

THE CHILDREN'S HOSPITAL OF PHILADELPHIA
CURRICULUM VITAE

July 10, 2018

Natalie Napolitano, MPH, RRT-NPS, AE-C, CTTS, FAARC

Office Address: The Children's Hospital of Philadelphia
Respiratory Therapy Department
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Philadelphia, Pennsylvania 19104

Citizenship: USA

Education:
1996-2000 BSRT Gannon University, Erie, Pennsylvania
2009-2011 MPH The George Washington University, Washington, DC

Professional Experience:

5/2012 – Present	<i>Children's Hospital of Philadelphia Philadelphia, PA</i> Clinical Specialist, Research: 5/2012 - present Program Director – Tobacco Dependence Program: 1/15- present
8/2018 – Present	<i>University of Pennsylvania School of Nursing Philadelphia, PA</i> Research Project Manager – Respiratory Therapy, PROSpect Trial
1/2001 – 7/2012	<i>Inova Fairfax Hospital/Inova Fairfax Hospital for Children Falls Church, VA</i> Pediatric Clinical Manager-Respiratory Care: 12/2006 – 6/2010 Respiratory Care Practitioner 4: 7/2006 – 12/2006 Respiratory Care Team Leader: 3/2005 – 7/2006, 9/2010 – 3/2012 Respiratory Care Practitioner, Relief Charge: 7/2004 – 3/2005 Respiratory Care Practitioner, RCP-3: 9/2003 – 3/2005 Respiratory Care Patient Educator: 8/2002 – 3/2005 Respiratory Care Practitioner, RCP-2: 1/2001 – 9/2003
5/2006 – 12/2007	<i>The George Washington University Medical Center Washington, DC</i> Team Leader, 5/2006 – 12/2006
4/1998 – 12/2000	<i>Hamot Medical Center Erie, PA</i>

Respiratory Therapist, 8/00 – 12/00
Respiratory Technician, 4/ 98 – 8/00

Specialty Certification:

1998 - Present	BLS Instructor
9/15/2000	Certified Respiratory Therapist
3/7/2002	Registered Respiratory Therapist, #81059
5/20/2002	Neonatal Pediatric Specialist
4/30/2003 – Present	Nationally Certified Asthma Educator
9/18/2015 – Present	Certified Tobacco Treatment Specialist
2015 - Present	PALS Instructor

Licensure:

Pennsylvania, # YM007261L

Awards, Honors, and Membership in Honorary Societies:

2004	Neonatal/Pediatric Specialist Practitioner, AARC
2010	James P Baker Award, Virginia Society for Respiratory Care
2011	Inducted as Fellow of the American Association for Respiratory Care (FAARC)

Memberships in Professional & Scientific Societies and Other Professional Activities:

Local:	1/2001 – 7/2012	<i>Virginia Society for Respiratory Care</i> , member Neonatal Pediatric Specialty Subcommittee chair: 1/2004 – 1/2007 Liaison to American Lung Association of Virginia: 3/2005 – 6/2007 President Elect: 1/2007 – 1/2008 President: 1/2008 – 1/2009 Immediate Past President: 1/2009 – 1/2010 Student Society Chair & Legislative co-chair: 1/2010 – 1/2011 Delegate: 1/2011 – 7/2012
	4/2012 – Present	<i>Pennsylvania Society for Respiratory Care</i> , member Pennsylvania Respiratory Research Collaborative, co-chair: 10/2016 - present
National:	1998 – Present	American Association for Respiratory Care, member Pediatric Acute Care Protocol Project, Committee Chair: 3/2003 – 4/2004 Protocol Implementation Task Force: 4/2004 – 1/2009 Asthma Disease Roundtable Co-Chair: 1/2014 – 1/2016 Representative to NIH NAEPP Steering Committee: 6/2009 – 12/2017 International Committee: 1/2013 – 12/2018 Board of Directors, Neonatal/Pediatric Chair: 11/2013 – 10/2016

Government Affairs Committee: 1/2015 - present
Vice President of Internal Affairs: 10/2016 –
12/2018

4/2012 – present Society for Critical Care Medicine, member

Editorial Positions:

2014 – Present Reviewer, *Respiratory Care*

Community Activities:

1994 – 2011 Muscular Dystrophy Association, Pennsylvania and Virginia/DC
Camp counselor, Pittsburgh, PA; 1994 - 2005
Camp medical team, Virginia/DC; 2002 - 2011

2003 – 2010 American Lung Association of Virginia
Asthma Camp Subcommittee, 2003 – 2008
Advocacy Committee, 3/2005 – 4/2010
Board of Directors, 3/2005 – 6/2007

2001 – 2010 Virginia Asthma Coalition, member

2002 – 2009 Northern Virginia Asthma Coalition, member

2003 – 2008 Camp ASTHMAtopia
Founder 2003
Director, 2003 – 2008

2010 – 2012 Virginia State Advisory Board for Respiratory Care, appointed member

2011 – Present Asthma & Allergy Network: Mothers of Asthmatics, Board of Directors
Vice Chair, 1/2012 – 1/2015
Chair, 1/2015 – 1/2017

Special Projects:

2011 – Present Respiratory Care Training Program in Milot, Haiti

2012 – 2013 AARC COPD Bedside Education Kit, development

Lectures by Invitation (last 5 years):

2015

April: Draeger Neonatal Care Today Conference (Columbus, OH)
Topic: Challenges in Neonatal Ventilation

May: Pennsylvania Family Practice Foundation, Asthma Summit (Philadelphia, PA)
Topic: Health Effects of Environmental Tobacco Smoke on Children & Motivational
Interviewing for Tobacco Cessation

Draeger Neonatal Care Today Conference (Boston, MA)
Topic: Challenges in Neonatal Ventilation

July: Georgia Society for Respiratory Care, CE Conference (Savannah, GA)
Topic: Can Intubation Procedures be Safer? (Neonatal – Adult topic)
Topic: Neonatal Non-Invasive Ventilation

September: Suncoast Symposium (Bonita Springs, FL)
Topic: Updates in the management of BPD

Cox College Mechanical Ventilation & Critical Care Conference (Branson, Mo)
Topic: Acute Pediatric Asthma in the ICU

October: CHOP Respiratory Conference (Philadelphia, PA)
Topic: Translating Evidence into Practice

November: AARC International Congress (Tampa, FL)
Topic: Pediatric Patient Safety in the Non-ICU Setting

2016

February: Ain Shams University Neonatal Mechanical Ventilation Conference (Cairo, Egypt)
Topics: Basics of Mechanical Ventilation, Is all CPAP created equal?, Updates in BPD management, Challenges in Neonatal Ventilation, Basics of Non-Invasive Ventilation, Basics of Waveforms, Volume Targeted Ventilation, Weaning of Ventilation

April: Pennsylvania Society for Respiratory Care Conference (King of Prussia, PA)
Topic: Evidenced Based Medicine

May: Pediatric Academic Society Conference (Baltimore, MD)
Topics: Invited Faculty Facilitator for Airway Workshop – CMAC Skills Station

June: New Jersey Society for Respiratory Care Conference (Garwood, NJ)
Topic: Therapeutic Aerosolized Hypertonic Saline

September: New York Society for Respiratory Care Conference (Syracuse, NY)
Topic: Updates in Bronchopulmonary Dysplasia

October: American Association for Respiratory Care International Conference (San Antonio, TX)
Topic: Neonatal Intubation Safety

Robert Wood Johnson Hospital Conference (New Brunswick, NJ)
Topic: Updates in Bronchopulmonary Dysplasia, Care Bundles in the PICU

2017:

April: Iowa Society for Respiratory Care (De Moines, IA)
Topic: Moving the Profession Forward – Keynote

Pennsylvania Respiratory Research Collaborative (Hershey, PA)
Topic: Evidence Based Practice, Quality Improvement, and Research in Respiratory Care

Pennsylvania Society For Respiratory Care, North Western District Conference (Erie, PA)
Topic: Intubation Safety

May: Winthrop Medical Center Neonatal Conference (Long Island, NY)
Topic: Noninvasive Ventilation of the Newborn

June: Pediatric Basic Course (Milot, Haiti)
Topic: Pediatric Respiratory Failure
Mechanical Ventilation simulation

September: New York Society for Respiratory Care Conference (Verona, New York)
Topic: Therapeutic Aerosolized Hypertonic Saline

October: American Association for Respiratory Care International Congress (Indianapolis, IN)
Topic: Pediatric HFNC: Effective and Safe?"

New Jersey Society for Respiratory Care Conference (Atlantic City, NJ)
Topic: Moving the Profession Forward

2018:

March: Oregon Society for Respiratory Care (Silverton, OR)
Topics: Aerosol Medication Delivery with High Flow Nasal Cannula
Updates in the Management of Bronchiolitis

April: Practicing at the Apex Conference (Charlottesville, VA)
Topic: Investigation and Research for the Respiratory Therapist

September: VSRC Neonatal/Pediatric Conference (Fredericksburg, VA)
Topic: Updates in the Treatment of BPD

December: American Association for Respiratory Care International Congress (Las Vegas, NV)
Topics: Passive Smoke Exposure in Children – Should we do something?"
Acute management of Congenital Diaphragmatic Hernia

2019:

March: Children's Hospital of Philadelphia Chronic Lung Disease Conference
Topic: PEEP: Many Reasons to Titrate One Setting

Bibliography:

Research Publications, peer reviewed:

Foglia EE, Ades A, **Napolitano N**, Leffelman J, Nadkarni V, Nishisaki A. Factors Associated with Adverse Events during Tracheal Intubation in the NICU. *Neonatology* 2015;108:23-29.

Rehder KJ, Giuliano JS, **Napolitano N**, Turner DA, Nuthall G, Nadkarni VN, Nishisaki A, for the National Emergency Airway Registry for Children (NEAR4Kids) Investigators and Pediatric Acute Lung Injury and Sepsis Investigator (PALISI) Network Investigators. Increased Occurrence of Tracheal Intubation-Associated Events During Nights and Weekends in the PICU. *CCM* 2015;43(12):2668-2674.

Li S, Rehder KJ, Giuliano JS, Apkon M, Kamat P, Nadkarni V, **Napolitano N**, Thompson AE, Tucker A, Nishisaki A and for the National Emergency Airway Registry for Children (NEAR4Kids) Investigators

and Pediatric Acute Lung Injury and Sepsis Investigator (PALISI) Network Investigators. Development of a Quality Improvement Bundle to Reduce Tracheal Intubation-Associated Events in Pediatric ICUs. *American Journal of Medical Quality* 2016 Jan-Feb;31(1):45-55.

Niles DE, Dewan M, Zebuhr C, Wolfe H, Bonafide CP, Sutton RM, DiLiberto MA, Boyle L, **Napolitano N**, Morgan RW, Stinson H, Leffelman J, Nishisaki A, Berg RA, Nadkarni VM. A pragmatic checklist to identify pediatric ICU patients at risk for cardiac arrest or code bell activation. *Resuscitation* 2016;99:33-37.

Ishizuka M, Rangarajan V, Sawyer TL, **Napolitano N**, Boyer DL, Morrison WE, Lockman JL, Berg RA, Nadkarni VM, Nishisaki A and for the National Emergency Airway Registry for Children (NEAR4Kids) Investigators and Pediatric Acute Lung Injury and Sepsis Investigator (PALISI) Network Investigators. The development of tracheal intubation proficiency outside the operating suite during pediatric critical care medicine fellowship training: a retrospective cohort study using cumulative sum analysis. *Pediatr Crit Care Med* 2016;17(7):e309-16

Napolitano N, Nishisaki A, Buffman HS, Leffelman J, Maltese MR, Nadkarni VM. Redesign of an Open-System Oxygen Face Mask with Mainstream Capnometer with Children. *Respiratory Care* 2017;62(1):70-44

Parker MM, Buthall G, Brown C, Biagas K, **Napolitano N**, Polikoff LA, Simon D, Miksa M, Gradidge E, Lee JH, Krishna AS, Tellez D, Bird GL, Rehder KJ, Turner DA, Adu-Darko M, Nett ST, Derbyshire AT, Meyer K, Giuliano J, Owen EB, Sullivan JE, Tarquinio K, Kamat P, Sanders RC, Pinto M, Bysani GK, Emeriaud G, Nagai Y, McCarthy MA, Walson KH, Vanderford P, Lee A, Bain J, Skippen P, Breuer R, Tallent S, Nadkarni V, Nishisaki A. Relationship between adverse tracheal intubation associated events and PICU outcomes. *Pediatr Crit Care Med* 2017 Apr;18(4):310-318.

Fin Davis K, **Napolitano N**, Li S, Buffman H, Rehder K, Pinto M, Nett S, Jarvis JD, Kamat P, Sanders RC, Turner DA, Sullivan JE, Bysani K, Lee A, Parker M, Adu-Darko M, Giuliano J, Biagas K, Nadkarni V, Nishisaki A, for NEAR4KIDS and PALISI Network Investigators. Promoters and Barriers to Implementation of Tracheal Intubation Airway Safety Bundle: A Mixed-Method Analysis. *Pediatric Critical Care Medicine* 2017 Oct;18(10):965-972.

Kojima T, Laverriere EK, Owen EB, Harwayne-Gidansky I, Sheno AN, **Napolitano N**, Rehder KJ, Adu-Darko MA, Nett ST, Spear D, Meyer K, Giuliano JS, Tarquinio KM, Sanders RC, Lee JH, Simon DW, Vanderford PA, Lee AY, Brown CA, Skippen PW, Bruer RK, Toedt-Pingel I, Parsons SJ, Gradidge EA, Glater LB, Culver K, Li S, Polikoff LA, Howell JD, Nuthall G, Bysani GK, Graciano AL, Emeriaud G, Saito O, Orioles A, Walson K, Jung P, Al-Subu, Ileyama T, Shetty R, Yoder KM, Nadkarni VM, Nishisaki A. for NEAR4KIDS and PALISI Investigators. Clinical Impact of External Laryngeal Manipulation during Laryngoscopy on Tracheal Intubation Success in Critically Ill Children. *Ped Crit Care Med* 2018 Feb;19(2):106-114..

Langhan ML, Emerson BL, Nett S, Pinto m, Harwayne-Gidansky I, Rehder KJ, Krawiec C, Meyer K, Giuliano JS, Owen EB, Tarquinio KM, Sanders RC, Shepard M, Bysani GK, Sheno AN, **Napolitano N**, Gangadharan S, Parsons SJ, Simon DW, Nadkarni VM, Nishisaki A, for NEAR4KIDS and PALISI Investigators. End-Tidal Carbon Dioxide use for Tracheal Intubation: Analysis from the National Emergency Airway Registry for Children (NEAR4KIDS) Registry. *Ped Crit Care Med* 2018;19(2):98-105.

Li S, Hsieh TC, Rehder KJ, Nett S, Kamat P, **Napolitano N**, Turner DA, Adu-Darko M, Jarvis JD, Krawiec C, Derbyshire AT, Meyer K, Giuliano JS Jr, Tala J, Taruino K, Ruppe MD, Sanders RC Jr, Pinto M, Howell JD, Parker MM, Nuthall G, Shepard M, Emeriaud G, Nagai Y, Saito O, Lee JH, Simon DW, Orioles A, Walson K, Vanderford P, Shenoi A, Lee A, Bird GL, Miksa M, Graciano AL, Bain J, Skippen PW, Polikoff LA, Nadkarni V, Nishisaki A; for National Emergency Airway Registry for Children (NEAR4KIDS) and Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network. Frequency of Desaturation and Association with Hemodynamic Adverse Events During Tracheal Intubations in PICUs. *Pediatr Crit Care Med*. 2018 Jan;19(1):e41-e50.

Gradidge EA, Bakar A, Tellez D, Ruppe M, Tallent S, Bird G, Lavin N, Lee A, Adu-Darko M, Bain J, Biagas K, Branca A, Breuer RK, Brown C, Bysani GK, Cheifitz IM, Emeriaud G, Gangadharan S, Giuliano JS, Howell JD, Krawiec C, Lee JH, Li S, Meyer K, Miksa M, **Napolitano N**, Nett, Nuthall G, Orioles A, Owen EB, Parker MM, Parsons S, Polikoff LA, Rehder K, Saito O, Sanders RC, Shenoi AH, Simon DW, Skippen PW, Tarquinio K, Thompson A, Toedt-Pingel I, Vanderford P, Walson K, Nadkarni V, Nishisaki A, for NEAR4Kids and PALISI. Effect of Location on Tracheal Intubation Safety in Cardiac Disease – Are Cardiac ICUs Safer? *Ped Crit Care Med* 2018;19(3):218-227.

Gabrani A, Kojima T, Sanders RC Jr, Sheoni A, Montgomery V, Parsons SJ, Gangadharan S, Nett S, **Napolitano N**, Tarquinio K, Simon DW, Lee A, Emeriaud G, Adu-Darko M, Giuliano JS Jr, Meyer K, Graciano AL, Turner DA, Krawiec C, Baker AM, Polikoff LA, Parker M, Harwayne-Gidansky I, Crulli B, Vanderford P, Breuer RK, Gradidge E, Branca A, Grater-Welt LB, Tellex D, Wright LV, Pinto M, Nadkarni V, Nishisaki A, NEAR4KIDS and PALISI Investigators. Downward Trend in Pediatric Resident laryngoscopy Participation in PICUs. *Pediatr Crit Care Med* 2018;19(5):e242-250.

Langhan M, Emerson B, Nett S, Pinto M, Harwayne-Gidansky I, Rehder K, Krawiec C, Meyer K, Giuliano J, Owen E, Tarquinio K, Sanders R, Shepherd M, Bysani K, Shenoi A, **Napolitano N**, Gangadharan S, Parsons S, Simon D, Nadkarni V, Nishisaki A. National Emergency Airway Registry for Children (NEAR4KIDS) Collaborators and Pediatric Acute Lung Injury and Sepsis Investigators (PALISI). End-Tidal Carbon Dioxide Use for Tracheal Intubation: Analysis from the National Emergency Airway Registry for Children (NEAR4KIDS) Registry. *Pediatr Crit Care Med*. 2018 Feb;19(2):98-105.

Miller AG, Gentile MA, Tyler LM, **Napolitano N**. High-Flow Nasal Cannula in Pediatric Patients: A Survey of Clinical Practice. *Respir Care* 2018;63(7):894-899.

Kojima T, Harwayne-Gidansky I, Shenoi AN, Owen EB, **Napolitano N**, Rehder KJ, Adu-Darko MA, Nett ST, Spear D, Meyer K, Giuliano JS, Jr. Tarquinio KM, Sanders RC Jr, Lee JH, Simon DW, Vanderford PA, Lee AY, Brown CA 3rd, Skippen PW, Breuer RK, Toedt-Pingel I, Parsons SJ, Gradidge EA, Glater LB, Culver K, Nadkarni VM, Nishisaki A. Cricoid Pressure During Induction for Tracheal Intubation in Critically Ill Children: A Report From National Emergency Airway Registry for Children. *Pediatr Crit Care Med* 2018;19(6):528-537.

Pouppirt NR, Nassar R, **Napolitano N**, Nawab U, Nishisaki A, Nadkarni V, Ades A, Foglia EE. Association between Video Laryngoscopy and Adverse Tracheal Intubation Associated Events in the Neonatal Intensive Care Unit. *J Pediatr* 2018 Oct [Epub ahead of print]

Gradidge EA, Bakar A, Tellez D, Ruppe M, Tallent S, Bird G, Lavin N, Lee A, Nadkarni V, Adu-Darko M, Bain J, Biagas K, Branca A, Breuer RK, Brown C, Bysani K, Emeriaud G, Gangadharan S, Giuliano JS, Howell JD, Krawiec C, Lee JH, Li S, Meyer K, Miksa M, **Napolitano N**, Nett S, Nuthall G, Orioles A,

Owen EB, Parker MM, Parsons S, Polikoff LA, Rehder K, Saito O, Sanders RC, Sheno A, Simon DW, Skippen PW, Tarquinio K, Thompson A, Toedt-Pingel I, Walson K, Nishisaki A; For national Emergency Airway Registry for Children (NEAR4KIDS) investigators and Pediatric Acute Lung Injury and Sepsis Investigators (PALISI). Safety of tracheal intubation in the presence of cardiac disease in pediatric ICUs. *Cardiol Young* 2018 Jul;28(7):928-937.

Mokhateb-Rafi T, Bakar A, Gagadharan S, Gradidge EA, Tellez D, Ruppe M, Tallent S, Bird G, Lavin N, Lee A, **Napolitano N**, Nadkarni V, Shults J, Nishisaki A, National Emergency Airway Registry for Children (NEAR4KIDS) and Pediatric Acute Lung Injury and Sepsis Investigators (PALISI). Hemodynamic Impact of Oxygen Desaturation During Tracheal Intubation Among Critically Ill Children with Cyanotic and Noncyanotic Heart Disease. *Pediatr Crit Care Med*. 201

Lee JH, Nuthall G, Ikeyama T, Saito O, Mok YH, Shepherd M, Jung P, Shetty R, Thyagarajan S, Nett S, **Napolitano N**, Nadkarni V, Nishisaki A, National Emergency Airway Registry for Children (NEAR4KIDS) and Pediatric Acute Lung Injury and Sepsis Investigators (PALISI). Tracheal Intubation Practice and Safety Across International PICUs: A Report From National Emergency Airway Registry for Children. *Pediatr Crit Care Med*. 2018 Nov 7. [Epub ahead of print]

Foglia EE, Ades A, Sawyer T, Glass KM, Singh N, Jung P, Quek BH, Johnston LC, Barry J, Zenge J, Moussa A, Kim JH, DeMeo SD, **Napolitano N**, Nadkarni V, Nishisaki A; for the National Emergency Airway Registry for Neonates (NEAR4NEOS) Investigators. Neonatal Intubation Practice and Outcomes: An International Registry Study. *Pediatrics* 2019; published ahead of print. PMID: 30538147.

Sawyer T, Foglia EE, Ades A, Moussa A, **Napolitano N**, Glass K, Johnston L, Jung P, Singh N, Quek BH, Barry J, Zenge J, DeMeo SD, Brei B, Krick J, Kim JH, Nadkarni V, Nishisaki A, National Emergency Airway Registry for Neonates (NEAR4NEOS) Investigators. *Arch Dis Child Fetal Ed* 2019 [Epub ahead of print]

Ozawa Y, Ades A, Foglia EE, DeMeo S, Barry J, Sawyer T, Singh N, Glass K, Jung P, Quek BH, Johnston L, Kim J, **Napolitano N**, Shults J, Nadkarni VM, Nishisaki A, National Emergency Airway Registry for Neonates (NEAR4NEOS) Investigators. *J Perinatol* 2019 [Epub ahead of print]

Napolitano N, Jalal K, McDonough JM, Monk HM, Zhang H, Jensen E, Dysart KC, Kirpalani HM, Panitch HB. Identifying and treating intrinsic PEEP in infants with severe bronchopulmonary dysplasia. *Pediatr Pulmonol* 2019 April 4 [Epub ahead of print]

Research Publications, non-peer reviewed:

Napolitano N. How do pediatric ventilator protocols work? Editorial in March 2010 AARC Times

Napolitano N. An Amicable Road to Polysomnography Licensure; Editorial in June 2010 AARC Times

Napolitano N. Bubble CPAP – Analysis of the Evidence Base; eNeonatal Review July 2010 Issue

Stoller J, **Napolitano N**. Persistent Pulmonary Hypertension of the Newborn; eNeonatal Review July 2015 Issue

Abstracts:

Napolitano N, Collar N, Milteer R, Hume L, Brown D, Cruz, Lyda J, Lamberti J, Malinowski T. Outcomes of a Pediatric Asthma Initiative. *Respiratory Care Journal* 2004, Abstract Publications; available at: <http://www.rcjournal.com/abstracts/2004/?id=OF-04-256> Napolitano.

Notes: poster presentation at American Association for Respiratory Care (AARC) International Conference, New Orleans, LA, December 2004

Soorikian L, Liroy J, Sobol S, Taylor J, Stow J, **Napolitano N**. Treatment of Severe Obstructive Apnea And Micronathia With Placement Of Internal Jaw In Newborn. *Respiratory Care Journal* 2012.

Notes: Poster Presentation at American Association for Respiratory Care (AARC) International Conference, New Orleans, LA November 2012

Foglia EE, Ades A, **Napolitano N**, Leffelman J, Nadkarni VM, Nishisaki A: Training level and associated outcomes of neonatal intubation: Analysis of the National Emergency Airway Registry for Children (NEAR4KIDS) at a referral neonatal intensive care unit. *American Academy of Pediatrics* October 2013

Notes: Poster Presentation at American Academy of Pediatrics (AAP) National Conference, Orlando, FL, October 2013

Napolitano N, Leffelman J, Snyder M, Nadkarni VM, Tucker C, Nishisaki A, Simon L. Assessment of safety of tracheal intubation practice in the pediatric ICU and development of a quality improvement bundle to reduce tracheal intubation associated events. *Respiratory Care Journal* 2013

Notes: Poster Presentation at the American Association for Respiratory Care Open Forum, November 2013, Anaheim, CA

Napolitano N, Giordano R, Snyder M, Leffelman J, Nadkarni VM, Simon L, Nishisaki A. Can an airway bundle checklist improve the safety of tracheal intubation in pediatric intensive care unit? *Respiratory Care Journal* 2013

Notes: Poster Presentation at the American Association for Respiratory Care Open Forum, November 2013, Anaheim, CA

Napolitano N, Foglia E, Lavin N, Donoghue AJ, Hsieh TC, Nadkarni VM, Nishisaki A. Incidence of tracheal intubation associated events varies in a large tertiary children's hospital. *Critical Care Medicine* December 2013; 41(12 Suppl):#708

Poster Presentation at the 43rd Critical Care Congress, January 2014, San Francisco, CA

Napolitano N, Donoghue AJ, Hsieh TC, Lavin N, Foglia E, Nadkarni VM, Nishisaki A. Impact of trainee level & provider type on tracheal intubate success & associated adverse events. *Critical Care Medicine* December 2013; 41(12 Suppl):#711.

Poster Presentation at the 43rd Critical Care Congress, January 2014, San Francisco, CA

Groleau V, Irving S, **Napolitano N**, Bolton J, Schall J, Lin R, Stallings V, Srinivasan V. It is Safe and Feasible to Measure Resting Energy Expenditure via Indirect Calorimetry in Children Chronically Ventilated via Tracheostomy. *CCM* 2014

Notes: Poster Presentation at the 43rd Critical Care Congress, January 2014, San Francisco, CA

Napolitano N, Achuff P, Hedgman A. Pulse Oximetry Sensors: One Size Fits All? *Respiratory Care Journal* 2014

Notes: Poster Presentation at AARC International Conference, December 2014, Las Vegas, NV

Hsieh TC, **Napolitano N**, Leffelman J, Ishizuka M, Nadkarni VM, Nishisaki A. Desaturation during tracheal intubation: Does that matter? *Critical Care Medicine* 2014 December;42(12):#807.

Notes: Poster Presentation at the 44th Critical Care Congress, January 2015, Phoenix, AZ

Ishizuka M, Boyer DL, Morrison WE, Lockman JL, **Napolitano N**, Berg RA, Nadkarni VM, Nishisaki A. Evidence-based ICU fellow tracheal intubation skill milestones. *Critical Care Medicine* 2014 December;42(12):#296.

Notes: Poster Presentation at the 44th Critical Care Congress, January 2015, Phoenix, AZ

Giuliano J, Rehdner K, **Napolitano N**, Turner D, Nuthall G, Nishisaki A. Incidence of severe tracheal intubation associated events in PICUs is increased during non-weekday hours. *Critical Care Medicine* 2014 December;42(12):#787.

Notes: Poster Presentation at the 44th Critical Care Congress, January 2015, Phoenix, AZ

Napolitano N, Zhang H, Fredrickson K, Wood K, Burkhart M, Nassar R, Kirpalani H, Dysart K. Does prone positioning improve pulmonary mechanics in infants with chronic lung disease: a systemic review. *SPR* 2015

Notes: Poster Presentation, PAS/SPR, San Diego, CA

Napolitano N, Buffman H, Maltese M, Nishisaki A, Nadkarni V. Redesign of an Open System Oxygen Facemask with Mainstream Capnometer for Children. *Respiratory Care Journal* 2015

Notes: Poster Presentation, AARC 2015, Tampa, FL

O'Brien S, Soorikian L, Zhang H, **Napolitano N**. Diagnosis and Treatment of a Patient with Congenital Lobar Emphysema. *Respiratory Care* 2015

Notes: Poster Presentation, AARC 2015, Tampa, FL

Napolitano N, Roberts T, Lutz A, Jensen E, Dysart K, Lin R. Difference in Set vs Achieved Pressures with Neotech RAM Cannula on a Critical Care Ventilator: A Bench Experiment. *Respiratory Care* 2015.

Notes: Poster Presentation, AARC 2015 Tampa, FL

Godara S, Hsieh TC, Donoghue A, Ishizuka M, Kojima T, **Napolitano N**, Nadkarni V, Nishisaki A. Validation of Desaturation and Apneic Time During Tracheal Intubation with Video or Direct Observer. *CCM* 2015;43(12Suppl1):230-231

Notes: Poster Presentation, SCCM 2016, Orlando, FL

Davis K, Buffman H, Li S, **Napolitano N**, Nadkarni V, Nishisaki A. Promoters and Barriers to Implementing Tracheal Intubation Safety Bundles: A Mixed-Method Analysis. *CCM* 2015;43(12Suppl1):203-204.

Notes: Poster Presentation, SCCM 2016, Orlando, FL

Parker M, Nuthall G, Brown C, Biagas K, Simon D, **Napolitano N**, Nadkarni V, Nishisaki A. Impact of Adverse Tracheal Intubation Associated Events on PICU Outcomes. *CCM* 2015;43(12Suppl1):198.

Notes: Poster Presentation, SCCM 2016, Orlando, FL

Napolitano N, Craig N, Lin R. Fresh Gas Flow Levels Needed with Delivery of iNO with Lithium and Sodorb Scrubbers. *CCM* 2015;(12Suppl1):180-181.

Notes: Poster Presentation, SCCM 2016, Orlando, FL

Li S, Hsieh TC, Rehder K, Nett S, Kamat P, **Napolitano N**, Nadkarni V, Nishisaki A. Desaturation During Tracheal Intubations in PICUs is Pervasive and Associated with Adverse Outcomes. *CCM* 2015;43(12Suppl):12.

Notes: Poster Presentation, SCCM 2016, Orlando, FL

Lutz A, Dominick C, **Napolitano N**, Lin R. Comparison of tidal volume delivered from two circuits with the VDR-4 critical care ventilator – A bench model. *Respiratory Care* 2016

Notes: Poster Presentation, AARC 2016, San Antonio, TX

Nishisaki A, Lee A, Li S, Sanders R, Brown C, **Napolitano N**, Shults J, Nadkarni VM. Multicenter QI collaborative to improve safety of pediatric ICU tracheal intubations. *Critical Care Medicine*, 2016 December;44(12 Suppl):344.

Notes: Silver Snapshot Award at 46th Critical Care Congress, January 2017, Honolulu, Hawaii

Napolitano N, Emeriaud G, Polikoff L, Giuliano J, Toedt-Pingel I, Miksa M, Li S, Nishisaki A. Impact of non-invasive ventilation use on safety of tracheal intubation-multicenter study. *Critical Care Medicine*, 2016 December;44(12 Suppl):141.

Notes: Research Snapshot Presentation at 46th Critical Care Congress, January 2017, Honolulu, Hawaii

Pouppirt N, **Napolitano N**, Nawab U, Nishisaki A, Nadkarni V, Ades A, Foglia E. Video laryngoscopy is associated with decreased risk for tracheal intubation-associated events in the neonatal intensive care unit.

Notes: Poster Presentation PAS/SPR 2017

Napolitano N, Dominick C, Lutz A, McDonough J, Nadkarni VM, Nishisaki A. Additional oxygen flow via nasal cannula during mask ventilation does NOT increase airway pressure in the trachea: a simulation study for apneic oxygenation. *Resp Care* 2017.

Notes: Poster Presentation AARC 2017 International Conference, Indianapolis, IN

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Notes: Poster Presentation AARC 2017 International Conference, Indianapolis, IN

Watanabe I, Krawiec C, Giuliano J Jr, Sheno A, Nett S, Parsons S, Al-Subu, A, **Napolitano N**, Laverriere E, Nadkarni V, Nishisaki A. Characterization and safety of tracheal tube change across 41 pediatric ICUs.

Notes: Research Snapshot Presentation at SCCM 2018, San Antonio, TX

Napolitano N, Laverriere E, Craig N, Snyder M, Thompson A, Davis D, Nadkarni V, Nishisaki A. Apneic oxygenation as a quality improvement intervention in an academic PICU.

Notes: Research Snapshot Presentation at SCCM 2018, San Antonio, TX

Napolitano N, Emeriaud G, Polikoff L, Giuliano J Jr., Toedt-Pingel I, Miksa M, Li S, Nadkarni V, Nishisaki A. Noninvasive ventilation factors associated with the safety of tracheal intubation.

Notes: Research Snapshot Presentation at SCCM 2018, San Antonio, TX

Napolitano N, Jalal K, McDonough J, Bosenstab H, Dysart K, Kirpalani H, Panitch H. Improving patient ventilator synchrony with measuring intrinsic PEEP to set ventilator PEEP is sBPD.

Notes: Research Snapshot Presentation at SCCM 2018, San Antonio, TX

Laverriere E, Craig N, **Napolitano N**, Snyder M, Berg R, Nadkarni V, Fiadjoe J, Nishisaki A. Video laryngoscopy facilitated tracheal intubation coaching and technical debrief.

Notes: Research Snapshot Presentation at SCCM 2018, San Antonio, TX

Sweeney L, Taylor L, Peurifoy J, **Napolitano N**. Success of a Tobacco Cessation Program for Parents at a Children's Hospital.

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Armaghan R, Greese B, Juby J, Amador-Castaneda J, Bollinger A, Roberts K, Newberry R, Harshberger M, Radabaugh N, Pierce M, **Napolitano N**. Description of the practice of respiratory therapists in the state of Pennsylvania.

Notes: Poster Presentation, AARC 2019, Las Vegas, NV

Taylor L, Tyler L, **Napolitano N**. Lateral Violence in a Respiratory Therapy Department.

Notes: Poster Presentation, AARC 2019, Las Vegas, NV

Soorikian L, Thom C, Jacobs I, Stow J, Garcia-Macinkiewicz A, Fiadjoe J, Ades A, Lioy J, Nishisaki A, **Napolitano N**. Impact of Neonatal Airway Emergencies in a Large Children's Hospital

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Napolitano N, Zhang H, Hanks J, Peifer M, Soorikian L, Stoller J, Alexiou S, Panitch HB. Novel development of a PEEP grid procedure by Respiratory Therapists to determine optimal PEEP for pulmonary mechanics in the severe BPD population.

Notes: Platform Presentation, ESPR 2019, Philadelphia, PA

Napolitano N, Dysart K, Zhang H, Panitch H, Jensen E. Safety and Efficacy of Aerosolized Albuterol in Mechanically Ventilated Infants with Severe Bronchopulmonary Dysplasia.

Notes: Poster Presentation, ATS 2019, Dallas, PA

Patents:

None

PAST GRANT SUPPORT

NAME: Natalie Napolitano, MPH, RRT-NPS, AE-C, FAARC DEPARTMENT: Respiratory Therapy DATE: March 24, 2017

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category*</u>	<u>Role in Grant**</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>	<u>Additional Comments***</u>
1. Improving the safety and quality of tracheal intubation in pediatric ICUs (R18HS022464)	9/30/2013-3/31/2016	R18	CO-I	13%	Agency for Health Care Research and Quality (AHRQ)	Yr1: \$11,710 Yr2: \$12,061	
2. Evaluation of Mainstream Capnography	7/9/2012-7/8/2017	IG	Co-I	Yr1: 22% Yr2-5: 26%	Nihon Kodon America	Yr1: \$19,200 Yr2-5: \$23,800	
3. Development of a Tobacco Dependence Program in a Children's Hospital	7/2016 – 7/2018	IG	PI	0%	CVS Health	Yr1: \$55,000 Yr2: \$55,000	Grant for program coordinators time
3.							
4.							
5.							

*For **Grant Category**, use code in bold from the following menu:

- | | |
|---|--|
| R01 NIH R01 | CT Clinical Trials |
| PP NIH Program Project, Center or Core Grants | TG Training Grants |
| FG Federal Grants - Other (including other individual NIH grants and grants from VA, NSF, Dept. of Energy, etc.) | IG Industrial Grants (including pharmaceutical) |
| | PG Private Foundation Grants (including internal Penn grants) |
| | O Other |

** For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

*** Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site.

Explain any grants in **Other** category.

If space is needed for more entries, use an additional sheet.

CURRENT GRANT SUPPORT

NAME: Natalie Napolitano, MPH, RRT-NPS, AE-C, FAARC DEPARTMENT: Respiratory Therapy DATE: March 24, 2017

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category*</u>	<u>Role in Grant**</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>	<u>Additional Comments***</u>
1. Improving the Safety of Pediatric Tracheal Intubations in ICUs with Apneic Oxygenation and Video Laryngoscopes (1R18HS024511-01)	4/8/2016 - 1/31/2020	R18	CO-I	10%	Agency for Healthcare Research and Quality (AHRQ)	\$12,000	
2. Improving safety and quality of tracheal intubations in neonatal ICUs (1 R21 HD089151-01)	8/1/2017-7/30/2019	R21	CO-I	Yr1: 5% Yr2: 8%	Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD)	Yr1: \$6,388 Yr2: \$10,527	
3. Delayed Cord Clamping for intubation and Gentle ventilation with congenital diaphragmatic hernia: A pilot feasibility trial	7/1/2018-Present	PG	Study Staff	10%	Children's Hospital of Philadelphia Internal Funding	\$10,000	
4. PROSPect: Prone and oscillation pediatric clinical trial (UG3HL141736)	8/6/2018-present	FG	RT-Proj Mgr	40%	National Institutes of Health, Phase III clinical trial	\$38,000	

*For **Grant Category**, use code in bold from the following menu:

R01 NIH R01
PP NIH Program Project, Center or Core Grants
FG Federal Grants - Other (including other individual NIH grants and grants from VA, NSF, Dept. of Energy, etc.)

CT Clinical Trials
TG Training Grants
IG Industrial Grants (including pharmaceutical)
PG Private Foundation Grants (including internal Penn grants)
O Other

** For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

*** Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site.
Explain any grants in **Other** category. *If space is needed for more entries, use an additional sheet.*

PENDING GRANT SUPPORT

NAME: Natalie Napolitano, MPH, RRT-NPS, AE-C, FAARC DEPARTMENT: Respiratory Therapy DATE: March 24, 2017

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category*</u>	<u>Role in Grant**</u>	<u>% Effort</u>	<u>Funding Source</u>	<u>Total Annual Direct Cost</u>	<u>Additional Comments***</u>
1.							
2.							
3.							
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6.
*For **Grant Category**, use code in bold from the following menu:

- | | |
|---|--|
| R01 NIH R01 | CT Clinical Trials |
| PP NIH Program Project, Center or Core Grants | TG Training Grants |
| FG Federal Grants - Other (including other individual NIH grants and grants from VA, NSF, Dept. of Energy, etc.) | IG Industrial Grants (including pharmaceutical) |
| | PG Private Foundation Grants (including internal Penn grants) |
| | O Other |

** For program projects, specify whether PI, co-leader or project leader. For center, core and training grants, similarly specify your role.

*** Include any additional, brief information. For clinical trials, for example, specify if multicenter or single center and indicate role of Penn site. Explain any grants in **Other** category.

If space is needed for more entries, use an additional sheet.

Other Contributions to Clinical Research

NAME: Natalie Napolitano, MPH, RRT-NPS, AE-C, FAARC DEPARTMENT: Respiratory Therapy DATE: March 24, 2017

<i>Name of Trial</i>	<i>Sponsor</i>	<i>Status</i> active/complete	<i>Role</i> Local P.I., patient recruiter	<u>Name of National PI and Affiliation</u>	<u>No. Patients recruited by candidate</u>	<u>Total No. of study</u>
<u>Resting Energy Expenditure Measurements by Indirect Calormetry in Children Ventilated via Tracheostomy</u>	N/A	Complete	Co-I	Vijay Srinivasan, CHOP	22	22
<u>Measurement of Intrinsic PEEP in Infants with Severe BPD - Pilot</u>	N/A	Complete	CO-I	Hareh Karpalani, CHOP	12	12
<u>Safety and Efficacy of Aerosolized Albuterol in Severe BPD</u>	Aerogen	Active	Lead Investigator	Kevin Dysart, CHOP	24	24
<u>Fluid Filled Lung Oxygenation Assistance Trial (FFLOAT)</u>	N/A	Active	Study Staff	William Fox, CHOP	11	12
<u>Non-Invasively Assessing Lung Ventilation in Pediatrics with Electrical Impedance Tomography</u>	N/A	Active	Lead Investigator	Howard Panitch, CHOP	67	129

<u>Delayed cord clamping for intubation and gentle ventilation in infants with congenital diaphragmatic hernia: A pilot feasibility trial</u>	N/A	Active	Clinical Expert	Elizabeth Foglia, CHOP	15	20
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