

SARA MURPHY MBA, RRT, RRT-NPS, RRT-ACCS, AE-C

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EDUCATION

MBA	National Louis University, Management GPA 4.0	2013-2014
BS	National Louis University, Management GPA 4.0	2010-2011
AAS	Triton College, Respiratory Care Phi Theta Kappa GPA 3.97 Presidential Honors	2003-2007

PROFESSIONAL EXPERIENCE

Rush University, Chicago, IL 2021-present
Instructor
Department of Cardiopulmonary Sciences, Division of Respiratory Care

Rush University, Chicago, IL 2016-2018
Adjunct Faculty Member
Department of Cardiopulmonary Sciences, Division of Respiratory Care

Rush University Medical Center, Chicago, IL 2007-present
Neonatal/Pediatric Clinical Educator, 2019
RT 3 NICU specialist, 2012
Schedule Coordinator, 2012
ECMO specialist, 2008-2014
Day Shift Charge Therapist, 2008
Advanced Practitioner, 2008-2012
Neonatal/Pediatric Respiratory Therapist, 2007

- Assess patient oxygenation, ventilation, and hemodynamic status through clinical observation, patient assessment, physiologic monitoring including oximetry, capnography, ventilator waveform analysis, ECG, and laboratory values in the Neonatal and Pediatric ICUs and General Pediatric Floor
- Attend high risk obstetrics deliveries in labor and delivery suites and operating rooms
- Assemble, perform operation verification procedure, and operate mechanical ventilators (including high frequency), therapeutic gas administration devices (heliox, nitrogen, and nitric oxide), bronchial hygiene devices, and aerosol delivery
- Provide emergency care with multidisciplinary team at codes and rapid responses in the NICU, PICU, L&D, Antepartum and Post-Partum Unit, and Emergency Room; which

includes manual ventilation, assistance with intubation, and assistance with cardiopulmonary resuscitation

- ECMO specialist duties included assisting with initiation and discontinuance of ECMO support, maintaining support, drawing blood gases, and administering blood products
- External and internal transport of patients requiring non-invasive and invasive respiratory support.
- Precept and educate respiratory therapy students and new employees
- Assist with the creation and modification of policies and clinical competencies
- Develop Respiratory Therapist driven protocols
- Data manager
- Provide charge therapist duties; assigns/reassigns workload for staff, updates department information management systems during the shift, prepares workload assignments for the next shift

Northwestern Memorial Hospital, Chicago, IL

2005-2007

Respiratory Technician

- Oxygen cylinder rounds
- Provide emergency care, which includes manual ventilation, assistance with intubation, and assistance with cardiopulmonary resuscitation.
- Oxygen therapy rounds, aerosol therapy, bronchial hygiene, and treatment of cystic fibrosis patients.

LICENSURE AND SPECIALTY CERTIFICATIONS

Illinois Department of Financial and Professional Regulation

2007-present

- Licensed Respiratory Care Practitioner

National Asthma Educators

2020

- Certified Asthma Educator

American Heart Association

2007-present

- PALS
- BLS

American Academy of Pediatrics

- *Neonatal Resuscitation Program Certification*
 - *Certified Instructor*

2007-present

2019-present

PUBLICATIONS

Journal Publications

Murphy, S.J., Geistkemper, A., and Berenz, A., “Jet Ventilation Algorithm Decreases Variations in Practice,” *Respiratory Care*, vol 66, no. 10, 2021, 3609639.

Lawrence, C., Mohr, L. D., Geistkemper, A., **Murphy, S.J.**, and Fleming, K. Sustained Reduction of Nasal Pressure Injuries in the Neonatal Intensive Care Unit With the Use of Bubble Continuous Positive Airway Pressure: A Quality Improvement Project, has been published in *Journal of Wound Ostomy & Continence Nursing* in Vol. 48, No. 2, March/April 2021.

Murphy, S.J. and Dugan, K., “Transitioning to a New Brand of Surfactant Resulted in Fewer Administered Doses and Provided Potential Cost Savings,” *Respiratory Care*, vol 65, no 10, 2020, 3443448.

Murphy, S.J., and Dugan, K., “Procedure Change Decreases Likelihood of Adverse Events During Surfactant Administration,” *Respiratory Care*, vol 65, no 10, 2020, 3443430

Murphy, S.J. and Geistkemper, A., "Benefits of BCPAP Guidelines and the Reduction of BPD in the NICU, " *Respiratory Care*, vol. 64, no. 10, 2019, 3229360

Murphy, S.J., Fleming, K., Geistkemper, A., Lawrence, C., Silvestri, J.M., and Panagos, P.G., “Reducing Unplanned Extubations in the Neonatal ICU Through Plan-Do-Study-Act Cycles and Quality Improvement Methods,” *Respiratory Care*, vol. 63, no. 10, 2018, 3016047.

Fleming, K., Panagos, P.G., Roberts, K.M., **Murphy, S.J.**, Welsh, K., Webb, T.A., Silvestri, J.M. and Powell, S., “Decreasing INO Waste: A Quality Improvement Project to Reduce Non-Indicated Use of Inhaled Nitric Oxide in the Neonatal Intensive Care Unit Through Practice Guidelines,” *Respiratory Care*, vol. 63, no. 10, 2018, 3025834.

Geistkemper, A., **Murphy, S.J.**, Fleming, K., Lawrence, C., Silvestri, J.M., and Hernandez, L. “Eliminating Device Related Hospital Acquired Pressure Injuries in the Neonatal Intensive Care Unit through Quality Improvement Methods,” *Respiratory Care*, vol. 63, no. 10, 2018, 3024435

PRESENTATIONS AND INVITED LECTURES

Poster Presentation, Rush University Medical Center, “Reducing Unplanned Extubation in the NICU,” Quality and Safety Fair, 2022

Open Forum, American Association for Respiratory Care, “Jet Ventilation Algorithm Decreases Variations in Practice,” 67th International Respiratory Convention and Exhibition, 2021.

Open Forum, American Association for Respiratory Care, Transitioning to a New Brand of Surfactant Resulted in Fewer Administered Doses and Provided Potential Cost Savings,” 66th International Respiratory Convention and Exhibition, 2020.

Open Forum, American Association for Respiratory Care, “Procedure Change Decreases Likelihood of Adverse Events During Surfactant Administration,” 66th International Respiratory Convention and Exhibition, 2020.

Open Forum, American Association for Respiratory Care, “Benefits of BCPAP Guidelines and the Reduction of BPD in the NICU,” 65th International Respiratory Convention and Exhibition, 2019.

Poster Presentation, Vermont Oxford Network, “Decreasing Inhaled Nitric Oxide Waste: A Quality Initiative Project to Reduce Non-indicated Use Of iNO in the Neonatal Intensive Care Unit through Practice Guidelines” Improvement Science Exposition, 2019.

Poster Presentation, Vermont Oxford Network, “Benefits of BCPAP on the Reduction of Pressure Injury and BPD in the NICU,” Improvement Science Exposition, 2019.

Lecture, Malayalee Association for Respiratory Care, “Benefits of BCPAP on the Reduction of Pressure Injury in the NICU,” 2019.

Lecture, ISRC Chapter 2 51st Annual Conference and Exhibition, “Benefits of BCPAP on the Reduction of Pressure Injury and BPD in the NICU,” 2019.

Poster Presentation, Rush University Medical Center, “Reducing Unplanned Extubation in the NICU: The Ongoing Neonatal Endeavor PDSA Cycles’ Effect On a Quality Improvement Project for Reducing Unplanned Extubations in the NICU,” Quality and Safety Fair, 2018.

Poster Presentation, Rush University Medical Center, “Implementing Guidelines for the Use of Nitric Oxide to Manage Costs in the NICU,” Quality and Safety Fair, 2018.

Poster Presentation, Vermont Oxford Network “Reducing Unplanned Extubation in the NICU: The Ongoing Neonatal Endeavor PDSA Cycles’ Effect On a Quality Improvement Project for Reducing Unplanned Extubations in the NICU,” Improvement Science Exposition, 2017.

Poster Presentation, Rush University Medical Center, “Eliminating Device Related Pressure Ulcers in the NICU,” Quality and Safety Fair, 2017.

Poster Presentation, Rush University Medical Center, “Reducing Unplanned Extubation in the NICU,” Quality and Safety Fair, 2017.

Poster Presentation, Rush University Medical Center, “Rush Safely into the New NICU,” Quality and Safety Fair, 2014.

ISRC Chapter 2 Neonatal Pediatric Seminar, “Ventilating a patient through a cannula,” A panel discussion on the RAM and F&P cannula, 10/2013.

Lecture, ISRC Chapter 2 Neonatal Pediatric Seminar, “Alternatives to ECMO,” 10/2011.

PROFESSIONAL TRAINING

EPIC SuperUser	2021/2010
Managing for Excellence Rush University Medical Center	2021
<ul style="list-style-type: none">• Cultural Competence and Implicit Bias• Conflict Resolution• Navigating and Adapting to Change	
Women's Leadership Academy Mentorship Program-Mentee Rush University Medical Center	2021
Personal Protective Equipment SuperUser Rush University Medical Center	2020
Leading with Distinction Rush Leadership and Learning Academy, Rush University Medical Center	2019
<ul style="list-style-type: none">• Build and strengthen core management and leadership skills. Understanding behavior styles through DiSC, building SMART goals, effective communication skills, successful motivation, and conflict resolution.	
Crucial Conversations VitalSmarts, Rush University Medical Center	2019
<ul style="list-style-type: none">• Creating a crucial conversation culture	
Continued Pursuit of Excellence Daily Management Systems IBM Watson Health, Rush University Medical Center	2018
<ul style="list-style-type: none">• Targeted program to increase value without adding costs, close care gaps and align with quality measures.	
AARC Clinical PEP American Association for Respiratory Care, Rush University Medical Center, 2014-present	
<ul style="list-style-type: none">• Principles of an effective preceptor, principles of adult learning, precepting a challenging learner, and evaluation and feedback.	
Draeger Monitor SuperUser Rush University Medical Center	2013

PROFESSIONAL AFFILIATIONS

Illinois Society for Respiratory Care	2011-present
<ul style="list-style-type: none">• Program Planning Committee Member	2019-present
<ul style="list-style-type: none">• Chapter 2 Committee Member	2019-present
<ul style="list-style-type: none">• Nominations/Elections Committee Member	2021

American Association for Respiratory Care 2011-present

- *Neonatal Pediatric Specialty Section Member*
- *Transport Specialty Section Member*
- *Education Specialty Section Member*

National Board for Respiratory Care

- *Adult Critical Care Specialist* 2021
- *Neonatal Pediatric Specialist* 2008
- *Registered Respiratory Therapist* 2007
- *Certified Respiratory Therapist* 2007

PROFESSIONAL SERVICE

Neonatal Pediatric Respiratory Therapy Staff Competencies 2008 - Present

- Developed, designed, and performed initial and annual staff competencies

Operational Policy and Procedure 2009 - Present

- Committee Chair 2019 - Present
- Developed and updated Respiratory Policies and Procedures
 - High Humidity Nasal Cannula, Aeroneb, Ventilator Orders, Suctioning Mechanically Ventilated Patients, Cough Assist, Nitric Oxide, Jet, Continuous Medication Nebulization, Surfactant, Bronchopulmonary Dysplasia Challenge, Neo Tee Resuscitator, Bubble CPAP, Transport of Mechanically Ventilated Patients, Therapy Vest, HFOV, Heliox

In-services and Education 2010 -Present

- Provided education to Neonatal Pediatric Respiratory and NICU Nursing staff
 - ServoI and NAVA 2018
 - Voyager Transport Bed Training and Education 2017
 - PANDA® Bed instruction 2016
 - Puritan Bennett 980 Ventilator 2015
 - pNeuton Mini MRI Ventilator 2015
 - Chest Radiograph Positioning and Interpretation for the Neonate 2014
 - Unplanned Extubation 2014
 - Endotracheal Tube Securement 2014
 - VitalSync Application Initiation, Utilization, and Management 2014
 - AirLife CPAP 2013
 - Air trapping and Ventilator Graphics Education 2013
 - Types of Tracheostomy Tubes and Tracheostomy Care 2011
 - High Frequency Jet and Oscillator Ventilator Utilization and Management 2011
 - MVP and Crossvent 2i Transport Ventilator 2010
 - Inhaled Nitric Oxide for External Transport 2010

Protocol and Guidelines 2012 - Present

- Developed, designed, and performed education to multidisciplinary medical team which included Respiratory Therapists, Nursing, Neonatal Physicians, Residents, Neonatal Nurse Practitioners
 - Jet Ventilation Protocol 2019
 - NAVA Protocol 2018
 - NICU Nitric Protocol 2017
 - Neonatal Ventilator Protocol Revision 2017
 - Bubble CPAP Protocol 2015
 - RT2 Orientation Guidelines 2014
 - Neonatal Ventilator Protocol 2013
 - Bronchopulmonary Dysplasia Challenge 2012
 - Surfactant Administration 2012
 - Ventilator Associated Pneumonia Guidelines 2012

NICU Nursing Staff Skills Competencies 2013 - Present

- Developed, designed, and performed hands-on annual skills competencies
 - Flow inflating bag usage, AirLife CPAP, Suctioning, Surfactant, Jet Ventilation, HFOV, Nitric Oxide, Conventional Ventilation, Tracheostomy Care, Blood Gas Interpretation, Bubble CPAP

Projects 2013 – Present

- Middleware 2014
 - Co-developed alarms, alarm escalation, testing of alarm deployment to clinical phones
 - Developed education for initiation of program deployment and device synchronization
 - Provided troubleshooting for program software
- Vital Sync 2014
 - Developed education for initiation of program deployment
 - Provided troubleshooting for program software
- NICU Handbook 2013
 - Updated Respiratory Section of Educational Handbook
- Test Pilot 2013
 - Participated in the development and performance of simulation to new NICU single patient environment

Consultation Services

- INOMax Plus MRI Validation Testing 2015

AWARDS

Clinical Excellence and Top Quality Award Rush University Medical Center, “
Quality and Safety Fair 2022

AARC Education Section Preceptor Recognition, AARC 2021

Class of 2021-2022

AARC Education Section Preceptor Recognition, AARC Class of 2020-2021	2020
Good Catch, Rush University Medical Center Patient Safety	2018
Most Impactful Safety Improvement, Rush University Medical Center Eliminating Device Related Pressure Ulcers in the NICU	2017
Team of the Quarter, Rush University Medical Center NICU Middleware Team	2014

COMMUNITY SERVICE

Cradles to Crayons Book Drive Speech Language Pathology Rush University Medical Center	5/2022
Emerging Advocates Program The American Migraine Foundation	5/2022
Partners for Asthma Action: Community Health Workers Asthma Training American Lung Association	3/2021
Covid-19 Vaccine Clinic Rush University Medical Center	3/2021
Protect Chicago Plus Program Austin Community Covid-19 Vaccine Outreach Clinic Rush University Medical Center	3/2021
The Rush Education & Career Hub with Spark Lab Legacy Charter School	2019
Band-Aid Drive, Rush University Medical Center Child Life	8/2021
Halloween Gift Collection, Rush University Medical Center Child Life	10/2020
Christmas Gift Collection, Rush University Medical Center Child Life	12/2020

REFERENCES

Available upon request