

# SURGERY NEWS

Fall 2020

## Congratulations graduates!

The UND School of Medicine & Health Sciences MD Class of 2020 graduated via virtual graduation on May 16, 2020, with 15 of 75 students entering residency in general surgery or a surgical subspecialty. At the ceremony, the Department of Surgery gave its Outstanding Student in Surgery award to Shane Raza. (The department did not give out a Wayne Swenson Award on behalf of the ACS ND Chapter this year.)



### **CLASS OF 2020 Match statistics**

- Out of 75 graduating SMHS medical students, 15 (20%) matched in general surgery, anesthesiology, neurosurgery, or orthopedic surgery, otolaryngology, or urologic surgery.
  - Three of those 15 students matched into the UND General Surgery Residency Program (one transitional, one preliminary, and one categorical).
  - Finally, four of eight (50%) prior graduates matched into general surgery or anesthesiology. One of these four students was accepted for a categorical position with the UND General Surgery Residency Program.
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## Anatomy Lab begins use of Augmented Reality (AR)



Telepresence describes sensory input to and from a remote site. Augmented reality (AR) has been one form of telepresence ever since the term was coined in the early 1990s. It was meant to describe screen-mediated experiences that add information to one's surroundings rather than replacing those surroundings, as virtual reality (VR) does.

Operating rooms are becoming increasingly digital. Various screens and information sources are vying for a surgeon's attention. AR glasses have the potential to improve efficient data acquisition by the surgeon while operating.

Under the direction of Mark Jensen, M.D., FACS, Director of Surgical Anatomy, the UND Department of Surgery's AR Project began with proof-of-concept trials in the surgical anatomy lab. Initial experience has identified barriers, many of which are technical. To address these technical challenges, a partnership with the UND engineering department has been established.

The AR Project objectives will soon begin in the UND FLS lab with surgery resident participation. Validation of results in the FLS lab will direct objectives in the surgical anatomy lab. Validation in the anatomy lab will precede employment of AR glasses in the operating room by residents.

Results and outcomes of the exciting AR Project will appear in future issues of the Surgery Department Newsletter.

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## Surgical Research Colloquium and graduation and awards banquet recap



Due to complications from the COVID-19 pandemic, the 2020 Surgical Research Colloquium and Graduation and Awards

Banquet were broadcast live. Surgeons from around the region received continuing medical education (CME) credit for the Colloquium, and family and friends of our graduates celebrated virtually.

### **Surgical Colloquium Award Winners**

- **Adeseye Adekeye, M.D., Ph.D.** - first place, Surgical Residency Research
- **Cecelia Benz, M.D.** - second place, Trauma Research; second place, Residency Achievement Award
- **Lucas Holkup, M.D.** - first place, Trauma Research; honorable mention, Residency Research
- **Michael Dixon, M.D.** - second place, Trauma Research
- **David Valez, M.D.** - Best Research Poster

### **Annual Residency Department Awards**

- **Mallory Yelenich-Huss, M.D.** - David R. Antonenko Award for Resident Achievement
- **Cecelia Benz, M.D.** - second place, Residency Achievement Award

### **Graduates' Future Plans**

- Dr. Adekeye: Breast Cancer Surgery Fellowship, University of Pennsylvania, Philadelphia, Penn.
- Dr. Benz: Cardiovascular and Thoracic Surgery Fellowship, University of Texas, Galveston, Texas
- Dr. Evans: practice, Trinity Health, Minot, N.D.
- Dr. Heberer: practice, Hammond-Henry Hospital, Geneseo, Ill.
- Dr. Karen Luk: practice, Hammond-Henry Hospital, Geneseo, Ill.
- Dr. Mallory Yelenich-Huss: Breast Oncology Surgery Fellowship, Baylor University Medical Center, Dallas, Texas



Stefan Johnson, MD, FACS, Residency Program Director and graduate Mallory Yelenich-Huss, MD.



Stefan Johnson, MD, FACS, Residency Program Director and graduate Karen Luk, MD.



Stefan Johnson, MD, FACS, Residency Program Director and graduate Dustin Evans, MD.



Stefan Johnson, MD, FACS, Residency Program Director and graduate Matthew Heberer, MD.

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## Suture Clinics and Surgery Interest Group

Two suture clinics were held for first- and second-year medical students on Feb. 20 and 27. Thank you to Residency Program Director Dr. Stefan Johnson and residents Drs. Zach Staskywicz, Eric Torkelson, Erin Follman, and Matthew Heberer, who instructed 27 students.



And on April 15, 2020, the Surgery Interest Group held a special panel discussion via Zoom. The panel consisted of seven students who had matched in general surgery or a surgical subspecialty. The audience of 43 students received very good information and advice about the interview process and the resident match process. The panel members were very generous and enthusiastic. They were willing to answer questions and share additional information even after the meeting was over.

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## Faculty Publications and Presentations

### Faculty Publications

Velez, David Ray; Hustad, Leah; **Aaland, Mary; Maki, Christopher J.; Zreik, Khaled.**

"Duodenal Injury in the Dakotas: A 15-Year Review of Duodenal Injury in the Level II

Trauma Centers of North and South Dakota." *The American Surgeon* 86.4 (2020): 170–172.

Mueller, Lukas; Benz, Cecilia; **Briggs, Steven; Dyke, Cornelius.** "Complex Chest Wall Injury and Repair Complicated by Empyema." *Trauma Surgery & Acute Care Open* 5.1 (2020): e000395–.

Luk, Karen; **Aaland, Mary.** "A Call into the Distance—When Tertiary and Critical Access Centers Connect through Quality Review." *American College of Surgeons Bulletin*.

Velez, David R; **Ahmeti, Mentor.** "Clostridioides Difficile Enteritis Induced Anastomotic Rupture: A Case Report and Literature Review." *Case reports in surgery* 2020 (2020): 1–3.

Valez, David R; **Zreik, Khaled.** "Traumatic Injury in Americans Indians." Forthcoming book chapter. Cambridge Publishing.



**Basson, Mark;** Klug, Marilyn; Newman, William; **Dyke, Cornelius.** “Preoperative outpatient blood pressure variability predicts postoperative mortality, readmission and morbidity after surgery.” *The American Journal of Surgery* 220.4 (2020): 1083-1092.

## Faculty Presentations

*Note: Numerous spring and summer conferences were cancelled or postponed due to COVID-19*

**Mary Aaland, MD,** “High School Student Involvement in ‘Stop The Bleed’” – Southeast Surgical Congress

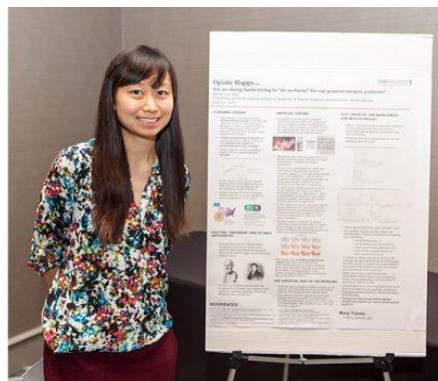
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## Resident Publications and Presentations

### Resident Publications

**Velez, David Ray;** Hustad, Leah; Aaland, Mary; Maki, Christopher J.; Zreik, Khaled. “Duodenal Injury in the Dakotas: A 15-Year Review of Duodenal Injury in the Level II

Trauma Centers of North and South Dakota.” *The American surgeon* 86.4 (2020): 170–172.



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**Valez, David R;** Zreik, Khaled. “Traumatic Injury in Americans Indians.” Forthcoming book chapter. Cambridge Publishing.

### Resident Presentations

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**Cecelia Benz, MD,** "Disparities in Thoracic Oncology" – UND Surgery Grand Rounds

**Tyler Van De Voort, MD**, "Current Anticoagulation Management in Surgical Patients" – Northern Plains Rural Surgical Society

**Max Hansen, DO**, "Credentialing midlevel providers for endoscopy and surgical procedures? Can we - Yes/Should we - No" – Northern Plains Rural Surgical Society

**Eric Curto, MD**, "Surgical Management of Cutaneous" – UND Surgery Grand Rounds

**Dustin Evans, MD**, "Rib Fractures/Chest Trauma" – Trauma Tactics Meeting

**Mallory Yelenich-Huss, MD**, "Abdominal Trauma- What's Injured?" – Trauma Tactics Meeting

**Zachery Staskywicz, MD**, case presentation – Altru Cancer Conference

**Joclyn Seiler, MD**, "OB/GYN Surgery for the General Surgeon" – UND Surgery Grand Rounds

**Tyler Van De Voort, MD**, "Guns in America: The Surgeon's Perspective" – UND Surgery Grand Rounds

**Dustin Nowotny, DO**, "Necrotizing Infection" – Sanford Health

**Mallory Yelenich-Huss, MD**, "Necrotizing Infection" – Sanford Health

**Erin Follman, MD**, "Pancreatic Neuroendocrine Tumors" – UND Surgery Grand Rounds

**Lukas Mueller, MD**, "The Indications, the Management and the Complications of the Open Abdomen" – UND Surgery Grand Rounds

**Seye Adekeye, MD**, "Immunotherapy Treatment in Pancreatic Cancer" – UND Surgery Grand Rounds

**Cecilia Benz, MD**, "Predicting Complications After Rib Fixation" – Chest Wall Summit

**Matthew Zweerink, MD**, "Carotid Artery Disease" – UND Surgery Grand Rounds

**Reid Bartholomew, MD**, "Management of open Abdomen" – UND Surgery Grand Rounds

**David Velez, MD**, "Crash Laparotomy" – UND Surgery Grand Rounds

**Mallory Yelenich-Huss, MD**, "Number of Extra Margins: Does it Affect Re-excision Rate?" – Surgical Resident Research Colloquium

**Matthew Heberer, MD**, "Thyroid Ultrasound Elastography" – Surgical Resident Research Colloquium

**Seye Adekeye, MD, PhD**, "Vaccine Based Immunotherapy for Pancreatic Cancer" – Surgical Resident Research Colloquium

**Robert Steininger, MD**, "Esophageal Adenocarcinoma Outcomes Following Therapy & Surgical Resection: A North Dakota/South Dakota Case Series" – Surgical Resident Research Colloquium

**Karen Luk, MD**, "When Tumors Collide: A Case History" – Surgical Resident Research Colloquium

**Tyler Van De Voort, MD**, "Retrospective Case Series of Robotic Colon Resections at a Community Hospital" – Surgical Resident Research Colloquium

**Cecilia Benz, MD**, "Predicting Complications After Rib Fixation?" – Surgical Resident Research Colloquium

**Michael Dixon, MD**, "Pediatric Trauma System Evaluation Before and After Level II Verification Seven Year Follow-up" – Surgical Resident Research Colloquium

**Dustin Evans, MD**, "Anastomotic Leak Rate with Temporary Abdominal Closure" – Surgical Resident Research Colloquium

**Lucas Holkup, MD**, "Impact of Integrated Palliative Care Consultation on Disposition in a Trauma Population" – Surgical Resident Research Colloquium

**Chani Taggart, DO**, "Performance Evaluation: Review of Unplanned ICU Readmissions in Trauma Patients Treated at Sanford Medical Center Fargo" – Surgical Resident Research Colloquium

**Max Hansen, DO**, "Securing Skin Sutures for Percutaneous Tracheostomy: Do We Need Them? A Prospective Randomized Controlled Trial to Evaluate the Safety Benefit of Securing Skin Sutures for Percutaneous Tracheostomy" – Surgical Resident Research Colloquium

**Matthew Cziep, MD**, "Hiatal Hernia and Gastric Volvulus: Treatment Patterns in the Rural Setting" – Surgical Resident Research Colloquium

**Lukas Mueller, MD**, "Determining the Utility of Parathyroid Imaging Modalities and Bilateral Cervical Exploration when Identifying Parathyroid Adenomas" – Surgical Resident Research Colloquium

**Erin Follman, MD**, "Outpatient Discharge After Thyroid Lobectomy: A North Dakota Surgeon's Practice" – Surgical Resident Research Colloquium

**Dustin Nowotny, DO**, "Financial Literacy and Preparedness of Trainees in UND Medical Education System" – Surgical Resident Research Colloquium

**Reid Bartholomew, MD**, "Direct Peritoneal Resuscitation Vs. Negative Pressure Therapy in the Open Abdomen Following Non-traumatic Emergency Surgery" – Surgical Resident Research Colloquium

**Eric Curto, MD**, "Management of perforated appendicitis within an Amyand's hernia: A case report" – Surgical Resident Research Colloquium

**Dana Nielsen, MD**, "The Influence of Thromboelastography on Blood Transfusions in Major Trauma: A Single Institution Retrospective Study" – Surgical Resident Research Colloquium

**Kristen Reede, MD**, "Serous Papillary Cystadenofibroma: Case Report of Rare Ovarian Tumor" – Surgical Resident Research Colloquium



**Conor Roche, MD**, "Self-Inflicted Trauma And Native Americans/American Indians: A National and Regional Analysis" – Surgical Resident Research Colloquium

**Joclyn Seiler, MD**, "Narcotic use comparison in bariatric patients undergoing laparoscopic Roux-en-Y gastric bypass receiving laparoscopic assisted transversus abdominus plane (TAP) blocks vs port site infiltration: a retrospective review" – Surgical Resident Research Colloquium

**Alessandra Spagnolia, MD**, "Radiation Induced Large Bowel Stricture & Ischemic Colitis" – Surgical Resident Research Colloquium

**Zachery Staskywicz, MD**, "Giant Sigmoid Diverticulum: A Case History" – Surgical Resident Research Colloquium

**David Velez, MD**, "Duodenal Injury in the Dakotas A 15-Year Review of Level II Trauma Centers of North and South Dakota" – Surgical Resident Research Colloquium

**Matthew Zweerink, MD**, "Retrospective Study: Carotid Endarterectomies in a Rural Hospital" – Surgical Resident Research Colloquium

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## In memoriam

The UND Department of Surgery extends our condolences to the family and friends of the following colleagues we lost recently:

**Dr. Mark Siegel**, age 71, passed away on Saturday, Oct 10, 2020, in Grand Forks. A professor of surgery at UND, Mark spent 36 years with Altru Health System. He was a gifted surgeon, diagnostician, and educator. Read Dr. Siegel's [obituary here](#).

**Dr. Wallace Kurihara**, age 75, passed away on March 20, 2020. An associate professor of surgery at UND, Wallace served in the U.S. Army Medical Corp, practicing not only in North Dakota but Oregon, Maryland, and California. Read Dr. Kurihara's [obituary here](#).