Medical Student News: Accepted abstracts, publications, presentations, and research awards

**Class of 2016**

**Sarah Ackroyd**  
Abstract & Presentation: Society of Gynecologic Oncology

**Hanna Algattas**  
Publications: World Neurosurgery (x2), Surgical Neurology International, Spine  
Presentations: American Association of Neurological Surgeons - Young Neurosurgeons Forum  
Description: Analyzed risks for postoperative venous thromboembolism and hemorrhage post-cranial and spinal surgery to stratify patients based on risk.

**Josef Bartels**  
Publication: Eloquent silences: A musical and lexical analysis of conversation between oncologists and their patients. DOI: 10.1016/j.pec.2016.04.009  
Research Award: Medical Faculty Council Travel Award in Clinical Science Research for Winter 2016

**Daniel Charen**  
Publication: Bulletin of the Hospital for Joint Diseases - Retrospective case-control study examining various parameters that may affect the development of venous thromboembolism in orthopedic surgery patients postoperatively; independent study under the supervision of Dr. Bosco at NYU - performed data collection and analysis, wrote manuscript, created poster and presented results.  
Presentation: American Orthopaedic Association Annual Meeting - Assess if participation in the American Board of Orthopedic Surgery Basic Arthroscopy Skills Module using the Fundamentals of Arthroscopic Surgical Training workstation is an adequate simulator for performing arthroscopic tasks in a virtual reality simulator; independent study under the supervision of Dr. Nicandri – wrote proposal and protocol, designed and supervised trials, wrote abstract and created poster.

**Hannah Niebulski**  
Presentation: American Academy of Family Medicine  
**Introduction:** The WHO estimates 200,000 cases of TB in Ethiopia in 2011, with a prevalence rate of 237/100,000.3 Pott's disease is common in Ethiopia resulting in severe vertebral kypho-scoliosis with respiratory insufficiency,
neurological and musculoskeletal deficits. Richard Hodes, MD in Addis Ababa, Ethiopia has arranged for corrective surgery in 200 children and young adults with end-stage spinal disease. We report the findings from a questionnaire we developed and then applied to 36 patients to evaluate their functional/psychological status from before to after surgery.

**Objective:** Assess physical/social/emotional effects of the surgery. To assess the quality of life of individuals who have undergone corrective surgery for kyphoscoliosis.

**Methods:** Interviewed patients and evaluated responses to a questionnaire regarding health, activity, pain, respiration, and emotional-state before and at >6 months after surgery.

**Results:** Subjects reported good to excellent improvement with minimal residual symptoms when compared to their pre-op status.

Lauren Roussel

Presentations, Abstracts, Publications and Research Award
American Burn Association, American Association of Plastic Surgeons/Plastic Surgery, Research Council Joint Meeting, John A. Boswick, M.D. Burn and Wound Symposium, Southern Region Burn Conference, Eastern Great Lakes Burn Association, Northeastern Society of Plastic Surgeons

Description: research projects investigated outcomes in burncare, breast reconstruction, abdominal wall reconstruction, and cleft palate/cleft lip repair.

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**Class of 2017**

Timothy Hong, Erica Lash, and Ayala Danzig

*Video submission for the American Medical Association “Turn MedEd On Its Head” Medical Student Innovation Challenge*

To view the video, please visit [https://youtu.be/R-b_rjiTcNg](https://youtu.be/R-b_rjiTcNg)


Agata Kantorowska

American Academy of Pediatrics National Conference, October 2015

*Pediatrics, March 2016, DOI: 10.1542/peds.2015-3123*

I presented and published work that I completed at Stanford University School of Medicine during the summer after my first year of medical school. This study assessed the usage of donor breast milk in California, and looked at whether availability of donor breast milk was associated with rates of breastfeeding at NICU discharge and rates of necrotizing enterocolitis in very low birth weight infants. We found that the rates of donor breast milk use in California hospitals increased significantly over the course of 2007-2013. In the hospitals that underwent a clear transition to having donor breast milk available, there was a 10% increase in breastfeeding at NICU discharge and a concomitant 2.6% decrease in necrotizing enterocolitis rates.

Bradley Kushner

The goal of my research was to retrospectively study the use of gentamicin in a hospital setting and to determine which patients are at high risk for exposure. Identifying such patients may help limit unnecessary exposures and identify populations for future studies looking at the potential oto-protective effects of metformin or aspirin. My research showed that gentamicin is still widely used at major medical centers and that three patient populations (neonates, women of reproductive age, and older adults) are at the greatest risk for developing gentamicin induced oto-toxicity.

**Chase Kwon**


**Stephen Miranda**

Presentation: AAMC Northeast Group on Educational Affairs (NEGEA) - "Teaching of the student, by the student, for the student: a palliative care curriculum based in experiential learning and medical humanities." This oral presentation described our curricular innovation, which aims to provide medical students more comprehensive exposure to end-of-life care through an elective hospice experience and a medical humanities seminar.

Presentation: American Association of Neurological Surgeons - "The utility of the 'surprise question' for identifying neuro-oncology patients most at risk of death." This poster presentation describes the efficacy of our clinical screening tool, which may be useful for identifying brain tumor patients who are at risk of dying in the near future, and might benefit from earlier goals-of-care conversations.

**Class of 2018**

**Travis Amengual**

Presentation: American Academy of Neurology

Presented summer research with Dr. Erika Augustine of the Child Neurology Department. We investigated barriers to participation in rare disease clinical research. My abstract and presentation focused on responses of caregivers of dependents with a rare disease. We found that there are potential disparities in recruitment, with those with a lower SES potentially not being invited to participate in clinical research; rare diseases are often medically complex and patients have to travel far distances to the nearest research facility for their disorder; factors of time distance and convenience were important decision making factors for those who have been invited to participate in research; There is a high level of access to and comfort with tele research enabling technology in our sample and in the US indicating that tele research may be a feasible way to decrease the burden of participation in clinical research for those with rare diseases.

**Anna Artymowicz**

Research Award: CIBS- Central Institute of Buddhist Studies, Ladakh, India.

Study of Thanka painting and it's relation to Sowa Rigpa Medicine (a.k.a Tibetan Medicine).

**Dhrisitie Bhagat**
Data was obtained from the School-Based Telemedicine Enhanced Asthma Management program (SB-TEAM) baseline survey, conducted in urban Rochester, NY.

Karen Chong

Abstract: Chong, KC, Zhou VL, Tarazona D, Tuesta H, Velásquez-Hurtado JE, Llanos F. Relationship between Age and ASQ-3 Scores for each Screening Interval in Peruvian Infants.
This abstract was accepted for poster presentation at the following: Consortium of Universities for Global Health, San Francisco, CA, USA, April 2016 Rochester Global Health Symposium, Rochester, NY, USA, April 2016.

Poster Visuals Award at the 2nd Annual Rochester Global Health Symposium & UNYTE Scientific Session: Innovative Solutions to Combat Global Health Disparities on April 21, 2016 for the poster "Relationship Between Age and ASQ-3 Scores Per Screening Interval in Peruvian Infants."

Amit Chowdhry


Developed a statistical procedure using multiple imputation to handle missing sample variance data in meta-analysis, a very common statistical problem in medical research. This allows for valid estimation and inference in meta-analysis under looser assumptions than previously described methods.

Andrew Cox


A poster presentation at the 2016 APSA conference. Cox, A. Bortz, R. D'Angelo, J. Smith, A. and Dewhurst S. 2016. Influenza A viruses with reductions in both polymerase error rate and viral pathogenicity may serve as novel live attenuated vaccine platforms. 12th Annual Conference of the American Physician Scientist Association, Chicago, IL


Steven Hong

Basic science publication on the role of intracellular G-proteins and actin nucleation:

**Michael Kelly**

Abstract & Presentation: Clinical TMS Society - I performed a chart review analyzing the efficacy of repetitive transcranial magnetic stimulation (rTMS) in treating symptoms of depression in patients who had relapsing disease but had previously benefitted from rTMS therapy. While there is currently evidence supporting the initial efficacy of rTMS therapy, there is little research into managing symptomatic relapses. I will be presenting my poster and abstract at the Clinical TMS Society annual meeting in May 2016.

**Alcina Lidder**

Abstract selected for oral presentation at the American Rhinologic Section (ARS) of the Combined Otolaryngology Spring Meeting (COSM), Chicago, May 2016, "Evaluating Metrics of Responsiveness Using Patient-Reported Outcome Measures in Chronic Rhinosinusitis"

Women in Thoracic Surgery scholarship to attend Society of Thoracic Surgeons annual meeting, Phoenix, January 2016

Description: "Evaluating Metrics of Responsiveness Using Patient-Reported Outcome Measures in Chronic Rhinosinusitis": Responsiveness, or sensitivity to clinical change, is important when selecting patient-reported outcome measures (PROMs) for research and clinical applications. We compared responsiveness of PROMs used in chronic rhinosinusitis (CRS). In both medical therapy and endoscopic sinus surgery patients, CRS-specific measures were more responsive than general health domains, suggesting that CRS-specific PROMs are more sensitive to post-treatment clinical changes. The findings also suggested that surgical response is greater than response to initial medical therapy for both disease-specific and general health PROMs.

**Lam-Anh (Lamie) Nguyen**

APHA (American Public Health Association) Annual Meeting - abstract accepted for oral presentation
Gilbert Forbes Prize for Excellence in Pediatric Research

Description: Caregiver depression, asthma severity, and preventive care in urban children with persistent asthma.

**Ria Pal**

Essay in In-Training Magazine: Co-wrote an essay on applying social justice principles to global health in the context of medical education.

**Keaton Piper**

Presentation: American Association of Neurological Surgeons - Annual National Conference
Risk factors for venous thromboembolism in patients undergoing spinal surgery

**Michelle Shankar**
Presentation: The 2nd Annual Rochester Global Health Symposium-The Global and Territorial Health Research Network and the UNYTE Translational Research Network

Finger-to-Knee Distance as a Predictor of Lung Function in Pre-operative Spine Patients in Ethiopia

Mentors: Dr. David Korones, MD (URMC); Dr. Addisue Mesfin, MD (URMC); Dr. Arthur Moss, MD (URMC); Dr. Rick Hodes, MD (AJJDC)

Samuel Weisenthal

Built and implemented a CT scan radiation dose monitoring system for outlier detection and epidemiological analysis.


Class of 2019

David Bernstein

Abstract: Medical Society of the State of New York (MSSNY) Resident/Fellow/Medical Student Poster Symposium, Fifth Annual Center for Musculoskeletal Research (CMSR) Symposium
Description: Impact of the Economic Downturn and Affordable Care Act on Elective Lumbar Spine Surgery in the United States (Both Symposia)

Vishnu Kadiyala


I received a research award, the Thoracic Surgery Summer Scholarship at the Massachusetts General Hospital, to conduct clinical research in the summer of 2016

I worked in 2015 at the Freedland Lab, creating a database on patients who had been treated for Prostate Cancer without metastases at the time of diagnosis, but had developed bone metastatic lesions. This retrospective paper looked at the variables that were associated with the progression of the disease, and found that high PSA levels and a rapid PSA doubling time were correlated with the development of metastases.

Mariah Blegen, Timothy Campbell, Antoinette Esce, and Matthew Rasmussen

Video submission for the American Medical Association "Turn MedEd On Its Head" Medical Student Innovation Challenge
To view the video, please visit www.vimeo.com/aesce/connect

Andrew Pan, Stacey Isidro, Tracey Isidro (UTMB ’16), and Aaron Pan (Michigan State, BA ’16)

Video submission for the American Medical Association "Turn MedEd On Its Head" Medical Student Innovation Challenge
Our proposal focused on curricular strategies for strengthening communication and negotiation skills among students early in their medical training. Of 146 entries offered a publication, 113 teams submitted abstracts. 4 top winners were chosen (two tied for 3rd place); my team’s proposal was awarded 1 of 26 honorable mentions.

**MD/PhD Students**

**Benjamin Cocanougher**

Research Award: University of Cambridge and the Gates Trust, Gates Cambridge Scholarship
Presentation: International Congress on Neuromuscular Diseases - first author and presenting author on a poster titled "MTM1-related myopathy carrier females manifest significant asymmetries and a spectrum of muscle involvement." The abstract was accepted for the 14th International Congress on Neuromuscular Diseases in Toronto in July 2016. The work is based on a case series of patients seen at the NIH in the clinic of Carsten Bonnemann.

Presentation: American Society of Clinical Investigation (ASCI)/American Academy of Physicians (AAP)/American Physician Scientists Association (APSA) Joint Meeting 2016 - Presented a poster titled "Partner selectivity in Drosophila neural circuits" at the HHMI Med Fellows end of year poster session, which took place in conjunction with the ASCI/AAP/APSA joint meeting. The work was based on my last two years of work at HHMI Janelia Research Campus.

**Scott Friedland**

Abstract: Studying the roles of ARID1A and the SWI/SNF complex in the pancreas and pancreatic neoplasia.
University of Rochester - MSRS 2016 Poster Session
University of Colorado – Keystone Conference Poster Session