

CURRICULUM VITAE

Adam O. Szadkowski MD

**Assistant Professor
Department of Pediatrics
Division of Pediatrics Critical Care**

OFFICE ADDRESS:

9000 West Wisconsin Avenue

Milwaukee, WI 53226

EDUCATION:

2001 - 2005 B.S. Biology, Cum Laude, St. Norbert College, De Pere, WI

2007 - 2011 MD, University of Wisconsin School of Medicine and Public Health, Madison, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

04/2011 - 05/2011 Pediatric ER clerkship, University of Queensland, Brisbane, Australia

2011 - 2014 Internship and Residency in Pediatrics, Children's Hospital of Richmond at Virginia Commonwealth University, Richmond, VA

01/2014 - 02/2014 Pediatric hospitalist clerkship, University of Cape Town, Cape Town, South Africa

2014 - 2017 Fellowship in Pediatric Critical Care Medicine, UW Health American Family Children's Hospital, Madison, WI

2017 - 2018 Advanced Fellowship in Pediatric Cardiac Critical Care Medicine, Royal Children's Hospital, Melbourne, Australia

2018 - 2019 Advanced Fellowship in Pediatric Cardiac Critical Care Medicine, Pediatrics, Critical Care, Medical College of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226

FACULTY APPOINTMENTS:

06/2013 - 06/2014 Pediatric Urgent Care Provider, Pediatrics, Peds Care After Hours Clinic, Richmond, VA

09/2018 - 07/2020 Instructor, Pediatrics, Critical Care, Medical College of Wisconsin, Children's Hospital of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226

07/2020 - Present Assistant Professor, Pediatrics, Critical Care, Medical College of Wisconsin, Children's Hospital of Wisconsin, 9000 W Wisconsin Ave, MS 681, Wauwatosa, WI 53226

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Pediatrics		None

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
DEA		2013	None
Basic Life Support	AHA		03/2023
Pediatric Advance Life Support	AHA		03/2023

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Commonwealth of Virginia Medical License		02/2013	02/2016

Australian Medical
Practitioner License

07/2017

None

AWARDS AND HONORS:

2001 Trustee's Distinguished Scholarship , St. Norbert College
2004 Beta Beta Beta , National Biological Honor Society
2004 Summer Program for Undergraduate Research Award
2005 Cum Laude (Biology), St. Norbert College
2016 UW Health "People's Choice Award" Quality and Safety Week, UW Health

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2011 - Present American Academy of Pediatrics (Member)
2014 - Present Society of Critical Care Medicine (Member)

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2007 - 2009 Co-President, Doctors Ought to Care, Student-run program designed to promote healthy lifestyles for students K-12, University of Wisconsin, Madison, WI.
06/2011 - 05/2012 Volunteer Reviewer, PREP Audio Resident Panel, American Academy of Pediatrics
06/2014 - 06/2015 Delegate, Residency Program, American Academy of Pediatrics, Richmond VA

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: ACEND STUDY in ECMO patients
prospective chart review
Source: Medical College of Wisconsin,
Milwaukee, WI
Role & Effort: Clinical lead investigator
Dates: 07/2021 - Present

Title: Bivalrudin vs. Heparin in ECMO
patients retrospective chart review
Source: Medical College of Wisconsin,
Milwaukee, WI
Role & Effort: Clinical lead investigator
Dates: 07/2021 - Present

Title: Intra-abdominal compressions quality
initiative
Source: Medical College of Wisconsin,
Milwaukee, WI
Role & Effort: Clinical lead investigator
Dates: 09/2021 - Present

Prior

Peer Review

Title: Effects of Heme Mutations on the Outer
Membrane Cytochromes of the
Bacterium Shewanella Oneidensis
Source: Medical College of Wisconsin
Role & Effort: Investigator
PI: Charles Myers, PhD
Dates: 05/2004 - 08/2004

Title: Effect of PCBs on the Immune System of Mice
Source: St. Norbert College
Role & Effort: Investigator
PI: John Phythyon, PhD
Dates: 01/2005 - 07/2005

Title: Role of Thioredoxin reductase and stress in human endothelial cells
Source: Medical College of Wisconsin
Role & Effort: Investigator
PI: Charles Myers, PhD
Dates: 05/2005 - 08/2007

Title: Early Identification of Critically Ill Pediatric Patients at VCU using the Pediatric Early Warning System (PEWS)
Role & Effort: Investigator
PI: Mark Marinello, M.D.
Dates: 06/2012 - 07/2014

Title: Implementation of a Pediatric Rapid Response Team (PRRT)
Source: American Family Children's Hospital
Role & Effort: Investigator
PI: Melissa Cercone, M.D.
Dates: 08/2014 - 06/2017

Title: High Flow Nasal Cannula Use and Weaning in a Pediatric ICU. Primary academic research project involving HFNC use in an academic ICU setting.
Role & Effort: Investigator
PI: Michael, Wilhelm, MD
Dates: 06/2015 - 06/2017

Title: NEAR4KIDS project
Source: Royal Children's Hospital Melbourne, Australia
Role & Effort: Clinical lead investigator
Dates: 08/2018 - 08/2020

Non-Peer Review

Title: Summer Program for Undergraduate Research Grant
Source: Medical College of Wisconsin
Department of Pharmacology of Toxicology
Dates: 06/2004
Direct Funds: \$3,000

Title: Beta Beta Beta Society Undergraduate Research Grant
Source: St. Norbert College funded grant for microbiology research on PCBs.
Dates: 01/2005
Direct Funds: \$1,000

Title:	UW Family Medicine Externship Summer Grant
Source:	ThedaCare Family Physician Group in Kimberly, WI.
Role & Effort:	Externship
PI:	Dr. Moard
Dates:	06/2008
Direct Funds:	\$3,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

National

- Szadkowski, A.O., Site Directed Mutagenesis of Outer Membrane Cytochromes in *Shewanella Oneidensis* MR-1., Poster presented: 15th Annual Argonne National Laboratory Undergraduate Symposium, Chicago, IL, 11/2004
- Szadkowski, A.O., Mahmood, N., . Early Identification of Critically Ill Pediatric Patients At An Academic Medical Center, Poster presented: 2013 American Academy of Pediatrics (AAP) National Conference and Exhibition, Orlando, FL, 10/2013
- Szadkowski, A.O., Hagen, S., Srinivasan, S., Cercone, M, From Pilot to Policy: Implementation of a Pediatric Rapid Response Team Using Kotter's Model for Change, Poster presented: Association of Pediatric Program Directors Annual Spring Meeting;, New Orleans, LA, 03/2016
- Szadkowski, A.O., Wilhelm M., Limjoco J., McCulley D., Leys C., Al-Ali, Y., Al-Subu, A, Neurally adjusted ventilatory assist weaning of neonates with congenital diaphragmatic hernia., Oral presentation: Society for Critical Care Medicine National Congress, Honolulu, HI, 01/2017
- Szadkowski, A.O., Woods, R., Evolving Understanding of Total Artificial Heart Support of Young Infants and Children, 16th International Conference on Pediatric Mechanical Circulatory Support Systems & Cardiopulmonary Perfusion, Cincinnati, OH, 08/26/2021 - 08/27/2021

Regional

- Szadkowski, A.O., Myers, C.R., Oxidation of the Human Endothelial Cytosolic and Mitochondrial Thioredoxins by Acrolein, Poster presented: Free Radical Biology & Medicine 14th Annual Meeting;, Washington, DC, 11/2007
- Szadkowski, A.O., Wilhelm, M., High Flow Nasal Cannula Impact on Bronchiolitis Scores in the PICU, Poster presented: Midwest Society of Pediatric Research Conference, Chicago, IL, 09/2016

Local

- Szadkowski, A.O., Using Immunofluorescence to Measure the Effects of PCBs on the Immune System of Mice., Poster presented: Beta Beta Beta North Central District 1 Convention, Green Bay, WI., 04/2004
- Szadkowski, A.O., Mahmood, N., Implementation and Evaluation of Pediatric Early Warning System at Children's Hospital of Richmond., Poster presented: VCUHS Resident Research Day, Richmond, VA, 06/2013
- Cape Town, South Africa: A Pediatric Clerkship experience, Pediatric Resident Lecture Series, Children's Hospital of Richmond; Richmond, VA., 04/2014
- Fluid management in Critically Ill Children, PICU Lecture Series, Children's Hospital of Richmond; Richmond, VA., 06/2014
- Hyperosmolar hyperglycemia, UW Health PICU Fellow Case Review Lecture Series, American Family Children's Hospital; Madison, WI, 11/2014
- Pediatric Trauma, UW Health PICU Nursing Staff Annual Educational Series, American Family Children's Hospital; Madison, WI, 04/2015
- Implementation of a HFNC scoring system in the PICU, UW Health PICU Fellow Research Lecture Series, American Family Children's Hospital; Madison, WI, 06/2015
- Prophylactic Intravenous Use of Milrinone After Cardiac Operation in Pediatrics, UW Health PICU Fellow Journal Club Series, American Family Children's Hospital; Madison, WI, 08/2015
- 6 months of PRRT data collection, Pediatric Resuscitation Review Committee Meeting, American Family Children's Hospital; Madison, WI, 10/2015
- Complications of disseminated Group A Strep, UW Health PICU Fellow Case Review Lecture Series,

American Family Children's Hospital; Madison, WI, 10/2015

Szadkowski, A.O., Implementing a Pediatric Rapid Response Team at American Family Children's Hospital, Poster presented: 2015 UW Health Safety Fair, Madison, WI, 10/2015

From pilot to policy: Implementation of PRRT at AFCH, UW Health Quality Council Meeting, UW Health Hospital; Madison, WI, 12/2015

Early goal directed therapy in the treatment of severe sepsis and septic shock, UW Health PICU Fellow Journal Club Series, American Family Children's Hospital; Madison, WI, 02/2016

Obstructive lung disease and status asthmaticus, UW Health PICU Fellow Lecture Series, American Family Children's Hospital; Madison, WI, 02/2016

Metabolic Emergencies, UW Health CHETA EMS Lecture Series, UW Health Hospital; Madison, WI, 02/2016

HFNC Scoring QI Project: Results follow up, UW Health PICU Clinical Research Lecture Series, American Family Children's Hospital; Madison, WI, 02/2016

Szadkowski, A.O., Hagen, S., Srinivasan, S., Cercone, M, Implementation of a Pediatric Rapid Response Team As Hospital Policy, Poster presented: Annual UW Health Quality Improvement Symposium, Madison, WI, 04/2016

Heparin Resistance and ECMO: A recipe for disaster, UW Health PICU Fellow Journal Club Series, : American Family Children's Hospital; Madison, WI, 05/2016

Szadkowski, A.O., One year review: Implementation of a Pediatric Response Team at AFCH, Oral presentation: UW Pediatric Research Day, Madison, WI, 05/2016

Status Epilepticus, UW Health PICU Fellow Resident Lecture Series, American Family Children's Hospital; Madison, WI, 08/2016

Transfusion Requirements in the PICU, UW Health PICU Fellow Journal Club Series, American Family Children's Hospital; Madison, WI, 12/2016

The Effects of Early and Repeated Prone Positioning in Pediatric Patients With Acute Lung Injury, UW Health PICU Fellow Journal Club Series, American Family Children's Hospital; Madison, WI, 02/2017

ECMO: The Ultimate Support for the Cardiopulmonary System, UW Health PICU Nursing Staff Annual Educational Series, American Family Children's Hospital; Madison, WI, 03/2017

Urgent Patient Assessments: What do I do?, Intern Prep Course, University of WI Medical School, Madison, WI, 04/2017

11 year old with idiopathic subglottic stenosis, UW Health PICU Fellow Case Review, American Family Children's Hospital; Madison, WI, 04/2017

Szadkowski, A.O., High Flow Nasal Cannula in Children: Hocus Pocus or Validated Effectiveness?, Oral Presentation. University of Wisconsin Pediatric Grand Rounds, Madison, WI, 04/2017

Understanding Norwood Physiology, Royal Children's Hospital Melbourne; Melbourne, Australia, 02/2018

HFNC use in Bronchiolitis, where are we now?, Children's Hospital of Wisconsin, Milwaukee, WI, 02/2019

Cardiopulmonary interactions, Children's Hospital of Wisconsin, Milwaukee, WI, 08/2020

Etiometry use in the ICU, Children's Hospital of Wisconsin, Milwaukee, WI, 08/2021

COMMITTEE SERVICE:

Hospital

2008 - 2009 Member, University of Wisconsin School of Medicine Office of Admissions Committee, University of Wisconsin School of Medicine Office of Admissions – Madison, WI

07/2014 - 06/2017 Committee Member, Pediatric Resuscitation Review Committee, UW American Family Children's Hospital, Madison, WI

01/2015 - 06/2017 Committee Member, Pediatric Clinical Research Committee, UW American Family Children's Hospital, Madison, WI

EXTRAMURAL TEACHING:

Medical Student Education

01/2015 - 05/2017 UW School of Medicine and Public Health, Madison, WI., Instructor for Patient Doctor and Society class with first and second year medical students

06/2016 UW School of Medicine and Public Health, Madison, WI., Instructor for Year End Professional Skills Exam for 3rd year Medical Students

Resident and Fellow Education

02/2019 Medical College of Wisconsin, Children's Wisconsin, Milwaukee, WI, Instructor for Pediatric Airway Course

Continuing Medical Education

04/2015 - 06/2017 UW American Family Children's Hospital, Madison, WI, Instructor for continued education, Pediatric Rapid Response System

Nursing Student Education

01/2015 - 03/2015 UW American Family Children's Hospital, Madison, WI, Instructor, PICU nurse trauma lecture series

COMMUNITY SERVICE ACTIVITIES:

- 2007 - 2008 Health Professionals Mentoring Program – Madison, WI Mentor for high school students looking to pursue a career in healthcare
- 2007 - 2008 MEDiC Community Clinic Volunteer – Madison, WI Provided free medical screenings to uninsured members of the local community
- 2010 - 2011 Volunteer Physician, Virginia Commonwealth University – Richmond, VA Performed free sports physicals for uninsured student athletes

LANGUAGES:

English (native) Spanish (semi fluent) Polish (semi fluent)

BIBLIOGRAPHY**Refereed Journal Publications/Original Papers**

1. Szadkowski A, Myers CR. Acrolein oxidizes the cytosolic and mitochondrial thioredoxins in human endothelial cells. Toxicology. 2008 Jan 14;243(1-2):164-76. PMID: PMC2220080
2. Myers CR, Myers JM, Kufahl TD, Forbes R, Szadkowski A. The effects of acrolein on the thioredoxin system: implications for redox-sensitive signaling. Mol Nutr Food Res. 2011 Sep;55(9):1361-74. PMID: PMC3517082

Books, Chapters, and Reviews

1. Szadkowski, A.O., Wilhelm, M. Electrolyte Abnormalities. Fundamentals of Pediatric Surgery. 2017, p63-67. ISBN: 978-319-27441-6.