

# CURRICULUM VITAE

ANGELA SHIEH CZAJA, MD MSc PhD

## I. PERSONAL HISTORY

Current Position: Associate Professor  
Division of Critical Care, Department of Pediatrics  
School of Medicine  
University of Colorado

Citizenship: USA

## II. EDUCATION

### Graduate Education

1993 - 1997 B.A. Biochemistry  
Graduated Magna Cum Laude with honors in Biochemistry  
Phi Beta Kappa  
University of Pennsylvania  
Philadelphia, Pennsylvania

1997 - 2001 M.D.  
University of Pennsylvania  
Philadelphia, Pennsylvania

2005 - 2007 M.S. Epidemiology  
University of Washington  
Seattle, Washington

2010 – 2019 Ph.D. Pharmaceutical Outcomes Research  
School of Pharmacy  
University of Colorado  
Aurora, CO

### Postgraduate Education

2001 - 2004 Pediatric Residency Program  
Children's Hospital of Philadelphia/University of Pennsylvania  
Philadelphia, Pennsylvania

2004 - 2007 Pediatric Critical Care Fellowship  
Seattle Children's Hospital/University of Washington  
Seattle, Washington

### Career Development Programs (competitive)

2008 – 2010 Clinical Faculty Scholars Program  
University of Colorado

Aurora, Colorado

2015 – 2017 Teaching Scholars Program  
University of Colorado  
Aurora, Colorado

2021 – 2022 LEAD (Leadership in Educational Academic Development) program  
Association of Pediatric Program Directors (APPD)

### III. ACADEMIC APPOINTMENTS

#### Full-time Faculty Positions

2014 – present Associate Professor  
Department of Pediatrics, School of Medicine  
University of Colorado  
Aurora, Colorado

2007 – 2014 Assistant Professor  
Department of Pediatrics, School of Medicine  
University of Colorado  
Aurora, Colorado

#### Other Faculty Positions

2017 – 2018 Special Faculty Appointment  
Clinical Sciences, Graduate School  
University of Colorado  
Aurora, Colorado

### IV. OTHER PROFESSIONAL POSITIONS

1991 -1995 Research Assistant (summers only)  
Department of Neurovirology (Dr. Donald Gilden)  
University of Colorado Health Sciences Center  
Denver, Colorado

1993 - 1997 Research Assistant (part-time, academic year only)  
Department of Development Neurology (Dr. Peter Bannerman)  
Children's Hospital of Philadelphia/University of Pennsylvania  
Philadelphia, Pennsylvania

1996 Summer Undergraduate Research Fellow  
Department of Neuroimmunology (Dr. Vanda Lennon)  
Mayo Clinic  
Rochester, Minnesota

2000 Research Assistant (summer)  
Department of Infectious Disease (Dr. Stuart Isaacs)  
University of Pennsylvania

Philadelphia, Pennsylvania

2016 – current      Special Government Employee  
Center for Drug Evaluation and Research  
U.S. Food and Drug Administration  
U.S. Department of Health and Human Services

## V. HONORS AND AWARDS

1997                      Phi Beta Kappa

2004                      Anne Dyson Community Pediatrics Training Initiative Award for  
Excellences in Community Pediatrics

2014                      American Thoracic Society Innovation in Fellowship Education Award  
**Czaja AS**, Carpenter TC, Grayck EN (University of Colorado)  
“Addressing Entrustable Professional Activities through a Novel ARDS  
Curriculum”

## VI. PROFESSIONAL ORGANIZATION MEMBERSHIPS

2004 – present      Society of Critical Care Medicine  
Section of Pediatric Critical Care, member

2007 - present      American Academy of Pediatrics

2007 - present      Pediatric Acute Lung and Sepsis Investigators

2011 – present      International Society of Pharmaco-epidemiology  
Secretary (2011 – 2013) and Member, Pediatric Special Interest Group

2014 – present      Educators in Pediatric Intensive Care (E.P.I.C) investigators, collaborator  
and leader of educational scholarship projects

## VII. MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

### National

2013 – 2019      PREP ICU Editorial Board, American Academy of Pediatrics  
Developed scholarly, case-based, peer-reviewed questions and  
critiques, based on evidence for high-stakes examination preparation  
and continuous professional development for the American Academy of  
Pediatrics

2013                      PICU Flow Whole System Measure (WSM) Development Working Group  
Children’s Hospital Association

2014 – present      Pediatric Critical Care Fellowship Program Directors’ Committee  
Society of Critical Care Medicine

2016                      Joint Meeting of the Anesthetic and Analgesic Drug Products Advisory

Committee, the Drug Safety and Risk Management Advisory Committee, and the Pediatric Advisory Committee meeting (ad hoc Member)  
U.S. Food and Drug Administration

- 2017 Admission and Discharge for the Pediatric ICU Levels of Care Guidelines Development (panel voting member)  
Society of Critical Care Medicine
- 2017 – 2018 Task Force to revise the content specifications of the American Board of Pediatrics Subboard of Pediatric Critical Care Medicine  
American Board of Pediatrics
- 2018 – present Advisory Board – physician  
VPS, LLC
- 2018 – 2021 Consultant/Special Government Employee  
Pediatric Advisory Committee  
U.S. Food and Drug Administration
- 2018 – present Steering Committee, critical care representative  
Subspecialty Pediatric Investigator Network, Council of Pediatric Subspecialties
- 2020 – present Pediatric Critical Care representative  
Council on Pediatric Subspecialties (CoPS)
- 2020 PREP ICU Deputy Editor, American Academy of Pediatrics
- 2021 – present Member, Pediatric Advisory Committee  
U.S. Food and Drug Administration

### **Institutional**

- 2018 – 2019 Curriculum Reform, University of Colorado School of Medicine  
Assessment Implementation Subcommittee Team – member
- 2020 – present Graduate Medical Education Committee  
Clinical Learning Environment Subcommittee, University of Colorado School of Medicine - member

### **Departmental**

- 2008 – 2014 Faculty Interviewer for Pediatric Residency Program (annually)
- 2021 – present Diversity & Inclusion Committee – Education Subcommittee  
Department of Pediatrics, University of Colorado School of Medicine
- 2021 – present Promotions Committee - member  
Department of Pediatrics, University of Colorado School of Medicine

2021 – present Mid-career Faculty Working Group – member  
Academic and Faculty Affairs  
Department of Pediatrics, University of Colorado School of Medicine

### **Hospital**

2005 – 2007 PICU Quality and Patient Safety Committee,  
Seattle Children’s Hospital

2008 – present VPS database, physician lead  
Children’s Hospital Colorado

2009 – present PICU Quality and Patient Safety Committee  
Children’s Hospital Colorado

2011 – present Pediatric Critical Care Research Scientific Advisory Committee  
Children’s Hospital Colorado

2012 – present PICU Morbidity and Mortality Committee  
Children’s Hospital Colorado

2014 – present PICU Steering Committee  
Children’s Hospital Colorado

2014 – present Committee on Fellowship Education  
Children’s Hospital Colorado,  
Department of Pediatrics, University of Colorado School of Medicine

2017 – 2021 Pharmacy and Therapeutics Committee  
Children’s Hospital Colorado

## **VIII. LICENSURE AND BOARD CERTIFICATION**

### **Medical Licensure**

2001 – 2003 Pennsylvania (Training License)  
2003 – 2004 Pennsylvania  
2004 – 2007 Washington (Training License)  
2007 – present Colorado

### **Board Certification**

2004 – present American Board of Pediatrics  
  
2008 – present American Board of Pediatrics  
Subspecialty Boards, Critical Care Medicine

## **IX. REVIEW AND REFEREE WORK**

## Grant Reviewer

2012 Reviewer for the CCTSI Child and Maternal Health Pilot Grant Program  
2013 Reviewer for ZonMw – The Netherlands organisation for health research and development

## Manuscript Reviewer (ad hoc)

Pediatrics  
Archives of Pediatric and Adolescent Medicine (JAMA Pediatrics)  
JAMA  
Journal of Pediatrics  
Pediatric Critical Care Medicine  
Journal of Pediatric Infectious Diseases Society  
European Journal of Pediatrics  
BMC Pediatrics  
European Journal of Clinical Pharmacology  
Frontiers Pediatrics  
Canadian Medical Association Journal  
Pharmacoepidemiology and Drug Safety

## X. INVITED LECTURES & PRESENTATIONS

### Local

1. “Stress and PTSD: The costs of caring” – for the “Good Grief at Noon” series presented by the Children’s Hospital Colorado Bereavement Council. (2012)
2. “ARDS in the Post-Trauma Patient” – for the Multi-disciplinary Trauma Lecture Series presented by the Children’s Hospital Trauma Committee. (2014)
3. “Ventilator-Associated Lung Injury: Implications for Mechanical Ventilation” – Pulmonary Grand Rounds, Dept of Pediatrics, University of Colorado School of Medicine (August 2019)

### National

1. ” Ensuring Safe and Effective Medications for Children: The Role of Pharmacoepidemiology” – guest faculty CME lecturer at annual American Academy Pediatrics PROS (Pediatric Research in Office Settings) Chapter Coordinator meeting (2018)

### International

1. Lasky T, Sobel R, Artaman A, **Czaja AS**, Maruti S, Osokogu OU, Verhamme KMC. “Pediatric Special Interest Group Needs Assessment” presented at the International Society of Pharmacoepidemiology Mid-Year meeting in Rotterdam, The Netherlands, April 2014.

## XI. TEACHING RECORD

## **Major Teaching Activities – Students, Residents and Fellows**

2004 – 2007	Monthly PICU resident lectures, Seattle Children’s Hospital
2007 – present	PICU fellow educational conferences, Children’s Hospital Colorado Selected Topics: Traumatic Brain Injury, Brain Death and Organ Donation, Mechanical Ventilation, Off-label Medication Use, Disseminated Intravascular Coagulation
2013 – 2015	Monthly PICU resident lectures, Children’s Hospital Colorado
2018 - present	Facilitator/Leader – Curriculum Development Workshop Medical Education Elective for Residents and Fellows School of Medicine, University of Colorado

## **Major presentations – Other Learners**

2018 – 2020	Teaching Scholars’ Program Academy of Medical Educators, Univ of Colorado School of Medicine “Charting your Destination”
2018 - current	Teaching Scholars’ Program Academy of Medical Educators, Univ of Colorado School of Medicine “Competency-Based Medical Education” workshop

## **Attending Service Duties**

2007 – present	Supervision and bedside teaching of medical students, residents, fellows and mid-level practitioners, PICU
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## **Teaching Leadership and Administrative Duties**

2012 – 2017	Director, Evidence-based Medicine curriculum for PICU fellows University of Colorado School of Medicine
2013 – 2017	Associate program director, Pediatric Critical Care Medicine Fellowship University of Colorado School of Medicine
2012 – present	Pediatric Critical Care Medicine Fellowship Curriculum Committee University of Colorado School of Medicine
2012 – present	Co-director, PCCM Clinical Research fellows’ curriculum University of Colorado School of Medicine
2014 – present	Co-director, Pediatric Intensive Care Unit sub-internship elective University of Colorado School of Medicine

- 2017 – present      Program Director, Pediatric Critical Care Medicine Fellowship  
University of Colorado School of Medicine
  
- 2017 – 2019        Associate Program Director  
Pediatric Surgical Critical Care Medicine Fellowship  
University of Colorado School of Medicine
  
- 2017 – 2018        Committee Chair  
Master's of Clinical Science research committee (Borque)  
Clinical Sciences Program  
University of Colorado, Graduate School

**Curriculum Development**

- 2012 – 2017        Development of Evidence-based Medicine curriculum for PICU fellows
  
- 2013 –2014        Development of PICU Resident monthly curriculum
  
- 2013 – 2014        Development of a novel ARDS curriculum using the Entrustable  
Professional Activities framework
  
- 2014 – present     Development of Clinical Research Training for PICU fellows
  
- 2018                PICU sub-internship curriculum – PICU passport  
University of Colorado School of Medicine

**Educational Scholarship**

- 2017 – current     Point-of-Care Ultrasound training for PICU fellows  
Role: Mentor (Ryan Good, MD)
  
- 2017 – current     Leadership Assessment Tool for PICU fellows (EPIC project)  
Role: Co-leader
  
- 2017 – 2019        Faculty Development in Teaching within Pediatric Critical Care (EPIC  
project)  
Role: Collaborator
  
- 2018 – current     Use of Entrustable Professional Activities in Pediatric Subspecialty  
Fellowships (multiple SPIN projects)  
Role: Critical Care Representative on Steering Committee, Collaborator

**Other Teaching Activities**

- 2015                Small group facilitator, pulmonary block  
School of Medicine, University of Colorado
  
- 2015                Small group facilitator on professionalism  
Committee on Fellowship Education, Department of Pediatrics  
School of Medicine, University of Colorado



2015	Physician Assistant Student Disability Curriculum – Expert Panel “How to deliver difficult news”
2017	Small group facilitator on scientific writing Committee on Fellowship Education, Department of Pediatrics School of Medicine, University of Colorado
2018	Invited “Stump the Professor” morning report Pediatrics Residency Program, Department of Pediatrics School of Medicine, University of Colorado
2018	Faculty judge Mentored Scholarly Activity (MSA) Capstone Presentations School of Medicine, University of Colorado
2018	Simulation Debriefing Faculty Facilitator Critical Care and Procedures 4 <sup>th</sup> year Medical Student Elective School of Medicine, University of Colorado
2019	Small group facilitator, Integrated Clinician Courses (ICC) Mechanical Ventilation School of Medicine, University of Colorado
2019 - 2020	Faculty judge (annual) Education Scholarship and Innovation Symposium Academy of Medical Educators School of Medicine, University of Colorado

## **XII. GRANT SUPPORT**

### **Current Research Grants:**

None

### **Prior Research Grants**

Title: “Development of a prediction model for the risk of readmission to the pediatric intensive care unit during the same hospitalization”  
 Laura P. & Leland K. Whittier Foundation  
 Virtual PICU Fellowship  
 2009 – 2011  
 \$72,500  
 Effort: 15%  
 Principal Investigator: Angela S. Czaja

Title: “Evaluation of Readmissions to the Pediatric Intensive Care Unit during a Single Hospitalization”  
 Children’s Hospital Colorado Research Institute  
 Quality Improvement Grant  
 2010 - 2011  
 \$5000

Principal Investigator: Angela S. Czaja

Title: "Genetic Epidemiology of Life-threatening Influenza Infections in Children and Young Adults"  
CDC/America's Health Insurance Plans Contract No. 200-2002-00732  
10/01/2008 – 09/19/2012  
\$834,340; Per-subject enrolled  
Principal Investigator: Adrienne Randolph, MD MSC, The Children's Hospital (Boston)  
Role: Site PI

Title: "Novel Influenza A (H1N1) Surveillance Registry"  
NIH NHLBI Contract No. HHSN 268200536179C  
11/09/2009 – 08/31/2010  
\$560,627; Per-subject enrolled  
Principal Investigators: Adrienne Randolph, MD MSc, The Children's Hospital, Boston; Todd Rice, MD MSc, Vanderbilt University School of Medicine; B. Taylor Thompson, MD, Massachusetts General Hospital  
Role: Site PI

Title: "Physician Decision Making in Antidepressant Prescribing  
CCTSI & Children's Hospital of Colorado  
Child & Maternal Health Pilot Grant  
5/10/2012 – 5/10/2014  
\$20,000  
Effort: 1.5%  
Principle Investigator: Czaja

Title: "Multicenter Trial of Work-hour Limits for PGY 2 & 3 resident works hours on patient safety"  
NIH NHLBI U01 HL111478-01A1  
09/01/2012 – 08/31/2017  
\$1,304,354  
Effort: 10% for 2 months for Y1, 10% for Y2 & Y3  
Principal Investigator: Charles A. Czeisler (Harvard University)  
Role: Co-investigator

Title: "Pediatric Trials Network"  
American Academy of Pediatrics contract to University of Colorado  
(original funding source - contract number from NIH HHSN2752010000031)  
10/1/2017 – 10/28/2018  
\$21,492  
Effort: 0.6 Calendar months  
Principal Investigator: Angela S. Czaja

Title: "Effectiveness of a Multimodal Curriculum on Improving Pediatric Resident Competency in the Guideline-Based Management of Pediatric Severe Sepsis"  
Western Region Association of Pediatric Program Directors  
Medical Education Trainee Research Grant  
2019-2020

\$1000

Principal Investigator: Ryan Fredericks (PCCM fellow)

Role: Primary Research Mentor, Program Director

### XIII. BIBLIOGRAPHY

#### Peer-reviewed Publications (\*indicates trainee at the time of project):

1. Bannerman PG, Oliver TM, Xu Z, **Shieh A**, and Pleasure DE. Effects of FGF-1 and FGF-2 on GD3 immunoreactive spinal neuroepithelial cells. *J Neuroscience Research* 1996, 45(5): 549 – 557.
2. Bannerman PG, Puhalla S, Saha A, **Shieh A**, Berman M and Pleasure DE. Glial growth factor-2 promotes the survival, migration and bromodeoxyuridine incorporation of mammalian neural crest cells in caudal neural tube explants cultures. *Developmental Brain Research* 2000, 124: 93-99.
3. **Shieh-Czaja A**, Calello DP and Osterhoudt KC. Sick sisters. *Pediatr Emerg Care* 2005, 21(6):400 -402.
4. **Czaja AS**. A critical appraisal of a randomized controlled trial: Willson et al. Effect of Exogenous Surfactant (Calfactant) in Pediatric Acute Lung Injury, JAMA 2005, 293: 470-476. *Pediatric Critical Care Medicine* 2007, 8(1):50-503
5. Marciniak KE, Thomas IH, Brogan TV, Roberts JS, **Czaja A** and Mazor SS. Massive Ibuprofen overdose requiring extracorporeal membrane oxygenation for cardiovascular support: a case report. *Pediatric Critical Care Medicine* 2007, 8(2):180-182.
6. **Czaja AS**, Rivara FP, Wang J, Koepsell T, Nathens AB, Jurkovich GJ and Mackenzie E. Late outcomes of trauma patients with infections during index hospitalization. *J Trauma* 2009, 67(4):805-814.
7. **Czaja AS**, Zimmerman JJ and Nathens AB. Readmission and late mortality after pediatric severe sepsis. *Pediatrics* 2009, 123(3):849-857.
8. **Czaja AS** and Zimmerman JJ. The use of dexmedetomidine in critically ill children. *Pediatric Critical Care Medicine* 2009, 10(3):381-386.
9. **Czaja AS**, Scanlon MC, Kuhn EM and Jeffries HE. Performance of the Pediatric Index of Mortality 2 for pediatric cardiac surgery patients. *Pediatric Critical Care Medicine* 2011, 12(2): 184- 189.
10. Teng SN\*, Kaufman J, **Czaja AS**, Friesen RH and daCruz EM. Propofol as a bridge to extubation for high-risk children with congenital cardiac disease. *Cardiol Young* 2011, 21(1):46-51.
11. Teng S\*, Kaufman J, Pan Z, **Czaja A**, Shockley H and daCruz E. Continuous arterial pressure waveform monitoring in pediatric cardiac transplant, cardiomyopathy and pulmonary hypertension. *Intensive Care Med* 2011, 37(8):1297-1301.

12. **Czaja AS**, Moss M and Mealer M. Symptoms of Posttraumatic Stress Disorder among pediatric acute care nurses. *J Pediatric Nursing* 2012, 27:357-365.
13. **Czaja AS** and Valuck RJ. Off-label antidepressant use in children and adolescents compared to young adults: Extent and level of evidence. *Pharmacoepidemiology and Drug Safety* 2012, 21(9): 997-1004.
14. **Czaja AS**, Valuck RV and Anderson HG. Comparative safety of selective serotonin reuptake inhibitors among pediatric users with respect to adverse cardiac events. *Pharmacoepidemiology and Drug Safety* 2013, 22(6): 607-614.
15. **Czaja AS**, Hosokawa PW and Henderson WG. Unscheduled readmissions to the Pediatric Intensive Care Unit: Epidemiology, risk factors and variation among centers. *Pediatric Critical Care Medicine* 2013, 14(6): 571-579.
16. Bernard A\* and **Czaja AS**. Pediatric intensive care readmissions: A single-center's experience. *Journal of Critical Care* 2013, 28(5): 625-633.
17. Llamado R\*, **Czaja AS**, Stence N and Davidson J\*. Continuous octreotide infusion for sulfonyleurea-induced hypoglycemia in a toddler. *J Emergency Medicine*, in press. doi: 10.1016/j.jemermed.2013.05.016
18. Ross EL, Heizer J, Mixon MA, Jorgenson J, Valdez C, **Czaja AS**, Reiter PD. Evaluation of evidence and recommendations for obesity dosing of commonly prescribed medications in critically ill children. *Am J Health Syst Pharm* 2015, 72(7):542-56.
19. **Czaja AS**, Reiter PD and Valuck RJ. Patterns of off-label prescribing in the pediatric intensive care unit and prioritizing future research. *J Pediatr Pharmacol Ther* 2015, 20(3): 186-96.
20. Lasky T, Artaman A, **Czaja AS**, Maruti SS, Osokogu OU, and Sobel RE. Current needs in pediatric pharmacoepidemiology. *Pharmacoepidemiology and Drug Safety*, 2016. 25(6):738-42.
21. **Czaja AS**, Fiks AG, Wasserman RC and Valuck RJ. Beyond the label: steering the focus towards safe and effective prescribing. *Pediatrics* 2017, 139 (5) e20163518.
22. Leroue MK\*; Good RJ\*, Skillman HE, **Czaja AS**. Enteral Feeding Practices in Critically Ill Children Requiring Non-Invasive Positive Pressure Ventilation. *Pediatr Crit Care Med* 2017, 18(12): 1093-1098.
23. Stockwell DC, Thomas C, Fieldston ES, Hall M, **Czaja AS**, Stalets EL, Biehler J, Sheehan M, Foglia D, Byrd S, McClead RE. Using length of stay to understand patient flow for acute and critically ill pediatric hospitalized patients. *Pediatric Quality and Safety* 2017, 3(1):e050. eCollection 2018 Jan-Feb.
24. Alvarez RV\*, Palmer C, **Czaja AS**, Peyton C, Silver G, Traube C, Mourani PM, Kaufman J. Delirium is a common and early finding in the pediatric cardiac ICU. *J Pediatr* 2018, 195:206-212.

25. Good RH\*, Leroue MK, **Czaja AS**. Accuracy of Administrative Codes for Distinguishing NIPPV from HHFNC in Critically Ill Children. *Hospital Peds* 2018, 8(7): 426-429.
26. **Czaja AS**, Ross ME, Liu W, Fiks AG, Localio R, Wasserman RC, Grundmeier RW, Adams WG. Electronic health record (EHR) based post-marketing surveillance of adverse events associated with pediatric off-label medication use: a case study of short-acting beta-2-agonists and arrhythmias. *Pharmacoepi Drug Safety* 2018, 27:815-822.
27. James, KA, Gralla J, Ridall LA\*, Do TN, **Czaja AS**, Mourani PM, Ciafaloni E, Cunniff C, Donnelly J, Oleszek J, Pandya S, Price E, Yang M, Auerbach S. Left ventricular dysfunction in Duchenne and Becker Muscular Dystrophies. *Cardiology Young* 2020, 30(2): 171 – 176.
28. Bone MF, Mink R, Marcdante K, **Czaja AS**, Storgion SA, Turner DA. Expanding faculty development of teaching skills: a national needs assessment of Pediatric Critical Care Medicine faculty. *Pediatr Crit Care Med* 2020, 21(5):486 – 493.
29. Turner DA, Boyer D, Dwyer A, **Czaja AS**, Odetola FO, Schuette J, Wheeler D, Winkler M, Goodman DM. Establishing the knowledge and skills necessary in Pediatric Critical Care Medicine: A systematic approach to practice analysis. *Pediatr Crit Care Med* 2020, 21(7): 667 – 671.
30. Lasky T, Carleton B, Horton DB, Kelly LE, Bennett D, **Czaja AS**, Gifkins D, Osokogu OU, McMahon AW. Real-world evidence to assess medication safety and effectiveness in children: A systematic review. *Drugs – Real World Outcomes* 2020, 7(2): 97 – 107.
31. **Czaja AS**, Collins K, Valuck RJ, Anderson HD, Ghosh D, Davidson JA. Validation of administrative claims-based algorithms for ventricular arrhythmias and cardiac arrest in the pediatric population. *Pharmacoepidemiol Drug Safety* 2020, 29(11): 1499 – 1503.
32. Good RH, Levin M, Feder S, Loi MM, Kim JS, Branchford BR, **Czaja AS**, Carpenter TC. Accuracy of Bedside Ultrasound Femoral Vein Diameter Measurement by Pediatric Intensive Care Unit Providers. *Pediatr Crit Care Med* 2020, 21(12):e1148-e1151.
33. **Czaja AS**, Anderson HD, Ghosh D, Davidson J, Campbell JD, Valuck RJ. Increased odds of ventricular arrhythmias associated with selective serotonin reuptake inhibitor use among pediatric and young adult population: a case-control study. *J Peds* 2020, in press
34. O’Keefe S\*, Maddux AB, Bennett KS, Youngwerth J, **Czaja AS**. Variation in pediatric palliative care allocation among critically ill children in the United States. *Pediatr Crit Care Med* 2020, in press
35. O’Keefe S\*, **Czaja AS**. Validation of Administrative Codes for Palliative Care Consultation among Critically Ill Children. *Hospital Peds* 2021; 11(2):179-182.

36. Awadallah NS, **Czaja AS**, Fainstad T, McNulty MC, Jaiswal KR, Jones TS, Rumack CM. The Impact of the COVID-19 Pandemic on Family Medicine Residency Training. *Family Medicine* 2021, in press.
37. Good RJ, Zurca AD, Turner DA, Bjorklund AR, Boyer DL, Krennerich E, Petrillo T, Rozenfeld RA, Sasser WC, Schuette J, Tchamtchi MH, Watson C, **Czaja AS**; for the Education in Pediatric Intensive Care (E.P.I.C) Investigators. Transport Medical Control Education for Pediatric Critical Care Fellows: A National Needs Assessment Study. *Pediatr Crit Care Med* 2021, in press.

## Book Chapters

1. Contributing author for chapter on Critical Care. In: *Current Diagnosis and Treatment: Pediatrics*. Hay Jr WW, Levin MJ, Sondheimer JM, Detering RR, eds. McGraw Hill companies, USA, 20<sup>th</sup> (2010), 21<sup>st</sup> (2012), 22<sup>nd</sup> (2014), 23<sup>rd</sup> (2016), 24<sup>th</sup> (2018) editions.
2. Lead author for chapter on Critical Care. In: *Current Diagnosis and Treatment: Pediatrics*. Hay Jr WW, Levin MJ, Sondheimer JM, Detering RR, eds. McGraw Hill companies, USA, 25<sup>th</sup> (2020), 26<sup>th</sup> (2022) editions.

## Invited Non-Peer-Reviewed Publications

1. **Czaja AS**. Off-Label Antidepressant Use in Children and Adolescents. *Pediatrics for Parents* 2012, 28(9&10):27-28.
2. **Czaja AS**, Henderson WG. In reply to: Are readmissions to PICU preventable or is this the nature of the beast? [Letter to the editor] *Pediatr Crit Care Med* 2014, 15(1): 92-3.
3. **Czaja AS**. Children are not just little adults... [Invited editorial] *Pediatr Crit Care Med* 2016, 17(2):178-80.

## Other Invited Scholarly Products

1. Society of Critical Care Medicine iCritical Care podcast discussing publication on "Unscheduled readmission to the Pediatric Intensive Care Unit: Epidemiology, risk factors and variation among centers" (*Pediatric Critical Care Medicine*, 2013), 2013, SCCM Pod-219 PCCM

## Scientific Abstracts and Presentations (\*indicates trainee at the time of project)

### Competitive

1. **Czaja AS** and Zimmerman JJ. Endpoints/Treatment algorithms for randomized controlled trials of steroids in pediatric sepsis. *Poster presentation* at the Society of Critical Care Medicine's 34th Critical Care Congress, January 2005.
2. **Czaja AS**, Zimmerman JJ and Nathens AB. Readmission and late mortality after pediatric severe sepsis. *Platform presentation* at the annual meeting of the Pediatric Academic Societies, May 2006.

3. Teng S\*, Kaufman J, Pan Z, **Czaja AS**, Shockley H and da Cruz E. Continuous arterial pressure waveform monitoring in pediatric cardiac transplant, cardiomyopathy, and pulmonary hypertension patients. *Poster presentation* at the CHOP Cardiology Conference, February 2010.
4. Teng SN\*, Kaufman J, **Czaja AS**, Friesen RH, and da Cruz EM. Propofol as a bridge to extubation for high risk children with congenital heart disease. *Oral presentation* at the Western Society of Pediatric Cardiology, May 2009.
5. Bernard A\* and **Czaja AS**. Readmission to the pediatric intensive care unit within a single hospitalization. *Poster presentation* at the Society of Critical Care Medicine's 39th Critical Care Congress, January 2010.
6. **Czaja AS**, Hosokawa P and Henderson W. Risk factors for early unplanned readmission to the pediatric intensive care unit. *Poster presentation* at the annual American Thoracic Society (ATS) International Conference, May 2011.
7. **Czaja AS** and Valuck RJ. Off-label antidepressant use in children, adolescents and young adults. *Poster presentation* at the annual Epidemiologic Exchange, School of Public Health at the University of Colorado, April 2011.
8. Bagdure D\*, Wathen B, **Czaja A**, Bajaj L and Dobyns E. Identify the barriers in implementation of pediatric sepsis guidelines in a tertiary children's hospital. *Poster presentation* at the annual meeting of the Pediatric Academic Societies, May 2011.
9. **Czaja AS** and Valuck RJ. Off-label antidepressant use in children, adolescents and young adults. *Poster presentation* at the 27<sup>th</sup> International Conference on Pharmacoepidemiology & Therapeutic risk Management (ICPE), August 2011.
10. Skillman HE, Bechard LJ, **Czaja AS**, Mourani PM and Mehta N. Quality improvement strategies can improve nutrient delivery in mechanically ventilated children: single center results from the Pediatric International Nutrition Study 2009 and 2011. *Poster presentation* at the Clinical Nutrition Week, Orlando, FL, January 2012.
11. **Czaja AS**, Reiter P and Valuck RJ. Off-label prescribing in the pediatric intensive care unit (PICU): Prioritizing future research. *Poster presentation* at the Pediatric Academic Societies' Annual Meeting in Washington, DC, May 4-7, 2013.
12. Ridall LA\*, Gralla J, Mourani PM, **Czaja AS**, Yang M, Oleszek J, Cunniff C, Donnelly J, Ciafaloni E, Price E, Pandya S and Auerbach SR. Progression of left ventricular dysfunction in Duchenne and Becker muscular dystrophies. *Oral presentation* at the American College of Cardiology 63<sup>rd</sup> Annual Scientific Session in Washington, DC, March 29-31, 2014, and *poster presentation* at the Pediatric Academic Societies' Annual Meeting in Vancouver, Canada, May 2014.
13. Jackson BJ\*, Mourani PM, Glover JJ, **Czaja AS**. Family meetings occur infrequently for PICU patients with prolonged length of stay. *Oral presentation* at the 2014 American Academy of Pediatrics (AAP) National Conference and Exhibition in San Diego, CA, October 11-14. Received the section best in-training abstract award.

14. **Czaja AS**, Liu W, Fiks A, Wasserman RC, McCarn B, Sills M, Ross ME, Valuck R, Adams WG. A New Collaborative Pediatric Electronic Health Record (EHR) Network to Examine Off-Label Prescribing. *Poster presentation* at the Pediatric Academic Societies' Annual Meeting in San Diego, CA, April 25-28, 2015.
15. Bone M, Marcdante K, Mink R, **Czaja AS**, Storgion S, Turner DA. Needs Assessment for Faculty Development of Pediatric Critical Care Medicine Educators. *Research Snapshot presentation* at the Society of Critical Care Medicine's 45th Critical Care Congress, February 2016.
16. Leroue MK\*, Good RJ\*, Skillman HE, **Czaja AS**. Provider attitudes and opinions on enteral nutrition for critically ill infants and children on non-invasive positive pressure ventilation. *Poster presentation* at the American Thoracic Society Annual Conference in San Francisco, CA, May 13-18.
17. Leroue MK\*, Good RJ\*, Skillman HE, **Czaja AS**. Enteral Feeding Practices in Critically Ill Children Requiring Non-Invasive Positive Pressure Ventilation. *Research Snapshot Presentation* at the Society of Critical Care Medicine's 46th Critical Care Congress, January 2017.
18. **Czaja AS**, Barker J, Baca M, Parker T. Clinical research training for pediatric subspecialty fellows: a needs assessment. *Poster presentation* at the Education Scholarship & Innovation Symposium, January 2017.
19. Skillman HE, Leroue MK\*, Good RJ\*, **Czaja AS**. Reported vs. Actual Feeding Practices in Critically Ill Children Requiring Non-Invasive Positive Pressure Ventilation. *Oral presentation* at Clinical Nutrition Week, American Society for Parenteral and Enteral Nutrition, February 2017.
20. O'Keefe S\*, Maddux AB, Bennett KS, Youngwerth J, LaVelle J, Williams K, **Czaja AS**. Outcomes of Critically-Ill Pediatric Patients Identified by Palliative Care Screening Criteria. *Poster presentation* at Pediatric Academic Societies Annual Meeting in Toronto, Canada May 2018.
21. **Czaja AS**, Fiks A, Hornik C, Livingston C, Berrigan L, Song L, Steffes J, Bilker W, Grundmeier R (on behalf of the Best Pharmaceuticals for Children Act - Pediatric Trials Network). Weight Gain and Metabolic Syndrome in Children Exposed to Second-Generation Antipsychotic Medications. *Poster presentation* at Pediatric Academic Societies Annual Meeting in Toronto, Canada May 2018.
22. Good R, Levin M, Loi M, Branchord B, **Czaja AS**, Carpenter TC. Accuracy of bedside ultrasounds femoral vein diameter measurement by PICU providers. *Research Snapshot Presentation* at the Society of Critical Care Medicine's 48th Critical Care Congress, February 2019.
23. O'Keefe S\*, Maddux A, Bennett K, Youngwerth J, **Czaja AS**. Palliative care allocation among critically ill children is highly variable in the United States. *Research Snapshot Presentation* at the Society of Critical Care Medicine's 48th Critical Care Congress, February 2019.



24. **Czaja AS**, Anderson HG, Davidson J, Valuck RJ. Risk of ventricular arrhythmia and cardiac arrest among children with mental health diagnoses. *Poster presentation* at Pediatric Academic Societies Annual Meeting in Baltimore, MD, April 2019.
25. Mink R, Carraccio C, Herman B, Hsu D, Chess P, High P, Langan ML, McGann KA, Curran M, Stafford D, **Czaja AS**, Dammann CE, Mahan JD, Aye T, Schwartz A. Are Graduating Pediatric Fellows Meeting the Expected Level of Supervision for the Common Subspecialty Entrustable Professional Activities (EPAs)? *Oral presentation* at Pediatric Academic Societies Annual Meeting in Baltimore, MD April 2019.
26. Good RH, **Czaja AS**. Local Needs Assessment for Point-of-Care Ultrasound Training in Pediatric Critical Care Medicine Fellowship. University of Colorado Department of Pediatrics, Medical Education Retreat, 2019
27. Green M, Zurca A, **Czaja A**, Mink R, Maa T, Bone M, Werner J, McCabe M, Emke A, Siems A, Boyer D, Turner D. Development of a clinical leadership assessment tool for pediatric critical care fellows. Presented at the Society of Critical Care Medicine's 48th Critical Care Congress, February 2020.
28. Good RH, **Czaja AS**. Implementation of a Point-of-Care Ultrasound Curriculum for Pediatric Critical Care Medicine Fellows. *Accepted for* the 2020 Education Scholarship & Innovation Symposium, Academy of Medical Educators, University of Colorado School of Medicine. Meeting canceled due to COVID-19 concerns.
29. Mink R, Carraccio C, Herman B, Weiss P, Turner D, Pitts S, Moffatt M, Kesselheim J, **Czaja AS**, Schwartz A. Relationship between level of supervision at the end of residency compared with early fellowship for the Entrustable Professional Activities (EPAs): a pilot study. *Accepted for platform presentation* at the Pediatric Academic Societies 2020 meeting, Philadelphia PA. Meeting canceled due to COVID-19 concerns. Disseminated on 4/30/20 on the PAS 2020 Meeting Program Guide, EPAS20202455.2.
38. Mink R, Carraccio C, Herman B, Chess P, Dammann C, Hsu D, Kesselheim J, Moffatt M, Myers A, Turner D, **Czaja AS**, Schwartz A. Have level of supervision ratings for the common pediatric subspecialty Entrustable Professional Activities (EPAs) changed over time? *Accepted for poster presentation* at the Pediatric Academic Societies 2020 meeting, Philadelphia PA. Meeting canceled due to COVID-19 concerns. Disseminated on 4/30/20 on the PAS 2020 Meeting Program Guide, EPAS20202823.369.
39. Good RJ, Zurca AD, Turner DA, Bjorklund AR, Krennerich E, Petrillo T, Rozenfeld RA, Sasser WC, Schuette J, Tcharmtchi MH, Watson C, **Czaja AS**; for the Education in Pediatric Intensive Care (E.P.I.C) Investigators. Out of Sight: Transport Medical Control Education in Pediatric Critical Care Medicine Fellowship. Presented at the Society of Critical Care Medicine's 49th Critical Care Congress, February 2021.
40. Awadallah NS, Jones TS, Jaiswal KR, Fainstad T, **Czaja AS** Rumack CM. The CUSOM Resident & Fellow COVID-19 Experience: What Changes Should Stay? *Accepted for poster presentation* at 2021 Education Scholarship & Innovation Symposium, Academy of Medical Educators, University of Colorado School of Medicine, Mar 1-5, 2021.

41. Castaneda L\*, Lockwood J, Wathen B, **Czaja AS**. Escalation of Care Outside of the Pediatric ICU: Educational Needs from a Multidisciplinary Perspective. Accepted for *poster presentation* at 2021 Education Scholarship & Innovation Symposium, Academy of Medical Educators, University of Colorado School of Medicine, Mar 1-5, 2021.
42. Castaneda L\*, **Czaja AS**. Socially-Distanced Learning: Perspectives on Instructor-Guided Virtual Simulation. Accepted for *poster presentation* at 2021 Education Scholarship & Innovation Symposium, Academy of Medical Educators, University of Colorado School of Medicine, Mar 1-5, 2021.
43. Langan ML, Mink R, Curran M, Herman B, Stafford D, **Czaja AS**, Weiss P, Turner D, Myers A. How do Clinical Competency Committees determine level of supervision for the pediatric subspecialty Entrustable Professional Activities. Accepted for *poster presentation* at the 2021 Association of Pediatric Program Directors (APPD) virtual meeting.
44. Langan ML, Curran M, **Czaja AS**, Herman B, Myers A, Stafford D, Turner DA, Weiss P, Mink R. Entrustment and Supervision: How clinical competency committees approach pediatric subspecialty entrustable professional activities. Accepted for *platform presentation* at the Pediatric Academic Societies 2021 virtual meeting.