

CURRICULUM VITAE

Ryan M Majcina, M.D.

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I. DEMOGRAPHIC INFORMATION

Current appointment:

Assistant Professor
SIU Healthcare
Department of Pediatrics
Division of Critical Care Medicine
Springfield, IL

Professional Data:

415 N Ninth Street
Suite 4W64
Springfield, IL 62794
Phone: (217)757-6655
Fax: (217)757-6654

Education and Professional Training

<u>Years</u>	<u>Institution</u>	<u>Degree/Program</u>
1998-2002	University of Notre Dame Notre Dame, IN	B.S. magna cum laude
2002-2006	Southern Illinois University School of Medicine Springfield, IL	M.D.
2006-2009	Johns Hopkins Hospital School of Medicine Baltimore, MD	Internship/Residency Pediatrics
2010-2013	Washington University School of Medicine St. Louis, MO	Fellowship Pediatric Critical Care Medicine

Professional Experience

- 2009-2010 Pediatric Hospitalist
Johns Hopkins Bayview Medical Campus
Baltimore, MD
- 2013-2014 Pediatric Intensivist
Mercy Children's Hospital
Division of Pediatric Critical Care Medicine
Department of Pediatrics
St. Louis, MO
- 2014-present Pediatric Intensivist, Assistant Professor
St. John's Children's Hospital
SIU School of Medicine
Division of Pediatric Critical Care Medicine
Department of Pediatrics
Springfield, IL

II. RESEARCH ACTIVITIES

Current Projects:

- 2016-present An Open-Label, Multicenter Study to Evaluate the Safety, Tolerability, Pharmacokinetics and Efficacy of Ceftaroline in Neonates and Young Infants with Late-Onset Sepsis. The Caspian-Sulak Study
Role: Sub-investigator
Sponsor: AstraZeneca

Previous Projects:

- 1999-2002 Effects of tamoxifen and pure anti-estrogen ICI 182,780 on the RUCA-I-hormone-responsive rat endometrial cell line.
Role: Research assistant
Mentor: Martin Tenniswood, PhD
University of Notre Dame
- 2003 Pediatric Oncology Education Program: After Completion of Therapy Clinic
Role: Research and clinical assistant
Mentor: Melissa Hudson, M.D.
St. Jude Children's Research Hospital
- 2011-2013 The Paradoxical Effect of Hyperoxia on Regional Oxygen Delivery.
Role: Principal investigator
Aim #1: Compare changes in tissue oxygen saturation decay slope and hyperemic phase under conditions of normoxia and hyperoxia using near infrared spectroscopy and vascular occlusion tests.
Mentor: Avihu Gazit, MD
Washington University School of Medicine

Publications:

1. Hudson MM, Hester A, Sweeney T, Kippenbrock S, **Majcina R**, Vear S, Wiard S, Kaplan S. A model of care for childhood cancer survivors that facilitates research. J Pediatr Oncol Nurs 2004; 21: 170-174.

Abstracts and Poster Presentations:

1. Poster Presentation: Utilization of Dynamic Near Infrared Spectroscopy to Determine Changes in Oxygen Delivery Following Hyperoxia Challenge in Pediatric Patients. St. Louis Children's Hospital Department of Pediatrics Annual Research Retreat, April 5, 2013.

Published Abstracts and Research Presentations

1. **Basnet S, Carmichael N, Majcina R, Capriolo G.** Risks of adult heparin-protocols in children admitted with venous thromboembolism. Poster presentation at the SCCM Annual Conference in Orlando, Florida, February 2016, Published in Crit Care Med. December 2015 - Volume 43 - Issue 12 - p 223 DOI: 10.1097/01.ccm.0000474713.90004.fb
2. **Basnet S, Halyko M, Capriolo G, Majcina R.** Dexmedetomidine in children with obstructive lung disease to facilitate noninvasive ventilation. Poster presentation at the SCCM Annual Conference in Orlando, Florida, February 2016, Published in Crit Care Med. December 2015 - Volume 43 - Issue 12 - p 177-178 doi: 10.1097/01.ccm.0000474532.89582.5a
3. **Capriolo G, Yu X, Majcina R, Mueller G, Gilman H, Basnet S.** Improving Adherence to Hand Hygiene and Isolation Protocol Through Family Participation. Poster presentation at the SCCM Annual Conference in Honolulu, Hawaii, January 2017.

III. EDUCATIONAL ACTIVITIES

Course work:

- 2009-2010 Faculty Development Program in Clinical Teaching Skills, Johns Hopkins Bayview Medical Campus
- 2010 First Year Fellow Boot Camp: 3 day intensive simulation course, Philadelphia, PA
- 2015 Pediatric Fundamental Critical Care Support instructor training course, Phoenix, AZ
- 2015 Current Concepts in Pediatric Critical Care, Phoenix, AZ
- 2015 Society for Pediatric Sedation Conference, St. Louis, MO

Invited Lectures and Teaching:

- 2014 An Adolescent with Mental Status Changes and Metabolic Abnormalities. Mercy Children's Hospital Grand Rounds, St. Louis, MO
- 2014-2016 Pediatric resident core lecture series
Developed new core lectures for neurological emergencies, pharmacology, pediatric drowning, pediatric poisoning, and death and dying

- 2016 The Impact of Traumatic Stress on Hospitalized Children and Their Families. St. John's Children's Hospital Grand Rounds, April 2016, Springfield, IL
- 2016 Pediatric Fundamental Critical Care Support course instructor, May 2016, Springfield, IL

Quality Improvement:

- 2014-2015 Development and implementation of pediatric intensive care unit pneumonia and empyema order set
- 2015 Development of intravenous hydration protocol for pediatric nuclear medicine scans
- 2015 PICU case conference: bimonthly meeting to review indications and appropriateness of patients transferred to outside hospitals
- 2016-2017 Director of Pediatric Critical Care Medicine Journal Club

IV. CLINICAL ACTIVITY

Certification:

Licensure

2009	Maryland	(inactive)
2013	Missouri	(inactive)
2014	Oklahoma	(inactive)
2014	Illinois	(active)

Board Certification

2008	National Board of Medical Examiners
2009	American Board of Pediatrics
2014	American Board of Pediatrics – Subboard of Pediatric Critical Care Medicine

Other Certification

2007-present	Pediatric Advanced Life Support
2013-present	Basic Life Support
2015-present	Pediatric Fundamental Critical Care Support - Instructor

Service Responsibilities:

- 2009-2010 Attending Physician, Pediatric Hospitalist, Johns Hopkins Bayview Medical Campus. Duties include medical management of pediatric patients in the emergency room and on the inpatient ward and precepting medical students and physician assistants.
- 2010-2013 Pediatric Critical Care Fellow, St. Louis Children's Hospital, Washington University School of Medicine. Duties include serving as the primary medical provider for patients in a 12 bed pediatric cardiac intensive care unit and 26 bed pediatric intensive care unit. Other responsibilities include leading morning rounds, providing critical care lectures to residents, transporting critically ill children from referring hospitals,

preparing conferences for morbidity and mortality, journal club and case of the month.

2013-2014 Attending Physician, Pediatric Critical Care, Mercy Children's Hospital. Duties include primary medical provider for critically ill medical, surgical, and trauma patients in a 12 bed pediatric intensive care unit.

2014-present Attending Physician, Pediatric Critical Care, St. John's Children's Hospital. Duties include taking all pediatric transport calls from referring hospitals and serving as primary medical provider for critically ill medical, surgical, and trauma patients in a 10 bed pediatric intensive care unit.

V. ORGANIZATIONAL ACTIVITIES

Committee Work:

2006-2009 Harriet Lane Clinic Resident Advisory Committee: Involved with various quality improvement initiatives and strategies to improve patient care and resident education in the Harriet Lane Clinic

2009-2010 Harriet Lane Pediatric Service Resident Selection Committee. Interviewed applicants and submitted recommendations to program directors

2012-2013 Go Team: Member of St. Louis Children's Hospital safety and quality improvement committee

2012-2013 Procedures and Sedation Working Group: Member of St. Louis Children's Hospital pediatric intensive care unit committee focusing on safety and quality improvement during pediatric procedures and sedations

2014-present St. John's Children's Hospital PICU combined committee for safety and quality member

2014-present St. John's Children's Hospital sedation committee member

2014-present Southern Illinois University School of Medicine Resident Recruitment Committee

2014-present Southern Illinois University School of Medicine Year 3 Transformation Committee

2015-2016 Pediatric Throughput Committee: Assisted in development of pediatric admission, discharge and transfer criteria for inpatient pediatrics

2017-present PEP Selective Director

Membership:

2010-present Member, Society of Critical Care Medicine

2014-present Fellow, American Academy of Pediatrics

Volunteer Activities:

2003-2004 Teaching drug and AIDS awareness to high school students
2004 Camp counselor for childhood cancer survivors
2003-2006 American Cancer Society Mentoring Program
2014-present Faculty observer for medical student clinical competency exams
2016-2017 Faculty facilitator for medical student Physician Attitude and Conduct Curriculum on Death and Dying
2016 Faculty facilitator for medical student teaching case

Mentor:

2015-2016 Advisor for pediatric resident Gina Akopyan
2016-2017 Advisor for pediatric resident Manasi Hulyalkar

VI. RECOGNITION

Honors/Awards

2003 Southern Illinois University 14th Annual Combined Research Symposium: 2nd place winner
2003 Illinois General Assembly Scholarship Winner
2016 Department of Pediatrics Medical Student Preceptor of the Year
2017 SCCM 46th Critical Care Congress Star Research Achievement Award