul/Aug. PMID:31201215
  
3. [Induction of autophagy in Cx3cr1+ mononuclear cells limits IL-23/IL-22 axis-mediated intestinal fibrosis.](#)  
Mathur R, Alam MM, Zhao XF, Liao Y, Shen J, Morgan S, Huang T, Lee H, Lee E, Huang Y, Zhu X.  
Mucosal Immunol. 2019 May;12(3):612-623. doi: 10.1038/s41385-019-0146-4. Epub 2019 Feb 14.

### **Gunjan Manocha, PhD**

1. [Temporal progression of Alzheimer's disease in brains and intestines of transgenic mice.](#)  
Manocha GD, Floden AM, Miller NM, Smith AJ, Nagamoto-Combs K, Saito T, Saido TC, Combs CK.  
Neurobiol Aging. 2019 Sep;81:166-176. doi: 10.1016/j.neurobiolaging.2019.05.025. Epub 2019 Jun 13. PMID:31284126
  
2. [Ablation of amyloid precursor protein increases insulin-degrading enzyme levels and activity in brain and peripheral tissues.](#)  
Kulas JA, Franklin WF, Smith NA, Manocha GD, Puig KL, Nagamoto-Combs K, Hendrix RD, Taglialatela G, Barger SW, Combs CK.  
Am J Physiol Endocrinol Metab. 2019 Jan 1;316(1):E106-E120. doi: 10.1152/ajpendo.00279.2018. Epub 2018 Nov 13. Erratum in: [Am J Physiol Endocrinol Metab. 2019 Feb 1;316\(2\):E345.](#) PMID:30422705

3. Multifactorial Attenuation of the Murine Heat Shock Response With Age. **Jurivich DA, Manocha GD**, Trivedi R, Lizakowski M, Rakoczy S, Brown-Borg H. J Gerontol A Biol Sci Med Sci. 2019 Oct 14. pii: glz204. doi: 10.1093/gerona/glz204. [Epub ahead of print] PMID:31612204
4. Opinion: Is Twitter a New Way to Learn? **Jurivich DA, Manocha GD**. J Invest Surg. 2019 Oct 6:1-2. doi: 10.1080/08941939.2019.1659887. [Epub ahead of print] No abstract available. PMID:31588

Poster:

5. Rachana Trivedi, **Donald Jurivich, Gunjan Manocha**, Mary Lizakowski, Rakoczy Sharlene, Holly Brown-Borg, Multi-factorial attenuation of the murine heat shock response with age, Poster presentation, Frank Low Research Day (2019), UND, Grand Forks.
6. Comparison of salivary A $\beta$  levels and oral microbiome in two different mouse models of AD A.M. Floden, M. Sohrabi, S. Nookala, **G. D. Manocha**, C. K. Combs; Poster Presentation, Society for Neuroscience (SFN) Annual Meeting (2019) Chicago.

#### **Donald Jurivich, DO**

1. [Weakness May Have a Causal Association With Early Mortality in Older Americans: A Matched Cohort Analysis](#). McGrath R, Vincent BM, Peterson MD, Jurivich DA, Dahl LJ, Hackney KJ, Clark BC. J Am Med Dir Assoc. 2019 Nov 27. pii: S1525-8610(19)30756-X. doi: 10.1016/j.jamda.2019.10.016. [Epub ahead of print] PMID:31786197
2. [Multifactorial Attenuation of the Murine Heat Shock Response With Age](#). Jurivich DA, Manocha GD, Trivedi R, Lizakowski M, Rakoczy S, Brown-Borg H. J Gerontol A Biol Sci Med Sci. 2019 Oct 14. pii: glz204. doi: 10.1093/gerona/glz204. [Epub ahead of print] PMID:31612204
3. [Opinion: Is Twitter a New Way to Learn?](#) Jurivich DA, Manocha GD. J Invest Surg. 2019 Oct 6:1-2. doi: 10.1080/08941939.2019.1659887. [Epub ahead of print] No abstract available. PMID:31588

#### **HEALTH SCIENCES**

##### **Total Publications: 96**

Includes former faculty authors who list UND Biomedical Sciences in their author information for that publication.

#### **PHYSICIAN ASSISTANT STUDIES**

##### **Total Scholarly Works: 17**

1. "Treatment Options for Post Treatment Lyme Disease Syndrome" - poster presentation NDAPA Spring Primary care conference; May 2<sup>nd</sup>, 2019 Barbara Bowman, PA-S & Russ Kauffman, PA-C contributing author
2. "Pelvic Examinations for Ovarian Cancer Screening in Asymptomatic Adult Women" - poster presentation NDAPA Spring Primary care conference; May 2<sup>nd</sup>, 2019 Riann Collar, PA-S & Russ Kauffman, PA-C contributing author
3. "Comparison of Pharmacologic Treatments for Postmenopausal Osteoporosis" poster presentation NDAPA Spring Primary Care Conference; May 2<sup>nd</sup>, 2019; Kaitlyn Wirtz, PA-S & Jeanie McHugo, PhD, PA-C
4. "The Use of Dehydroepiandrosterone in the Treatment of Depression" poster presentation NDAPA Spring Primary Care Conference; May 2<sup>nd</sup>, 2019; Seth Tramm, PA-S & Jeanie McHugo, PhD, PA-C
5. "Teaching Students in the Clinical Setting: Sharing Strategies of Success", oral presentation for regional health care system, Aug 2019; Jeanie McHugo, PhD, PA-C
6. "Dynamic Workplace Culture", local oral presentation, July 2019; Jeanie McHugo, PhD, PA PA-C
7. "EKG Review", Sanford-Fargo APP Winter Conference, 2019; Jay Metzger, MPAS, PA-C
8. "EKG Pitfalls", Topics in EMS Winter Conference, Fergus Falls, MN, 2019; Jay Metzger, MPAS, PA-C
9. "Hypertension Update", North Dakota Academy of Physician Assistants Annual Spring Primary Care Conference, 2019; Jay Metzger, MPAS, PA-C
10. "Weight Loss Medications". North Dakota Academy of Physician Assistants Annual Spring Primary Care Conference, 2019; Jay Metzger, MPAS, PA-C
11. "EKG Review", North Dakota Academy of Physician Assistants Annual Fall Primary Care Conference, 2019; Jay Metzger, MPAS, PA-C
12. "Benefits of 3D Breast Tomosynthesis Combined with 2D Digital Mammography in Screening Women for Breast Cancer" - poster presentation NDAPA Spring Primary care conference; May 2<sup>nd</sup>, 2019 Danielle Swanson, PA-S & Jay Metzger, PA-C contributing author
13. "Platelets to the Rescue" - poster presentation NDAPA Spring Primary care conference; May 2<sup>nd</sup>, 2019 Timothy Simonich, PA-S & Daryl Sieg, PA-C contributing author

14. *"From Lecture to Learning"* – oral presentation UND SMHS Evidenced Based Teaching; May 7, 2019 Daryl Sieg MSPAed PA-C
15. *"Low Back Pain and Degenerative Spondylolisthesis: An evidence based approach"* invited lecture for the UND SMHS Continuing Education Symposium October 4, 2019; Daryl Sieg MSPAed PA-C
16. *"Comparing Rates of Macrosomia and Neonatal Hypoglycemia of Differing Treatment Modalities of Gestational Diabetes Mellitus"* - poster presentation NDAPA Spring Primary care conference; May 2<sup>nd</sup>, 2019 Ashleigh Milbrath, PA-S & Julie Solberg, PA-C contributing author
17. *"Can Early Intervention with Group Therapy or Individual Therapy Improve the Family Dynamic in PTSD Patients?"* - poster presentation NDAPA Spring Primary care conference; May 2<sup>nd</sup>, 2019 Killian Norton, PA-S & Mindy Staveteig, PA-C contributing author

## **OCCUPATIONAL THERAPY**

**Total Scholarly Works: 44**

### **Invited Extramural Lectures & Presentations**

1. **Graves, C.** *Conversation that Matter, Fieldwork Education*, panel discussion, **invited panel member**, Minnesota Occupational Therapy Association Annual Conference, St. Paul, MN, 2019.
2. **Nielsen, S.** (2019/2020). Building capacity of school personnel to address the mental health needs of children and youth: 5 part-webinar series facilitating eight communities of practice in ND, SD, and MT. September 2019-January 2020. Mountain Plains Mental Health Technology Transfer Center.

### **Refereed Presentations**

3. **Graves, C., Grabanski, J., Carrlson, R., Hulteng, J., Young, A.** (2019). *Implementing concept-based teaching into a multi-concept occupational therapy intervention course*. Poster Session, American Occupational Therapy Association Education Summit, October 25, Las Vegas, NV.
4. **Hanson, D.J., Jedlicka, J.S., Harris, N. & Klug, M.** (2019). *OT Practice Patterns in Rural States: Does the College Experience Influence Rural Employment Choice?* American Occupational Therapy Association Annual Conference, New Orleans, LA.
5. **Harris, N., Meyer, M., Dornier, K., Janssen, S., & Nielsen, S.** (2019). Occupational performance and neuroscience: A novel interprofessional team approach to concept-based occupation-centered teaching. Poster Session. AOTA Education Summit, October 19, 2019, Las Vegas, NV.
6. **Haskins, A.H. & Jedlicka, J.** (2019, January 23). *Occupational therapy's role in psychosocial pain management interventions*. Project ECHO® one-hour Presentation to national audience (invited). UND College of Nursing & Professional Disciplines and ND Center for Rural Health. Grand Forks, ND, USA. (1-hour)

7. **Janssen, S.**, Van Eck, R., **Hanson, D.**, Allen, J., Johnson, E., Relling, D., Burns, C., & Thorp, C. (2019, October 18). Interprofessional Healthcare Simulation with Telehealth. Sole presenter & lead author for Continuing Education Platform presentation with Audience Planning Worksheet for Reflection at Education Summit 2019 in Las Vegas, NV. American Occupational Therapy Association. (.5 contact hours). Peer-reviewed
8. **Jedlicka, J.S., Bass, G.I. & Olson, D.** (2019). *Teaching Students an Appreciation for the History of OT Practice through Qualitative Research*". American Occupational Therapy Association Annual Conference, New Orleans, LA.
9. **Lamborn, B. C. (October 15, 2019). Advising Low-Income Community College Students in the Era of Performance-Based Funding. Community College Research Session. Northern Rocky Mountain Educational Research Association Annual Conference, Denver, CO.**
10. **Lamborn, B. C.** (September 18, 2019). *Advising for Success in the Era of Performance Based Funding: Adviser Knowledge and Behaviors Regarding Low-Income Students in the Community College Setting*. Center for Teaching Excellence, Casper College, Casper, WY.
11. Larson, S., Hemberger, K., **Nielsen, S.**, & Klug, M. (2019). Factors influencing comfort of OT practitioners in addressing puberty in adolescents with autism spectrum disorders. Poster Session. April 4, 2019, AOTA Annual Conference and Expo, New Orleans, LA.
12. Magee, J., Hanson, S., & **Nielsen, S.** (2019). Factors influencing the recruitment and retention of OT practitioners in rural practice. Poster Session. April 6, 2019, AOTA Annual Conference and Expo, New Orleans, LA.
13. **Nielsen, S.**, Bazyk S., Brown, T., & Heitkamp, T. (2019). Building capacity of rural school personnel to address mental health needs of students through communities of practice. Short Course. National School Mental Health Conference, November 7, 2019, Austin, TX.
14. **Nielsen, S.**, Brown, T., & Heitkamp, T. (2019). Building capacity of school personnel to address the mental health needs of children and youth. Presentation on behalf of the Mountain Plains Mental Health Technology Transfer Center. North Dakota Special Education Summer Conference, August 1, 2019, Bismarck, ND.
15. Relling, D., **Janssen, S.**, Van Eck, R. N., Allen, J., Johnson, E., **Hanson, D.**, & Burns, C. (2019; October 18). Fostering interprofessional communication through a telehealth care conference. Co-author for Poster Presentation at the Educational Leadership Conference, Academy of Physical Therapy Education. Bellevue. Washington. USA. Education Innovator Award for Outstanding Poster Presentation. Peer-reviewed
16. Roehrich, H. & **Grabanski, J.** (2019, September). *Faculty role in conflict management: Sustaining student success in the classroom*. Presentation at Marketing Management Association Educators' Fall Conference, Sante Fe, NM.
17. Van Eck, R., Allen, J., Johnson, E., Hanson, D., Relling, D., Janssen, S., Burns, C., & Thorp, C. (2019, September, 18). ROBOTS: Building Interprofessional Telehealth simulations Using remotely operated Biomedical telepresence Systems. Co-author for Transformation Workshop session (50-minute) at the ChangeMedEd conference. American Medical Association. Chicago. Illinois. USA. (1

contact hour) Peer-reviewed

### **Non-Refereed Presentations**

18. Albrigtson, S., Clement, J., & **Grabanski, J.** (2019). *The Experiences of Occupational Therapists Working in Oncology Care and the Implications of the Referral Process*. Frank N. Low Research Day, Poster, School of Medicine and Health Sciences, Grand Forks, ND, April 25, 2019.
19. Bachmeier, E., Busch, L., & **Grabanski, J.** (2019). *A Group Protocol for Promoting Wellness in Rural Community-Dwelling Older Adults*. Altru Hospital Continuing Education Event, Grand Forks, ND, October, 2019.
20. Bachmeier, E., Busch, L., & **Grabanski, J.** (2019). *A Group Protocol for Promoting Wellness in Rural Community-Dwelling Older Adults*. Frank N. Low Research Day, Poster, School of medicine and Health Sciences, Grand Forks, ND, April 25, 2019.
21. Cambronne, A., Karpen, M., **Lamborn, B.**, & Young, A. (2019, May). *Occupational therapy with an adventurous twist*. Poster session presented at the University of North Dakota Wyoming Site Graduate Research Day, Casper, WY, USA.
22. Carlson, S., Schwartz, S., & **Nielsen, S.** (2019). Engaging caregivers in family centered Pediatric occupational therapy. Frank N. Low Research Day, Poster, School of Medicine and Health Sciences, Grand Forks, ND, April 25, 2019.
23. Chin, N., Brown, T., & **Nielsen, S.** (2019) Navigating cultural differences between fieldwork educators and students. Frank N. Low Research Day, Poster, School of Medicine and Health Sciences, Grand Forks, ND, April 25, 2019.
24. Dornbier, K., Fritzler, R., **Lamborn, B.** & Sigmond, S. (2019, May). *Toda la familia: An occupational therapy resource guide for working with Latino children diagnosed with ASD and their families*. Poster session presented at the University of North Dakota Wyoming Site Graduate Research Day, Casper, WY, USA.
25. Fiser, H. & **Haskins, A.M.** (2019, April). *Occupational therapists' knowledge and perception of the value of environmental adaptations for residents with neurocognitive disorders*. Poster session presented at the University of North Dakota Occupational Therapy Poster Day, Casper, WY, USA.
26. Fruit, B., Williams, H., & Graves, C. (2019). From here to there: An occupational screening tool for transitioning soldiers. Poster Session, University of North Dakota, Casper College Open House, Casper, WY.
27. Funke, M., Nieland, K., & **Grabanski, J.** (2019). *Secondary TIA Outpatient Prevention (STOP) Program: Addressing Individuals of Lower Socioeconomic Status*. Altru Hospital Continuing Education Event, Grand Forks, ND, October, 2019.
28. Funke, M., Nieland, K., & **Grabanski, J.** (2019). *Secondary TIA Outpatient Prevention (STOP) Program: Addressing Individuals of Lower Socioeconomic Status*. Frank N. Low Research Day, Poster, School of Medicine and Health Sciences, Grand Forks, ND, April 25, 2019.

29. **Graves, C., & Grabanski, J.** (2019). *University of North Dakota transition to the occupational therapy doctorate (OTD)*. Presentation, Professional Rehabilitation Consultants, August, 19, 2019, St. Paul, MN.
30. **Graves, C., & Grabanski, J.** (2019). *University of North Dakota transition to the occupational therapy doctorate (OTD)*. Presentation, Riverview Healthcare System, May, 20, 2019, Crookston, MN.
31. **Graves, C., & Grabanski, J.** (2019). *University of North Dakota transition to the occupational therapy doctorate (OTD)*. Presentation, UND School of Medicine & Health Sciences, April 26, 2019, Grand Forks, ND.
32. **Graves, C., Hanson, D., Young, A.** (2019). Contemporary OT evaluation, level I fieldwork: Focus on assessment (Webinar presentation). Occupational Therapy Department, School of Medicine & Health Sciences, University of North Dakota.
33. Groth, M., Scoby, M. & **Jedlicka, J.S.** (2019). *Access to occupational therapy practice: A review of current licensing processes in the United States*. UND at Casper College Research Day, Casper Wyoming.
34. Groth, M., Scoby, M. & **Jedlicka, J.S.** (2019). *Access to occupational therapy practice: A review of current licensing processes in the United States*. Altru Hospital Continuing Education Event, Grand Forks, ND, October, 2019.
35. **Lamborn, B. C.** (April 15, 2019). *Advising for Success in the Era of Performance Based Funding: Adviser Knowledge and Behaviors Regarding Low-Income Students in the Community College Setting*. UND OT Poster Session, Wyoming Satellite, Casper, WY.
36. **Nielsen, S.** (2019). Northern Plains Special Education Unit-Trauma sensitive schools training. Mountain Plains Mental Health Technology Transfer Center. Divide County Public Schools, August 19, 2019, Crosby, ND.
37. **Nielsen, S.** (2019). Divide County Elementary- Building capacity of school personnel to address mental health needs of children and youth strategic planning. Mountain Plains Mental Health Technology Transfer Center. Divide County Elementary School, August 20, 2019, Crosby, ND
38. **Nielsen, S.** (2019). Loy and Longfellow Elementary Schools- Social emotional learning. Training. Mountain Plains Mental Health Technology Transfer Center. August 26, 2019, Great Falls, MT.
39. **Nielsen, S.** (2019). North Elementary-Mental health literacy. Mountain Plains Mental Health Technology Transfer Center, September 30, Evanston, WY.
40. **Nielsen, S.** (2019). Uinta School District – Social emotional learning. Mountain Plains Mental Health Technology Transfer Center, September 30, Evanston, WY.

41. **Nielsen, S.** (2019). Uinta School District – Trauma sensitive schools. Mountain Plains Mental Health Technology Transfer Center, September 30, Evanston, WY.
42. **Nielsen, S. (2019).** Fremont County School District #6- Trauma sensitive schools. Mountain Plains Mental Health Technology Transfer Center, November 15, Pavillion, WY.
43. Nelson, J., Trieff & Jedlicka, J.S. (2019). *Enabling occupational competence through stress reduction for parents in the neonatal intensive care unit.* Frank Low Research Day, Grand Forks, ND.
44. Walter, R., Bresnahan, K., & **Graves, C.** (2019). *Implementing an occupational therapy student-run clinic at the University of North Dakota.* Poster Session, University of North Dakota School of Medicine and Health Sciences Frank Low Day, Grand Forks, ND.

## PHYSICAL THERAPY

**Total Scholarly Works: 28**

### Peer Reviewed Publications:

1. Chang C, **Jeno SH**, Varacallo M. Anatomy, Bony Pelvis and Lower Limb, Piriformis Muscle. StatPearls Publishing; 2019 June – Available from: <https://www.ncbi.nlm.nih.gov/books/NBK519497/>
2. **Jeno SH, Schindler GS.** Anatomy, Upper Extremity, Rotator Cuff, Supraspinatus. StatPearls Publishing; 2019 Jan- Available from: <https://www.ncbi.nlm.nih.gov/books/NBK537202/>
3. **Mabey R, Mohr P**, Ingram D, **Mohr T**, Swisher L. Assessment of Physical Therapist Student Use of Social Media and Their Perceptions of Professional Behaviors Regarding Social Media Postings. *Journal of Physical Therapy Education.* *Journal of Physical Therapy Education.* Vol 33 (3):249-256, 2019

### Peer Reviewed Platform Presentations:

1. McCallum C, **Flom-Meland CK**, Rindflesch AB, Prescher KL, Cohoon C, Scardillo JM, Reynolds E, Gusman LN. Presentation – *The Clinical Placement Process Taskforce: an Update About Our Crucial Conversations.* Educational Leadership Conference, Bellevue, WA, October 20, 2019.
2. Kluding PM, **Flom-Meland CK**, Scholtes SA, Haladay DE, Dale RB, and Vitente AC. Presentation – *ELI Leadership Projects: TED-Like Talks from Emerging Faculty Leaders.* Educational Leadership Conference, Bellevue, WA, October 19, 2019.
3. **M. Elhamadany**; Y. Salem. Effect Of Low Intensity Laser Therapy In Reducing Knee Painful Limitation And Gait Deviations In Children With Juvenile Idiopathic Arthritis: A Randomized Controlled Trial. American Physical Therapy Association Combined Sections Meeting Washington D.C. 2019.
4. **Jeno S**, Ropp S. *Excellence in the Workplace starts with You and Communication Is a Key* (1.5 hour presentation). Educational Leadership Conference, Bellevue, WA, October 2019

5. Altekruise G, Coco M, Eppenstein P, Hull B, Huntsman S, **Jeno S**, Ropp S. *Tough Lessons We Learned the Hard Way: A LAMP: Management Faculty Discussion* (2 hour presentation) American Physical Therapy Association Combined Sections Meeting, Washington D.C., January 2019
6. **Jeno S\***, **Henneman E\***. Oral Platform Presentation: *The Amazing World of Budgeting and Personal Financial Literacy, a Student Journey to Discovery*. 2019 APTA Educational Leadership Conference. Bellevue, WA. October 19, 2019.
7. Janssen S. \*, Van Eck R., Hanson D. ,Allen J., Johnson, E.L., **Relling D.**, Burns, C., & Thorp, C. *Interprofessional Healthcare Education Simulation with Telehealth*. Presentation at Education Summit 2019. American Occupational Therapy Association Education Summit. Las Vegas NV October 18-19, 2019.
8. Van Eck, R., Allen, J., Johnson, E., Hanson, D., **Relling, D.**, Burns, C., Janssen, S., & Thorpe, C (2019). ROBOTS: Building Interprofessional Telehealth simulations Using remotely operated Biomedical telepresence Systems. Transformation workshop at the American Medical Association's ChangeMedEd, Chicago, IL, September 19, 2019.
9. Johnson, E. L., Van Eck, R., Allen, J., Hanson, D., **Relling, D.**, Burns, C., and Janssen, S. (2019). Interprofessional Telehealth Simulations Using Remotely Operated Biomedical Telepresence Systems (ROBOTS) for Diabetes Education. Poster presentation at the American Association of Diabetes Educators (AADE19), August 9–12, 2019, Houston, TX.

**Peer Reviewed Poster Presentations:**

1. **Mabey R**, Wilson R, Nelson A, **Flom-Meland CK**. Poster Presentation – *Pros and Cons of Preadmission Clinical Contact Hours: Clinicians' Perspectives*. APTA NEXT Conference, Chicago, IL, June 2019.
2. **Mabey R**, Nelson A, Wilson R, **Flom-Meland CK**. Poster Presentation – *Pros and Cons of Pre-Admission Clinical Contact Hours: Faculty Members' Perspectives*. APTA NEXT Conference, Chicago, IL, June 2019.
3. **Mohr P, Halcrow S, Decker S**, Morgan R, **Mohr T, Danks M, Schindler G, Relling D**. Transition of Physical Therapy Musculoskeletal Examination Skills and Clinical Pathology Courses to Team-based Learning (TBL). Poster Presentation. Team-Based Learning Collaborative Annual Conference. Tampa, FL, March 14-16, 2019.
4. **Danks M, Decker S, LaBrecque M, Mabey R**. The Effectiveness of the “Stepping On” Program for Reducing Falls in the Elderly – Part II. Poster Presentation. APTA Combined Sections Meeting, Washington, DC, January 24, 2019.
5. **Danks M**, Thomanschefsky (Johnson) K, Bucholz H, Hoffman R, **Mabey R**. Establishing Normative Data for the Four-Square Step Test. Poster Presentation. APTA Combined Sections Meeting,

Washington, DC, January 24, 2019.

6. **Danks M**, Thomanschefskey (Johnson) K, Bucholz H, Hoffman R, **Mabey R**. A Novel Dual Task Version of the Four Square Step Test. Poster Presentation. APTA Combined Sections Meeting, Washington, DC, January 24, 2019.
7. **M. Elhamadany**; Y. Salem. Effect Of Low-Intensity Laser Therapy On Facial Nerve Regeneration In Children With Peripheral Facial Palsy: A Randomized Controlled Trial. APTA Combined Sections Meeting, Washington, DC, January 24, 2019.
8. **G Schindler**, J O'Keefe, C Murphy, T Linner, R Cook, D Gamel, A Sandry. Gluteus Medius Electromyography During Barefoot and Shod Walking and Running. APTA Combined Sections Meeting Poster Presentation – January 23-26, 2019, Washington, DC
9. **Mabey R, Mohr P**, Ingram D, **Mohr T**, Swisher L. Assessment of Physical Therapy Student Use of Social Media & Perceptions of Professional Behaviors regarding Social Media Posts. Poster Presentation at the APTA Educational Leadership Conference. Seattle, WA, October 18, 2019.
10. **Mohr P, Mabey R**, Young J, Miro R, Ingram D, **Mohr T**. Student Physical Therapist Use of Digital Textbooks and Electronic Media. Poster Presentation at the International Association of Medical Science Education Annual Meeting. Roanoke, VA, June 8-11, 2019.
11. **Halcrow S, Mohr P, Mohr T, Morgan R, Decker S**. *Team Based Learning With Peer-to-Peer Learning Strategies to Promote Acquisition and Performance of Physical Therapy Musculoskeletal Examination Skills*. Poster Presentation at the Team Based Learning Collaborative Meeting, Tampa, FL, March 14-16, 2019.
12. **Mohr P, Halcrow S, Decker S, Morgan R, Mohr T, Danks M, Relling D, Schindler G**. *Teaching Psychomotor Musculoskeletal Examination Skills and Application of Clinical Pathology with Team-Based Learning (TBL) and Peer Review Activities*. Poster Presentation at the Team Based Learning Collaborative Meeting, Tampa, FL, March 14-16, 2019.
13. **Relling D.P.\***, Janssen S., Van Eck R., Allen J., Johnson E., Hanson D., & Burns C. *Fostering Interprofessional Communication through a Telehealth Care Conference*. Poster Presentation. APTA Educational Leadership Conference. Bellevue WA October 18-20, 2019. Awarded "Education Innovator Award" for Outstanding Poster Presentation.

#### **Non-Peer Reviewed Presentations:**

1. **Danks M**, Forsch S, Haugland R. Effects of Pole Walking on Older Adults Following Six Weeks of Training. Poster Presentation. Frank Low Research Day, UNDSMHS, GF, ND, April 25, 2019.
2. Danks M. Stepping On Fall Prevention, Guest Expert Speaker for Exercise and Mobility, 3 two hour sessions, Choice Fitness Center, Grand Forks, ND, Spring and Fall 2019.

3. **Schindler G.** Achieve Physical Therapy: Hip and Knee Pain Workshop: June 6, 2019

## **MEDICAL LABORATORY SCIENCE**

### **Total Scholarly Works: 7**

#### **Publications:**

1. Lunak Z. Histotechnology: Hello from the other side of the laboratory. ASCLS Today August 2019.
2. Lunak Z. Common Laboratory Techniques Utilized to Diagnose Lymphoma. Lab Education from North Dakota (LEND) 2019.
3. Solberg BS. Disorders of primary hemostasis. In: McKenzie S, Landis-Piwowar K, Williams L, editors. Clinical laboratory hematology. 4<sup>th</sup> ed. Hoboken, NJ: Pearson; 2020. p. 767-97.
4. Solberg BS. Disorders of secondary hemostasis. In: McKenzie S, Landis-Piwowar K, Williams L, editors. Clinical laboratory hematology. 4<sup>th</sup> ed. Hoboken, NJ: Pearson; 2020. p. 798-825.

#### **Presentations:**

1. Jongeward SJ. Talkin' 'bout my generation: Hiring and Retaining the Next Generation of Laboratory Professionals. American Society for Clinical Laboratory Science Region V Fall Symposium, Fargo, ND. September 2019.
2. Solberg BS. More than a result: How the laboratory is adding value to healthcare. American Society for Clinical Laboratory Science Region V Fall Symposium, Fargo, ND. September 26, 2019.
3. Solberg BS. The value of our values: How current & future value-based initiatives have the power to transform the laboratory profession. American Society for Clinical Laboratory Science National Live Webinar Series. December 5, 2019.
4. Coleman M. Looking for zebras and horses: hematology disorders. American Society for Clinical Laboratory Science - North Dakota State Meeting, Minot, ND. April 15, 2019.
5. Lunak Z. Gut instincts: insights into immune regulation within the GI track. American Society for Clinical Laboratory Science - North Dakota State Meeting, Minot, ND. April 15, 2019.

#### **Publications:**

Bohn, Z., LeClerc, J. & **Haskins, A.M.** (2019, July). The experiences of six male occupational therapy practitioners at varying career stages— A phenomenological study. International Annals of Occupational Therapy. (resubmitted with revisions December 2018)

Heitkamp, T., **Nielsen, S.**, & Schroeder, S. (2019). *Promoting positive mental health in rural schools*. Mountain Plains Mental Health Technology Transfer Center and Substance Abuse and Mental Health Services Administration.

Hunter, J.E., Syversen, K., **Graves, C.**, & Bodensteiner, A. Spontaneous teaching: Adult perspectives of educational practice and children's play in outdoor environments. *International Journal of Early Childhood Environmental Education*. (REVISE AND RESUBMIT)

Hanson, D. J., Stutz-Tanenbaum, P., Rogers, O., Turner, T., **Graves, C.**, & Klug, M. G. (2019). Collaborative Fieldwork Supervision: A Process Model for Program Effectiveness. *American Journal of Educational Research*, 7(11), 837-844.

Janssen, S., L. (2019). Assessing residents' psychological well-being in long term care facilities. (**J. Grabanski**, Article Editor). *Statpearls* (Educational Platform Interfaced with PubMed and National Center for Biotechnical Information [NCBI] Books). Accepted for publication; link not yet available; non-blind peer review.

Janssen, S., Klug, M., Johnson Gusaas, S., Schmiesing, A., Nelson-Deering, D., Pratt, H., & **Lamborn, B.** (2019). Community based health promotion: Assess before you assess. Manuscript submitted to *Journal of Applied Gerontology* (in review). ID JAG-19-0312

**Nielsen, S., Klug, M., & Fox, L.** (2020). Impact of non-traditional level I fieldwork on critical thinking. *American Journal of Occupational Therapy*, 74(3)

#### **Dissertations:**

**Lamborn, Breann, C.** (2019). *Advising for Success in the Era of Performance-Based Funding: Adviser Knowledge and Behaviors Regarding Low-SES Students in the Community College Setting*. (Unpublished doctoral dissertation). University of Wyoming, Laramie, WY, USA.

**Young, A.** (2019). Financial management experiences of individuals with adventitious visual impairment (Doctoral capstone presentation). University of Utah.

## **INTERNAL MEDICINE**

### **Total Publications: 18**

#### Articles

1. **Bassett JT**, Rodriguez B, Mulligan L, Fontana RJ. Acute liver failure in a military recruit treated with valproic acid and harboring a previously unrecognized POLG-1 mutation. *Epilepsy Behav Rep*. 12:100342, 2019
2. Dvorak S, **Kurniali P.** BCNU (Bis-chloroethylnitrosourea, carmustine) toxicity presented as a large pleural effusion 60 days post autologous stem cell transplant for non-hodgkin lymphoma. *Cureus*. 11(2):e4052, 2019.
3. Dybsand LL, **Hall KJ, Carson P.** Immunization attitudes, opinions, and knowledge of the healthcare professional students at two Midwestern universities in the United States. *BMC Med Educ*. 19:242, 2019.
4. Johnk SR, Grindeland CJ, Leedahl DD, **Carson P**, Leedahl ND. Impact of a multicenter stewardship-targeted carbapenem justification requirement on the use of carbapenems in 23 hospitals. *J Am Coll Clin Pharm*. 2:53-57, 2019.
5. Johnson BM, **Paladugu G.** Superior mesenteric artery syndrome secondary to anorexia nervosa and methamphetamine use. *Cureus*. 11(11):e6121, 2019.

6. Kalamaha K, Reis E, Newton S, Roche C, Julson J, **Fernandes H, Rodrigues J**. Atopic dermatitis: a review of evolving targeted therapies. *Expert Rev Clin Immunol*. 15(3):275-288, 2019.
7. **Khan Suheb M**, Drofa A, Manchak M, **Durrani Q**, Kouznetsov E. Vertebral artery sacrifice: a novel strategy in the treatment of vertebral artery loop: treatment in vertebral artery sacrifice. *World Neurosurgery*. Oct 18:13539, 2019.
8. Le R, Larson C, **Fenstad E**, McCully R, Frantz R, McGoan M, Kane G. Thrombocytopenia independently predicts death in idiopathic PAH. *Heart Lung*. 48(1):34-38, 2019.
9. Leedahl D, Personett H, **Nagpal A**, Barreto E. Prevention of clostridium difficile infection in critically ill adults. *Pharmacotherapy*. 39(3):399-407, 2019.
10. **Mashaqi S**, Badr MS. The impact of obstructive sleep apnea and positive airway pressure therapy on metabolic peptides regulating appetite, food intake, energy homeostasis, and systemic inflammation: a literature review. *J Clin Sleep Med*. 15(7):1037-1050, 2019.
11. Mattocks K, Baldor R, Bean-Mayberry B, Cucciare M, Gerber M, Goldstein K, **Hammer KP**, Hill E, Kroll-Desrosiers A, Prochazka A, Sadler A, Bastian L. Factors impacting perceived access to early prenatal care among pregnant veterans enrolled in the Department of Veterans Affairs. *Womens Health Issues*. 29(1):56-63, 2019.
12. Olig E, Mountan S, Beal J, **Sahmoun A**. Race and length of time pursuing pregnancy among women who utilized medical help to get pregnant. *J Family Reprod Health*. 13(3):146-153, 2019.
13. Richards LJ, Hopkins NJ, Colwell NA, **Sahmoun AE**, Beal JR. The association between patient visit demographics and opioid analgesic received in the emergency department. *Cureus*. 11(9):e5678, 2019.
14. Richards LJ, Streifel A, **Rodrigues J**. Utility of patch testing and lymphocyte transformation testing in the evaluation of metal allergy in patients with orthopedic implants. *Cureus*. 11(9):e5761, 2019.
15. Storandt M, **Nagpal A**. Prosthetic joint infection: an extremely rare complication of intravesicular BCG therapy. *BMJ Case Reports CP*. 12(12):e232809, 2019.
16. Tong QJ, **Lo TS**. Professional certification system of infection prevention and control in the United States and its enlightenment to China. *China J Hosp Admin*. 35(9):790-793, 2019.
17. **Vegunta R**, Vegunta R, Kutti Sridharan G. Secondary aortoduodenal fistula presenting as gastrointestinal bleeding and fungemia. *Cureus*. 11(9):e5575, 2019.

#### Book Chapters

1. Misra M, **Phadke G**. Historical milestones in peritoneal dialysis. Pages 1-8. In: Ronco C, Crepaldi C, Rosner M (eds). *Remote Patient Management in Peritoneal Dialysis: Vol 197*. Kruger. Basel, Switzerland. 2019.

#### NEUROLOGY

##### Total Publications:

Lou, Jau-Shin. MD, PhD, MBA

A. Peer-reviewed paper

Verma AK, Aarotale PN, Dehkordi P, **Lou JS**, Tavakolian K. Relationship between Ischemic Stroke and Pulse Rate Variability as a Surrogate of Heart Rate Variability. *Brain Sci.* 2019;9(7):162. Published 2019 Jul 10. doi:10.3390/brainsci9070162

B. Invited lectures

National:

1. Episodic ataxia. Presented at 2019 American Association of Neuromuscular and Electrodiagnostic Medicine in 10/2019
2. Diabetic Neuropathies: Ask the Expert. Presented at 2019 American Association of Neuromuscular and Electrodiagnostic Medicine in 10/2019

Local (State and Institutional):

1. Stroke Update. Presented at Sanford Neuroscience Symposium in 2/2019
2. Nod- and paranodopathies. Presented at Neurology Grand Round in 12/2019
3. What is it? Hint: Not a psychogenic Disorder. Presented at Neurology Grand round
4. The many faces of diabetic neuropathy. Presented at Internal Medicine Grand Round.
5. Approaching patients with Neuromuscular Diseases. Presented at Psychiatry teaching conference

Breker, Dane. MD

Invited lectures (Local)

1. Neurological Presentation of brain tumor. Presented at Sanford Neuroscience Symposium in 2/2019.
2. Evaluation of dizziness at ED. Presented at Emergency medicine Grand round
3. Traumatic brain injury. Presented at Neurology Grand Round
4. Evaluation of dizziness at ED. Presented at Neurology Grand Round
5. Concussion. Presented at Neurology Grand round
6. Visual Disturbance. Presented at Psychiatry teaching conference

Caillier, Rebecca. MD.

Invited lectures (Local)

Dementia. Presented at Psychiatry teaching conference

Diamond, Amanda. MD

Invited lectures (Local)

1. Epilepsy. Presented at Psychiatry teaching conference
2. Predicting outcome after cardiac arrest. Presented at Neurology Grand round
3. Seizures, Part 2. Presented at Internal medicine teaching Conference

Eickman, Kara. MD

Invited Lectures

Motor Neuron Diseases. Presented at Internal medicine teaching conference.

Gupta, Raj. MD

Invited lectures (Local)

1. Autoimmune Encephalitis. Presented at Sanford Neuroscience Symposium in 2/2019.
2. Burning Mouth Syndrome. Presented at Neurology Grand Round

Harlow, Tanya. MD

Invited lectures (Local)

1. Dementia in Parkinsonian syndromes. Presented at Sanford Neuroscience Symposium in 2/2019.
2. Progressive weakness in an adolescent. Presented at Neurology Grand round.
3. Secret to improving the care of patients with Parkinson's Disease. Presented at Neurology Grand round.
4. Central Nervous system disorders. Presented at Psychiatry teaching conference
5. Movement Disorders. Presented at Psychiatry teaching conference.
6. Movement Disorders. Presented at Internal medicine teaching Conference

Manchak, Michael. MD

Invited lecture (Local)

Stroke. Presented at Psychiatry teaching conference

Muntean, Eugenie. MD

Invited Lectures

1. Headache pain. Presented at Neurology Grand Round
2. Headache case presentation. Presented at Neurology Grand Round
3. Headache. Presented at Psychiatry teaching conference

Samaraweera, Ravinda. MD

Invited lectures (Local)

1. Our Good Friend Myoclonus. Presented at Neurology Grand round
2. Do not know what to do? Try Steroid. Presented at Neurology Grand round
3. Neurotransmitters and drug abuse. Presented at Psychiatry teaching conference.
4. Seizures and Syncope. Presented at Internal medicine teaching Conference

Scarberry, Susan. MD

Invited Lectures (Local)

1. Multiple sclerosis. An Update. Presented at Sanford Neuroscience Symposium in 2/2019
2. Multiple sclerosis. Presented at Psychiatry teaching conference
3. Multiple Sclerosis: A review. Presented at Neurology Grand round
4. ACTRIMS update. Presented at Neurology Grand round

Sachdeva, Gautum, MD.

Invited Lectures (Local)

1. Stroke. Presented at Internal medicine teaching Conference
2. NIH stroke Scale. Presented at Internal medicine teaching Conference

Sequeira, Alexandra. MD

Invited lectures

Local (State and Institutional):

1. Diversity in Medicine. Presented to Medical Students and at Neurology Grand Rounds 9/2019.

2. Aphasia Syndromes: Definitions, Localization and Differential Diagnosis. Presented at Internal Medicine Neurology Lecture Series.
3. Seizures: Definition, Classification, Management and More. NeuroCurriculum Lecture Series, Sanford Health. May 2019.
4. Individualized AED Selection in Adult Epilepsy. Presented at neurology grand Rounds. January 2019.
5. Ask An Expert: Women and Cardiovascular Health. Represented cerebrovascular (stroke) neurology. Sanford Health. February 2019.

Abstract and poster presentations

Antharam, P. and Sequeira, A. A Case of New Onset Focal Complex Status Epilepticus following Cochlear Implantation in an Adult. Poster presented at American College of Physicians, North Dakota Symposium.

Stutz, Amber. MD

1. Myoclonus Dystonia. Presented at Neurology Grand round
2. Parkinson's Disease. Presented at Internal medicine teaching Conference

**PATHOLOGY**

**Total Publications: 59**

**National/International meeting:**

Invited Platform Presentation

1. Messner M, Meyers S, Kemp WL. Invited Platform Presentation A Comparison of Coronary Artery Stenosis Estimates Made by Forensic Pathologists and Medical Students. American Association of Forensic Science, Baltimore, MD
2. Hyperglycemic Glucose and Cadmium Exposure: Two Loads Too Many for the Renal Proximal Tubule. Scott Garrett. University of North Dakota, Grand Forks ND. Abstract # 1055.

Posters:

1. Germundson, D.L., Smith, N.A., Nagamoto-Combs, K. (2019) Class II human leukocyte antigen expression influences behavioral manifestations of mild food allergy in mice. Presented in October at *Society for Neuroscience Annual Meeting Abstr. 685.15*. Chicago, IL.
2. Smith, N.A., Germundson, D.L., Nagamoto-Combs, K. (2019) Anxiety-like behavior is differentially induced in C57BL/6J and BALB/cJ mice as a form of non-anaphylactic response to cow's milk allergy. Presented in October at *Society for Neuroscience Annual Meeting Abstr. 685.20*. Chicago, IL.
3. Spagnolia A and Kemp WL [Fatality While Bear Hunting: A Homicide or an Accident?](#) National Association of Medical Examiners, Kansas City, MO, 2019
4. Amoth H, Sens MA, Kemp W. *Coccidioides immitis*: A Rare Form of the Disease Process Presenting in an Even Rarer Location. National Association of Medical Examiners, Kansas City, MO, 2019
5. Hafner E, Sens M, Kemp W. Homicide-Suicide: A Homicidal Asphyxia Misinterpreted as a Gunshot Wound at the Scene. National Association of Medical Examiners, Kansas City, MO, 2019
6. Pignato M, Sens M, Kemp W. Black Esophagus: A Report of Three Cases and Review of the Literature. National Association of Medical Examiners, Kansas City, MO, 2019

7. Prolonged Exposure to Sodium Arsenite Initiates Epithelial-Mesenchymal Transition in Human Renal Proximal Tubule Epithelial Cells (RPTEC/hTERT). A. Slusser, L. Fleming, S. Somji, D. Sens, and S. Garrett. University of North Dakota, Grand Forks, ND. Abstract # 2320.
8. Enrichment of Genes Associated with Squamous Differentiation in Cancer-Initiating Cells Isolated from Arsenite Transformed UROtsa Cell Lines. Z. Hoggarth, A. Slusser-Nore, D. Osowski, S. Garrett, D. Sens, and S. Somji. University of North Dakota, Grand Forks, ND. Abstract # 2321.
9. The CD24+CD133+ Cells Isolated from Human Proximal Tubules Have Proliferative and Regenerative Potential in Response to Insult by the Environmental Toxicant Cadmium.S. Shrestha, S. Garrett, X. Zhou, D. Sens, and S. Somji. University of North Dakota, Grand Forks, ND. Abstract # 2336.
10. Differential Gene Expression Patterns in Subcutaneous and Intra-peritoneal Tumors Produced by Urotsa Cells Malignantly Transformed by Cadmium and Arsenite.A. Nelson, Z. Hoggarth, X. Zhou, S. Garrett, D. Sens, and S. Somji. University of North Dakota, Grand Forks, ND. Abstract # 2335.
11. SPARC Expression at Tumor Initiation and after Tumor Formation in a Bladder Urothelial Carcinoma Model System.E. R. Biggane, S. Somji, S. H. Garrett, D. A. Sens, X. Zhou, A. Nore, and J. R. Dunlevy. University of North Dakota, Grand Forks, ND. Abstract # 2339.

### **Regional/Institutional:**

#### **Invited Platform**

1. Brunner, M.N., Smith N.A., Germundson, D.L., Nagamoto-Combs, K. (2019) Altered neuronal activity of the auditory cortex in the mouse model of milk allergy. Frank Low Research Day Poster Session, University of North Dakota School of Medicine & Health Sciences, Grand Forks, ND.

#### **Posters (only counted once; several were presented at several events, 1) UND Summer Undergraduate institute; 2) Annual ND INBRE Research Symposium, Oct 2019; 3) Frank Low Research Day; 4) IDeA Central regional conference, Oklahoma City, OK**

1. Brunner, M.N., Smith N.A., Germundson, D.L., Nagamoto-Combs, K. (2019) Altered neuronal activity of the auditory cortex in the mouse model of milk allergy. Frank Low Research Day Poster Session, University of North Dakota School of Medicine & Health Sciences, Grand Forks, ND.
2. Smith, N.A, Germundson, D.L, Nagamoto-Combs, K. (2019) Allergic challenge induces differential behavioral responses based on genetic background in mice. Host-Pathogen COBRE Annual Symposium Poster Session. University of North Dakota School of Medicine & Health Sciences, Grand Forks, ND.
3. Germundson, D.L, Vendsel, L.P., Nagamoto-Combs, K. (2019) Central Nervous System and Intestinal Histamine Receptor Increases and Gut Tight Junction Protein Modifications in a Milk Allergy Mouse Model Host-Pathogen COBRE Annual Symposium Poster Session. University of North Dakota School of Medicine & Health Sciences, Grand Forks, ND.
4. Germundson, D.L, Smith N.A., Nagamoto-Combs, K. (2019) HLA specific clinical and behavioral responses in a transgenic mouse model of cow's milk allergy. Oral presentations at IDeA Central Region Conference, Oklahoma City, OK, North Dakota Academy of Science, and Frank Low Research Day, Grand Forks, ND, and poster presentation at UND Graduate Student Day Poster Session. University of North Dakota, Grand Forks, ND.

5. Bergum N, Kalonick M, Shrestha S, Somji S (2019) Arsenic-induced Luminal to Basal Cancer Subtype Transformation. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019 (Poster and Oral Presentation)
6. Blommel KG, Kalonick KJ, Shrestha S, Somji S (2019) Effect of Arsenite on Expression of FOXA1, SNAI1, and CDH-2 and the Luminal to Basal Transition in the NMIBC HTB-2 Cell Line. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
7. Breen SW, Guyer RE, Shrestha S, Garrett SH (2019) Lysosomal Gene Expression in Hyperglycemic Proximal Tubule Cells. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
8. Dwumfour S, Guyer R, Pathak P, Shrestha S, Garrett S (2019) Expression of LIPA, VPS41, TPP1 and TXNIP in hyperglycemic in-vitro HPT cells. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
9. Knudsen CS, Kalonick KJ, Pathak P, Shrestha S, Somji S (2019) Gene expression of GATA3 VIM & SLUG in short and long term As<sup>3+</sup> exposure to HTB-2 cells. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
10. Knutson P, Kalonick KJ, Pathak P, Shrestha S, Somji S (2019) FABP4, KRT6A, 6B, 6C and EGFR Expression in Arsenic Exposed HTB-2 Cells. UND SMHS Summer Undergraduate Research Symposium, Aug 2019. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
11. Kochanowski JL, Guyer R, Shrestha S, Garrett S (2019) Expression of RRAGC, PSAP, and FNBP1 in Human Proximal Tubule Cells Exposed to High Levels of Glucose. UND SMHS Summer Undergraduate Research Symposium, Aug 2019. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
12. Moe NJ, Guyer R, Pathak P, Shrestha S, Garrett S (2019) EGFR, LDLR, mTOR, and AKR1B10 Expression in HPT cells when Exposed to High Glucose Levels. UND SMHS Summer Undergraduate Research Symposium, Aug 2019. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
13. Nobuki Hida, Guyer R, Shrestha S, Garrett S (2019) Expression of CLCN7, FYCO1, and LGMN in Renal Proximal Tubule. UND SMHS Summer Undergraduate Research Symposium, Aug 2019. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
14. Ridgley MD, Guyer R, Shrestha S, Garrett S (2019) NPC, NEU1, CTNS expression and localization in glucose exposed Human Proximal Tubule (HPT) Cell line. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
15. Suk E, Kalonick KJ, Pathak P, Shrestha S, Somji S (2019) Effect of Arsenic Exposure on Expression Levels of FGFR3,  $\alpha$  - SMA, and TWIST in HTB-2 Cells. UND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
16. Volkert A, Guyer R, Kalonick M, Shrestha S, Garrett S (2019) Expression of HEXB, RRAGD, and SQSTM1 in glucose exposed human proximal tubule cells. ND SMHS Summer Undergraduate Research Symposium, Aug 2019 Annual ND INBRE Undergraduate Research Symposium, Oct 2019
17. Wegner K, Pathak P, Somji S, Shrestha S, Garrett S (2019) Metallothionein expression for TERT1 cells in conditioned and unconditioned media and HTB-2 cells exposed to cadmium and arsenic. ND SMHS Summer Undergraduate Research Symposium, Aug 2019. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
18. Germundson DL, Smith NA, Nagamoto-Combs K (2019) HLA-II transgenic mice demonstrate sex and haplotype dependent behavioral responses after allergic sensitization to cow's milk protein. Annual ND INBRE Undergraduate Research Symposium, Oct 2019.

19. Guyer RE, Corum NJ, Nelson AE, Garrett SH, Slusser-Nore A, Shrestha S (2019) CD24+ RPTEC/TERT1 Cells in the Context of Acute and Chronic Cadmium Exposure. Annual ND INBRE Undergraduate Research Symposium, Oct 2019.
20. Kalonick MJ, Corum NJ, Nelson AE, Garrett SH, Slusser-Nore A (2019) CD44 variant 4 (CD44s) expression and localization in 4.5uM transformed TERT cells. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
21. Pathak P, Slusser Nore A, Hoggarth Z, Nelson A, Somji S(2019) Expression of potential bladder cancer stem cell markers in As3+ and Cd2+ transformed UROtsa cell lines and urosphere. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
22. Berning WP, Smith NA, Germundson DL, Nagamoto-Combs K (2019) Decreased Neural Activity in the Auditory Cortex Associated with Behavioral Abnormality in a Mouse Model of Cow's Milk Allergy UND SMHS Summer Undergraduate Research Symposium, Aug 2019 North Dakota INBRE Annual Symposium Poster Session, University of North Dakota, Grand Forks, ND.
23. Thomas A, Cisek K, O'Shea L, Sens DA, Doze V (2019) Implementing Bio-Rad Labs and Meeting State Teaching Standards as a High School Science Teacher. 7<sup>th</sup> Annual North Dakota Tribal College Research Symposium, March 2019
24. Smith NA, Germundson DL, Nagamoto-Combs K (2019) Astrogliosis and dysbiosis associated with behavioral abnormality in a non-anaphylactic mouse model of cow's milk allergy. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
25. Biggane E, Somji S, Garrett SH, Sens DA, Zhou X, Nore A, Dunlevy J. (2019) SPARC Expression at Tumor Initiation and After Tumor Formation in a Bladder Urothelial Carcinoma Model System. 7<sup>th</sup> Annual North Dakota Tribal College Research Symposium, March 2019
26. Smith NA, Germundson DL, Nagamoto-Combs K (2019) Differential Behavior Response in C57BL/6 and BALB/c Mice Induced by Food Allergy. 7<sup>th</sup> Annual North Dakota Tribal College Research Symposium, March 2019
27. Mehus AA, Garrett SH, Sens DA, Seema S (2019) Expression patterns of basal and luminal markers in the As3+-transformed urothelial UROtsa cell line treated with Troglitazone. Annual ND INBRE Undergraduate Research Symposium, Oct 2019
28. Shrestha S, Garrett SH, Zhou X, Sens DA, Somji S (2019). CD133+CD24+ cells isolated from the human proximal tubules have proliferative and regenerative potential in response to insult by the environmental toxicant cadmium. Annual ND INBRE Undergraduate Research Symposium, Oct 2019. 7<sup>th</sup> Annual North Dakota Tribal College Research Symposium, March 2019
29. Zheng Y, Zhou X, Oancea SC, Sens MA (2019) The NDSCR Provides Training to Certified Tumor Registrars. Annual ND INBRE Undergraduate Research Symposium, Oct 2019

### **Manuscripts**

1. Zachary E Hoggarth , Danyelle B Osowski , Andrea Slusser-Nore, Swojani Shrestha, Prakash Pathak, Theoren Solseng , Scott H Garrett , Divyen H Patel , Evan Savage , Donald A Sens, Seema Somji. Enrichment of Genes Associated With Squamous Differentiation in Cancer Initiating Cells Isolated From Urothelial Cells Transformed by the Environmental Toxicant Arsenite. *Toxicol Appl Pharmacol.* , 374, 41-52 2019 Jul 1
2. Swojani Shrestha, Scott H Garrett, Donald A Sens, Xu Dong Zhou , Rachel Guyer 5, Seema Somji 6 Characterization and Determination of Cadmium Resistance of CD133 +/CD24 + and CD133 -/CD24 + Cells Isolated From the Immortalized Human Proximal Tubule Cell Line, RPTEC/TERT1. *Toxicol Appl Pharmacol* 375, 5-16 2019 Jul 15

3. Kemp WL, Koponen M, Sens MA. Forensic Autopsy Experience and Core Entrustable Professional Activities: A Structured Introduction to Autopsy Pathology for Preclinical Student. *Acad Pathol*. 2019 Mar 5;6. eCollection 2019 Jan-Dec.
4. Richard D Goldstein, Peter S Blair, Mary Ann Sens, Carrie K Shapiro-Mendoza, Henry F Krous, Torleiv O Rognum, Rachel Y Moon, 3rd International Congress on Sudden Infant and Child Death. Inconsistent Classification of Unexplained Sudden Deaths in Infants and Children Hinders Surveillance, Prevention and Research: Recommendations From The 3rd International Congress on Sudden Infant and Child Death *Forensic Sci Med Pathol* 15 (4), 622-628 Dec 2019
5. Carri Cottengim, Sharyn Parks, Dale Rhoda, Tom Andrew, Kurt B Nolte, John Fudenberg, Mary Ann Sens, Jennifer Brustrom, Betsy Payn, Carrie K Shapiro-Mendoza. Protocols, Practices, and Needs for Investigating Sudden Unexpected Infant Deaths *Forensic Sci Med Pathol* 2019 Nov 18
6. Manocha GD, et al. *Neurobiol Aging* 2019. Among authors: Combs CK, Nagamoto-Combs K. Temporal progression of Alzheimer's disease in brains and intestines of transgenic mice *Neurobiol Aging*, 81, 166-176 Sep 2019
7. Nicholas A Smith 1, Danielle L Germundson, Colin K Combs, Lane P Vendsel, Kumi Nagamoto-Combs. Astrogliosis Associated With Behavioral Abnormality in a Non-anaphylactic Mouse Model of Cow's Milk Allergy. Smith NA, et al. *Front Cell Neurosci* 2019.
8. Deland Weyrauch, Walter L Kemp, Mark Koponen. Right Ventricle Rupture After Open Heart Surgery *Am J Forensic Med Pathol* 2019.
9. Spagnolia A and Kemp WL Fatality While Bear Hunting: A Homicide or an Accident? . *Am J Forensic Med Pathol* 2019. PMID 30807298
10. Jessica Schweigert, Rylee Christian, Walter L Kemp. Challenges in the Diagnosis of a Posterior Lingual Abscess, a Potential Lethal Disorder: A Case Report and Review of the Literature. *Am J Forensic Med Pathol* 2019 Nov 7[Online ahead of print]
11. Mitchell Messner, Sarah E Meyers, Walter L Kemp. A Comparison of Coronary Artery Stenosis Estimates Made by Forensic Pathologists and Medical Students. *J Forensic Sci* 2019 Sep 17[Online ahead of print]
12. Ablation of amyloid precursor protein increases insulin-degrading enzyme levels and activity in brain and peripheral tissues. Kulas JA, Franklin WF, Smith NA, Manocha GD, Puig KL, Nagamoto-Combs K, Hendrix RD, Taglialatela G, Barger SW, Combs CK. *Am J Physiol Endocrinol Metab*. 2019 Jan 1;316(1):E106-E120. doi: 10.1152/ajpendo.00279.2018. Epub 2018 Nov 13. Erratum in: *Am J Physiol Endocrinol Metab*. 2019 Feb 1;316(2):E345. PMID: 30422705
13. Racial Differences in the Association between Luminal Master Regulator Gene Expression Levels and Breast Cancer Survival. Jung S Byun\*, Sandeep Singhal\*, Samson Park, Dae Ik Yi, Tingfen Yan, Ambar Caban, Alana Jones, Partha Mukhopadhyay, Sara M Gil, Stephen M. Hewitt, Lisa Newman, Melissa B. Davis, Brittany D Jenkins, Jorge L Sepulveda, Adriana De Siervi, Anna María Nápoles, Nasreen A Vohra and Kevin Gardner DOI: 10.1158/1078-0432.CCR-19-0875.

14. Hughes R, Kemp W. Contained myocardial rupture. Accepted for publication (Acad Forensic Pathol) May 2019.
15. Hughes R. Fatal combination of mitragynine and quetiapine – a case report with discussion of a potential herb-drug interaction. *Forensic Sci, Med and Pathol* 2019;15(1):110-3.
16. Hughes R. A fatal case of acute renal failure from envenoming syndrome after massive bee attack: a case report and literature review. *Am J Forensic Med Pathol* 2019;40(1):52-7.

## **PEDIATRICS**

**Total Publications: 13**

### **Larry Burd, Ph.D., Professor of Pediatrics**

1. Greenmyer JR, Popova S, Klug MG, Burd L. Fetal alcohol spectrum disorder: A systematic review of the cost of and savings from prevention in the United States and Canada. *Addiction*. 2019 (epub ahead of print).
2. Burd L, Edwards W. Fetal alcohol spectrum disorders: Implications for attorneys and the courts. *Criminal Justice*. 21-28, 2019 (Fall).
3. Popova S, Dozet D, Burd L, Rehm J. Alcohol industry-funded websites contribute to ambiguity regarding the harmful effects of alcohol consumption during pregnancy: A commentary on Lim et al. (2019). *J Studies Alcohol and Drugs*. 80(5):534-536, 2019 (Sept.).
4. Shuffrey LC, Myers MM, Odendaal HJ, Elliott AJ, Du Plessis C, Groenewald C, Burd L, Angal J, Nugent JD, Isler JR, Fifer WP for the PASS Network. Fetal heart rate, heart rate variability, and heart rate/movement coupling in the Safe Passage Study. *Journal of Perinatology*. 39(5):608-618, 2019, May 4.
5. Popova S, Burd L. Fetal alcohol spectrum disorders: Fixing our aim to aim for the fix. *Int J of Environ Res Public Health*. 16:3978, 2019.
6. Popova, S. Lange, S., Shield, K., Burd, L, Rehm, J. Prevalence of fetal alcohol spectrum disorder among special subpopulations: A systematic review and meta-analysis. *Addiction*.114:1150-1172, 2019
7. Schaff E, Moreno M, Foster K, Klug MG, Burd L. What do we know about prevalence and management of intoxicated women during labor and delivery? *Global Pediatric Health*. 6:1-8, 2019.
8. Kambeitz C, Klug MG, Greenmyer J, Popova S, Burd L. Association of adverse childhood experiences and neurodevelopmental disorders in people with fetal alcohol spectrum disorders (FASD) and non-FASD controls. *BMC Pediatrics*. 19:498, 2019.

Book Chapters

1. Burd L, Burd M, Klug MG, Kerbeshian J, Popova S. Comorbidity and intellectual disability. Pages 121-137. In: Matson J. (ed). Handbook of intellectual disabilities. Autism and child psychopathology series. Springer, Cham. Springer Nature Switzerland AG 2019.

**Kari Casas, M.D., Clinical Associate Professor of Pediatrics**

1. van Vliet D, van Wegberg AMJ, Ahring K, Bik-Multanowski M, Casas K, Didycz B, Djordjevic M, Hertecant JL, Leuzzi V, Mathisen P, Nardecchia F, Powell KK, Rutsch F, Stojiljkovic M, Trefz FK, Usurelu N, Wilson C, van Karnebeek CD, Hanley WB, van Spronsen FJ. 2019. Untreated PKU patients without intellectual disability: What do they teach us? *Nutrients* 11:2572.

**Parag Kumar, M.D., Clinical Professor of Pediatrics**

1. Kristen K. Stenehjem, Jessica Schweigert, Parag Kumar. Atypical Presentation of Viral Gastroenteritis in a Three-year-old Child Due to a UNC80 Mutation. *Cureus*. 2019 Apr; 11(4): e4395. Published online 2019 Apr 5. doi: 10.7759/cureus.4395

**Nabeel Manzar, M.D., Clinical Assistant Professor of Pediatrics**

1. Manzar N, **Almuqamam M, Kaushik K.** Et al. Primary non-typhoidal Salmonella infection presenting as a splenic abscess in a healthy adolescent male. ***Infec Med.*** 2019 Mar 1;27(1):77-81.

**Stephen McDonough, M.D., Clinical Associate Professor of Pediatrics**

1. Berry, Susan; University of Minnesota, Pediatrics; Brown, Christine; National PKU Alliance, Executive Director; Greene, Carol; University of Maryland, Clinical Genetics / Pediatrics; Camp, Kathryn; National Institutes of Health, Office of Dietary; McDonough, Stephen; Independent Doctors, Pediatrics; Bocchini, Joseph; LSUHSC-Shreveport, Pediatrics; Medical Foods for Inborn Errors of Metabolism: The Critical Need to Improve Patient Access; Pediatrics Manuscript ID 2019-2261

**POPULATION HEALTH**

**Total Publications: 20**

**Kim Becker**

1. **Becker, K.** (2019). Graduate students' experiences of plagiarism by their professors. *Higher Education Quarterly*. 2019; 73(2): 251-265.

**Marilyn Klug**

1. Kambeitz C, **Klug MG**, Greenmyer J, Popova S, Burd L. Association of adverse childhood experiences and neurodevelopmental disorders in people with fetal alcohol spectrum disorders (FASD) and non-FASD controls. *BMC Pediatr*. 2019 Dec 16;19(1):498.
2. Schaff E, Moreno M, Foster K, **Klug MG**, Burd L. What Do We Know About Prevalence and Management of Intoxicated Women During Labor and Delivery? *Glob Pediatr Health*. 2019 Dec 11; 6:23. eCollection 2019. Review.
3. Hanson DJ, Stutz-Tanenbaum P, Rogers O, Turner T, Graves C, **Klug MG**. Collaborative Fieldwork Supervision: A Process Model for Program Effectiveness. *American Journal of Educational Research*, 2019, Vol. 7, No. 11: 837-844.
4. Greenmyer JR, Popova S, **Klug MG**, Burd L. Fetal alcohol spectrum disorder: a systematic review of the cost of and savings from prevention in the United States and Canada *Addiction*. 2019 Oct 19. [Epub ahead of print] Review.
5. Schwartz GG, **Klug MG**. Thyroid Cancer Incidence Rates in North Dakota are Associated with Land and Water Use *Int J Environ Res Public Health*. 2019 Oct 10; 16(20).
6. Schwartz GG, **Klug MG**, Rundquist BC. An exploration of colorectal cancer incidence rates in North Dakota, USA, via structural equation modeling. *Int J Colorectal Dis*. 2019 Sep; 34(9):1571-1576.

#### S. Cristina Oancea

9. **Oancea SC\***, Watson IW\*. Does health plan type influence receipt of an annual influenza vaccination? *Journal of Epidemiology and Community Health*. 2020. 74(1): 57-63. doi:10.1136/jech-2019-212488. (\* joint first author)
10. **Oancea SC**, Watson IW. The association between history of screening for cancer and receipt of an annual flu vaccination: Are there reinforcing effects of prevention seeking? *American Journal of Infection Control*. 2019; 47(11):1309-13. doi:10.1016/j.ajic.2019.05.009
11. **Oancea SC\***, de Oliveira GD\*, Nucci LB, Vogeltanz-Holm N. The association between obesity and self-reported current depression among adult cancer survivors residing in Brazil. *International Health*. 2019. 11(6):580-8. doi:10.1093/inthealth/ihz027 (\* joint first author)

#### Jacque Gray

1. Iyengar, V., Beatty, P.W., Boel, M., Crockett, C., DiCocco, C., Fink, D., **Gray, J.S.**, LaCounte, C., Link, G., Miller, A.C., Phillippi, M., Skowronski, S., Twomey, M.S., & Williams, T. (2019). Traumatic events in the nonveteran older adults: Experiences, impacts, and the Federal response. Discussion Paper, National Academy of Medicine, Washington, DC. <https://nam.edu/trauma-caused-by-injury-or-abuse-in-late-life-experiences-impacts-and-the-federal-response/>.

2. Stanley, I. H., Hom, M. A., Gallyer, A. J., **Gray, J. S.**, & Joiner, T. E. (2019). Suicidal behaviors among American Indian/Alaska Native firefighters: Evidence for the role of painful and provocative events. *Transcultural Psychiatry* 0(0):1-21. DOI: 10.1177/1363461519847812
3. **Gray, J.S.**, Schrader, L., Isaacs, D.S., Smith, M.K., & Bender, N. (2019) Wa'cinyeya: Hope Among American Indian Youth. *Journal of American Indian and Alaska Native Mental Health Research*, 26(2): 151-171. <http://dx.doi.org/10.5820/aian.2602.2019.151>
4. **Gray, J.S.**, Isaacs, D.S., & Wheeler, M.J. (2019). Culture, Resilience, and Indigenist Feminism to Help Native American Girls Thrive (pp 43-78). In *Thrive: Multicultural Feminist Therapy with Adolescent Girls of Color*. Washington, D.C.: American Psychological Association Press. <http://dx.doi.org/10.1037/0000140-000>

### Gary Schwartz

1. Robsahm T, Tretli S, Torjeson PA, Babigumira R, **Schwartz GG**. Serum 25-Hydroxyvitamin D levels predict cancer survival: A prospective cohort with measurements prior to and at the time of cancer diagnosis. *Clinical Epidemiology* 2019, 11:695-705.
2. **Schwartz GG**, Klug MG, Rundquist BC. An exploration of colorectal cancer incidence rates in North Dakota, U.S.A., via structural equation modeling. *International Journal of Colorectal Disease*, 2019. <https://doi.org/10.007/s00384-019-03352-9>. Published online July 16, 2019.
3. Schwartz GG, Klug MG. Thyroid cancer incidence rates in North Dakota are associated with land and water use. *International Journal of Environmental Research and Public Health*, 2019, 16: 3805; doi:10.3390/ijerph16203805. Published Online October 10, 2019.
4. Zhang C, **Schwartz GG**. In Memoriam of Dr. Carol Hanchette. *International Journal of Applied Geospatial Research* 2019,10:59-60.

### Andrew Williams

1. **Williams, A.D.**, Messer, L., Kanner, J., Ha, S., Grantz, K. & Mendola, P. "Ethnic enclaves and pregnancy and behavior outcomes among Asian/Pacific Islanders in the United States." *Journal of Racial and Ethnic Health Disparities* 2019, <https://doi.org/10.1007/s40615-019-00650-4>
2. ^Seeni, I., **Williams, A.D.**, Nobles, C., Chen, Z., Sherman, S., Mendola, P., "Acute air pollution exposure and NICU admission: a case-crossover analysis." *Annals of Epidemiology*, September 2019, Volume 37. 64-70.e2. <https://doi.org/10.1016/j.annepidem.2019.07.008>

### Psychiatry

**Total Publications: 58**

### Andrew McLean

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#### **Jon Ulven**

1. Dybsand, L., Hall, K.J., Ulven, J. Improving Provider Confidence in Addressing the Vaccine-Hesitant Parent: A Pilot Project of 2 Contrasting Communication Strategies. *SAGE Journals*. 87-91, 2019.

#### **Ross Crosby**

1. Kerrigan, S.G., Forman, E.F., Patel, M., Williams, D., Zhang, F., Crosby, R.D., & Butryn, M.L. Evaluating the feasibility, acceptability, and effects of deposit contracts with and without daily feedback to promote physical activity. *Journal of Physical Activity and Health*, 2019, Nov. 6, 1-8. PMID: 31698334
2. Pacanowski, C.R., Crosby, R.D. & Grilo, C.M. Self-weighting behavior in individuals with binge-eating disorder. *Eating Disorders: The Journal of Prevention and Treatment*, 2019, November 1, 1-8. PMID: 31675284
3. Grilo, C.M., Crosby, R.D. & Machado, P.P.P. Examining the distinctiveness of body image concerns in patients with anorexia nervosa and bulimia nervosa. *International Journal of Eating Disorders*, 2019, 52, 1229-1236. PMID: 31486125
4. Barakat, S., Smith, K., Mason, T., Maguire, S., Crosby, R.D. & Touyz, S. Evaluating the role of digital intervention in treatment outcomes and adherence to eTherapy programs for eating disorders: A systematic review and meta-analysis. *International Journal of Eating Disorders*, 2019, 51(10), 1077-1094. PMID: 31328815
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clinical neuroscience through enhanced tools: Pediatric social anxiety as an example. *Depression and Anxiety*, 2019, 36(8), 701-711. PMID: 31373756

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12. Forman, E.M., Manasse, S.M., Butryn, M.L., Crosby, R.D., Dallal, D.H., & Crochiere, R.J. Long-term follow-up of the Mind Your Health Project: Acceptance-based versus standard behavioral treatment for obesity. *Obesity*, 2019, 27(4), 565-571. PMID: 30806492
13. Hernández, C., Ottenberger, D.R., Moessner, M., Crosby, R.D. & Ditzen, B. Depressed and swiping my problems for later: The moderation effect between procrastination and depressive symptomatology on internet addiction. *Computers in Human Behavior*, 2019, 97, 1-9.
14. Lebow, J., Sim, L., Crosby, R.D., Goldschmidt, A.B., Le Grange, D. & Accurso, E.C. Weight gain trajectories during outpatient family-based treatment for adolescents with anorexia nervosa. *International Journal of Eating Disorders*, 2019, 52(1), 88-94. PMID: 30578648
15. Hilbert, A., Herpertz, S., Zipfel, S., Tuschen-Caffier, B., Friedrich, H.C., Mayr, A., Crosby, R.D. & de Zwaan, M. Early change trajectories in cognitive-behavioral therapy for binge-eating disorder. *Behavior Therapy*, 2019, 50(1), 115-125. PMID: 30661552
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20. Mason, T. B., Pacanowski, C. R., Lavender, J. M., Crosby, R. D., Wonderlich, S. A., Engel, S. G., Mitchell, J. E., Crow, S. J., & Peterson, C. B. Evaluating the ecological validity of the Dutch Eating Behavior Questionnaire among obese adults using ecological momentary assessment. *Assessment*, 2019, 26(5), 907-914. PMID: 28703009
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#### **Karl Nelson**

1. Oehlert, M. E., Nelson, K. G., King, N., Reis, D. J., Sumerall, S., Neal, C., & Henry, P. (2019). Measurement-based care: Use of the Beck Anxiety Inventory (BAI) in a veteran population. *Psychological Services*. doi:10.1037/ser0000372
2. Justice, N. M., Tupy, S. J., Malevich, C., & Nelson, K. (2019). *Local norms of the MMPI-2-RF for compensation seeking veterans*. Poster presented at the American Psychological Association annual convention in Chicago, Illinois

#### **Kathryn Smith**

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3. Smith, K. E., Mason, T. B., Juarascio, A., Schaefer, L. M., Crosby, R. D., Engel, S. G., & Wonderlich, S. A. (2019). Moving beyond self-report data collection in the natural environment: A review of the past and future directions for ambulatory assessment in eating disorders. *International Journal of Eating Disorders*, 52(10), 1157-1175. <https://doi.org/10.1002/eat.23124>
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5. Mason, T. B., Smith, K. E., Crosby, R. D., Engel, S. G., & Wonderlich, S. A. (2019). Examination of momentary maintenance factors and eating disorder behaviors and cognitions using ecological momentary assessment. *Eating Disorders: Journal of Treatment and Prevention*, 1-14.

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7. Smith, K. E., Mason, T. B., Crosby, R. D., Engel, S. G., & Wonderlich, S. A. (2019). A multimodal, naturalistic investigation of relationships between behavioral impulsivity, affect, and binge eating. *Appetite*, 136, 50-57. <https://doi.org/10.1016/j.appet.2019.01.014>
8. Smith, K. E., Mason, T. B., Anderson, N. L., & Lavender, J. M. (2019). Unpacking cognitive emotion regulation in eating disorder psychopathology: The differential relationships between rumination, thought suppression, and eating disorder symptoms among men and women. *Eating Behaviors*, 32, 95-100. <https://doi.org/10.1016/j.eatbeh.2019.01.003>
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### **Rodney Swenson**

1. Emrani, S., Wasserman, V., Matusz, E., Miller, D., Lamar, M., Price, C.C., Ginsberg, T.B., Au, R., Swenson, R., & Libon, D.J. Visual versus Verbal Working Memory in Statistically Determined Patients with Mild Cognitive Impairment: On behalf of the Consortium for Clinical and Epidemiological Neuropsychological Data Analysis. (2019). *Journal of the International Neuropsychological Society*, 1-10. doi:10.1017/S1355617719000808
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### **James Roerig**

1. Roerig JL. Clozapine augmentation strategies. *Ment Health Clin*. Nov 27;9(6):336-348. doi: 10.9740/mhc.2019.11.336. eCollection 2019 Nov.

2. Singh B, Hughes AJ, Roerig JL. Comfort Level and Barriers to the Appropriate Use of Clozapine: a Preliminary Survey of US Psychiatric Residents. *Acad Psychiatry*. Nov 11. doi: 10.1007/s40596-019-01134-7. 2019 [Epub ahead of print]

### **Stephen Wonderlich**

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3. Smith KE, Mason TB, Juarascio A, Schaefer LM, Crosby RD, Engel SG, Wonderlich SA. "Moving beyond self-report data collection in the natural environment: A review of the past and future directions for ambulatory assessment in eating disorders." *Int J Eat Disord*. 52(10):1157-1175, 2019.
4. Mason TB, Smith KE, Crosby RD, Engel SG, Wonderlich SA. "Examination of momentary maintenance factors and eating disorder behaviors and cognitions using ecological momentary assessment." *Eat Disord*. 11:1-14, 2019.
5. Pisetsky EM, Schaefer LM, Wonderlich SA, Peterson CB. "Emerging Psychological Treatments in Eating Disorders." *Psychiatr Clin North Am*. 42(2):219-229, 2019.
6. Mason TB, Pacanowski CR, Lavender JM, Crosby RD, Wonderlich SA, Engel SG, Mitchell JE, Crow SJ, Peterson CB. "Evaluating the ecological validity of the Dutch Eating Behavior Questionnaire among obese adults using ecological momentary assessment." *Assessment*. 26(5):907-914, 2019.
7. Smith KE, Mason TB, Schaefer LM, Juarascio A, Dvorak R, Weinbach N, Crosby RD, Wonderlich SA. Examining intra-individual variability in food-related inhibitory control and negative affect as predictors of binge eating using ecological momentary assessment." *J Psychiatr Res*. 26;120:137-143, 2019.

### **Book Chapter**

1. Brewerton TD, Trottier K, Trim T, Myers T, Wonderlich S. "Integrating Evidence-Based Treatments for Eating Disorder Patients with Comorbid PTSD and Trauma-related Disorders." In Tortolani C, Goldschmidt A, and Le Grange D (Eds.) *Adapting Evidence-Based Treatments for Eating Disorders for Novel Populations and Settings: A Practical Guide*. New York, NY: Routledge Publishers, 2019.

### **Nancy Vogeltanz-Holm**

1. Dias de Oliveira G, Oancea SC, Nucci LB, Vogeltanz-Holm N. The association between obesity and self-reported current depression among adult cancer survivors residing in Brazil. *International Health*. 2019 Nov 13;11(6):580-588. doi: 10.1093/inthealth/ihz027. PubMed PMID: 31294775

### **Amanda Brooks**

1. Mulinti P, Hasan R, Quadir M, and Brooks AE. "Synthesis and Evaluation of Novel Heparin Binding Functionalized Modified Spider Silk Coating for Catheter Providing Dual Antimicrobial and Anticoagulant Properties", *Acta Biomaterialia*, In Process. 2019.
2. Shreffler J, Steffen K, Thompson M, Fouladi F, Brooks AE. "The Effect Of Vsl#3 Probiotic On Weight Profiles And Gut Flora In Mice Colonized With Human Microbiome" *Journal of Biomedical Instrumentation*. In Process. 2019.
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5. Fouladi F, Brooks AE, Fodor AA, Carroll IM, Bulik-Sullivan EC, Tsilimigras MCB, Sioda M, and Steffen KJ. "The Role of the Gut Microbiota in Sustained Weight Loss Following Roux-en-Y Gastric Bypass Surgery." *Obes. Surg.* <https://doi.org/10.1007/s11695-018-03653-y>, 2019.

#### **Sharon Wilsnack**

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2. Nayak, M.B., Patterson, D., Wilsnack, S.C., Karriker-Jaffe, K.J., & Greenfield, T. K. (2019). Alcohol's secondhand harms in the U.S.: New data on prevalence and risk factors. *Journal of Studies on Alcohol and Drugs*, 80(3), 273-281.
3. Laslett, A.-M., Stanesby, O., Wilsnack, S., Room, R., & Greenfield, T. (2019). Cross-national comparisons and correlates of harms from the drinking of people with whom you work (2019). *Alcoholism: Clinical and Experimental Research*, <https://doi.org/10.1111/acer.14223>
4. Grittner, U., Wilsnack, S., Kuntsche, S., Greenfield, T. K., Wilsnack, R., Kristjanson, A., & Bloomfield, K. (2019). A multilevel analysis of regional and gender differences in the drinking behavior of 23 countries. *Substance Use & Misuse*, <https://www.tandfonline.com/doi/full/10.1080/10826084.2019>.

#### **Richard Wilsnack**

1. Grittner, U., Wilsnack, S., Kuntsche, S., Greenfield, T. K., Wilsnack, R., Kristjanson, A., & Bloomfield, K. (2019). A multilevel analysis of regional and gender differences in the drinking behavior of 23 countries. *Substance Use & Misuse*, <https://www.tandfonline.com/doi/full/10.1080/10826084.2019>.

## **SURGERY**

### **Total Publications: 23**

1. Dyke CM, Benz CL, Taggart CM, Klug MG, Basson MD. Systolic and diastolic blood pressure variability as risk factors for adverse events after coronary artery bypass grafting. *JAMA Surgery*. 154(1):92-94, 2019.
2. Lancaster I, Basson MD. What skills do clinical evaluators value most in oral case presentations? *Teaching and Learning in Medicine*. 31(2):129-135, 2019.
3. Basson MD. Decision-making in colostomy closure: Acceptable vs. optimal safety and selection vs. bias. *JAMA Surgery*. 154 (3), 224-224, 2019
4. More SK, Vomhof-DeKrey EE, Basson MD. ZINC4085554 inhibits cancer cell adhesion by interfering with the interaction of Akt1 and FAK. *Oncology Letters*. 17(6):5251-5260, 2019.
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7. Pan W, Roccabianca S Basson MD, Bush T. Influences of sodium and glycosaminoglycans on skin oedema and the potential for ulceration: A finite element approach. *Royal Society Open Science*. R. Soc. open sci. 6: 182076, 2019. <http://dx.doi.org/10.1098/rsos.182076>
8. Vomhof-DeKrey EE, Lee J, Lansing J, Brown C, Darland D, Basson MD. Schlafen 3 knockout mice display gender-specific differences in weight gain, food efficiency, and expression of markers of intestinal epithelial differentiation, metabolism, and immune cell function. *PLoS ONE* 14(7): e0219267, 2019 .<https://doi.org/10.1371/journal.pone.0219267>
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11. Al-Marsoummi S, Vomhof-DeKrey E, Basson MD. Schlafen12 reduces the aggressiveness of triple negative breast cancer through post-transcriptional regulation of ZEB1 that drives stem cell differentiation. *Cellular Physiol Biochem*. 53:999-1014, 2019.

12. Dyke C, Klug M, Haldis T, Basson M. Blood pressure variability adversely affects outcomes after percutaneous coronary intervention. *J Am Coll Cardiol* 73(9):199, 2019.
13. Wang Q, More S, Vomhof-DeKrey E, Basson MD. FAK activators promote intestinal mucosal healing. *Gastroenterology* 156(6): S-65, 2019.
14. Vomhof-DeKrey E, Basson MD. Novel Population Subsets of Tcr $\beta$ HI TH17, TCR $\beta$ HI IL-10+ INKT, and CD11BHI CD103MID Dendritic Cells Expand After end-to-end or Roux-EN-Y Anastomoses. *Gastroenterology* 156(6):S-1145, 2019.
15. Vomhof-DeKrey E, Lee J, Lansing J, Brown CC, Basson MD. Schlafen 3 Knockout Mice Display Gender-Specific Differences in Weight Gain, Food Efficiency, and Expression of Markers of Intestinal Epithelial Differentiation, Metabolism, and Immune Cell Function. *Gastroenterology* 156 (6):S-963, 2019
16. Dyke C, Klug M, Haldis T, Basson M. Blood pressure variability adversely affects outcomes after percutaneous coronary intervention. *J Am Coll Cardiol.* 73(9, Suppl 1), March 2019. DOI: 10.1016/S0735-1097(19)30807-1.
17. Dixon, M, Engum, S. Pediatric Trauma System Evaluation Before and After Level 2 Verification. *American Surgeon Journal.* 1281-1287(7), November 11, 2019. PMID 31775972
18. Benz CL, Dyke, C. Predicting Outcomes in NSCLC: Staging or Biology or Both? *Journal of Investigative Surgery.* September 1, 2019. DOI: 10.1080/08941939.2019.1654048. PMID 31475850.
19. Tyler Bilden, PharmD; Katherine Benedict, MD; Jaron McMullin, MD. Intraoperative Frozen Section Analysis for the Excision of Non-Melanoma Skin Cancer: A Single-Center Experience. *The American Surgeon Journal.* 85(12):1397-1401. December 1, 2019. PMID 31908225
20. Bouton M, Marsh J. Masson's Tumor of the Breast: Rare Differential for New or Recurrent Breast Cancer. Case Report, Pathology, and Review of the Literature. *The Breast Journal Manuscript TBF-00531-2019.* September 20, 2019. DOI: 10.1111/tbj.13608. PMID 31538368
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22. Dyke C. Disparities in Secondary Prevention of Atherosclerotic Heart Disease After Coronary Artery Bypass Grafting in Northern Plains American Indians. *Health Equity.* October 2019. DOI: 10.1089/heq.2019.0030. PMID 3165939
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