

**CURRICULUM VITAE
MARTIN KESZLER, M.D.**

Women and Infants Hospital of Rhode Island
Department of Pediatrics
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EDUCATION

Undergraduate	McGill University, Montreal, Canada Sciences and Humanities (2 years) (Diploma of Collegiate Studies) Pre-Med Science accelerated program	1971- 1972 University Scholarship x 2 1973 University Scholarship
Medical School	McGill University, Montreal, Canada M.D.C.M. Degree (Doctor of Medicine, Master of Surgery)	1973-1977 1977

POSTGRADUATE TRAINING

Residency: St. Mary's Hospital Montreal, Canada, PGY 1 Flexible Internship 1977 – 1978

Residency: Children's Hospital Medical Center of Akron, OH, PGY 2 & 3 Pediatrics 1978 - 1980

Fellowship: Children's Hospital Medical Center of Akron, OH
PGY 4 & 5 Neonatal-Perinatal Medicine 1980 - 1982

POSTGRADUATE HONORS AND AWARDS

1981	Special Prize for scientific paper presentation Children's Hospital Medical Center of Akron, OH
1982	First Prize for scientific paper presentation Children's Hospital Medical Center of Akron, OH
1982	Special Teaching Award by house staff Children's Hospital Medical Center of Akron, Akron, OH
1986	Young Investigator Award, Section of Perinatal Pediatrics American Academy of Pediatrics

- 2000 Honorary Member, Czech Perinatal Society in recognition of
10 years of educational efforts in my country of origin

- 2008 Sponsor and Nominator, Monisha Bahri, MD, Recipient: Fellow Clinical Research Award
Pediatric Academic Societies Meeting, May 2008 (Abstract 4452.13: “A Randomized
Controlled Trial to Determine the Lowest Effective Dose for Adequate Mydriasis in Preterm
Infants”

- 2009 Elected as Member of American Pediatric Society

- 2013 Awarded Honorary Master of Arts *ad eundem* degree by Brown University

- 2015-17 Selected, Best Doctors in America, 2015-2017

- 2019 Co-Editor, Textbook Selected as Highly Commended in Paediatrics Category
2019 British Medical Association Medical Book Awards.

MILITARY SERVICE None

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Licensure: 1978 Medical Council of Canada (LMCC)
 1980 Ohio -inactive
 1982 Virginia (#0101034221) - inactive
 1982 District of Columbia (#13375) - inactive
 2010-Rhode Island (#13425) - active

Board Certification:

Diplomate, National Board of Medical Examiners	July 1, 1978	#186265
Diplomate, American Board of Pediatrics	November 18, 1983	# 29602
Sub-Board of Neonatal-Perinatal Medicine	October 18, 1985	#1465

ACADEMIC APPOINTMENTS

Georgetown University Washington, D.C.	1982-1983	Clinical Instructor of Pediatrics
	1983-1985	Instructor of Pediatrics
	1985-1991	Assistant Professor of Pediatrics
	1991-1998	Associate Professor of Pediatrics
	1998-2010	Professor of Pediatrics
Alpert Medical School of Brown University Providence, RI	2010-	Professor of Pediatrics, Research Scholar Track

HOSPITAL APPOINTMENTS

Georgetown University Washington, D.C.	1984–2010	Director, Extracorporeal Membrane Oxygenation Program
	1991–2010	Director, Neonatal Information System
	1991–1998	Co-Director, Neonatal Pulmonary Function Lab
	1992–1993	Co-Director, Neonatal-Perinatal Medicine Fellowship Program
	1993–1999	Director, Neonatal-Perinatal Medicine Fellowship Program
	1999–2010	Director of Nurseries/Inborn Neonatal Services
	1999–2010	Medical Director, Neonatal Respiratory Therapy Services
Women & Infants Hospital of Rhode Island	2010–2020	Associate Director of NICU
	2010–present	Director of Neonatal Respiratory Care Services

OTHER APPOINTMENTS

1990–	DC Utilization Review Consortium, Subcommittee: Resident Physician Quality of Care Issues
1993–present	Member, Medical Advisory Board, Bunnell Inc.
2002–present	Head, Respiratory Branch, IPOKRATES International
2010–present	Member, Board of Directors, IPOKRATES Foundation

HOSPITAL COMMITTEES

Georgetown University Hospital	1982–1992	Member, Hospital Committee on Quality Assurance
	1982–2007	Member, Administrative Committee, Nursery Complex
	1983–1996	Chair, Pediatrics Quality Assurance Committee
	1983–1991	Chair, Multi-disciplinary Committee on Quality Assurance, NICU/Nursery Complex
	1986–1992	Co-Chair, Hospital Committee on Quality Assurance
	1986–1989	Chair, Transport Committee, Nursery Complex
	1993–1996	Member, Steering Committee, Developmental Psychobiology Research Initiative
	1993–1996	Chair, Initial Review Group, Developmental Psychobiology Research Initiative
	1999–2010	Member, Multidisciplinary ICU Committee
	1999–2010	Co-Chair, Multi-disciplinary Committee on Quality Assurance, NICU/Nursery Complex
	2000–2005	Member, NICU Multidisciplinary Pain Task Force
	2001–2006	Member, End-of-life Care Task Force
	2003–2010	Member, Inpatient Obstetrical Practices Committee
	2007–2010	Chair, Administrative Committee, Nursery Complex

Women & Infants Hospital	2010-present	Member, Infant Code Committee
	2010-present	Member, Transport Committee
	2010-2015	Member, Research Oversight Committee
	2011-2016	Member, Pharmacy and Therapeutics Committee
	2016-present	Member CNE-wide Pharmacy & Therapeutics Committee
	2017-present	Alternate Member, WIHRI Institutional Review Board
Hasbro Children's Hospital Department of Pediatrics	2013-2017	Member, Pediatric Hematology/Oncology Search Committee
	2016-present	Faculty Mentor for Robin McKinney, MD
	2021-present	Member, Pulmonary Division Director Search Committee

UNIVERSITY COMMITTEES

Georgetown University	1988-2010	Faculty Advisor for Residents
	2000-2002	Alternate, Institutional Review Board
	2002-2008	Member, Institutional Review Board
	2003-2009	Member, Research Committee, Dept. of Pediatrics
	2003-2005	Alternate, Oncology Institutional Review Board
	2008-2010	Chair Committee B, Institutional Review Board

EXTERNAL COMMITTEES:

1994-2000	Consultant, Anesthesiology & Respiratory Devices Panel of the FDA Office of Device Evaluation
1996-2001	Member, NIH Study Section: Multidisciplinary Sciences Special Emphasis Panel
1997-1999	Consultant, Center for Drug Evaluation & Research of the FDA
1999-2004	Mayor's Advisory Committee on Metabolic Screening, Washington, DC
2003-2004	Member, NIH Special Emphasis Panel, Center for Evaluation of Risks to Human Reproduction, Fluoxetine Expert Panel
2005-2013	Scientific Advisory Board, Discovery Labs
2006-2010	Member, Maternal-Fetal Medicine Units Network Scientific Advisory Board
2007-2010	Ad-hoc Scientific Reviewer, NICHD Neonatal Research Network
2008-2010	Member, NICHD Neonatal Research Network Data Safety Monitoring Board
2009-2012	Member, Strategic Advisory Board, IKARIA, Inc.
2009-2010	Vice-Chair, NICHD Neonatal Research Network Data Safety Monitoring Board
2013-present	Charter Member, National Bronchopulmonary Dysplasia Collaborative, Columbus, OH
2013-2014	Chair, Scientific Advisory board, Discovery Laboratories, Doylestown, PA

2015-2018	Member, Data and Safety Monitoring Board, Therabron Therapeutics Efficacy of recombinant human Clara Cell 10 KDa protein (CC10) administered to premature neonates with respiratory distress syndrome
2015-2018	Chair, Data Safety Monitoring Board, Medipost America Phase I-II trial of Mesenchymal Stem Cell therapy for BPD prevention
2016-2018	Member, Data Safety Monitoring Board, Chiesi Pharmaceuticals: CHF 5633 Synthetic surfactant clinical study: A Multicenter, Double Blind, Randomized, Single Dose, Active-Controlled Study To Investigate The Efficacy And Safety Of Synthetic Surfactant (CHF 5633) In Comparison To Porcine Surfactant (Poractant Alfa, Curosurf®) In The Treatment Of Preterm Neonates With Respiratory Distress Syndrome

EDITORIAL BOARD MEMBERSHIPS:

2014-2019	AAP NeoReviews
2005-present	American Journal of Perinatology
2016-2018	Associate Editor, Trials
2010-present	Associate Editor, American Journal of Perinatology
2008-present	Journal of Perinatology
2011-present	International Editor, Journal of Clinical Neonatology
2010-present	Research and Reports in Neonatology
2013-present	Frontiers in Neonatology

PEER REVIEW ACTIVITIES:

Acta Paediatrica
 American Journal of Perinatology
 American Journal of Respiratory and Critical Care Medicine
 American Journal of Respiratory Cell and Molecular Biology
 Archives of Disease in Childhood – Fetal/Neonatal Edition
 Archives of Pediatrics and Adolescent Medicine
 BMC Pediatrics
 Critical Care Medicine
 Drug Design, Development and Therapy
 Encyclopedia of Medical Devices and Instrumentation
 European Journal of Pediatrics
 Frontiers in Pediatrics (Neonatology)
 Intensive Care Medicine
 JAMA Pediatrics
 Journal of Healthcare Engineering
 Journal of Neonatal-Perinatal Medicine
 Journal of Pediatrics
 Journal of Perinatology
 Maternal Health, Neonatology and Perinatology
 March of Dimes

Neonatology (formerly Biology of the Neonate)
Patient-Centered Outcomes Research Institute
Pediatric Academic Societies, Abstract review: Neonatal Pulmonary
Section, 2004, 2005, 2006, 2008, 2010
Pediatric Academic Societies Abstract review, Neonatal Clinical
Research Section, 2009, 2012, 2015
Pediatric Academic Societies Abstract review,
Neonatal/Infant Resuscitation, 2015
Pediatric Critical Care Medicine
Pediatric Health
Pediatric Infectious Disease Journal
Pediatric Pulmonology
Pediatric Research
Pediatrics
Pediatrics and Neonatology
PLOS One
Respiratory Care
Swiss National Research Foundation
Thrasher Research Fund
Trials
Overseas Examiner-PhD Thesis, Melbourne School of Graduate
Research, University of Melbourne, Victoria, Australia, 2008
Overseas Examiner-PhD Thesis, University of Western Australia,
Crawley, Western Australia, 2011
Overseas Examiner-PhD Thesis, Monash University, Melbourne,
Victoria, Australia, 2012

MEMBERSHIP IN SOCIETIES:

Member, American Pediatric Society
Member, Society for Pediatric Research
Member, Eastern Society for Pediatric Research
Fellow, American Academy of Pediatrics
Member, AAP Section of Perinatal Pediatrics
Member, AAP Section on Advances in Therapeutics and Technology
Charter Member and Steering Committee Member of the BPD Collaborative
Charter Member of Steering Committee, Extracorporeal Life Support Organization
Member, Steering Committee, Extracorporeal Life Support Organization, 1989-1993
Member, Protocols Committee, Extracorporeal Life Support Organization, 1989-2006

PUBLICATIONS

ORIGINAL RESEARCH IN PEER-REVIEWED JOURNALS

1. Keszler M, Klein R, McClellan L, et al: Effects Of Conventional And High-Frequency Ventilation On Lung Parenchyma. Crit Care Med. 1982;10:514-516.
2. Keszler M, Siva Subramanian KN: Pseudohypoaldosteronism: Fulminant Presentation in a Premature Infant. Am J Dis Child. 1983;137:738-740.
3. Keszler M, Molina B, Siva Subramanian KN: Combined High-Frequency Jet Ventilation in a Meconium Aspiration Model. Crit Care Med. 1986;14:34-38.
4. Keszler M, Klappenbach RS, Reardon E: Lung Pathology After High-Frequency Jet Ventilation Combined With Slow Intermittent Mandatory Ventilation in a Canine Model of Meconium Aspiration. Pediatr Pulmonol. 1988;4:144-149.
5. Moront MG, Keszler M, Cox CB, Milewski M, Visner MS: The Effect Of Variable Preload On Left Ventricular Function In A Single Cannula System For Extracorporeal Membrane Oxygenation. Surgical Forum. 1988;38:291-293.
6. Keszler M, Siva Subramanian KN, Smith YA, Dhanireddy R, Mehta N, Molina B, Cox CB, Moront MG: Pulmonary Management During Extracorporeal Membrane Oxygenation. Crit Care Med. 1989;17:495-500.
7. Zito L, Keszler M: Massive Edema and Bilateral Pleural Effusions in a Newborn Infant. Clinical Allergy - Immunology rounds. Ann Allergy. 1989;63:277-280.
8. Moront MG, Katz N, Keszler M, Visner MS, Hoy G, O'Connell J, Cox CB, Wallace RB: Extracorporeal Membrane Oxygenation for Neonatal Respiratory Failure: A Report of 50 Cases. J Thor Cardiovasc Surg. 1989;97:706-714.
9. Keszler M, Donn S, Buciarelli R, Alverson DC, Hart M, Lunyong V, Modanlou HD, Noguchi A, Pearlman SA, Puri A, et al: Multi-Center Controlled Trial Comparing High-Frequency Jet Ventilation And Conventional Ventilation In Newborn Infants With Pulmonary Interstitial Emphysema. J Pediatr. 1991;119:85-93.
10. Keszler M, Ryckman FC, McDonald JV, Jr., Sweet LD, Moront MG, Boegli MJ, Cox CB, Leftridge, CA: A Prospective Multi-Center Randomized Study of High Vs. Low Positive End-Expiratory Pressure During Extracorporeal Membrane Oxygenation. J Pediatr. 1992;120:107-113.
11. Keszler M, Schumacher Carbone MT, Cox C: Severe Respiratory Failure After Elective Repeat Cesarean Delivery: Potentially Preventable Condition Leading to ECMO. Pediatr 89:670-672, 1992.
12. Goldberg L, Marmon L, Keszler M: High-frequency Jet Ventilation Decreases Flow Through Tracheo-Esophageal Fistula. Crit Care Med. 1992;20:547-550.

13. Horan JJ, Dejter SW, Keszler M, Gibbons MD: Extracorporeal Membrane Oxygenation: An Adjunct in the Management of the High-Risk Infant With Pulmonary Hypoplasia and Congenital Anomalies of the Urinary Tract. *J Urology*. 1993;150:434-437.
14. Kiernan SC, Pinckert TL, Keszler M: Ultrasound Guidance of Suprapubic Bladder Aspiration in Neonates. *J Pediatr*. 1993;123:789-791.
15. Walsh-Sukys MC, Cornell DJ, Houston LN, Keszler M, Kanto WP, Jr.: Treatment of Persistent Pulmonary Hypertension of the Newborn Without Hyperventilation: An Assessment of Diffusion of Innovation. *Pediatrics*. 1994;94:303-306.
16. Keszler M, Moront MG, Visner MS, Cox C, Milewski M: Oxygen Delivery with a Single Canula Tidal Flow Venovenous System for Extracorporeal Membrane Oxygenation. *ASAIO Journal*. 1995;41:850-854.
17. Keszler M, Modanlou HD, Brudno DS, Clark FI, Cohen RS, Ryan RM, Kaneta MK, Davis JM: Multi-Center Controlled Clinical Trial Of High-Frequency Jet Ventilation In Preterm Infants With Uncomplicated Respiratory Distress Syndrome. *Pediatrics*. 100:593-599,1997.
18. Prabhu V, Keszler M, Dhanireddy R: Effects of Nebulized Versus Intravenous Furosemide on Pulmonary Function in Infants with Bronchopulmonary Dysplasia. *Arch Dis Child* 1997;77F:32-35.
19. Ringer SA, Richardson DK, Sacher RA, Keszler M, Churchill WH: Variations in Transfusion Practice in Neonatal Intensive Care. *Pediatrics*. 1998;101:194-200.
20. Prabhu V, Keszler M, Dhanireddy R: Dose-dependent Evaluation of the Effects of Nebulized Furosemide on Pulmonary Function In Ventilated Preterm Infants. *J Perinatology*. 1998;18:357-60.
21. Holliday MA, Pinckert T, Kiernan SC, Kunos, I, Angelus P and Keszler M: Dorsal Penile Block Versus Placebo for Circumcision in Low Birth Weight Neonates. *Archives of Pediatrics and Adolescent Medicine* 1999;153:476-480.
22. Clark RH, Kueser TJ, Walker MW, Southgate WM, Huckaby JL, Perez JA, Roy BJ, Keszler M, Kinsella JP: Low-dose Inhaled Nitric Oxide Therapy for Persistent Pulmonary Hypertension of the Newborn. *N Engl J Med* 2000;342:469-74.
23. Abubakar KM, Keszler M: Patient-Ventilator Interactions in Newer Modes of Mechanical Ventilation. *Pediatric Pulmonology* 2001;32:71-75.
24. Wiswell TE, Knight GR, Finer NN, Donn SM, Desai H, Walsh WF, Sekar KC, Bernstein G, Keszler M, Visser VE, Merritt TA, Mannino FL, Mastroianni L, Marcy B, Revak SD and Cochrane CG: A Multicenter Randomized, Controlled Trial Comparing Surfaxin® (Lucinactant) Lavage with Standard Care for Treatment of Meconium Aspiration Syndrome. *Pediatrics* 2002;109:1081-1087.
25. Plavka R, Kopecky P, Sebron V, Leiska A, Svihovec P, Ruffer J, Dokoupilova M, Zlatohlavkova B, Janus V, Keszler M: Prophylactic vs. early rescue surfactant in extremely premature newborns ventilated by high-frequency oscillatory ventilation. *Intensive Care Med* 2002;28:1483-1490.

26. Clark RH, Huckaby JL, Kueser TJ, Walker MW, Southgate WM, Perez JA, Roy BJ, Keszler M: Low-dose Inhaled Nitric Oxide Therapy for Persistent Pulmonary Hypertension: One-Year Follow-Up. *J Perinatol* 2003;23:300-3.
27. Barr S, Poggi S, Keszler M: Triplet Morbidity and Mortality in a Large Case Series. *J Perinatol* 2003;23:368-371.
28. Poggi SH, Barr S, Cannum R, Collea JV, Landy HJ, Keszler M, Ghidini A. Risk Factors for Pulmonary Edema in Triplet Pregnancies. *J Perinatol* 2003 23, 46-465.
29. Keszler M, Abubakar KM: Volume Guarantee: Stability of Tidal Volume and the Incidence of Hypocarbia. *Pediatric Pulmonology* 2004;38:240-245.
30. Abubakar KM, Keszler M. Effect of Volume Guarantee Combined with Assist/Control vs. Synchronized Intermittent Mandatory Ventilation. *J Perinatol* 2005;25: 638-642.
31. Plavka R, Dokoupilova M, Pazderova L, Kopecky P, Sebron V, Zapadlo M, Keszler M. High-Frequency Jet Ventilation Improves Gas Exchange In Extremely Immature Infants With Evolving Chronic Lung Disease. *Am J Perinatol*. 2006;23:467-72.
32. Nassabeh - Montazami S, Abubakar K, Keszler M. The Impact of Instrumental Dead-space in Volume Targeted Ventilation of the Extremely Low Birth Weight Infant. *Pediatr Pulmonol*. 2009;44:128-33.
33. Keszler M, Nassabeh - Montazami S, Abubakar K. Evolution of Tidal Volume Requirement During the First Three Weeks of Life in Extremely Low Birth Weight Infants Ventilated with Volume-targeted Ventilation. *Arch Dis Child Fetal Neonatal Ed* 2009;94:F279-82.
34. Barton A, Abubakar, K Berg J, Keszler M. The Effect of Arterial pH on Oxygenation Persists Even in Infants Treated with Inhaled Nitric Oxide. *Pulmonary Medicine* 2011, Article ID 189205, doi:10.1155/2011/189205.
35. Keszler M, Brugada M, Abubakar K. Effective Ventilation at Conventional Rates With Tidal Volume Below Instrumental Dead Space: A Bench Study. *Arch Dis Child Fetal-Neonatal Edition* 2012;97:F188–F192.
36. Keszler PA, Nagaraj P, Abubakar K, Keszler M. Effect of Variable Expiratory Flow Rate During the Expiratory Phase on CO₂ Elimination. *Research and Reports in Neonatology* 2012; 2:33-37.
37. Mazela J, Chmura K, Kulza M, Henderson C, Gregory TJ, Moskal A, Sosnowski TR, Florek E, Kramer L, Keszler M. Aerosolized Albuterol Sulfate Delivery Under Neonatal Ventilatory Conditions: In Vitro Evaluation of a Novel Ventilator Circuit Patient Interface Connector. *J Aerosol Med Pulm Drug Deliv*. 2014;27:58-65.
38. Corbett KL, Keszler M. Pulsatile airway obstruction found on ventilator pulmonary graphics. *J Pediatr*. 2014;165:1064. doi: 10.1016/j.jpeds.2014.07.009.

39. Keszler M, Abubakar K. Volume Guarantee Ventilation during Surgical Closure of Patent Ductus Arteriosus. *Am J Perinatol*. 2015 Jan;32:23-6. doi: 10.1055/s-0034-1371713
40. Sood BG, Keszler M, Garg M, Klein JM, Ohls R, Ambalavanan N, Cotten CM, Malian M, Sanchez PJ, Lakshminrusimha S, Nelin LD, Van Meurs KP, Bara R, Saha S, Das A, Wallace D, Higgins RD, Shankaran S Garg M, et al for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Inhaled PGE1 in neonates with hypoxemic respiratory failure: two pilot feasibility randomized clinical trials. *Trials* 2014;15:486
41. Sharma S, Abubakar KM, Keszler M. Tidal Volume in Infants with Congenital Diaphragmatic Hernia Supported with Conventional Mechanical Ventilation. *Am J Perinatol*. 2015;32:577–582 doi: 10.1055/s-0034-1543985. Epub 2015 Jan 21. PMID:25607228
42. Sharma S, Clark S Abubakar K, Keszler M.. Tidal Volume Requirement in Mechanically Ventilated Infants with Meconium Aspiration Syndrome. *Am J Perinatol*. 2015;32:916-9. doi: 10.1055/s-0034-1396698. Epub 2015 Mar 4. PMID: 25738789
43. Foglia EE, Owen LS, Thio M, Ratcliffe SJ, Lista G, te Pas A, Hummler H, Nadkarni V, Ades A, Posencheg M, Keszler M, Davis PG, Kirpalani H. Sustained Aeration of Infant Lungs (SAIL) Trial: Study protocol highlighting methodological considerations for a randomized controlled trial of lung recruitment following delivery of extremely premature infants. *Trials*. 2015 Mar 15;16:95. doi: 10.1186/s13063-015-0601-9.
44. Al-Mandari H, Shalish W, Dempsey E, Keszler M, Davis P and Sant’Anna G. International survey on peri-extubation practices in extremely preterm infants. *Arch Dis Child Fetal Neonatal Ed*. 2015;100:F428-31. doi: 10.1136/archdischild-2015-308549. Epub 2015 Jun 10. PMID:26063193
45. Enomoto M, Keszler M, Sakuma M, Kikuchi S, Katayama Y, Takei A, Ikegami H, Minami H. Effect of Volume Guarantee in Preterm Infants on High Frequency Oscillatory Ventilation: A Pilot Study. *Am J Perinatol*. 2017;34:26-30. DOI 10.1055/s-0036-1584141.
46. Hurley EH, Keszler M. Effect of inspiratory flow rate on the efficiency of carbon dioxide removal at tidal volumes below instrumental dead space. *Arch Dis Child Fetal Neonatal Ed*. 2017;102:F126-F130. doi: 10.1136/archdischild-2015-309636. PubMed PMID: 27515984.
47. Foglia EE, Owen LS, Keszler M, Davis PG, Kirpalani H. Obtaining informed consent for delivery room research: the investigators' perspective. *Arch Dis Child Fetal Neonatal Ed*. 2017;102:F90-F91. doi: 10.1136/archdischild-2016-310934. PubMed PMID: 27515986.
48. Jensen EA, Dysart KC, Gantz MG, Carper B, Higgins RD, Keszler M, Laughon MM, Poindexter BB, Stoll BJ, Walsh MC, Schmidt B; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Association between Use of Prophylactic Indomethacin and the Risk for Bronchopulmonary Dysplasia in Extremely Preterm Infants. *J Pediatr*. 2017 Feb 28. pii: S0022-3476(17)30188-9. doi: 10.1016/j.jpeds.2017.02.003

49. Chawla S, Natarajan G, Shankaran S, Carper B, Brion LP, Keszler M, Carlo WA, Ambalavanan N, Gantz MG, Das A, Finer N, Goldberg RN, Cotten CM, Higgins RD; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Markers of Successful Extubation in Extremely Preterm Infants, and Morbidity After Failed Extubation. *J Pediatr*. 2017 Jun 6. pii: S0022-3476(17)30597-8. doi:10.1016/j.jpeds.2017.04.050. PMID: 28600154
50. Shalish W, Kanbar LJ, Rao S, Robles-Rubio CA, Kovacs L, Chawla S, Keszler M, Precup D, Brown K, Kearney RE, Sant'Anna GM. Prediction of Extubation readiness in extremely preterm infants by the automated analysis of cardiorespiratory behavior: study protocol. *BMC Pediatr*. 2017 Jul 17;17(1):167. doi: 10.1186/s12887-017-0911-z
51. Lakshminrusimha S, Keszler M, Kirpalani H, Van Meurs K, Chess P, Ambalavanan N, Yoder B, Fraga MV, Hedrick H, Lally KP, Nelin L, Cotten M, Klein J, Guilford S, Williams A, Chaudhary A, Gantz M, Gabrio J, Chowdhury D, Zaterka-Baxter K, Das A, Higgins RD. Milrinone in congenital diaphragmatic hernia - a randomized pilot trial: study protocol, review of literature and survey of current practices. *Matern Health Neonatol Perinatol*. 2017 Nov 27;3:27. doi: 10.1186/s40748-017-0066-9.
52. Shalish W, Kanbar L, Keszler M, Chawla S, Kovacs L, Rao S, Panaitescu BA, Laliberte A, Precup D, Brown K, Kearney RE, Sant'Anna GM. Patterns of reintubation in extremely preterm infants: a longitudinal cohort study. *Pediatr Res*. 2018; 83:969-975. doi: 10.1038/pr.2017.330. [Epub ahead of print] PMID: 29389921
53. Lakshminrusimha S, Shankaran S, Laptook A, McDonald S, Keszler M, Van Meurs K, Guillet R, Chawla S, Sood BG, Bonifacio S, Das A, Higgins RD. Pulmonary Hypertension Associated with Hypoxic-Ischemic Encephalopathy-Antecedent Characteristics and Comorbidities. *J Pediatr* 2018 196:45-51.e3. doi: 10.1016/j.jpeds.2017.12.055. [Epub ahead of print] PMID: 29502880
54. Scala M, Berg J, Keszler M, Abubakar K. Premature Infants Conceived with Assisted Reproductive Technology: An Analysis of Infant Morbidity, Compared with Infants Conceived Naturally. *Am J Perinatol*. 2019;36:258-261. doi: 10.1055/s-0038-1667288. [Epub ahead of print] PMID: 30064149
55. Gupta A, Keszler M. Survey of Ventilation Practices in the Neonatal Intensive Care Units of the United States and Canada: Use of Volume-Targeted Ventilation and Barriers to Its Use. *Am J Perinatol* 2019;36:484–489. E pub Sep 6. doi: 10.1055/s-0038-1669442. PMID: 30189441
56. Goldstein J, LaLiberte A, Keszler M. Ambient Noise Production by High-Frequency Neonatal Ventilators. *J Pediatr* 2019 Jan;204:157-161. doi: 10.1016/j.jpeds.2018.08.029. Epub 2018 Sep 26. PMID: 30268396
57. Shalish W, Kanbar L, Kovacs L, Chawla S, Keszler M, Rao S, Panaitescu B, Laliberte A, Precup D, Brown K, Kearney RE, Sant'Anna GM. The Impact of Time Interval between Extubation and Reintubation on Death or Bronchopulmonary Dysplasia in Extremely Preterm Infants. *J Pediatr*. 2019 Feb;205:70-76.e2. doi: 10.1016/j.jpeds.2018.09.062. Epub 2018 Nov 5. PMID: 30404739

58. Kirpalani H, Ratcliffe SJ, Keszler M, Davis PG, Foglia EE, Te Pas A, et al. Effect of Sustained Inflation vs Intermittent Positive Pressure Ventilation on Bronchopulmonary Dysplasia or Death Among Extremely Preterm Infants: The SAIL Randomized Clinical Trial. *JAMA*. 2019 Mar 26;321(12):1165-1175. doi: 10.1001/jama.2019.1660. PMID: 30912836
59. Jensen EA, Dysart K, Gantz MG, McDonald S, Bamat NA, Keszler M, Kirpalani H, Laughon MM, Poindexter BB, Duncan AF, Yoder BA, Eichenwald E, DeMauro SB; Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. The Diagnosis of Bronchopulmonary Dysplasia in Very Preterm Infants: An Evidence-Based Approach. *Am J Respir Crit Care Med*. 2019 Sep 15;200(6):751-759. doi: 10.1164/rccm.201812-2348OC. PMID: 30995069
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87. Keszler M, Abubakar KM. Volume Guarantee Accelerates Recovery from Forced Exhalation Episodes. *Pediatric Research* 2004;55:545A.
88. Barton A, Abubakar K, Berg J, Keszler M. Effect of Arterial pH on response to inhaled nitric oxide for persistent pulmonary hypertension. *PAS* 2005: 57: 2595
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91. Montazami S, Abubakar K, Keszler M. Impact of Instrumental Dead Space on Volume Guarantee Mode of Ventilation in Extremely Low Birth Weight Infants. *E-PAS*2006:59:468
92. Montazami S, Abubakar K, Keszler M. Changes in Tidal Volume Requirement with Advancing Postnatal Age in Ventilated Extremely Low Birth Weight (ELBW) Infants. *E-PAS*2006:59:5560.339.
93. Abubakar K, Umeh A, Berg J, Rorke J, Folk L, Keszler M. Computerized Drug Dose Calculation To Reduce Medication Errors In The Neonatal Intensive Care Unit. *E-PAS*2006:59:4134.7.
94. Abubakar K, Montazami S, Keszler M. Volume Guarantee Accelerates Recovery From Endotracheal Tube Suctioning In Ventilated Preterm Infants. *E-PAS*2006:59:5560.343.

95. Rorke J, Schatz V, Erskine M, Shuniak N, Tuason, Lee J, Kilcullen P, Kane R, Peele A, Hillers T, Abubakar K, Ramasethu J, Keszler M. Decreasing Catheter Related Sepsis in the Neonatal Intensive Care Unit. 5th Annual 2006 Summer Institute on Evidence-Based Practice: “Quality Improvement, Quality Indicators”, San Antonio, TX, June 2006.
96. Keszler M and Abubakar K. Elective Cesarean Delivery and Severe Respiratory Failure Requiring to ECMO. Poster at PAS annual meeting, Honolulu, HI, May 2008. E-PAS2008:634450.2.
97. Eick RJ, Abubakar K, Keszler M. Blood Lactate as a Marker of Late-Onset Neonatal Sepsis. Poster at PAS annual meeting, Honolulu, HI, May 2008. E-PAS2008:633762.39
98. Eick RJ, Montazami S, Abubakar K, Keszler M. Impact of Instrumental Dead Space on Pressure Support Volume Guarantee Mode of Ventilation in Extremely Low Birth Weight Infants. Poster at PAS annual meeting, Honolulu, HI, May 2008. E-PAS2008:633763.1
99. Bahri M, Eig M, Doroshov R, Baumgart S, Keszler M. Echocardiographic Predictors of Mortality in Congenital Diaphragmatic Hernia. Poster at PAS annual meeting, Honolulu, Hawaii, May 2008. E-PAS2008:635848.9.
100. Keszler M, Abubakar K, Poliquin C. Does High PEEP Improve Survival in ECMO Patients? PAS annual meeting, Honolulu, HI, May 2008. E-PAS2008:63522.
101. Keszler M, Abubakar K. High Positive End-Expiratory Pressure (PEEP) and Duration of Extracorporeal Membrane Oxygenation (ECMO) PAS annual meeting, Honolulu, HI, May 2008. E-PAS2008:63523.
102. Bahr M, Eig M, Doroshov R, Baumgart S and Keszler M. Echocardiographic Predictors of Mortality in Congenital Diaphragmatic Hernia. 19th Annual ELSO Meeting, San Diego, CA, September 2008.
103. Keszler M, Brugada M, Abubakar K. Effective Alveolar Ventilation Occurs With Tidal Volume Less Than Dead Space Volume Even At Conventional Rates. PAS annual meeting, Baltimore, MD, May 2009. E-PAS2009:608
104. Keszler M, Brugada M, Abubakar K. Effect of Respiratory Rate on Effective Alveolar Ventilation With Tidal Volume Near Instrumental Dead Space Volume. PAS annual meeting, Baltimore, MD, May 2009. E-PAS2009:3858.109.
105. Brown AM, Berg J, Abubakar K, Rodan M, Keszler M. Blood Lactate Levels in Potential ECMO Candidates with Persistent Pulmonary Hypertension of the Newborn. Eastern Society for Pediatric Research Meeting, Philadelphia, PA, March 2010.
106. Sharma S, Abubakar K, Keszler M. Tidal Volume in Infants with Congenital Diaphragmatic Hernia. Eastern Society for Pediatric Research Meeting, Philadelphia, PA, March 2010.
107. Rostami N, Keszler M. Validation of Visible Light Tissue Oximetry in Newborn Infants. Eastern Society for Pediatric Research Meeting, Philadelphia, PA, March 2010.

108. Nagaraj P, Abubakar K, Keszler M. Does Bubble CPAP Enhance Carbon Dioxide Elimination Compared to Ventilator-Generated CPAP? Eastern Society for Pediatric Research Meeting, Philadelphia, PA, March 2010.
109. Sharma S, Abubakar KM, Keszler M. Tidal Volume in Infants with Congenital Diaphragmatic Hernia. PAS meeting Vancouver, BC, CA, May 2010. E-PAS20101466.146.
110. Rostami N, Keszler M. Validation of Visible Light Tissue Oximetry in Newborn Infants. PAS meeting Vancouver, BC, CA, May 2010. E-PAS20104407.320.
111. Nagaraj P, Abubakar K, Keszler M. Does Bubble CPAP Enhance Carbon Dioxide Elimination Compared to Ventilator-Generated CPAP? PAS meeting Vancouver, BC, CA, May 2010. E-PAS20104407.300.
112. Nagaraj P, Abubakar K, Keszler M. Does Vigorous Bubble CPAP Enhance Carbon Dioxide Elimination Compared to Gentle Bubble CPAP? PAS meeting Vancouver, BC, CA, May 2010. E-PAS20104407.299.
113. Keszler P, Nagaraj P, Abubakar K, Keszler M. What Is the Minimum Expiratory Flow Rate That Avoids Re-Breathing of CO₂? PAS meeting Vancouver, BC, CA, May 2010. E-PAS20104407.309.
114. Vossoughi J, Majd S, Johnson A, Rostami N, Kunos I, Keszler M. Feasibility of Evaluating Respiratory Resistance in Infants. 26th Southern Biomedical Engineering Conference, College Park, MD, May 2010.
115. Sharma S, Clark S, Abubakar KM, Keszler M. Tidal Volume Needed for Normocapnia in Infants with Meconium Aspiration Syndrome. Eastern Society for Pediatric Research Meeting, Philadelphia, PA, March 2011.
116. Rostami N, Bautista MV, Johnson A, Vossoughi J, Majd S, Keszler M. Noninvasive Measurement of Airway Resistance in Young Children. PAS meeting, Denver, CO, May 2011, E-PAS20113838.397.
117. Keszler M. Volume Guarantee Ventilation During PDA Ligation. PAS meeting, Denver, CO, May 2011. E-PAS20114530.436.
118. Scala M, Berg J, Keszler M, Abubakar KM. Premature Infants Conceived via Artificial Reproductive Technology (ART) Are More Immature Than Naturally Conceived (NC) Infants of Similar Gestational Age, PAS meeting, Denver, CO, May 2011, E-PAS20112917.244.
118. Vossoughi J, Johnson A, Bautista M, Rostami N, Fisher-Tripodi R, Keszler M. Evaluation of the Respiratory Resistance Value for Children. 27th Southern Biomedical Engineering Conference, Arlington, Tx, May 2011.
119. Bautista MV, Rostami N, Fischer-Tripodi R, Keszler M, Johnson A, Vossoughi J. Noninvasive Measurement of Airway Resistance on Healthy Children and Children with Stable Asthma. ATS meeting Denver, CO, May 2011. Am. J. Respir. Crit. Care Med., May 2011; 183: A6310.

120. Chmura K, Mazela J, Henderson C, Gregory TJ, Keszler M, Gadzinowski J. Nitric Oxide Delivery with a Novel Ventilator Circuit Connector – an In Vitro Study Under Neonatal Ventilatory Conditions. Hot Topics in Neonatology conference, December 2011, Washington, D.C.
121. Mazela J, Chmura K, Kulza M, Florek E, Gregory TJ, Henderson, Keszler M. Calculated Inhaled Albuterol Dose and Delivered Albuterol Dose during Simulated Infant Ventilation Using a Novel Ventilator Circuit Connector. PAS meeting, Boston, MA May 2012; 4522.237.
122. Keszler M, Arnon S, Beuchee A, Bental YA, Cox C. Predictive Value of Serum Lactate in Necrotizing Enterocolitis (NEC) Patients. PAS meeting, Boston, MA May 2012;4529.493.
123. Murphy T, Mirza H, Daigle K, Ziegler J, Stonestreet B, Keszler M, Laptook A, Padbury J. Multidisciplinary Approach to Inpatient Management and Transition Home for Infants with Severe Bronchopulmonary Dysplasia. New England Neonatology Quality and Safety Forum , Marlborough, MA, September 2012.
124. Mazela J, Chmura K, Henderson C, Gregory TJ, Keszler M, Gadzinowski J. Nitric Oxide Delivery with a Novel Ventilator Circuit Connector-an In Vitro Study Under Neonatal Ventilatory Conditions. 4th Congress of the European Academy of Pediatric Societies, October 2012, Istanbul, Turkey.
125. Mazela J, Chmura K, Kulza M, Florek E, Gregory TJ, Henderson, Keszler M. Calculated Inhaled Albuterol Dose and Delivered Albuterol Dose during Simulated Infant Ventilation Using a Novel Ventilator Circuit Connector. 4th Congress of the European Academy of Pediatric Societies, October 2012, Istanbul, Turkey.
126. Rostami N, Bautista M, Johnson A, Vossoughi J, Keszler M. Pre and Post Bronchodilator Airway Resistance Values in Children with Asthma Using the Airflow Perturbation Device (APD). 4th Congress of the European Academy of Pediatric Societies, October 2012, Istanbul, Turkey.
127. Rostami N, Bautista MV, Johnson A, Vossoughi J, Keszler M. Pre and Post Bronchodilator Airway Resistance Values in Children with Asthma Using Airflow Perturbation Device. Pediatric Academic Societies, Washington, DC, May 2013.
128. Mazela J, Stachnik J, Korzan S, Gradzka-Luczewska A, Gadzinowski J, Kramer L, Keszler M. Optimized clinical protocol for high frequency oscillatory ventilation with VN-500 allows for lower dPhf settings. Pediatric Academic Societies, Vancouver B.C., Canada, May 2014.
129. Akita D, Enomoto M, Ishiko S, Kikuchi S, Katayama Y, Takei A, Ikegami H, Keszler M, Minami H. Optimal high-frequency tidal-volume in very low birth weight infants. Pediatric Academic Societies in Vancouver B.C., Canada, May 2014.
130. Korzan S, Stachnik J, Gradzka-Luczewska A, Pikula T, Kramer L, Keszler M, Mazela J. Tidal volume during high frequency oscillatory ventilation with the VN-500 ventilator. Pediatric Academic Societies, Vancouver B.C., Canada, May 2014.

131. Al Mandhari H, Shalish W, Dempsey E, Keszler M, Davis PG, Sant'Anna G. International Survey on Peri-Extubation Practices in Extremely Premature Infants. European Society for Pediatric Research, Barcelona, Spain, October 2014.
132. Jensen E, Dysart K, Gantz M, Higgins R, Kendrick D, Keszler M, Laughon M, Poindexter B, Stoll B, Walsh M and Schmidt B for the NICHD Neonatal Research Network (NRN). Prophylactic Indomethacin Is Not Associated with a Reduced Risk of BPD in Extremely Preterm Infants. PAS meeting San Diego, CA, April 2015.
133. Hurley E, Keszler M. Ventilation at tidal volume below dead space: a bench study. PAS meeting San Diego, CA, April 2015.
134. Shukla K, LaLiberte A, Vossoughi J, Johnson A, Keszler M. Non-invasive Airway Resistance (NARE) Measurement in Neonates. ESPR, Philadelphia, PA, March 2015 and ATS, Denver, CO, May 2015.
135. Goldstein J, Laliberte AM, Keszler M. Ambient noise production by high-frequency neonatal ventilators. Eastern Society for Pediatric Research, Philadelphia, PA, March 2016.
136. Shukla K, Shalish W, LaLiberte A, Kovacs L, Chawla S, Sant'Anna GM, Keszler M. Effect Of Ventilation Mode On Spontaneous Breathing Trial Pass And Extubation Success – An APEX Sub-Study. Eastern Society for Pediatric Research, Philadelphia, PA, March 2016.
137. Chawla S, Shankaran S, Natarajan G, Carper B, Gantz M, Brion LP, Keszler M, Carlo WA, Ambalavanan N, Das A, Finer N, Higgins RD, for the NICHD NRN SUPPORT Subcommittee. Prediction of Extubation Failure and associated Morbidities among Extremely Premature Infants. Pediatric Academic Societies, Baltimore, MD, May 2016.
138. Goldstein J, Laliberte AM, Keszler M. Ambient noise production by high-frequency neonatal ventilators. Pediatric Academic Societies, Baltimore, MD, May 2016.
139. Shukla K, Shalish W, LaLiberte A, Kovacs L, Chawla S, Sant'Anna GM, Keszler M. Effect Of Ventilation Mode On Spontaneous Breathing Trial Pass And Extubation Success – An APEX Sub-Study. Pediatric Academic Societies, Baltimore, MD, May 2016.
140. Shalish W, Kanbar L, Kovacs L, Chawla S, Keszler M, Rao S, Panaitescu BA, Laliberte A, Precup D, Brown K, Kearney RE, Sant' Anna GM. What is the optimal time window for detecting and reporting extubation failure in extremely preterm infants? Pediatric Academic Societies, Baltimore, MD, May 2016.
141. Shalish W, Kanbar L, Kovacs L, Chawla S, Keszler M, Rao S, Panaitescu BA, Laliberte A, Precup D, Brown K, Kearney RE, Sant' Anna GM. Extubation failure in extremely preterm infants: is the time frame between the first planned extubation and reintubation associated with respiratory morbidities? Pediatric Academic Societies, Baltimore, MD, May 2016.

142. Bhuller M, Shalish W, Kanbar L, Kovacs L, Chawla S, Keszler M, Rao S, Panaitescu BA, Laliberte A, Precup D, Brown K, Kearney RE, Sant' Anna GM. The use of non-synchronized nasal intermittent positive pressure ventilation following extubation in extremely preterm infants: who gets it and does it matter? Pediatric Academic Societies, Baltimore, MD, May 2016.
143. Gupta AK, Laliberte A, Keszler M. Survey of ventilation practices in the NICUs of USA and Canada. Pediatric Academic Societies in San Francisco, CA, May 2017
144. Gupta AK, Laliberte A, Keszler M. Practice variation in the use of volume-targeted ventilation. Pediatric Academic Societies in San Francisco, CA, May 2017
145. Lakshminrusimha S, Shankaran S, Chawla S, Sood BG, Guillet R, Keszler M, Bonifacio S, Van Meurs KP and Laptook AR on behalf of the NICHD Neonatal Research Network. Pulmonary hypertension during whole-body hypothermia: Antecedent characteristics and co-morbidities. Pediatric Academic Societies in San Francisco, CA, May 2017
146. McKinney RM, Schmidhofer JJ, Balasco AL, Machan J and Keszler M. Severe BPD: Outcomes Before and After the Implementation of an Inpatient Multidisciplinary Team. Society of Critical Care Medicine 47th Critical Care Congress San Antonio, Texas, February 25-28, 2018.
147. Goldstein J, Laliberte A and Keszler M. Stabilizing Minute Ventilation using a Fixed Servo Pressure in High-Frequency Jet Ventilation. Eastern Society for Pediatric Research Annual Meeting, March 2018, Philadelphia, PA.
148. Goldstein J, Laliberte A and Keszler M. Noise Exposure from Neonatal High-Frequency Ventilators. Eastern Society for Pediatric Research Annual Meeting, Philadelphia, PA, March 2018
149. Shalish W, Kanbar L, Kovacs L, Chawla S, Keszler M, Rao S, Precup D, Brown K, Kearney RE, Sant' Anna GM. Age of first extubation attempt and respiratory morbidities in extremely preterm infants. PAS Annual Meeting, Toronto, Canada, May 2018.
150. Shalish W, Kanbar L, Kovacs L, Chawla S, Keszler M, Rao S, Precup D, Brown K, Kearney RE, Sant' Anna GM. Extubation readiness in extremely preterm infants: spontaneous breathing tests under the spotlight. PAS Annual Meeting Toronto, Canada, May 2018.
151. Goldstein J, Laliberte A and Keszler M. Stabilizing Minute Ventilation using a Fixed Servo Pressure in High-Frequency Jet Ventilation. PAS Annual Meeting Toronto, Canada, May 2018.
152. Jensen E, Dysart K, Gantz M, McDonald S, Bamat N, Keszler M, Kirpalani H, Laughon M, Poindexter B, Duncan A, Yoder B A, Eichenwald E, DeMauro S. Development of a Revised Severity Based Definition of Bronchopulmonary Dysplasia: Accounting for Modern Respiratory Care. PAS Annual Meeting May Toronto, Canada, May 2018.
153. McKinney RL, Keszler M, Truog W, Norberg M, Sindelar R, Wallström L, Schulman B, Gien J, Abman SH on behalf of the Bronchopulmonary Dysplasia Collaborative. Multicenter experience with neurally adjusted ventilatory assist in infants with evolving or established bronchopulmonary dysplasia. PAS Annual Meeting Toronto, Canada, May 2018.

154. Latremouille S, Shah BA, Chawla S, Keszler M, Tucker R, Laptook A and Sant'Anna GM. Late preterm infants: Early measures of heart rate variability and amplitude-integrated electroencephalography correlate with time to reach clinical milestones. PAS Annual Meeting Toronto, Canada, May 2018.
155. Kirpalani H, Ratcliffe S, Keszler M, Davis PG, te Pas A, Foglia E, van Kaam A, Onland W, Schmolzer G, Lista G, Owen LS, Bastrenta P, Hummler H, Mendler MR, Localio R. The International 'Sustained Aeration for Infant Lung' (SAIL) Randomized Trial. PAS Annual Meeting, Toronto, Canada, May 2018.
156. Cuevas Guaman M, Pishevareshfahani N, Abman SH, Keszler M, Truog WE, Nelin LD for the BPD Collaborative. Characterization of preterm infants with severe bronchopulmonary dysplasia as based on the level of respiratory support at 36 weeks post menstrual age. Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019.
157. Foglia EE, te Pas AB, Kirpalani H, Davis PG, Owen L, van Kaam A, Onland W, Keszler M, Schmolzer G, Hummler H, Lista G, Dani C, Bastrenta P, Localio R, Ratcliffe SJ. Sustained inflation vs. intermittent positive pressure ventilation or continuous positive airway pressure during neonatal resuscitation of preterm infants. Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019
158. Keszler M, Rodriguez L, Courtney S, Klein J, Yoder B. Volume-targeted high-frequency oscillatory ventilation: Does it work? Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019
159. Gupta AK, Rodriguez L, Szynal A, Hallinan S, Keszler M. CPAP vs. Unsynchronized NIPPV at equal mean airway pressure (MAP). Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019.
160. Foglia, E, tePas, A, Kirpalani H, Davis P, Thio-Lluch M, Hummler H, Lista G, Cavigioli F, Keszler M, Schmoelzer G Ratcliffe S. Respiratory function measurements of participants in the Sustained Aeration of Infant Lungs (SAIL) randomized trial. Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019.
161. Levin JC, Hayden LH, Keszler M, Truog WE, Abman SH, Nelin LD for the BPD Collaborative. Enteral feeding patterns in a national cohort of infants with severe bronchopulmonary dysplasia. Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019
162. Agarwal P, Shankaran S, Laptook A, Chowdhury D, Lakshminrusimha S., Bonifacio SL, Natarajan G, Chawla S, Keszler M, Heyne R, Ambalavana N, Walsh M, Das A, Van Meurs K for the NICHD Neonatal Research Network. Association of pulmonary hypertension with death or disability among infants with hypoxic ischemic encephalopathy. Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019

163. Laptook AR, Longo JL, Trail-Burns EJ, Arnautovic TI, Tucker R, Keszler M. Is antenatal Betamethasone treatment associated with spontaneous intestinal perforation among infants receiving post-natal Indocin? Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019.
164. Shalish W, Kanbar L, Rao S, Latraemouille S, Kovacs L, Keszler M, Chawla S, Brown K, Precup D, Kearney R, Sant'Anna G. Automated prediction of extubation readiness in extremely preterm infants: the APEX multicenter study. Platform presentation, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019
165. Chandrasekharan P, Lakshminrusimha S, Chowdhury D, VanMeurs K, Keszler M, Kirpalani H, Das A, Walsh M, McGowan E, Higgins R. Early hypoxemic respiratory failure in extremely preterm neonates: Characteristics, mortality and neurodevelopmental outcomes. Platform presentation, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019.
166. Chandrasekharan P, Higgins R, D'Angio C, VanMeurs K, Keszler M, Das A, Chowdhury D, Kirpalani H, Walsh M, McGowan E, Lakshminrusimha S. Factors associated with use, survival and neurodevelopment outcome following inhaled nitric oxide exposure in extremely preterm infants. Poster presented, Pediatric Academic Societies Annual Meeting, Baltimore, MD, April 2019
167. Owen LS, Foglia EE, Ratcliffe SJ, Simma B, Keszler M, Kirpalani H, Davis PG. Does use of deferred consent affect recruitment, participant characteristics, and outcomes within a neonatal resuscitation trial? Joint European Neonatal Societies meeting, Maastricht, The Netherlands, September 2019
168. Foglia E, te Pas A, Kirpalani H, Davis P, Owen L, van Kaam A, Onland W, Keszler M, Schmolzer G, Hummler H, Lista G, Dani C, Bastrenta B, Localio R, Ratcliffe S. Sustained Inflation vs. Intermittent Positive Pressure Ventilation or Continuous Positive Airway Pressure during Neonatal Resuscitation of Preterm Infants: An Updated Meta-analysis. Third Joint Congress of European Neonatal Societies, Maastricht, The Netherlands, September 2019
169. McKinney RL, Napolitano N, Matlock D, Lai K, Levin J, Leeman K, Baker CD, Hannan KE, Courtney S, Agarwal A, Kielt M, Shepherd E, Cuevas Guaman M, Truog W, McGrath-Morrow S, Collaco M, Sanlorenzo L, Sindelar R, Cristea I, Rose R, Eldredge L, Nelin L, Keszler M, for the BPD Collaborative. Point Prevalence of Ventilatory Support in Children with Severe Bronchopulmonary Dysplasia. Pediatric Academic Societies Annual Meeting, Philadelphia, PA, May 2020
170. Kole M, Saha, Werner E, Chawla S, Keszler M, McGowan EC, Wyckoff M, Laptook, Abbot R for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. Maternal hypertensive disorders and survival without major morbidities among extremely low gestation newborns (ELGANs). Pediatric Academic Societies Annual Meeting, Philadelphia, PA, May 2020.
171. Owen LS, Foglia EE, Ratcliffe SJ, Simma B, Katheria A, te Pas A, Onland W, van Kaam A, Keszler M, Kirpalani H, Davis PG. Deferred consent within a neonatal randomized resuscitation trial reduces selection bias. Pediatric Academic Societies Annual Meeting, Philadelphia, PA, May 2020

172. Simma B, Owen LS, Foglia EE, Ratcliffe SJ, Katheria A, te Pas A, Onland W, van Kaam A, Keszler M, Kirpalani H, Davis PG. Nachträgliche Einwilligung in einer randomisierten Studie im Kreissaal reduziert den Selektionsbias. Gesellschaft für Neonatologie und Pädiatrische Intensivmedizin, Berlin, Germany, June 2020

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

1. Siva Subramanian KN, McCullough L, Keszler M, et al: Ethics Committee Sociodrama. Educational videotape. Extended European Bioethics Course, June 1988.
2. Pellegrini E, Siva Subramanian KN, Keszler M, et al: Neonatal Ethics Committee. Network for Medical Education, Educational videotape. April 1991.
3. Clinical Guidelines and Observations on Babylog 8000 plus with PSV and VG. Educational booklet. 1999, Draeger Medizintechnik, Lubeck, Germany.
4. Keszler M. Clinical Guidelines for the Use of Volume Guarantee: Practice Guidelines for the Bedside. Clinics in Perinatology. 2007;34(1):116e1-116e4.

INVITED PRESENTATIONS

VISITING PROFESSORSHIPS

1. Children's Hospital Medical Center of Akron, Department of Neonatology. March 1990:
 - Grand Rounds, “High frequency ventilation 1990”.
 - Resident Lecture, “Diagnosis and treatment of persistent pulmonary hypertension of the newborn”.
2. Children's Hospital of the King's Daughters, Norfolk, VA, November 1990:
 - Neonatology Grand Rounds, “Extracorporeal Membrane Oxygenation 1990 and beyond”.
3. Research Institute, Care of Mother & Child, Charles University, Prague, Czech Republic. June 1991.
 - Lecture, “Clinical and research experience with high frequency jet ventilation in the USA”.
4. Second Perinatal Clinic, Charles University, Prague, Czech Republic, June 1991:
 - Lecture, “Extracorporeal membrane oxygenation for the treatment of refractory respiratory failure in the newborn”.
5. The University Hospital Motol, Charles University, Prague, Czech Republic, June 1991,
 - Lecture, “Extracorporeal membrane oxygenation: Why, when, and how”.
6. Second Perinatal Clinic, Charles University, Prague, Czech Republic, October 1995:
 - Lecture, “The role of Extracorporeal membrane oxygenation and Nitric Oxide in the treatment of PPHN”.
7. Women’s College Hospital & Toronto Sick Children’s Hospital, University of Toronto, Canada, March 1997:
 - Neonatology Academic Day Lecture, “High-frequency jet ventilation and cerebral injury-Lessons from the collaborative HFJV in RDS study”.
8. Uniformed Services University of the Health Sciences, Bethesda, MD, May 21, 1997:
 - Academic Day Lecture, “Recent developments in High-frequency ventilation-Lessons from the collaborative HFJV in RDS study”.
9. K.K. Women’s and Children’s Hospital, Singapore, June 29, 1998:
 - Lecture, “New developments in conventional ventilation of infants”.
10. University of Rochester, Children's Hospital at Strong Memorial Hospital, July 29, 1998.
 - Lecture Series and Case Discussion, “Extracorporeal membrane oxygenation: indications, contraindications, management and outcome”.

11. University of Toronto, Canada, June 2000.
 - Neonatology Academic Half-day Lecture, "Lung-protective strategies in neonatal mechanical ventilation".
 - Respiratory Therapy Dept Lecture, Toronto Sick Children's Hospital, "Theory and application of new ventilatory modalities in the NICU".
 - Respiratory Therapists Lecture, Mount Sinai Hospital, "New ventilatory modalities in the NICU: synchronized ventilation and HFV".
 - Lecture, Women's College Hospital, "Clinical case studies of pressure support/volume guarantee in neonates".
12. University of the United Arab Emirates - Al, Ain, Al Ain, United Arab Emirates, October 2000.
 - Faculty of Medicine Lecture, "Nitric oxide–Current practice in the USA".
 - Faculty of Medicine Lecture, "Advances in high-frequency ventilation".
13. The Perinatal Center of First Faculty of Medicine, Charles University, Prague, Czech Republic, November 2000.
 - Lecture and Discussion, "Volume guarantee and pressure support ventilation in acute and chronic lung diseases in newborn infants".
 - Lecture and Discussion, "Surfactant lavage for severe meconium aspiration syndrome".
14. The University of Helsinki Medical Center (Prof. Vinepa Fellman) Helsinki, Finland, October 2001.
 - NICU Rounds and Lecture, "Advanced modes of synchronized conventional ventilation and the role of volume targeted ventilation in the prevention of lung injury".
15. Ulleval University Hospital, (Professor Rolf Lindemann) Oslo, Norway, October 2001.
 - NICU Rounds and Lecture, "Advanced modes of synchronized conventional ventilation and the role of volume targeted ventilation in the prevention of lung injury".
16. Schneider Children's Hospital (University of Tel Aviv), Tel Aviv, Israel. February 2002.
 - Ward Rounds, Case Presentations and Discussion.
17. Shaare Zedek Medical Center, Jerusalem, Israel, February 2002.
 - Ward Rounds, Case Presentations and Discussion.
Lecture: "The role of advanced synchronized mechanical ventilation modes in the prevention of lung injury".
18. University of South Florida, Tampa, FL, October 2005.
 - Ward Rounds and Case Presentations.
 - Discussion of Fellow's Current Research Projects
 - Pediatric Grand Rounds: "Modern Conventional Ventilation. How to avoid injuring the baby you seek to save".
 - Neonatal Fellow Lectureship, 12th Annual John Curran MD
19. University of Innsbruck, Innsbruck, Austria, January-February 2006 (three weeks).
 - Daily Ward Rounds, Teaching Rounds.
 - Total of ten lectures on a variety of respiratory topics
 - Animal laboratory research participation

20. King Faisal National Guard Specialist Hospital and Research Center, Jeddah, Saudi Arabia, November 2006
 - Ward Rounds
 - Faculty & House-staff Question & Answer Session: Modalities of respiratory support in newborn
21. King Fahd Ministry of Health Hospital, Jeddah, Saudi Arabia, November 2006
 - Ward Rounds
 - Senior Staff Informal Discussion on a range of subjects in the care of high-risk neonates
22. Women & Infants Hospital, Brown University, Providence, RI, May 2007
 - MFM, Pediatric Surgery & Neonatology Current Concepts in the Management of Congenital Diaphragmatic Hernia
 - Review of current research by Fellows and Junior Faculty
 - Informal Question and Answer Session with Neonatology Fellows
 - Ward Rounds and Case Presentation
 - Pediatric Research Colloquium presentation
23. Singaporean Ministry of Health “Health Manpower Development Plan” K.K. Women’s and Children’s Hospital, National University Hospital and Singapore General Hospital, Singapore, January 4-10 2009.
 - Daily Ward Rounds
 - Round Table Discussions
 - Discussion on starting ECMO program at KK Women’s and Children’s Hospital
 - Presentation of Research Projects by Registrars and Associate Consultants
 - Hands on Demo of Ventilators and Pulmonary GraphicsDaily Lectures:
 - The Golden First Hour after Birth
 - Expanded Use of Nitric Oxide in Term and Preterm Infants
 - Update on Volume Guarantee Ventilation
 - Update on High Frequency Ventilation
 - Pressure Support and Volume Guarantee Ventilation- Do they make a difference?
 - Congenital Diaphragmatic Hernia: Contemporary Management and Outcome
 - Surfactant Use in the Treatment of Term Infants with Severe Respiratory Failure
 - Oxygen Therapy: How Much is Enough and Safe
 - Pulmonary Graphics Monitoring: Usefulness and Limitations
24. Neonatology, Janeway Children’s Hospital, Memorial University of Newfoundland, St. John’s, Newfoundland. May 2010
 - Ward Rounds
 - Resident Academic Half Day, “Respiratory Physiology Board Review and Quiz”
 - Pediatric Grand Rounds, “Advances in Mechanical Ventilation: How to Avoid Physician Induced Lung Injury”

25. First Obstetrical-Gynecological Clinic/Neonatology Division, Charles University, Nov 25-29, 2010, Prague, Czech Republic.
 - Ward Rounds
 - Case Presentations
 - Participation in the Care of the ELBW infant postgraduate course
26. Morgan Stanley Children's Hospital, Columbia University, New York, NY December 17, 2014
 - Ward Rounds
 - Physician-induced lung injury: How to avoid hurting the baby you're trying to save. Neonatology Research Conference
 - Review of Respiratory Physiology, Fellows conference
27. Texas Children's Hospital, Baylor University, Huston, TX, December 16, 2016
 - Reba Michels Hill, MD Memorial Lecture: "Physician-Induced Lung Injury: How to Avoid Hurting the Baby You Are Trying to Save"
 - Small group discussion with Neonatology Faculty
 - Neonatology Noon Conference: Less is More: Approaches to Less Invasive Respiratory Support.
28. Duke University Hospital, Duke University, Durham, NC, April 28, 2017
 - Lung-Protective Strategies of Mechanical Ventilation
 - Tour of NICU and PICU
 - Fellow Noon Conference – What have we learned from landmark papers in neonatology?
29. McMaster University, Hamilton, Ontario, Canada, October 2018
 - Academic Half Day with Fellows: case presentation and discussion
 - Neonatal Grand Rounds: Lung-Protective Ventilation Strategies
 - NICU rounds with faculty and house-staff
 - Open forum discussion with Faculty
 - Open forum discussion with Respiratory Therapy staff
30. University of Mississippi Medical Center, Jackson, Mississippi, October 2018
 - NICU Ward Rounds
 - Meet the Professor session with Fellows
 - Neonatal Grand Rounds: Volume-targeted Ventilation
 - Fellow's conference: High-Frequency Ventilation

PANEL DISCUSSIONS, WORKSHOPS & CONFERENCE PARTICIPATION AS MODERATOR OR INVITED PARTICIPANT

1. Moderator, Workshop on ECMO Patient Management, 7th Annual Spring Workshop, Advanced Session, Ann Arbor, MI, April 1988.
2. Panel Discussion, Veno-venous Extracorporeal Membrane Oxygenation, Fifth Annual Conference on Neonatal ECMO, Snowmass CO, February 1989.
3. Invited participant, NIH Workshop on Diffusion of ECMO Technology, May 1990, Washington, DC
4. Panel Discussion, "Current trends in management and care of the infant/pediatric patient with circulatory defects". Annual Academy Meeting of the American Academy of Cardiovascular Perfusion, September 1990, Chicago, IL.
5. VV ECMO Panel, "Tidal flow veno-venous ECMO vs. continuous flow double lumen veno-venous ECMO", 7th Annual Children's Hospital National Medical Center ECMO Symposium, February 1991, Breckenridge, CO.
6. Panel Discussion, "Matching jet ventilation strategies to specific pathophysiologies", 8th Annual Conference on High Frequency Ventilation of Infants, April 1991, Snowbird, UT.
7. Panel Discussion Chair, "Common clinical problems during ECMO", Pediatric ECMO, Basic course, Extracorporeal Life Support Organization, September 1991, Ann Arbor, MI.
8. Panel Discussion, Confessions of an ECMO team, 4th Annual Extra-corporeal Life Support Organization Meeting, October 1992, Detroit, MI.
9. Moderator, Discussion of Poster Session Papers. 4th Annual Extracorporeal Life Support Organization Meeting, October 1992, Detroit, MI.
10. Panel Discussion, Tough questions, tough decisions: Ethical considerations. West-East Chesapeake Association of Neonatal Nurses Fall Meeting, November 1992, Baltimore, MD.
11. Roundtable Leader, ECMO for Neonatal Respiratory Failure, 5th Annual Extracorporeal Life Support Organization Conference, Dearborn, Michigan, October 1993.
12. Invited participant, NIH Workshop on Nitric oxide, December 1993, Washington, D.C.
13. Moderator, Breakout Session, Nuts and bolts of neonatal ECMO, Tenth Annual Children's Hospital National Medical Center ECMO Symposium, February 1994, Keystone, CO.
14. HFV- Situation today, ideas toward the future. Roundtable, High Frequency Ventilation Workshop sponsored by Draeger Ballings, Brussels, Belgium, September 1994.

15. Moderator, Breakout Session, Neonatal ECMO case presentations, 11th Annual Children's Hospital National Medical Center ECMO Symposium, February 1995, Keystone, CO.
16. Moderator and Featured Speaker, Unconventional means of gas exchange in neonates. Czech Neonatological Society Annual Meeting, Kladno, Czech Republic, October 1995.
17. Pressure support ventilation. Draeger Workshop on Patient triggered ventilation: New Software Developments. Chantilly, VA, November 1995.
18. Extracorporeal Membrane Oxygenation. Panel Discussion: The patient speaks. Fifth Annual Event of the American Institute of Medical and Biological Engineering: The Impact of Bioengineering and Medical Technology on the Quality of Life. March 1996, Washington DC.
19. HFJV in infants with RDS: The strategy makes a difference. Bunnell Workshop, 13th Annual Conference on High Frequency Ventilation of Infants, Snowbird, UT, March 1996.
20. Moderator, 12th Mid-Atlantic Conference on Perinatal Research. Irvington, VA, October 1996.
21. Moderator, 22nd Mid-Atlantic Conference on Perinatal Research. Irvington, VA, October 1998.
22. The Great Debate: High-frequency ventilation as the initial mode of ventilation for infants with uncomplicated RDS. Neonatal Advanced Practice Nursing Forum 2001, Washington, DC, May 2001.
23. Panel Discussion, Advances in mechanical ventilatory support. Annual meeting of the Norwegian Pediatric Association, Tromso, Norway, October 2001.
24. Panel Discussion, Current and creative strategies for treating and preventing BPD, 13th Annual Conference of High Frequency Ventilation and Other Advances in Perinatal/Neonatal Care, Tempe, Arizona, November 2001.
25. Panel Discussion, What is the current role of HFV in the treatment of respiratory failure in newborns and infants? IPOKRATES International Clinical Seminar on High-Frequency Ventilation, Prague, Czech Republic, March 2002.
26. Advanced Training in Respiratory Care in Neonatology for Draeger Inc. Worldwide Sales Force. Two-day intensive seminar. Lubeck, Germany, June 2003.
27. High-frequency ventilation workshop and live animal lab demonstration of advanced concepts of mechanical ventilation. Respiratory course in association with European Society for Pediatric Research, Bilbao, Spain, September 2003.
28. Alternative Strategies for Treatment of Respiratory Failure. Plenary Session, Respiratory course in association with European Society for Pediatric Research, Bilbao, Spain September 2003.
29. Invited Participant, AAP-NICHD Workshop on Research in Neonatology, Rockville, Maryland, January 2004

30. Panel Session: Ask the Professors, Neonatal Update Meeting, The Royal Women's Hospital, Melbourne, Australia March 2004.
31. Moderator, Poster Session I: Neonatal respiratory support and outcome, 7th European Conference on Neonatal and Pediatric Ventilation, Montreux, Switzerland, March 2004.
32. Moderator, 28th Mid-Atlantic Conference on Perinatal Research, Charlottesville, VA, October 2004.
33. Impact of ET tubes, ventilators and ventilator strategies on work of breathing. Workshop on Advances in Neonatal Respiratory Care, Key Biscayne, FL, November 2004.
34. New Modalities of Mechanical Ventilation. Hands on demonstration and discussion. Workshop on Advances in Neonatal Respiratory Care, Key Biscayne, FL, November 2004.
35. Poster Session Facilitator, Poster Session III, PAS Annual Meeting Washington, DC, May 2005.
36. Panel Discussion: What is the current role of HFV in the treatment of respiratory failure in newborns and infants? IPOKRaTES clinical seminar: High-Frequency Ventilation and Other Advanced Ventilatory Strategies in Newborn Infants. May 2005, Erlangen, Germany.
37. Ventilation Workshop: Cases From the Files. 8th Annual Neonatal Advanced Practice Nursing Forum, Washington, DC, June 2005.
38. Live animal demonstration of open lung concept/lung volume recruitment in a surfactant depleted lamb model. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, Bilbao, Spain February 2006.
39. Non-invasive ventilation in tiny infants. Workshop, XXth European Congress of Perinatal Medicine, Prague, Czech Republic, May 2006.
40. Ventilation Workshop. Hands-on demonstration and discussion using live surfactant lavaged animal model. 4th International Symposium "El Pulmon del Recien Nacido" (The lung of the newly born). Buenos Aires, Argentina, June 2006.
41. Meet the Experts Workshop: Neonatal mechanical ventilation. Practical session on newer modes of mechanical ventilation, Saudi Pediatric Association 3rd International Conference on Child Health, Jeddah, Saudi Arabia November 2006.
42. Special Modes of Ventilation Workshop: Demonstration on Ventilators and Lung Models. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support. Istanbul Turkey, February 2007.
43. Inhaled Nitric Oxide Workshop Leader. When to start, whom to treat, interaction on iNO and HFV. First International Neonatal Respiratory Symposium, Doha, Qatar, March 2007.

44. Roundtable Discussion Moderator: New Modes of Mechanical Ventilation. Jornada Internacional de Neonatologia, Hospital Universitaire “La FE”, Valencia, Spain, June 2007.
45. Roundtable Discussion Participant: Persistent Pulmonary Hypertension. Jornada Internacional de Neonatologia, Hospital Universitaire “La FE”, Valencia, Spain, June 2007.
46. Roundtable Discussion Participant: Bronchopulmonary Dysplasia. Jornada Internacional de Neonatologia, Hospital Universitaire “La FE”, Valencia, Spain, June 2007.
47. Special modes of ventilation: Demonstration on ventilators and lung model. Resuscitation, Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRATES Postgraduate Course on Neonatal Respiratory Support, Porto, Portugal, September 2007.
48. Co-Chair of PAS Hot Topic, Innovative Ventilation for Infants: From Hi Tech to Non-Invasive Respiratory Support. PAS annual meeting, Honolulu, Hawaii, May 2008.
49. Resuscitation Workshop: One of four invited experts to identify optimal equipment needs for new generation of Neonatal workstations. Draeger Inc, Telford PA, June 2008.
50. Hands-on Demonstration, Babylog Ventilator and Volume Guarantee. King Khalid Medical City, Riyadh, Saudi Arabia, September 2008.
51. Hands-on Demonstration, Babylog Ventilator and Volume Guarantee. King Faisal National Guard Specialist Hospital and Research Center, Jeddah, Saudi Arabia, September 2008.
52. Hands-on Demonstration, Babylog Ventilator and Volume Guarantee. Saint Joseph’s Hospital, Denver, CO, September 2008.
53. Invited presenter, Technological innovations for optimizing neonatal pulmonary care, NICHD Workshop: Safe and Effective Devices for use in the NICU. NICHD, Bethesda, MD, February 2009.
54. Invited presenter, Metabolic monitoring: glucose, lactate, and electrolytes, NICHD workshop: Safe and Effective Devices for use in the NICU. NICHD, Bethesda, MD, February 2009.
55. Course Director, Mechanical Ventilation: From theory to practice. Two day intensive course with lectures and workshops, University of Cairo, Cairo, Egypt February 2009.
56. Course Director, Mechanical Ventilation: From theory to practice. Two day intensive course with lectures and workshops, Benha Children’s Hospital, Benha, Egypt February 2009.
57. Platform Session Moderator, Bronchopulmonary Dysplasia: Research Results. Pediatric Academic Societies Original Science Abstracts, Baltimore MD, May 2009.
58. New Ventilatory Strategies Course. Joint congress of the European Paediatric Surgeons’ Association (EUPSA) and the British Association of Paediatric Surgery (BAPS), Graz, Austria, June 2009.

59. Neonatal Specialty Review Course, Pulmonary Problem Solving Workshop and Tutorial, Orlando, FL, February 2010.
60. Moderator, Platform Presentation Session, Neonatal - Patient-Oriented Research VI. Pediatric Academic Societies Original Science Abstracts. Vancouver, Canada, May 2010.
61. Pulmonary Problem Solving Workshop and Tutorial. Neonatal Specialty Review Course. Orlando, FL, February 2011.
62. Two three-hour Respiratory Workshops: Introduction; Practical Approach to Pulmonary Graphics at the Bedside; Real Life Case Scenarios – interactive; Question period. 11th Annual meeting of the Saudi Neonatology Society, Riyadh, Saudi Arabia April 2011.
63. Activity Chair and Expert Panel Moderator, Inhaled Nitric Oxide in the Neonate: Current Role and Future Opportunities. Satellite Symposium, Hot Topics in Neonatology, Washington, DC December 2011.
64. Platform Session Moderator, Neonatal Clinical Trials II. Pediatric Academic Societies Original Science Abstracts, Boston, MA, April 2012
65. Pulmonary Problem Solving Workshop and Tutorial. Specialty in Review in Neonatology/Perinatology 2.0. Orlando, FL, February 2012.
66. State of the Art in Neonatal Ventilation. Clinical management review and hands-on demonstration of Babylog VN 500. Special workshop in conjunction with IPOKRATES seminar, KK Women's Hospital, Singapore, August 2012.
67. Interactive Ventilation Session. Mechanical Ventilation and BPD Symposium, Royal Prince Alfred Hospital, University of Sydney, Sydney, NSW, Australia, August 2012.
68. Practical problem solving in Volume - targeted ventilation, Royal Women's Hospital, Melbourne, Victoria, Australia, August 2012.
69. Roundtable Discussion, Pulmonary Hypertension. Congreso Latino Americano de Pediatria ALAPE 2012 in Quito, Ecuador, November 2012.
70. The DR Recruit Trial Research Protocol. 3rd Neonatal Resuscitation Research Workshop, Bethesda, MD, April 2013.
71. Volume Guarantee Ventilation - 3 hour workshop. Neonatus 2013 conference, Poznan University of Medical Sciences, Poznan, Poland, May 2013.
72. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2014.

73. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2014.
74. Panel Discussion on Surfactant and Modes of Ventilation. VIII Annual Scott & White Neonatal Conference, Temple, Texas, September 2014.
75. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Dubai, UAE, November 2014.
76. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Dubai, UAE, November 2014.
77. Symposium Chair and Roundtable discussion leader. New Directions in Neonatal Respiratory Critical Care Satellite Symposium at Hot Topics in Neonatology, Washington DC, December 2014.
78. Poster session facilitator x2 , PAS meeting, San Diego, CA, April 2015.
79. 4th Neonatal Resuscitation Research Workshop, invited participant. San Diego, CA, May 2015
80. Expert Panel Meeting on Nasal High Flow Therapy, invited participant, University of Oxford, Oxford, England, June 2015.
81. Pulmonary physiology. Advanced Neonatal Ventilation Workshop. Fourth Arab Neonatal Congress & 2nd Pediatric Updates, Dubai, UAE, September 2015.
82. Conventional Ventilation: Volume or Pressure? Advanced Neonatal Ventilation Workshop. Fourth Arab Neonatal Congress & 2nd Pediatric Updates, Dubai, UAE, September 2015.
83. Congenital Diaphragmatic Hernia: Contemporary Management and Clinical Guidelines. Advanced Neonatal Ventilation Workshop. Fourth Arab Neonatal Congress & 2nd Pediatric Updates, Dubai, UAE, September 2015.
84. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2015.
85. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2015.
86. Lung recruitment with HFOV demonstration using plastinated newborn pig lung. Third HFOV, HFJV and Advanced Conventional Ventilation Course, University of Alberta, Alberta, Canada, June 2016.
87. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2016.

88. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2016.
89. NICHD Workshop on Bronchopulmonary Dysplasia. Invited Participant. Bethesda, MD, October 2016
90. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Cape Town, South Africa, November 2016.
91. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Cape Town, South Africa, November 2016.
92. 5th Neonatal Resuscitation Research Workshop, invited participant. San Francisco, CA, May 2017
93. Ventilation Case Presentations and Discussion. EPIC Latino, international conference, Columbian Neonatal Society, Bogota, Columbia, May 2017.
94. Roundtable discussion of newborn ventilation strategies. VIII Jornadas Pediátricas y Curso Internacional de Pediatría 2017, Lima, Peru, June 2017.
95. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2017.
96. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2017.
97. Practical session: mechanical ventilation. First Neonatology Scientific Conference / IPOKRaTES Seminar in cooperation with the Pediatric Society of Ghana, University of Ghana Medical Center, Accra, Ghana, November 2017. Meet the Experts.
98. Roundtable discussion. First Neonatology Scientific Conference / IPOKRaTES Seminar in cooperation with the Pediatric Society of Ghana, University of Ghana Medical Center, Accra, Ghana, November 2017.
99. Invited Discussant, Hot Topics in Neonatology. Washington DC, December 2017
100. Discussion and Debate Regarding Challenging Clinical Management - Extremely Low Birth Weight Panel 1. NeoPREP Board Review Course, Atlanta, GA, January 2018.
101. Choosing a ventilation mode and strategy according the pathophysiology and goals of respiratory support. Pre-congress Workshop 1, Disease-tailored ventilation strategies. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
102. Volume targeted ventilation: Various modes and how to best use them. Pre-congress Workshop 1, Disease-tailored ventilation strategies. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.

103. Hands-on group rotations: Demonstrating waveforms and changes during disease. Pre-congress Workshop 1, Disease-tailored ventilation strategies. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
104. Do we need “volume guarantee” modes during HFOV? Pre-congress Workshop 2, Neonatal HFOV ventilators: do they really differ? 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
105. How I use HFOV in neonates. Pre-congress Workshop 2, Neonatal HFOV ventilators: do they really differ? 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
106. Hands-on group rotations: Draeger VN500 HFOV. Pre-congress Workshop 1, Disease-tailored ventilation strategies. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
107. Chair/moderator of session entitled: Trends towards newer modes of non-invasive support in neonates. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
108. Chair/moderator of session entitled: Oral presentations (neonatal topics). 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
109. Chair/moderator of session entitled: Respiratory transition and respiratory support after preterm birth. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
110. Volume Guarantee Ventilation. Practical session and case presentations. Neonatal Ventilation Workshop, Sao Paulo, Brazil, June 2018.
111. Neonatal High-Frequency Ventilation. Practical session and case presentations. Workshop on Neonatal Ventilation, Sao Paulo, Brazil, June 2018.
112. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2018.
113. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2018.
114. Volume-Targeted Ventilation. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2019.
115. High-Frequency Ventilation in Neonates. Small group demonstration and discussion. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2019.
116. Volume Guarantee Ventilation. Workshop on Neonatal Ventilation, Moscow, Russia, October 2019
117. High-Frequency Ventilation. Workshop on Neonatal Ventilation, Moscow, Russia, October 2019

INVITED LECTURES: REGIONAL

1. Pseudohypoaldosteronism in a premature infant. Pediatric Grand Rounds, Georgetown University Medical Center, October 1982, Washington, D.C.
2. The problems of the Infant of a Diabetic Mother, Perinatal - Neonatal Grand Rounds, Greater Southeast Community Hospital, October 1983, Washington, D.C.
3. High-frequency jet ventilation. Neonatal/Perinatal rounds, The Washington Hospital Center, September 1984, Washington, D.C.
4. Extracorporeal membrane oxygenation. Pediatric Grand Rounds, Georgetown University Medical Center, November 1984, Washington, D.C.
5. Extracorporeal membrane oxygenation. Ob-Gyn Grand Rounds, Georgetown University Medical Center, February 1985, Washington, D.C.
6. High-frequency jet ventilation. Neonatology Grand Rounds, Children's Hospital National Medical Center, October 1985, Washington, D.C.
7. Extracorporeal membrane oxygenation update. Pediatric Grand Rounds, Georgetown University Medical Center, February 1986, Washington, D.C.
8. An update on high-frequency jet ventilation. Perinatal - Neonatal/perinatal rounds, The Washington Hospital Center, July 1986, Washington, D.C.
9. Extracorporeal membrane oxygenation (ECMO): An exciting new technology for critically ill newborns. American Heart Association Seminar: Cardiac issues throughout the life cycle, April 1986, Washington, D.C.
10. Extracorporeal membrane oxygenation: Current applications and future trends. National Association for Neonatal Nurses Conference, July 1986, Baltimore, MD.
11. Premature Rupture of Membranes and Prematurity. Guest speaker at the Perinatal Committee lecture series, Greater Southeast Community Hospital, May 1987, Washington, D.C.
12. Extracorporeal membrane oxygenation - Recent developments. Pediatric Grand Rounds, Georgetown University Medical Center, August 1987, Washington, D.C.
13. What is new in high-frequency jet ventilation? Neonatology grand rounds, Children's Hospital National Medical Center, September 1987, Washington, D.C.
14. Respiratory distress in the Newborn. Nursing in the neonatal setting: The complexities of care. Greater Southeast Community Hospital, June 1988, Washington, D.C.

15. Complications of mechanical ventilation. Greater Southeast Community Hospital, June 1988, Washington, D.C.
16. Extracorporeal membrane oxygenation: Past, Present and Future. Pennsylvania Society for Respiratory Care Annual Conference, May 1989. Valley Forge, PA.
17. High-frequency ventilation, 1989. Pediatric Grand Rounds, Georgetown University Medical Center, May 1989, Washington, D.C.
18. High-frequency ventilation: current status and future trends. Neonatology Rounds, Armed Services University, School of Medicine, June 1989, Washington, D.C.
19. Treatment of congenital diaphragmatic hernia. Anesthesia Grand Rounds, Georgetown University Medical Center, June 1989, Washington, D.C.
20. Extracorporeal membrane oxygenation. Perinatal Day 1990. American Academy of Pediatrics, Maryland Chapter Annual Perinatal Day Conference, March 1990, Baltimore, MD.
21. High-frequency ventilation - current status. Neonatal conference, Columbia Hospital for Women, June 1990, Washington D.C.
22. Extracorporeal membrane oxygenation: Current indications, applications, and outcomes in neonates. Main Line Health Pulmonary conference, September 1990, Philadelphia, PA.
23. Extracorporeal membrane oxygenation: Current applications and future trends. Maryland/D.C. chapter of the American Association for Respiratory Care "1990 Respiratory Conference by the Sea" September 1990, Ocean City, MD.
24. What is new in High-frequency ventilation. Neonatal/perinatal rounds Washington Hospital Center, February 1991, Washington, D.C.
25. High-frequency jet ventilation: Past, present & future. Washington Area Neonatology Association meeting, March 1991, Washington, D.C.
26. High-frequency jet ventilation. Pediatric grand rounds, Uniformed Services University School of Medicine, April 1991, Bethesda, MD.
27. High-frequency jet ventilation in the treatment of pulmonary interstitial emphysema. First Annual East Coast High Frequency Jet ventilation conference, June 1991, DuPont Institute, Wilmington, DE.
28. High-frequency jet ventilation in the newborn. Review of recent literature. Pediatric Journal club, Respiratory care department, NIH, June 1991, Bethesda, MD.
29. High-frequency ventilation: The national experience. Guest Faculty Lecture, First Regional Washington Area Fellow Research Seminar, George Washington University, September 1991, Washington, D.C.

30. Update on high frequency ventilation in the newborn: Neonatal/perinatal rounds. December 1991, Washington Hospital Center, Washington, D.C.
31. New developments in Neonatal ECMO. Neonatology conference, Columbia Hospital for Women, September 1992, Washington D.C.
32. The role of high-frequency ventilation in the respiratory care of newborns. Pediatric Conference, March 1993, D.C. General Hospital, Washington, D.C.
33. New technologies in Neonatology: High-frequency ventilation, ECMO and Nitric Oxide. Future Generations: Advances in Perinatal and Neonatal Medicine. Science Writers' Forum. Georgetown University, September 1993, Washington, D.C.
34. Congenital diaphragmatic hernia and ECMO. Hospital for Sick Children Washington, D.C. September 1993, Washington, D.C.
35. New techniques of conventional mechanical ventilation. Neonatology Grand Rounds, March 1995, Holy Cross Hospital, Silver Spring MD.
36. Space-age technologies in the NICU. Regional conference on The High Risk Newborn: From stone age to space age. October 1995, Georgetown University, Washington DC.
37. High-frequency jet and oscillatory ventilation - clinical applications. Neonatology Conference, September 1996, Holy Cross Hospital, Silver Spring MD.
38. Recent developments in the treatment of PPHN. Neonatal/Perinatal rounds Washington Hospital Center, June 1997, Washington, D.C.
39. Update on neonatal ventilatory support. Neonatal/Perinatal rounds Washington Hospital Center, June 1997, Washington, D.C.
40. High-frequency ventilation/Airleak syndrome. Sibley Hospital, November 1997, Washington, DC.
41. High-frequency oscillatory ventilation - clinical management. Neonatology conference, Columbia Hospital for Women, December 1997, Washington D.C.
42. Meconium Aspiration Syndrome. Joint Pediatric / OB-GYN CME conference, Prince George's Hospital Center, January 1998, Cheverly, MD.
43. Optimizing high-frequency jet ventilation. Neonatology conference, Holy Cross Hospital, March 1998 Silver Spring MD.
44. Advanced ventilatory techniques in neonates. Neonatal Workshop, Arlington Hospital, March 1998, Arlington, VA.

45. New technologies in Neonatology. Pediatric Grand Rounds, Alexandria Hospital, March 1998, Alexandria, VA.
46. Inhaled Nitric Oxide for the treatment of PPHN. Neonatal/Perinatal rounds, Washington Hospital Center, April 1998, Washington, D.C.
47. High-frequency ventilation and other newer technologies in Neonatal respiratory support. Pediatric Grand Rounds Georgetown University, April 1998, Washington, D.C.
48. Advanced techniques in conventional mechanical ventilation in neonates. Neonatal Workshop, Arlington Hospital, March 1999, Arlington, VA.
49. Nitric oxide and its role in the treatment of PPHN. Pediatric Grand Rounds Georgetown University, February 2000, Washington, D.C.
50. Nitric Oxide in the treatment of newborns with hypoxemic respiratory failure. Neonatology Grand Rounds, May 2000, Holy Cross Hospital, Silver Spring, MD.
51. Congenital Diaphragmatic Hernia: the Neonatology Perspective. 14th Annual Pediatric/Pediatric Surgery Symposium. June 2000, Uniformed Services University of the Health Sciences, Bethesda, MD.
52. Surfactant use in neonatal RDS – Does Infasurf offer any advantages? Neonatology Grand Rounds, November 2000, Holy Cross Hospital, Silver Spring, MD.
53. Advanced techniques of conventional neonatal ventilation. Neonatal Advanced Practice Nursing Forum 2001, May 2001, Washington, DC.
54. Inhaled Nitric Oxide in Term and Preterm Infants. Neonatal Conference, Innova Alexandria Hospital, June 2003, Alexandria, VA.
55. Pathophysiology and treatment of congenital diaphragmatic hernia. Perinatal Grand Rounds, October 2003, York Hospital, York, Pennsylvania.
56. Volume targeted ventilation. Neonatology Seminar, Uniformed Services University of the Health Sciences, November 2003, Bethesda, MD.
57. Ventilator strategies for the prevention of ventilator-induced lung injury. South Central Pennsylvania Neonatology Association Annual dinner meeting and lecture, October 2003, York, Pennsylvania.
58. Advanced Modes of Conventional Ventilation and Avoidance of Ventilator-induced Lung Injury. Neonatal conference, Washington Hospital Center, May 2005, Washington, DC.
59. Volume-targeted Ventilation. Virginia Society for Respiratory Care Annual meeting, July 2005, Charlottesville, VA.

60. Expanded use of Inhaled Nitric Oxide in term and preterm newborn infants. Holy Cross Hospital, May 2006, Silver Spring, MD.
61. Inhaled Nitric Oxide for Treatment of Persistent Pulmonary Hypertension of the Newborn. Current Perspectives on Neonatal Care 2006, May 2006, Winchester, VA.
62. Modern Conventional Ventilation: How to Avoid Injuring the Baby you Seek to Save. Eighth Annual Collaborative Neonatal Conference: “New Concepts in Neonatal Intensive Care” New York University Post-Graduate Medical School, September 2006, New York, NY.
63. Chronic Lung Disease in Newborn Infants: What is it? Can we prevent it? Annual Respiratory Care Conference, October 2006, Georgetown University, Washington DC.
64. High-Frequency Ventilation in the Newborn infant – update. Monthly Neonatal CME Conference, Washington Hospital Center, December 2006, Washington, DC.
65. Advances in Conventional Mechanical Ventilation: How do we Avoid Physician-Induced Lung Injury? Children’s National Medical Center Lecture for Neonatology Fellows and Staff, June 2008, Washington DC.
66. Non-Invasive Respiratory Support: Less is Better. 8th National Neonatal Nurses Meeting sponsored by the Neonatal Network and the Academy of Neonatal Nursing, Washington, DC, October 2008.
67. State of the Art in Mechanical Ventilation. 8th National Neonatal Nurses Meeting sponsored by the Neonatal Network and the Academy of Neonatal Nursing, Washington, DC, October 2008.
68. Modern Conventional Ventilation: How not to injure the lungs of the baby you are trying to save. Fellow’s conference, Penn State University School of Medicine, Hershey Medical Center, Hershey, PA January 2009.
69. Update on Inhaled Nitric Oxide Therapy For Hypoxemic Respiratory Failure. Neonatology/Respiratory Conference, St. Joseph’s Hospital, Baltimore, MD July 2009.
70. Inhaled Nitric Oxide Therapy in Term and Late Preterm Infants with Hypoxemic Respiratory Failure. Henrico Doctor’s Hospital, Richmond, VA, November 2009.
71. Inhaled Nitric Oxide Therapy in Term and Late Preterm Infants with Hypoxemic Respiratory Failure. Winchester Memorial Hospital, Winchester, VA, November 2009.
72. State of the Art in Neonatal Respiratory Support. Pediatric Research Colloquium. Women’s and Infants’ Hospital, Brown University, Providence, RI. January 2010.
73. Inhaled Nitric Oxide for Treatment of Hypoxemic Respiratory Failure. Mary Washington Hospital, Fredericksburg, VA February 2010.
74. Inhaled Nitric Oxide for Hypoxemic Respiratory Failure. Holy Cross Hospital, Silver Spring, MD March 2010.

75. Treatment of Hypoxemic Respiratory Failure. St. Mary's Hospital. Richmond, VA, April 2010.
76. Treatment of Hypoxemic Respiratory Failure with Inhaled Nitric Oxide. New Hanover Regional Medical Center, Wilmington, NC, May 2010.
77. Inhaled Nitric Oxide for Treatment of Hypoxemic Respiratory Failure. Pitt County Memorial Hospital, Greenville, NC, May 2010.
78. Non-invasive Respiratory Support. Blue Ridge Symposium First Annual Neonatal/Pediatric Conference, Winchester, VA May 2010.
79. Lung-Protective Ventilation Strategies. Blue Ridge Symposium First Annual Neonatal/Pediatric Conference, Winchester, VA May 2010.
80. Oxygen Therapy: The Good, The Bad and The Ugly. Blue Ridge Symposium First Annual Neonatal/Pediatric Conference, Winchester, VA May 2010.
81. Inhaled Nitric Oxide in the Term and Premature Newborn. Visiting Lecturer Series in Perinatal Pediatrics, Washington Hospital Center, Washington DC, June 2010.
82. Mechanical Ventilation: "Old School vs New School" - Which is Better? Suncoast Pulmonary Symposium, Fort Myers, FL, September 2010.
83. Neonatal Ventilation: High Frequency, Low Frequency or No Frequency. Sixth Annual Advances in Neonatology Conference, Children's Hospital of Philadelphia, Philadelphia, PA Oct. 2010.
84. Volume-Targeted Ventilation in Neonatal Respiratory Support. Brown Pulmonary Research Seminar, Rhode Island Hospital, Providence, RI, March 2011.
85. Primum Non Nocere: Lung-Protective Strategies of Respiratory Support. Neonatal- Perinatal Medicine Featured Speaker, New England Perinatal Society Annual Meeting, Newport, RI, March 2011.
86. Mechanical Ventilation in the Newborn Infant: Old School vs. New School Approaches. Rhode Island Society for Respiratory Care annual meeting, Newport, RI, March 2011.
87. What Would You Do? Management of the 30 Week Preterm Infant: Early respiratory management. NeoFest 2011, Cincinnati Children's Hospital, Cincinnati, OH, March 2011.
88. Hypoxemic Respiratory Failure in Extremely Preterm Neonates. 6th Annual New York Hospital Queens, Department of Pediatrics Neonatal Symposium. New York, NY, May 2011.
89. Inhaled Nitric Oxide in Hypoxic Respiratory Failure: Where have we been and where are we going? Perinatal Management Conference, Women & Infants Hospital, Providence, RI, June 2011.

90. Primum non-nocere: How to avoid physician- induced lung injury. Neonatal Grand Rounds, Tufts University, Boston, MA, September 2011.
91. Lung-protective Strategies of Mechanical Ventilation. Greater Baltimore Medical Center, Baltimore, MD October 2011.
92. Lung-Protective ventilation strategies: How to avoid physician-induced lung injury? Academic Day for Neonatologists of Southern California (ANOSC) meeting , Children's Hospital of Orange County, CA November 2011.
93. Lung Protective Ventilator Strategies. Special CME conference, Main Line Health System, Bryn Mawr, PA March 2012.
94. Non-Invasive neonatal Respiratory Support: Alphabet Soup, Part I. Neonatology 2012 Conference. Atlanta, Georgia March 2012.
95. Invasive Neonatal Respiratory Support: Alphabet Soup, Part II. Neonatology 2012 Conference, Atlanta, Georgia March 2012.
96. Respiratory physiology. Fellows conference, University of Connecticut Health Center, Hartford, CT, April 2012.
97. Volume Guarantee Ventilation and Other Lung-Protective Strategies in Neonatal Ventilation. Special lecture, University of Connecticut Health Center, Hartford, CT, April 2012.
98. Volume-targeted ventilation. Special CME conference, Women's Hospital of Texas, Houston, TX, May 2012.
99. High-frequency ventilation 1012. Regional CME lecture, Houston, TX May 2012.
100. Update on volume-targeted ventilation. Neonatology conference, Hermann Memorial Hospital, University of Texas, Houston, TX, May 2012.
101. Contemporary Neonatal Ventilation. Neonatal Care Today Conference, Dallas, TX, May 2012.
102. A Clinical Research Protocol Presentation: Multicenter Randomized Controlled Trial of HFOV with the Draeger VN 500 Ventilator vs. the SensorMedics HFOV Device in ELBW Infants with RDS. Pediatric Research Colloquium, Women & Infants Hospital, Providence, RI May 2012.
103. Inhaled Nitric Oxide Therapy. Brooklyn-Queens Neonatal Network Meeting, New York, NY, June 2012.
104. Sustained Inflation in DR Stabilization of ELBW Infants. Pediatric Research Colloquium, Women & Infants Hospital, Providence, RI, September 2012.
105. Volume-targeted Ventilation: New Paradigm in Newborn Ventilation. Neonatal Research Seminar, Massachusetts General Hospital, Harvard University, Boston, MA, March 2013.

106. Ventilation Modes and the Intubated Newborn: Finding Best Practices in a Sea of Options. New England Neonatology Quality and Safety Forum sponsored by the March of Dimes and the Neonatal Quality Improvement Collaborative of Massachusetts, Westborough, MA, June 2013.
107. Resuscitation: Using Sustained Inflation to Rapidly Establish FRC. Pulmonary, Critical Care and Sleep Medicine Research Conference sponsored by the Alpert Medical School of Brown University at Rhode Island Hospital, Providence, RI, October 2013.
108. Stem Cell Therapy for BPD. Pediatric Research Colloquium, Women & Infants Hospital, Providence, RI, November 2013.
109. BIT:s and Pieces: BPD Interdisciplinary Team Approach to Management of Infants with Severe Bronchopulmonary Dysplasia. Rhode Island Hospital Pediatric Grand Rounds, Providence, RI, December 2017.
110. The DOVE Study (Draeger Oscillatory Ventilation Evaluation) Pediatric Research Colloquium, Women & Infants Hospital, Providence, RI, November 2014.
111. iNO Therapy at WIHRI – Are we too restrictive/ Are we too permissive?: Three bears looking for Goldilocks. Perinatal Management Conference, Women & Infants Hospital, Providence, RI October 2014.
112. Volume-targeted ventilation. Research conference, Morgan Stanley Children’s Hospital, Columbia University, New York, NY, December 2014.
113. Update on High-frequency jet ventilation. Research conference, Tufts University Hospital, Boston, MA, July 2015.
114. Continued care of the infant with severe bronchopulmonary dysplasia. Perinatal Management Conference, Women & Infants Hospital, Providence, RI, July 2015.
115. Less is more: Approaches to less invasive forms of respiratory support. Perinatal Management Conference, Women & Infants Hospital, Providence, RI, December 2015.
116. Pathophysiology and treatment of PPHN: Beyond iNO. Perinatal Management Conference, Women & Infants Hospital, Providence, RI, February 2016.
117. Multicenter, randomized, controlled trial to assess the safety and tolerability of lucinactant for inhalation in preterm neonates. Perinatal Research Colloquium. Women & Infants Hospital, Providence, RI, April 2016.
118. Patient-ventilator interactions and pulmonary graphics. Perinatal Management Conference, Women & Infants Hospital, Providence, RI, May 2017.
119. High-frequency ventilation: Is there anything new? Perinatal Management Conference, Women & Infants Hospital, Providence, RI, July 2017.

120. Volume-targeted Ventilation: It's time to embrace the new paradigm. Special Neonatology conference, Yale Division of Neonatal-Perinatal Medicine, New Haven, CT, October 2017.
121. Keszler M, Daigle K and McKinney R. BITS and Pieces – The puzzle comes together: Interdisciplinary Team Approach to Management of Infants with Severe BPD. Rhode Island Hospital Pediatric Grand Rounds, Providence, RI, December 2017.
122. Keszler M. Bronchopulmonary Dysplasia: It's here to stay, we might as well own it! Women & Infants Hospital, Perinatal Management Conference, March 2018.
123. Keszler M. Approach to the Infant with Hypoxemic Respiratory Failure: Guidelines for the Rational and Cost-Effective Use of Inhaled Nitric Oxide. Women & Infants Hospital, Perinatal Management Conference, July 2019.

INVITED LECTURES: NATIONAL:

1. Extracorporeal membrane oxygenation in the treatment of refractory respiratory failure. Featured lecture, 7th Annual Conference on High Frequency Ventilation of Infants, April 1990, Snowbird, UT.
2. Clinical application of high-frequency jet ventilation. The 15th Annual Symposium, Care of the Sick Newborn, April 1990, Long Beach, CA.
3. Treatment of Pulmonary hypertension of the newborn. The 15th Annual Symposium, Care of the Sick Newborn, April 1990, Long Beach, CA.
4. Collaborative clinical trial of HFJV in newborns with pulmonary interstitial emphysema. The 15th Annual Symposium, Care of the Sick Newborn, April 1990, Long Beach, CA.
5. Extracorporeal membrane oxygenation: Evolution, present status and future directions. Annual Academy Meeting of the American Academy of Cardiovascular Perfusion, Sept. 1990, Chicago, IL.
6. Collaborative clinical trial of HFJV in newborns with pulmonary interstitial emphysema. Second Annual High-Frequency Ventilation Conference, November 1990, Phoenix, AZ.
7. Airway injury risk and high-frequency ventilation. Second Annual High Frequency Ventilation Conference, November 1990, Phoenix, AZ.
8. Matching ventilator strategies to disease pathophysiology. Fourth Annual High-Frequency Ventilation Conference, November 1992, Phoenix, AZ.
9. High-frequency jet ventilation in uncomplicated RDS: Clinical Strategies. Fourth Annual High-Frequency Ventilation Conference, November 1992, Phoenix, AZ.

10. Alternate therapies for persistent pulmonary hypertension of the newborn. Seventeenth Annual Symposium on Clinical Aspects of Perinatal Medicine. November 1992, Oak Lawn, IL.
11. Severe respiratory failure after elective repeat cesarean deliveries. Seventeenth Annual Symposium on Clinical Aspects of Perinatal Medicine. November 1992, Oak Lawn, IL.
12. Venovenous ECMO. Neonatology conference, December 1992, St. Christopher's Hospital for Children, Philadelphia, PA.
13. Optimizing ventilator strategies with HFJV. Tenth Conference on High-Frequency Ventilation of Infants, April 1993, Snowbird, UT.
14. High-frequency jet ventilation in infants with uncomplicated RDS: The effect of strategy on airway pressures and gas exchange. Fifth Annual High-Frequency Ventilation Conference, November 1993, Phoenix, AZ.
15. High-frequency jet ventilation in subjects with low chest wall compliance: Clinical experience and laboratory studies. Fifth Annual High Frequency Ventilation Conference, November 1993, Phoenix, AZ.
16. Tailoring conventional and high-frequency ventilation strategy to disease pathophysiology. The 19th Annual Symposium, Care of the Sick Newborn, March 1994, Long Beach, CA.
17. Treatment of PPHN in 1994 - Hyperventilation, gentle ventilation, HFJV, HFOV, NO, etc. The 19th Annual Symposium, Care of the Sick Newborn, March 1994, Long Beach, CA.
18. Ventilator strategies with HFV. Bunnell workshop, 11th Conference on High-Frequency Ventilation of Infants, April 1994, Snowbird, UT.
19. Nitric oxide for treatment of respiratory failure in newborns. Tools for Pediatric Ventilation: Where we are and where we're going. Alfred I duPont Institute Continuing Education Series. March 1995, Wilmington, DE.
20. HFJV in infants with RDS: Strategy makes a difference. Eighth Annual High Frequency Ventilation Conference, November 1996, Scottsdale, AZ.
21. Patient-triggered ventilation. Eighth Annual High Frequency Ventilation Conference, November 1996, Scottsdale, AZ.
22. Optimizing ventilator management during Extracorporeal Membrane Oxygenation. The Advanced University of Michigan ECMO course, April 1997, Ann Arbor, MI.
23. High-frequency ventilation of the newborn. Topics in Neonatal Respiratory Care - 1997. Brigham and Women's Hospital. October 1997, Boston, MA.
24. Synchronized, patient-triggered ventilation in neonates. New York State Society for Respiratory Care Annual Symposium, October 1997, New York, NY.

25. Newer technologies in Neonatal respiratory support. Pediatric Grand Rounds. January 1999 Winthrop University Hospital, SUNY, Stony Brook, NY.
26. High-frequency jet ventilation - tailoring ventilator strategy to disease pathophysiology. Core Fellowship Conference, January 1999, Thomas Jefferson University, Philadelphia, PA.
27. High-frequency ventilation: Past/Present/Future. Special lecture to Department of Pediatrics, Children's Hospital of Buffalo, July 1999, SUNY, Buffalo, NY.
28. The role of High-frequency ventilation in neonatal respiratory failure. Neonatology 1999: Closing the Millennium. October 1999, Ann Arbor, MI.
29. Continuing controversies in persistent pulmonary hypertension of the newborn. Neonatology 1999: Closing the Millennium. October 1999, Ann Arbor, MI.
30. Advanced neonatal ventilatory techniques. Management of the Tiny Baby annual conference, February 2000, Orlando, Florida.
31. Advanced techniques of synchronized conventional mechanical ventilation in neonates. Neonatology Dinner Meeting, Bryn Mawr Hospital / Thomas Jefferson University, March 2000, Philadelphia, PA.
32. Lung injury prevention and advanced techniques of synchronized mechanical ventilation. Grand Rounds, November 2000, Polyclinic Hospital, Harrisburg, PA.
33. Lung injury prevention utilizing advanced techniques of synchronized mechanical ventilation. Neonatal Grand Rounds, June 2001, Boston Children's Hospital, Harvard University, Boston, Massachusetts.
34. Principles of lung injury prevention and the use of advanced techniques of synchronized mechanical ventilation. Annual Meeting of the Texas Society for Respiratory Care, July 2001, San Antonio, Texas.
35. Airleak prevention and the use of high-frequency jet ventilation and volume targeted conventional ventilation. Thirteenth annual conference of high frequency ventilation and other advances in Perinatal/Neonatal care, November 2001, Tempe, Arizona.
36. Case studies in the prevention of airleak complications during HFJV and volume targeted CMV. Thirteenth annual conference of high frequency ventilation and other advances in Perinatal/Neonatal care, November 2001, Tempe, Arizona.
37. Volume targeted synchronized mechanical ventilation of newborns. Pennsylvania Society for Respiratory Care annual meeting, April 2003, King of Prussia, PA.
38. Patient-triggered ventilation. National Advanced Practice Neonatal Nurses Conference, April 2004, St. Louis, MO.

39. Viagra in the NICU: The safe and sane introduction of new therapies in the NICU. National Advanced Practice Neonatal Nurses Conference, April 2004, St. Louis, MO.
40. High-frequency jet ventilation: How to get the most out of your Jet. Update on Neonatal Ventilation, St. John's Mercy Medical Center, May 2004, St. Louis, MO.
41. High-frequency jet ventilation: Specific indications and difficult clinical situations. Update on Neonatal Ventilation, St. John's Mercy Medical Center, May 2004, St. Louis, MO.
42. Modern Conventional Ventilation: Optimizing ventilatory strategies to minimize lung injury. University of Connecticut, June 2004, New Haven, CT.
43. Volume-targeted ventilation. Evidence vs Experience in Neonatal Practices. Annenberg Center for Health Sciences CME Conference, October 2004, Chicago, IL.
44. Volume-targeted ventilation: State of the Art in Conventional Ventilatory Support. The 16th Annual Conference on High-frequency Ventilation and other Advances in Perinatal/Neonatal Care, November 2004, Phoenix, AZ.
45. Treating Newborns with Different Etiologies of Respiratory Failure: Selecting the Best Tools and Strategies. The 16th Annual Conference on High-frequency Ventilation and other Advances in Perinatal/Neonatal Care, November 2004, Phoenix, AZ.
46. Ventilator strategies – Synchronized and volume targeted ventilation and prevention of lung injury. 28th Annual International Conference Neonatology 2004, November 2004, Key Biscayne, FL.
47. An Update on High-frequency Ventilation. 28th Annual International Conference Neonatology 2004, November 2004, Key Biscayne, FL.
48. Modern Conventional Ventilation. How to Avoid Injuring the Baby you Seek to Save. Annual Perinatal Day Symposium , co-sponsored by the Committee on the Fetus and Newborn and the Perinatal Sections of the AAP, District II, Chapter 3, May 2005, Valhalla, NY.
49. Seminar on Advanced Modes of Ventilation with emphasis on volume targeted ventilation. Florida Hospital, October 2005, Orlando, FL.
50. Modern Conventional Ventilation: How to Avoid Injuring the Baby you Seek to Save. Pediatric Grand Rounds, All Children's Hospital, October 2005, St. Petersburg, FL.
51. Expanded use of Nitric Oxide in Newborn Infants. 29th Annual Perinatal Symposium, November 2005, Lawn Oak, IL.
52. Modern Ventilation: How to Avoid Hurting the Baby You Seek to Save. Third National Advanced Practice Neonatal Nurses Conference, April 2006, Savannah, GA.
53. Off Label Care: The Safe and Sane Introduction of New Therapies in the NICU. Third National Advanced Practice Neonatal Nurses Conference, April 2006, Savannah, GA.

54. Volume-Targeted Ventilation: State Of The Art In Mechanical Ventilation. Special Neonatal CME conference, November 2006, Jackson, MS.
55. Pressure Support Ventilation. University of Connecticut Neonatology CME conference, December 2006, Hartford, CT.
56. Expanded use of Inhaled Nitric Oxide in term and preterm newborn infants: latest insights from randomized trials. University of Connecticut Special Neonatal Conference, December 2006, Farmington, CT.
57. Modern Conventional Ventilation: How to Avoid Injuring the Baby you Seek to Save. Neonatology 2007 Regional Perinatal Conference, Emory University, March 2007, Atlanta, GA.
58. Non-invasive Modes of Ventilation. Neonatology 2007 Regional Perinatal Conference, Emory University, March 2007, Atlanta, GA.
59. Update on inhaled nitric oxide therapy: State of the art 2007. First Annual Neonatal Respiratory Symposium, Brigham and Women's Hospital, Harvard University, April 2007, Boston, MA.
60. Alternative Modes of Ventilation in the NICU. First Annual Neonatal Respiratory Symposium, Brigham and Women's Hospital, Harvard University, April 2007, Boston, MA.
61. The Evolution of Bronchopulmonary Dysplasia and New Treatment Options. 30th Annual Current Concepts in Fetal & Neonatal Care Symposium sponsored by the Rhode Island Medical Society and Women & Infants Hospital, Brown University, May 2007, Providence, RI.
62. State of the Art in Mechanical Ventilation: Review of available modes, techniques and devices. Special Neonatology CME conference, June 2007, University of Tennessee, Memphis, TN.
63. Lung-protective Strategies of Mechanical Ventilation. Neonatology Grand Rounds, June 2007, University of Tennessee, June 2007, Memphis, TN.
64. Modern Conventional Ventilation: How to Avoid Injuring the Baby you Seek to Save. "Neonatal Care in a Healing Environment" Annual Neonatal Conference, St. John's Mercy Children's Hospital, September 2007, St. Louis, MO.
65. Expanded Use of Inhaled Nitric Oxide in the Term & Preterm Newborn. "Neonatal Care in a Healing Environment" Annual Neonatal Conference, St. John's Mercy Children's Hospital, September 2007, St. Louis, MO.
66. Advances in conventional mechanical ventilation. Invited Special Topic lecture, 25th Annual conference on high-frequency ventilation of infants, children and adults, Snowbird, Utah, March 2008.
67. Can We Prevent Physician-Induced Lung injury? Industry sponsored dinner lecture, May 2008, Orlando, Florida.

68. Advances in Conventional Mechanical Ventilation: Can we Avoid Physician-Induced Lung Injury? Industry sponsored dinner lecture, May 2008, St. Petersburg, Florida.
69. Lung-Protective Ventilation Strategies: Volume Guarantee and Open Lung Concept. Saint Josephs Hospital, Denver, CO, September 2008.
70. New Mechanical Ventilators: Is the Cadillac Really Better? American Academy of Pediatrics National Conference and Exhibition, Boston, MA, October 2008.
71. The Role of Adjunct Modes with Conventional Ventilation: Volume Guarantee and Pressure Support. eNeonatal Live: The Neonatal Ventilation Dilemma: What, How and How Long? Satellite CME Symposium on the occasion of the Hot Topics in Neonatology Conference, Washington, DC, December 2008.
72. High-Frequency Ventilation and Advanced Conventional Modes: Case Study and Discussion: Live Audience Participation. eNeonatal Live: The Neonatal Ventilation Dilemma: What, How and How Long? Satellite CME Symposium on the occasion of the Hot Topics in Neonatology Conference, Washington, DC, December 2008.
73. Lung-protective strategies of mechanical ventilation: How to Avoid Physician-induced Lung Injury. CME conference of The Massachusetts Society for Respiratory Care, Boston, MA, April 2009.
74. Are the Future Synthetic Surfactants Promising? New Treatments for Surfactant-Deficiency Disorders. Satellite Symposium “The Evolution of Surfactant Therapy” at the PAS meeting, Baltimore, MD May 2009.
75. To intubate or not to intubate – that is the question! Pro and Con Debate. Con: Nasal CPAP – not the panacea we had hoped? Management of Neonatal Respiratory Distress Syndrome: The Times, They Are A Changing. Scientific Symposium at the American Thoracic Society Annual Meeting, San Diego, CA May 2009.
76. Inhaled Nitric Oxide Therapy For Hypoxemic Respiratory Failure. Neonatology Conference, Robert Wood Johnson University Hospital, University of Medicine and Dentistry of New Jersey, New Brunswick, NJ, August 2009.
77. Weaning and Extubation from Mechanical Ventilation Neonatal Grand Rounds. Madison Key Memorial Lecture Series. Georgetown University, Washington DC, August 2009.
78. New Mechanical Ventilators: Is the Cadillac Really Better? American Academy of Pediatrics National Conference and Exhibition, Washington, DC, September 2009.
79. Current Trends in Neonatal Ventilation. ICON Academy, Baltimore, MD, September 2009
80. Treating the Term / Near-Term Neonate with Persistent Pulmonary Hypertension of the Newborn / Hypoxic Respiratory Failure. The 2nd Annual Pediatric Respiratory Conference, Pennsylvania State Medical Center, Hershey, PA, November 5, 2009.

81. Advances in Respiratory Support of Newborns: How to avoid injuring the infant you seek to save. Children's Hospital of Philadelphia Pediatric Grand Rounds, November 2009.
82. Volume vs. Pressure Ventilation: Does the Mode Matter? Controversies in Neonatal Ventilation. American Association for Respiratory Care Annual Meeting, San Antonio, TX, December 2009.
83. CPAP: Does the Technique Matter? Controversies in Neonatal Ventilation. American Association for Respiratory Care Annual Meeting, San Antonio, TX, December 2009.
84. Mechanical Ventilation: Old School vs. New School Approaches - What's Best? Neo Conference for Neonatology 2010, Orlando, FL, February 2010.
85. High Frequency Ventilation. Neo Conference for Neonatology 2010, Orlando, FL, February 2010.
86. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Neonatal Specialty Review Course. Orlando, FL, February 2010.
87. When We Must: Intelligent Ventilation to Avoid Provider-Induced Lung Injury. 13th Annual Neonatal Advanced Practice Forum, Washington DC, June 2010.
88. HFJV, HFOV and New Modes of Ventilation: The Who, What, When, and How. 13th Annual Neonatal Advanced Practice Forum, Washington DC, June 2010.
89. The Golden First Hour: Neonatal Resuscitation. Contemporary Management of Neonatal Pulmonary Disorders Conference Tempe, AZ Nov 2010.
90. Volume-Targeted Ventilation: How to Avoid Physician-induced Lung Injury. Contemporary Management of Neonatal Pulmonary Disorders Conference Tempe, AZ Nov 2010.
91. Mechanical Ventilation: Old School vs New School Approaches. Contemporary Management of Neonatal Pulmonary Disorders Conference Tempe, AZ Nov 2010.
92. Ventilator-Induced Lung Injury: What is it? Can we prevent it? Symposium of the Scientific Advisory Board of Ikaria, Dallas, Texas February 2011.
93. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Neonatal Specialty Review Course. Orlando, FL, February 2011.
94. Principles of Gas Exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. Neonatal Specialty Review Course. Orlando, FL, February 2011.
95. Surfactant, Surfactant Proteins and RDS. (substituting on short notice for another speaker). Neonatal Specialty Review Course. Orlando, FL, February 2011.

96. Earlier use of Inhaled Nitric Oxide in Term and Near-term Neonates with Moderate Hypoxic Respiratory Failure and Pulmonary Hypertension. National Physician Lecture Series Webinar, October 2011.
97. Respiratory Physiology I: Lung Mechanics. Contemporary Management of Neonatal Pulmonary Disorders Conference, Tempe, AZ November 2011.
98. Respiratory Physiology II: Oxygenation and SpO₂ targets / Ventilation and PaCO₂ targets”. Contemporary Management of Neonatal Pulmonary Disorders Conference, Tempe, AZ November 2011.
99. Flash Forward: Expanded Use of iNO Therapy – Taking a Closer Look. Inhaled Nitric Oxide in the Neonate: Current Role and Future Opportunities. Satellite Symposium, Hot Topics in Neonatology, Washington, DC December 2011.
100. Neonatal Respiratory Physiology. Two 90 minute interactive audience response system presentations. NeoPREP Board Review course, American Academy of Pediatrics, New Orleans, LA January 2012.
101. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology 2.0. Orlando, FL February 2012.
102. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology 2.0. Orlando, FL February 2012.
103. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2012.
104. Invited Special Lecture, Physician Induced Lung Injury: What Causes It And How Can We Prevent It? 29th Conference on High Frequency Ventilation of Infants, Children and Adults, Snowbird, Utah March 2012.
105. New concepts in lung injury prevention. Topics in Clinical Medicine, Academic Day, Mednax Medical Directors Meeting, Orlando, FL April 2012.
106. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, Orlando, FL February 2013.
107. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology, Orlando, FL February 2013.
108. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2013.
109. Diagnostic Work-up. BPD Collaborative Meeting. Children’s Hospital of Philadelphia, PA May 2013.

110. Ventilator Strategies. BPD Collaborative Meeting. Children's Hospital of Philadelphia, PA May 2013.
111. Respiratory Physiology. AAP NeoPREP Board Review Course, San Diego, CA, January 2014.
112. Respiratory Calculations and Graphs (ARS). AAP NeoPREP Board Review Course, San Diego, CA, January 2014.
113. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, Orlando, FL February 2014.
114. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology, Orlando, FL February 2014.
115. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2014.
116. Physician-induced lung injury: How to avoid hurting the baby you're trying to help. VIII Annual Scott & White Neonatal Conference, Temple, Texas, September 2014.
117. BPD Consultative service at WIHRI. BPD Collaborative Annual meeting, Columbus, OH, December 2014.
118. New Directions in Respiratory Support in Neonates: Sustained Inflation in the delivery room, Closed Loop Ventilation, and Neonatal Volume Guarantee Ventilation. New Directions in Neonatal Respiratory Critical Care Satellite Symposium at Hot Topics in Neonatology, Washington DC, December 2014.
119. Delivering Respiratory Support for the Preterm Infant. Evolving Protocols for Treating Respiratory Distress in the Preterm Infant: Recent Trends. Satellite Symposium at Hot Topics in Neonatology, Washington DC, December 2014.
120. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, Orlando, FL February 2015.
121. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology, Orlando, FL February 2015.
122. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2015.
123. Respiratory Physiology. AAP NeoPREP Board Review Course, San Diego, CA, January 2016.
124. Respiratory Calculations and Graphs (ARS). AAP NeoPREP Board Review Course, San Diego, CA, January 2016.
125. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, Orlando, FL February 2016.

126. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology, Orlando, FL February 2016
127. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2016
128. Understanding the physiology of Mechanical Ventilation at the 23rd Annual New York Regional neonatology/Perinatal Symposium “Issues in Neonatology” conference in Long Island NY hosted by Winthrop University and Chapter 2 of the American Academy of Pediatrics, March 10, 2016
129. Lung-protective strategies of mechanical ventilation: How to Avoid Physician-induced Lung Injury. SYMPOSIUM ON NEONATAL ADVANCES Update on Respiratory Practices. University of Connecticut, Farmington, CT September 2016
130. 50 years of Neonatal Intensive Care: You’ve come a long way, baby! 23rd Annual Biomedical Distinguished Lecture Series, Chestnut Hill College, Chestnut Hill, PA, September 2016
131. Reba M. Hill, MD Memorial Lecture: “Physician-Induced Lung Injury: How to Avoid Hurting the Baby You Are Trying to Save” Texas Children’s Hospital, Baylor University, Houston, TX Dec 2016
132. Neonatology Noon Conference: Less is More: Approaches to Less Invasive Respiratory Support. Texas Children’s Hospital, Baylor University, Houston, TX Dec 2016
133. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, Orlando, FL February 2017
134. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology, Orlando, FL February 2017.
135. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2017
136. Lung-Protective Strategies of Mechanical Ventilation. Duke University Hospital, Duke University, Durham, NC, April 2017
137. Changing Landscape of Neonatal Ventilation: Lung Protective Ventilation Strategies. 17th National Neonatal Nurses Conference, Las Vegas, Nevada, September 2017
138. Non-Invasive Respiratory Support. 17th National Neonatal Nurses Conference, Las Vegas, Nevada, September 2017
139. Don't Forget to Breathe! - Apnea of Prematurity. 17th National Neonatal Nurses Conference, Las Vegas, Nevada, September 2017
140. Respiratory Physiology. AAP NeoPREP Board Review Course, Atlanta, GA, January 2018

141. ARS Calculations: Respiratory Physiology. AAP NeoPREP Board Review Course, Atlanta, GA, January 2018
142. ARS Calculations: Ventilators. AAP NeoPREP Board Review Course, Atlanta, GA, January 2018
143. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, Orlando, FL February 2018
144. Physiology of Mechanical Ventilation: Modes, Loops, and Curves. Specialty in Review in Neonatology/ Perinatology, Orlando, FL February 2018
145. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, Orlando, FL, February 2018.
146. Lung-protective ventilation strategies, Neonatal Grand Rounds, Georgetown University, Washington, DC October 2018
147. Volume-targeted Ventilation. Neonatal Grand Rounds. University of Mississippi Medical Center, Jackson, Mississippi, October 2018
148. High-Frequency Ventilation University of Mississippi Medical Center, Jackson, Mississippi, October 2018
149. Advances in High-frequency Oscillatory Ventilation: The DOVE study. Hot Topics in Neonatology Conference, Washington, DC, December 2018
150. Acute ventilator management to prevent lung injury and BPD: Bronchopulmonary Dysplasia Symposium 2019: Advances in diagnosis and management. Cincinnati, Ohio, January 2019
151. Volume-targeted ventilation. Cool Topics in Neonatology, San Diego, CA, March 2019
152. Advances in High-frequency Oscillatory Ventilation: Results of the DOVE study. 36th Annual conference Advances in Therapeutics and Technology: Critical Care of infants, children and adults, Snowbird, Utah, March 2019
153. Evidence-based Approach to Mechanical Ventilation of Infants with Severe Bronchopulmonary Dysplasia. Post-graduate Course PG20: Optimizing Management Of The Patient With Severe Bronchopulmonary Dysplasia. American Thoracic Society 2019 International Conference, Dallas, TX, May 2019
154. Volume-targeted Ventilation. 39th Annual Symposium Advances and Controversies in Neonatal Medicine, Vanderbilt University Medical Center, Nashville, TN, November 2019
155. Advances in High-frequency Ventilation. 39th Annual Symposium Advances and Controversies in Neonatal Medicine, Vanderbilt University Medical Center, Nashville, TN, November 2019

156. Respiratory Physiology. AAP NeoPREP Board Review Course, Long Beach, CA, February 2020
157. ARS Calculations: Respiratory Physiology. AAP NeoPREP Board Review Course, Long Beach, CA, February 2020
158. ARS Calculations: Ventilators. AAP NeoPREP Board Review Course, , Long Beach, CA, February 2020
159. Problem Based Review of O₂ and CO₂ Physiology, Alveolar Gas Equation, Bohr Effect. Specialty in Review in Neonatology/Perinatology, San Diego, CA, February 2020
160. Physiology of Mechanical Ventilation: Do you Know the Modes, Loops, and Curves? Specialty in Review in Neonatology/ Perinatology, San Diego, CA, February 2020
161. Pulmonary Problem Solving Tutorial. Specialty in Review in Neonatology/ Perinatology, San Diego, CA, February 2020
162. Ins and Outs of High-Frequency Ventilation. Neo Conference, San Diego, CA February 2020

INVITED LECTURES: INTERNATIONAL:

1. New developments in synchronized mechanical ventilation of newborns. German-Austrian Neonatal Society 23rd Annual Meeting, October 1997, Muenster, Germany.
2. Neonatal high-frequency ventilation. Ninth Neonatology conference: State of the art in respiratory care of newborns. June 1998, Ustron, Poland.
3. Nitric oxide and its role in the treatment of PPHN. Ninth Neonatology conference: State of the art in respiratory care of newborns. June 1998, Ustron, Poland.
4. Synchronized mechanical ventilation in newborns. Special Neonatology seminar, Second Perinatal Clinic, Charles University, June 1998, Prague, Czech Republic.
5. New techniques of mechanical ventilation in newborn infants. KK Women and Children's Hospital, Singapore June 1998.
6. New developments in conventional ventilation in neonates. Special Neonatology conference, National University of Kuala Lumpur Hospital, June 1998, Kuala Lumpur, Malaysia.
7. New developments in conventional mechanical ventilation of infants. The Hong Kong Society of Neonatal Medicine Scientific Meeting, July 1998, Hong Kong, China.
8. New developments in conventional mechanical ventilation of infants. 1998 Symposium on Respiratory Therapy of the Society of Neonatology of the Republic of China, July 1998, Taipei, Republic of China.
9. New data on pressure support and volume guarantee modes of ventilation. German-Austrian Neonatal Society 24th Annual Meeting, September 1998, Frankfurt, Germany.
10. New developments in conventional mechanical ventilation of infants. Special Symposium of the Yokohama Neonatal Study Group, September 1998, Yokohama, Japan.
11. Advances in synchronized mechanical ventilation of infants. Special Symposium of the Neonatal Society chaired by Professor Hiroshi Nishida, September 1998, Tokyo, Japan.
12. Advances in synchronized mechanical ventilation of infants. Special Neonatology Symposium, October 1998, Sendai, Japan.
13. Therapeutic alternatives in the treatment of severe respiratory failure at the turn of the 21st century. VI congress of the Czech Society for Anesthesia, Resuscitation and Critical Care, September 1999, Brno, Czech Republic.
14. Advanced techniques in conventional mechanical ventilation in neonates. Special Neonatology Symposium, November 1999, Beijing, People's Republic of China.

15. High-frequency ventilation. Special Neonatology Symposium, November 1999, Beijing, People's Republic of China.
16. Advanced techniques in conventional mechanical ventilation in neonates. Special Symposium of the Shanghai Neonatology Society, November 1999, Shanghai, People's Republic of China.
17. The role of High-frequency ventilation in neonatal respiratory failure. Special Symposium of the Shanghai Neonatology Society, November 1999, Shanghai, People's Republic of China.
18. Controversies in the treatment of persistent pulmonary hypertension of the newborn. Special Symposium of the Shanghai Neonatology Society, November 1999, Shanghai, People's Republic of China.
19. Advanced techniques in conventional mechanical ventilation in neonates. 44th Annual Meeting of the Japan Society for Premature and Newborn Medicine, November 1999, Okayama, Japan.
20. Strategies and ventilatory modalities in the new Millennium. Neonatology Dinner Meeting Toronto, June 2000, Ontario, Canada. Advanced Neonatal Ventilation Strategies. Neonatal Symposium. The Michener Institute for Applied Health Sciences, June 2000, Toronto, Canada.
21. Advanced neonatal conventional ventilatory techniques. 1st meeting of the Perinatal Society of the United Arab Emirates, October 2000, Faculty of Medicine, University of United Arab Emirates - Al Ain, Al Ain, United Arab Emirates.
22. Ventilatory strategies in congenital diaphragmatic hernia. 1st meeting of the Perinatal Society of the United Arab Emirates, October 2000, Faculty of Medicine, University of United Arab Emirates - Al Ain, Al Ain, United Arab Emirates.
23. The first minutes of life – how to avoid early lung damage. 1st meeting of the Perinatal Society of the United Arab Emirates, October 2000, Faculty of Medicine, University of United Arab Emirates - Al Ain, Al Ain, United Arab Emirates.
24. Advanced neonatal ventilatory techniques. 1st International Symposium on Perinatal and Neonatal Developmental Medicine, November 2000, Prague, Czech Republic.
25. Pathophysiology of respiratory failure in the neonate. Guest lecture, Annual meeting of the Norwegian Pediatric Association, October 2001, Tromsø, Norway.
26. Practical application of modern conventional ventilation techniques. Guest lecture, Annual meeting of the Norwegian Pediatric Association, October 2001, Tromsø, Norway.
27. Volume Guarantee Ventilation. Special lecture, University Children's Hospital, Helsinki, Finland October 2001
28. Lung injury prevention and the use of advanced techniques of synchronized mechanical ventilation. Guest lecture, 21st Annual meeting of the Swedish Association for Perinatal Medicine, October 2001, Stockholm, Sweden.

29. The role of advanced synchronized mechanical ventilation modes in the prevention of lung injury. Special Neonatal Symposium, Sofia Children's Hospital, Erasmus University, February 2002, Rotterdam, Netherlands.
30. The role of advanced synchronized mechanical ventilation modes in the prevention of lung injury. Special Neonatal Symposium "de Ouwe Schuur", February 2002, Brussels, Belgium.
31. Pathophysiology of respiratory failure / ventilator induced lung injury. Annual Meeting of the Israeli Neonatal Society, February 2002, Tel Aviv, Israel.
32. Advanced modes of Synchronized Conventional Ventilation. Annual Meeting of the Israeli Neonatal Society, February 2002, Tel Aviv, Israel.
33. Introduction to High-Frequency Ventilation. IPOKRATES International Clinical Seminar on High-Frequency Ventilation, March 2002, Prague, Czech Republic.
34. Controlled Clinical Trials of High-Frequency Ventilation in Infants with RDS. IPOKRATES International Clinical Seminar on High-Frequency Ventilation, March 2002, Prague, Czech Republic.
35. Safety Considerations in the Use of High-Frequency Ventilation. IPOKRATES International Clinical Seminar on High-Frequency Ventilation, March 2002, Prague, Czech Republic.
36. Other Indications for High-Frequency Ventilation. IPOKRATES International Clinical Seminar on High-Frequency Ventilation, March 2002, Prague, Czech Republic.
37. Use of High-Frequency Ventilation and Inhaled Nitric Oxide to Reduce the Need for Extracorporeal Membrane Oxygenation. IPOKRATES International Clinical Seminar on High-Frequency Ventilation, March 2002, Prague, Czech Republic.
38. Ventilator strategies for lung injury prevention and the use of advanced techniques of synchronized mechanical ventilation. Orphan Europe Academy: Respiratory support options for neonates from CPAP to ECMO, October 2002, Stockholm, Sweden.
39. Tracheal tubes and ventilators: Added workload and its implications. Curriculum of Excellence in Neonatology: Respiratory Disorders. IPOKRATES Clinical Seminar, October 2002, Rome, Italy.
40. Neonatal High-Frequency Ventilation: Past, Present and Future. Curriculum of Excellence in Neonatology: Respiratory Disorders. IPOKRATES Clinical Seminar, October 2002, Rome, Italy.
41. Pressure Support and Volume Guarantee Ventilation. Curriculum of Excellence in Neonatology: Respiratory Disorders. IPOKRATES Clinical Seminar, October 2002, Rome, Italy.
42. High-Frequency Jet Ventilation: specific indications. International Neonatology Conference Maternidade, Dr. Alfredo da Costa, November 2002, Lisbon, Portugal.

43. Nitric Oxide: indications and results in term and preterm infants. International Neonatology Conference Maternidade Dr. Alfredo da Costa, November 2002, Lisbon, Portugal.
44. Introduction to High-Frequency Ventilation. IPOKRaTES International Clinical Seminar on High-Frequency Ventilation, May 2003, Sopron, Hungary.
45. Clinical Trials of High-Frequency Ventilation in Infants with RDS. IPOKRaTES International Clinical Seminar on High-Frequency Ventilation, May 2003, Sopron, Hungary.
46. Safety Considerations in the Use of High-Frequency Ventilation. IPOKRaTES International Clinical Seminar on High-Frequency Ventilation, May 2003, Sopron, Hungary.
47. Other Indications for High-Frequency Ventilation. IPOKRaTES International Clinical Seminar on High-Frequency Ventilation, May 2003, Sopron, Hungary.
48. High-Frequency Ventilation and Inhaled Nitric Oxide to Reduce the Need for Extracorporeal Membrane Oxygenation. IPOKRaTES International Clinical Seminar on High-Frequency Ventilation, May 2003, Sopron, Hungary.
49. HFV- Clinical case presentations. IPOKRaTES International Clinical Seminar on High-Frequency Ventilation, May 2003, Sopron, Hungary.
50. Modern conventional ventilation: Strategies for lung injury prevention. Open Medical Club of Slovakia Seminar on Mechanical Ventilation in Neonates, May 2003, Bratislava, Slovakia.
51. High-frequency ventilation and modern conventional ventilation: More similar than you think. Open Medical Club of Slovakia Seminar on Mechanical Ventilation in Neonates, May 2003, Bratislava, Slovakia.
52. New types of neonatal respiratory assistance: A controversy. Volume targeted ventilation vs. Proportional Assist ventilation. European Society for Pediatric Research Annual meeting, September 2003, Bilbao, Spain.
53. Ventilator strategies for lung injury prevention and the use of advanced techniques of synchronized mechanical ventilation. Orphan Europe Academy: Respiratory support options for neonates from CPAP to HFV, October 2003, Stockholm, Sweden.
54. High-frequency ventilation – State of the art. Orphan Europe Academy: Respiratory support options for neonates from CPAP to HFV, October 2003, Stockholm, Sweden.
55. Ventilation and Oxygen. Breakfast session, Annual Meeting of the Perinatal Society of Australia and New Zealand, March 2004, Sydney, Australia.
56. State-of-the-art Mechanical Ventilation: Can we Reduce Ventilatory-Induced Lung Injury? Annual Meeting of the Perinatal Society of Australia and New Zealand, March 2004, Sydney, Australia.

57. Modern Conventional Ventilation: How do we avoid injuring the baby we seek to save? Neonatal Update Meeting, The Royal Women's Hospital, March 2004, Melbourne, Australia.
58. High-frequency ventilation – overview. IOKRaTES postgraduate course on Neonatal Respiratory Support, March 2004, Guangzhou, China.
59. High-frequency ventilation – specific indications. IOKRaTES postgraduate course on Neonatal Respiratory Support, March 2004, Guangzhou, China.
60. Endotracheal tubes and ventilators: Added workload and its implications in modern mechanical ventilation. IOKRaTES postgraduate course on Neonatal Respiratory Support, March 2004, Guangzhou, China.
61. Modern Conventional Ventilation: Pressure support and Volume Guarantee IOKRaTES postgraduate course on Neonatal Respiratory Support, March 2004, Guangzhou, China.
62. The use of pulmonary function measurements and waveforms to optimize ventilator therapy. Neonatal pulmonary function workshop, Seventh European Conference on Neonatal and Pediatric Ventilation, March 2004, Montreux, Switzerland.
63. The interaction between surfactant and mechanical ventilation: Clinical aspects. Surfactant Symposium, Seventh European Conference on Neonatal and Pediatric Ventilation, March 2004, Montreux, Switzerland.
64. High-frequency ventilation – Selected aspects and review of recent studies . IOKRaTES postgraduate course on Neonatal Respiratory Support, September 2004, Singapore.
65. Pathophysiology and treatment of congenital diaphragmatic hernia. IOKRaTES postgraduate course on Neonatal Respiratory Support, September 2004, Singapore.
66. Endotracheal tubes and ventilators: Added workload and its implications in modern mechanical ventilation. IOKRaTES postgraduate course on Neonatal Respiratory Support, September 2004, Singapore.
67. Volume targeted ventilation. IOKRaTES postgraduate course on Neonatal Respiratory Support, September 2004, Singapore.
68. Disease specific strategies of high-frequency ventilation. Special Neonatology lecture, KK Women's and Children's Hospital, September 2004, Singapore.
69. Synchronized and volume targeted ventilation. Satellite symposium on respiratory support, Annual meeting of the Czech Neonatal Society, September 2004, Hradec Kralove, Czech Republic.
70. Mechanical ventilation. Respiratory course in association with the Annual meeting of the European Society for Pediatric Research: "Respiratory support options for neonates from CPAP to HFV", September 2004, Stockholm, Sweden.

71. Pathophysiology and prevention of ventilator induced lung injury. Special Neonatal Ventilation Symposium, February 2005, Zagreb, Croatia.
72. Volume-targeted Ventilation: State of the Art in Conventional Mechanical Ventilation. Special Neonatal Ventilation Symposium, February 2005, Zagreb, Croatia.
73. Pressure Support Ventilation. New Frontiers in Neonatology Symposium on the occasion of the 5th Anniversary of IPOKRaTES, February 2005, Innsbruck, Austria.
74. Volume Guarantee Ventilation. New Frontiers in Neonatology Symposium on the occasion of the 25th Anniversary of IPOKRaTES, February 2005, Innsbruck, Austria.
75. Update on High-Frequency Ventilation 2005: New Frontiers in Neonatology Symposium on the occasion of the 25th Anniversary of IPOKRaTES, February 2005, Innsbruck, Austria.
76. Introduction to HFV and historical aspects. IPOKRaTES clinical seminar: High-Frequency Ventilation and Other Advanced Ventilatory Strategies in Newborn Infants. May 2005, Erlangen, Germany.
77. Other indications for HFV: Matching strategies of HFV with disease pathophysiology. IPOKRaTES clinical seminar: High-Frequency Ventilation and Other Advanced Ventilatory Strategies in Newborn Infants. May 2005, Erlangen, Germany.
78. How to avoid damaging the baby we seek to save: Complications and safety of mechanical ventilation with emphasis on HFV. IPOKRaTES clinical seminar: High-Frequency Ventilation and Other Advanced Ventilatory Strategies in Newborn Infants. May 2005, Erlangen, Germany.
79. Volume targeted ventilation: The new frontier? IPOKRaTES clinical seminar: High-Frequency Ventilation and Other Advanced Ventilatory Strategies in Newborn Infants. May 2005, Erlangen, Germany.
80. State-of-the-Art in Mechanical Ventilation. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, January 2006, Parma, Italy.
81. Volume-Targeted Ventilation: New Paradigm in Neonatal Ventilation. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, January 2006, Parma, Italy.
82. Update on High-Frequency Ventilation. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, January 2006, Parma, Italy.
83. High-frequency Ventilation – Specific Indications. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, January 2006, Parma, Italy.
84. State-of-the-Art in Mechanical Ventilation: Overview of Available Modes, Techniques and Devices. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2006, Bilbao, Spain.

85. Update on High-Frequency Ventilation. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2006, Bilbao, Spain.
86. Lung-protective Strategies of Mechanical Ventilation. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2006, Bilbao, Spain.
87. Initiation of Ventilatory Support – Nasal CPAP and VG modes: less harmful approach. XXth European Congress of Perinatal Medicine, Prague, May 2006, Czech Republic.
88. State Of The Art In Mechanical Ventilation: Review of available modes, techniques and devices. Fourth International Symposium “El Pulmon del Recien Nacido” (The lung of the newborn), June 2006, Buenos Aires, Argentina.
89. Volume-Targeted Ventilation: New Paradigm In Neonatal Ventilation. Fourth International Symposium “El Pulmon del Recien Nacido” (The lung of the newborn), June 2006, Buenos Aires, Argentina.
90. Lung Protective Strategies Of Mechanical Ventilation. Fourth International Symposium “El Pulmon del Recien Nacido” (The lung of the newborn), June 2006, Buenos Aires, Argentina.
91. Update on High-Frequency Ventilation. Fourth International Symposium “El Pulmon del Recien Nacido” (The lung of the newborn), June 2006, Buenos Aires.
92. Use Of Nitric Oxide In Newborns With Respiratory Distress Syndrome - An Update Fourth International Symposium “El Pulmon del Recien Nacido” (The lung of the newborn), June 2006, Buenos Aires, Argentina.
93. Weaning from Mechanical Ventilation. Lecture as part of European Society of Neonatology, High Training in Neonatal Medicine Respiratory Course in conjunction with the European Academy of Pediatrics meeting October 2006, Barcelona, Spain.
94. Recent Advances in Respiratory Support of Premature Infants. State of the Art Lecture, Saudi Pediatric Association Third International Conference on Child Health, November 2006, Jeddah, Saudi Arabia.
95. Treatment of Congenital Diaphragmatic Hernia. Satellite lecture, Saudi Pediatric Association Third International Conference on Child Health, November 2006, Jeddah, Saudi Arabia.
96. Volume Guarantee: Why, When and How? Neonatal Update 2006, Imperial College London, November 2006, London, England.
97. The Golden First Hour after Birth. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, All India Institute of Medical Sciences (AIIMS), New Delhi, India.

98. State of the Art in Mechanical Ventilation: Review of available modes, techniques and devices. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, Medical Sciences (AIIMS), New Delhi, India.
99. Update on High-frequency Ventilation. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, Medical Sciences (AIIMS), New Delhi, India.
100. Volume-Targeted Ventilation: New Paradigm In Neonatal Ventilation. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, Medical Sciences (AIIMS), New Delhi, India.
101. State of the Art in Mechanical Ventilation: Review of available modes, techniques and devices. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, Istanbul, Turkey.
102. Update on High-frequency Ventilation. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, Istanbul, Turkey.
103. Lung-protective Strategies of Mechanical Ventilation. Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, February 2007, Istanbul, Turkey.
104. Effect of Delivery Room Management on Respiratory Outcome. First International Neonatal Respiratory Symposium, March 2007, College of the North Atlantic, Doha, Qatar.
105. Pressure Support and Volume Guarantee ventilation: Do they make a difference. First International Neonatal Respiratory Symposium, March 2007, College of the North Atlantic, Doha, Qatar.
106. Oxygen Therapy: The Good, the Bad and the Ugly. First International Neonatal Respiratory Symposium, March 2007, College of the North Atlantic, Doha, Qatar.
107. Modern Conventional Ventilation: How to Avoid Injuring the Baby you Seek to Save. Jornada Internacional de Neonatologia, Hospital Universitaire “La FE”, June 2007, Valencia, Spain.
108. Modern Conventional Ventilation. Keynote address, Abbot Roundtable “The Wonder of Neonatology” August 2007, Drakensburg, South Africa.
109. Non-invasive modes of ventilation: Less is better. Abbot Roundtable “The Wonder of Neonatology” August 2007, Drakensburg, South Africa.
110. State of the Art in Mechanical Ventilation: Review of available modes, techniques and devices. Abbot Roundtable “The Wonder of Neonatology” August 2007, Drakensburg, South Africa.

111. Oxygen Therapy: the good, the bad and the ugly. Abbot Roundtable “The Wonder of Neonatology” August 2007, Drakensburg, South Africa.
112. State of the Art in Mechanical Ventilation: Review of available modes, techniques and devices. Resuscitation, Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, September 2007, Porto, Portugal.
113. Update on High-frequency Ventilation. Resuscitation, Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, September 2007, Porto, Portugal.
114. Lung-protective Strategies of Mechanical Ventilation. Resuscitation, Respiratory Assistance, Ventilation and Care of the Newborn Infant. IPOKRaTES Postgraduate Course on Neonatal Respiratory Support, September 2007, Porto, Portugal.
115. Neonatal Ventilation: Is what you set what you get and do you need to? Neonatal care: Challenges Today and Into the Future Conference, Royal College of Pediatrics and Child Health, October 2007, London, England.
116. Rationale for Volume-Targeted Ventilation and Adequate PEEP. Neonatal Lung Injury: What is the role of Volume Guarantee Ventilation? Intense One-day Neonatal Respiratory Seminar, Ospedale dei Bambini “V. Buzzi” October 2007, Milan, Italy.
117. Volume Guarantee Ventilation Present and Future applications. Neonatal Lung Injury: What is the role of Volume Guarantee Ventilation? Intense One-day Neonatal Respiratory Seminar, Ospedale dei Bambini “V. Buzzi” October 2007, Milan, Italy.
118. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Postgraduate Seminar on Neonatal pulmonary critical care: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Dubai, United Arab Emirates, March 2008.
119. Modern mechanical ventilation: Overview of basic modes and techniques. IPOKRaTES Postgraduate Seminar on Neonatal pulmonary critical care: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Dubai, United Arab Emirates, March 2008.
120. Volume-targeted ventilation: New paradigm in neonatal ventilation. IPOKRaTES Postgraduate Seminar on Neonatal pulmonary critical care: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Dubai, United Arab Emirates, March 2008.
121. CDH – contemporary management and outcome. IPOKRaTES Postgraduate Seminar on Neonatal pulmonary critical care: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Dubai, United Arab Emirates, March 2008.

122. Advances in conventional mechanical ventilation: Strategies for preventing lung injury. 8th International Conference on Perinatal Topics: Update on Mechanical Ventilation of Newborns. Santiago de Chile, April 2008.
123. Volume Guarantee Ventilation: A way to prevent volutrauma? 8th International Conference on Perinatal Topics: Update on Mechanical Ventilation of Newborns. Santiago de Chile, April 2008.
124. High-Frequency Ventilation: Current Status. 8th International Conference on Perinatal Topics: Update on Mechanical Ventilation of Newborns. Santiago de Chile, April 2008.
125. Persistent Pulmonary Hypertension: Current Therapeutic Approach. 8th International Conference on Perinatal Topics: Update on Mechanical Ventilation of Newborns. Santiago de Chile, April 2008.
126. Inhaled Nitric Oxide Therapy in Preterm newborns: Can it prevent Bronchopulmonary Dysplasia? 8th International Conference on Perinatal Topics: Update on Mechanical Ventilation of Newborns. Santiago de Chile, April 2008.
127. Volume-targeted and Volume Guarantee Ventilation. Pre-congress Course “Mechanical Ventilation: New Therapeutic Approaches.” XXI European Congress of Perinatal Medicine, Istanbul, Turkey, September 2008.
128. Real-Time Pulmonary Graphics: Benefits and Limitations. Pre-congress Course “Mechanical Ventilation: New Therapeutic Approaches.” XXI European Congress of Perinatal Medicine, Istanbul, Turkey, September 2008.
129. High-Frequency Ventilation: Evidence-Based Recommendations: Pre-congress Course “Mechanical Ventilation: New Therapeutic Approaches.” XXI European Congress of Perinatal Medicine, Istanbul, Turkey, September 2008.
130. Mechanical Ventilation: New Therapeutic Approaches. Lecture, Parallel session: “Respiratory Interventions” XXI European Congress of Perinatal Medicine, Istanbul, Turkey, September 2008.
131. Volume Guarantee in the context of Lung-Protective Ventilation Strategies. King Khalid Medical City, Riyadh, Saudi Arabia, September 2008.
132. Volume Guarantee in the context of Lung-Protective Ventilation Strategies. King Faisal National Guard Specialist Hospital and Research Center, Jeddah, Saudi Arabia, September 2008.
133. Current Concepts in Neonatal Ventilation: How to Avoid Physician-Induced Lung Injury. Second Neonatology Symposium of the Puerto Rico and Caribbean Neonatal Society, San Juan, Puerto Rico, September 2008.
134. Lung-protective Ventilation Strategies in the Newborn Infant. 15th National Congress of the Czech Society of Anesthesia, Resuscitation and Intensive Care Medicine, Brno, Czech Republic, October 2008.

135. Lung Recruitment and Lung-Protective Strategies of Mechanical Ventilation. IPOKRaTES Postgraduate Course on Respiratory Disorders in the Newborn Infant. Padua, Italy, November 2008.
136. Update on High-frequency Ventilation. IPOKRaTES Postgraduate Course on Respiratory Disorders in the Newborn Infant. Padua, Italy, November 2008.
137. Volume Guarantee Ventilation. IPOKRaTES Postgraduate Course on Respiratory Disorders in the Newborn Infant. Padua, Italy, November 2008.
138. Lung-Protective Modes of Mechanical Ventilation. First International Congress of the Union of European Neonatal and Perinatal Societies: Global Neonatology and Perinatology. Rome, Italy, November 2008.
139. How to Avoid Injuring the Baby You Seek to Save Using Modern Conventional Ventilation. Lecture to the Pediatric Society of Singapore and Perinatal Society of Singapore, Singapore, January 2009.
140. Protective Ventilation Strategies. 4th International Neonatal Conference “Hot Topics in Neonatal Medicine” King Fahd Armed Forces Hospital, Jeddah, Kingdom of Saudi Arabia, February 2009.
141. High-Frequency Ventilation Clinical Scenarios. 4th International Neonatal Conference “Hot Topics in Neonatal Medicine” King Fahd Armed Forces Hospital, Jeddah, Kingdom of Saudi Arabia, February 2009.
142. Acceptable Oxygen Saturation: What is the evidence? 4th International Neonatal Conference “Hot Topics in Neonatal Medicine” King Fahd Armed Forces Hospital, Jeddah, Kingdom of Saudi Arabia, February 2009.
143. Update on Surfactant. 4th International Neonatal Conference “Hot Topics in Neonatal Medicine” King Fahd Armed Forces Hospital, Jeddah, Kingdom of Saudi Arabia, February 2009.
144. The Golden First Hour after Birth: Delivery room stabilization. 4th International Neonatal Conference “Hot Topics in Neonatal Medicine” King Fahd Armed Forces Hospital, Jeddah, Kingdom of Saudi Arabia, February 2009.
145. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. Mechanical Ventilation Course, Cairo, Egypt, February 2009.
146. Basic modes of mechanical ventilation. Mechanical Ventilation Course, Cairo, Egypt, February 2009.
147. Lung-protective strategies – open lung concept. Mechanical Ventilation Course, Cairo, Egypt, February 2009.
148. Matching ventilation strategies to disease pathophysiology: how to optimize ventilator settings based on underlying disease process. Mechanical Ventilation Course, Cairo, Egypt, February 2009.

149. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Postgraduate Course on Neonatal Pulmonary and Critical Care: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Prague, Czech Republic, October 2009.
150. Oxygen or RA for neonatal resuscitation? IPOKRaTES Postgraduate Course on Neonatal Pulmonary and Critical Care: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Prague, Czech Republic, October 2009.
151. Modern mechanical ventilation: overview of basic modes and techniques. IPOKRaTES Postgraduate Course on Neonatal Pulmonary and Critical Care: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Prague, Czech Republic, October 2009.
152. Volume Guarantee Ventilation. IPOKRaTES Postgraduate Course on Neonatal Pulmonary and Critical Care: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Prague, Czech Republic, October 2009.
153. Optimizing Weaning and Extubation. IPOKRaTES Postgraduate Course on Neonatal Pulmonary and Critical Care: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Prague, Czech Republic, October 2009.
154. Volume-targeted ventilation: new paradigm in neonatal ventilation. IPOKRaTES Postgraduate Course on Neonatal Pulmonary and Critical Care: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Prague, Czech Republic, October 2009.
155. INSURE, Infant Flow, Positive Pressure and Volume Guarantee - tell us what is best: Selection of respiratory support modalities in the NICU. International Conference on Clinical Neonatology: "Questions & Answers in NICU: Everything You Always Wanted To Know About Preterm Neonates But Were Afraid To Ask", Torino, Italy, November 2009.
156. Volume Guarantee Ventilation. Conference on the Early Management of Respiratory Distress Syndrome in Premature Neonates Università Cattolica del Sacro Cuore, Rome, Italy, March 2010.
157. Technological Innovations for Optimizing Neonatal Pulmonary Care. Developing Safe and Effective Devices and Instruments for Use in the Neonatal Intensive Care for the 21st Century PAS Topic Symposium. Vancouver, Canada, May 2010.
158. Lung-protective ventilation strategies. Pediatric Grand Rounds, Janeway Children's Hospital, Memorial University of Newfoundland, St. John's, Newfoundland, Canada, May 2010.
159. Strategies for Optimal Oxygenation/Ventilation during High-Frequency Ventilation. Canadian Society of Respiratory Therapists Annual Meeting, St. John's Newfoundland, Canada, May 2010.
160. Lung Protective Ventilation and Avoidance of Chronic Lung Disease in Neonates. Canadian Society of Respiratory Therapists Annual Meeting, St. John's Newfoundland, Canada, May 2010.

161. Principles of Gas Exchange: CO₂ elimination, target PCO₂, permissive hypercapnia. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
162. Principles of Gas Exchange: Oxygenation, tissue oxygen delivery, oxygen saturation targets. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
163. Delivery Room Stabilization: The Golden First Hour. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
164. Non-Invasive Respiratory Support. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
165. Modern mechanical ventilation: overview of basic modes and techniques. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
166. Optimizing Weaning and Extubation. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
167. Lung-Protective Strategies of Mechanical Ventilation. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
168. Volume Guarantee Ventilation: A new paradigm in neonatal ventilation. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
169. Inhaled Nitric Oxide Therapy for Term and Preterm Infants. IPOKRaTES Clinical Seminar: Pulmonary Care of the Newborn Infant from Birth to Discharge. Alexandria, Egypt, May 2010.
170. Principles of Gas Exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Clinical Seminar: Neonatal Neurology, Respiratory and Nutrition, Gastro-intestinal Disorders in the Newborn Infant. Rio de Janeiro, Brazil, June 2010.
171. Modern mechanical ventilation: overview of basic modes and techniques. IPOKRaTES Clinical Seminar: Neonatal Neurology, Respiratory and Nutrition, Gastro-intestinal Disorders in the Newborn Infant. Rio de Janeiro, Brazil, June 2010.
172. Optimizing Weaning and Extubation. IPOKRaTES Clinical Seminar: Neonatal Neurology, Respiratory and Nutrition, Gastro-intestinal Disorders in the Newborn Infant. Rio de Janeiro, Brazil, June 2010.
173. The importance of and strategies for lung recruitment. International Neonatology Congress, Rio de Janeiro, Brazil, June 2010.

174. Evolution of Neonatal Respiratory Support. 30th Anniversary of IPOKRaTES Academic Seminar: The Best of IPOKRaTES. Kos, Greece, Nov19-20, 2010.
175. Choice of Respiratory Support Modalities in 2010. Slovak National Neonatal Congress, Nove Zamky, Slovakia, Nov 23-24 2010.
176. Inhaled Nitric Oxide in Preterm Neonates. Slovak National Neonatal Congress, Nove Zamky, Slovakia, Nov 23-24 2010.
177. Oxygen Therapy in the Delivery Room and in the NICU. Care of the Extremely Low Birth Weight Infant Conference, First Perinatal Clinic, Charles University, Prague, Czech Republic, November 2010.
178. Pressure of Volume Controlled Ventilation Strategies for Extremely Low Birth Weight Infants? Care of the Extremely Low Birth Weight Infant Conference, First Perinatal Clinic, Charles University, Prague, Czech Republic, November 2010.
179. Non-invasive Respiratory Support of the Preterm Infant. 11th Annual meeting of the Saudi Neonatology Society, Riyadh, Saudi Arabia April 2011.
180. The First Golden Hour: Delivery Room Stabilization. 11th Annual meeting of the Saudi Neonatology Society, Riyadh, Saudi Arabia April 2011.
181. Advances in Respiratory Support of Premature Infants: Lung-protection ventilation. The 56th Congress of Japan Society for Premature and Newborn Medicine, Tokyo, Japan, November 2011.
182. Volume Guarantee Ventilation. The 56th Congress of Japan Society for Premature and Newborn Medicine, Tokyo, Japan, November 2011.
183. Volume Guarantee Ventilation: Practical Aspects. Otsuki Central Hospital, Osaka, Japan November 2011.
184. Advantages and Clinical Guidelines for Volume Guarantee Ventilation. Neonatal Ventilation Workshop, Ho Chi Minh City, Vietnam, November 2011.
185. Update on HFOV and HFJV for neonatal respiratory support. Neonatal Ventilation Workshop, Ho Chi Minh City, Vietnam, November 2011.
186. Ventilation modes in neonates. Neonatal Ventilation Seminar, Queen Sirikit Institute of Child, Bangkok, Thailand, November 2011.
187. Ventilation strategies for major lung diseases. Neonatal Ventilation Seminar, Queen Sirikit Institute of Child, Bangkok, Thailand, November 2011.
188. Respiratory monitoring: Loops and waveforms. Neonatal Ventilation Seminar, Queen Sirikit Institute of Child, Bangkok, Thailand, November 2011.

189. Case Study presentation and discussion. Neonatal Ventilation Seminar, Queen Sirikit Institute of Child, Bangkok, Thailand, November 2011.
190. HFOV and HFOV with VG – New trend in lung protective strategy. Neonatal Ventilation Seminar, Queen Sirikit Institute of Child, Bangkok, Thailand, November 2011.
191. Volume Guarantee Ventilation. International Webinar December 2011.
192. Weaning and Extubation Strategies. Montreal Children's Hospital, McGill University, Montreal, Canada April 2012.
193. High-Frequency Jet Ventilation: Tailoring ventilation strategy to disease pathophysiology. Montreal Children's Hospital, McGill University, Montreal, Canada April 2012.
194. Delivery Room Stabilization: The Golden First Hour. Neonatal Care Today Conference, Toronto, Ontario, Canada, April 2012.
195. Essentials of pulmonary physiology and lung mechanics. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. KK Women's and Children's Hospital, Singapore August 2012.
196. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. KK Women's and Children's Hospital, Singapore August 2012.
197. Modern mechanical ventilation: Overview of basic modes and techniques. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. KK Women's and Children's Hospital, Singapore August 2012.
198. Volume-targeted ventilation: New paradigm in neonatal ventilation. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. KK Women's and Children's Hospital, Singapore August 2012.
199. High-frequency ventilation. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. KK Women's and Children's Hospital, Singapore August 2012.
200. Essentials of pulmonary physiology and lung mechanics. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Bangkok, Thailand, August 2012.
201. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance,

- delivery room care, prevention and treatment of chronic lung disease. Bangkok, Thailand, August 2012.
202. Modern mechanical ventilation: Overview of basic modes and techniques. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Bangkok, Thailand, August 2012.
203. Volume-targeted ventilation: New paradigm in neonatal ventilation. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Bangkok, Thailand, August 2012.
204. High-frequency ventilation. IPOKRaTES Clinical Seminar: Neonatal pulmonary critical care. State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease. Bangkok, Thailand, August 2012.
205. Volume Targeting in Mechanical Ventilation. Mechanical Ventilation and BPD Symposium, Royal Prince Alfred Hospital, University of Sydney, Sydney, NSW, Australia, August 2012.
206. New Insights in Volume Targeted Ventilation. Grand Rounds, Royal Children's Hospital, University of Melbourne, Melbourne, Victoria, Australia, August 2012.
207. Lung-protective strategies of mechanical ventilation. Best of IPOKRaTES: An update in Neonatology. University of Leuven, Leuven, Belgium, September 2012.
208. Volume-targeted ventilation yes, but.... Controversies in mechanical ventilation. 4th congress of the European Academy of Pediatrics, Istanbul, Turkey, October 2012.
209. Neonatal Oxygen Toxicity, Plenary Session Lecture. Congreso Latino Americano de Pediatria ALAPE 2012 in Quito, Ecuador, November 2012.
210. New Strategies of Mechanical Ventilation of Newborn Infants. Congreso Latino Americano de Pediatria ALAPE 2012 in Quito, Ecuador, November 2012.
211. Bronchopulmonary Dysplasia. Congreso Latino Americano de Pediatria ALAPE 2012 in Quito, Ecuador, November 2012.
212. Developing an NICU Ventilation Protocol. Neonatal Update 2013, Imperial College London, London, England, December 2012.
213. Volume Guarantee Ventilation. Neonatus 2013 conference, Poznan University of Medical Sciences, Poznan, Poland, May 2013.
214. Delivery room stabilization and initial respiratory management of the perterm infant. IPOKRaTES seminar: Recent Advances in the Care of Critically Ill Neonates, Bangalore, India, October 2013.
215. Volume ventilation: Science and strategies. IPOKRaTES seminar: Recent Advances in the Care of Critically Ill Neonates, Bangalore, India, October 2013.

216. High frequency ventilation. IPOKRATES seminar: Recent Advances in the Care of Critically Ill Neonates, Bangalore, India, October 2013.
217. Optimizing weaning and extubation. IPOKRATES seminar: Recent Advances in the Care of Critically Ill Neonates, Bangalore, India, October 2013.
218. Congenital diaphragmatic hernia. IPOKRATES seminar: Recent Advances in the Care of Critically Ill Neonates, Bangalore, India, October 2013.
219. Lung Protective Strategies of Mechanical Ventilation. International Neonatal Intensive Care Congress, National Institute of Perinatology, Mexico City, Mexico, November 2013
220. Volume Guarantee Ventilation. International Neonatal Intensive Care Congress, National Institute of Perinatology, Mexico City, Mexico, November 2013
221. Time Not to Ventilate: Roundtable Discussion. International Neonatal Intensive Care Congress, National Institute of Perinatology, Mexico City, Mexico, November 2013
222. Volume Guarantee Ventilation: Annual meeting of the Neonatology Association of the Mexico City Federal District, Mexico City, Mexico, November 2013
223. Delivery room stabilization: The Golden Hour. Respiratory Care Conference, Ottawa, Ontario, Canada, April 2014
224. The long road to acceptance: Volume-targeted ventilation versus pressure-limited ventilation in acute respiratory failure in premature infants. Neonatology Conference, Montreal Children's Hospital (simulcast to Jewish General Hospital and Royal Victoria Hospital, McGill University, Montreal, Quebec, Canada, May 2014
225. Management of infants with severe hypoxic respiratory failure. Neonatology Conference, Montreal Children's Hospital (simulcast to Jewish General Hospital and Royal Victoria Hospital, McGill University, Montreal, Quebec, Canada, May 2014
226. The Golden First Hour after Birth. IVth McGill Neonatal Conference: Neonatal Cardio-Respiratory problems. Palais Des Congress, Montreal, Quebec, Canada, May 2014
227. Volume-Targeted Ventilation. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2014.
228. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2014
229. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2014.

230. Lung-protective strategies of mechanical ventilation. Best of IPOKRaTES: An update in Neonatology. University of Leuven, Leuven, Belgium, September 2014.
231. Optimizing cardio-respiratory transition of ELGANs in the delivery room. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Prague, Czech Republic, October 2014
232. Lung-protective ventilation strategies. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Prague, Czech Republic, October 2014
233. Optimizing Weaning and Extubation. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Prague, Czech Republic, October 2014
234. Continued care of the infant with BPD. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Prague, Czech Republic, October 2014
235. Volume-Targeted Ventilation. Workshop on Neonatal Ventilation, Dubai, UAE, November 2014.
236. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation Dubai, UAE, November 2014.
237. Optimizing cardio-respiratory transition of ELGANs in the delivery room. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate”, Porto, Portugal, May 2015.
238. Current controversies in the management of a patent ductus arteriosus. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Porto, Portugal, May 2015.
239. Lung-protective ventilation strategies. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Porto, Portugal, May 2015.
240. Continued care of the infant with BPD. IPOKRaTES Clinical Seminar “Care of the Extremely Preterm Neonate” Porto, Portugal, May 2015.
241. The Golden First Hour after Birth. Fourth Arab Neonatal Congress & 2nd Pediatric Updates, Dubai, UAE, September 2015.
242. Congenital Diaphragmatic Hernia: Contemporary Management and Outcome. Fourth Arab Neonatal Congress & 2nd Pediatric Updates, Dubai, UAE, September 2015.
243. New Ventilatory Modalities in the NICU: Synchronized Ventilation and HFV. Fourth Arab Neonatal Congress & 2nd Pediatric Updates, Dubai, UAE, September 2015.
244. Volume-Targeted Ventilation. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2015.
245. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2015.

246. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2015.
247. Untangling Non-Invasive Neonatal Ventilation in the Neonatal Period. Keynote Presentation, Annual Neonatal Ventilation Day 2015, University of Ottawa, Ontario, Canada, September 2015.
248. Lung-protective Ventilation Strategies and Volume-targeted Ventilation: A New Paradigm in Neonatal Respiratory Support. Rama Hospital, Bangkok Thailand (Special lecture sanctioned by the Thai Neonatal Society), March 16, 2016.
249. High-frequency ventilation in the 21st century. Rama Hospital, Bangkok Thailand (Special lecture sanctioned by the Thai Neonatal Society), March 16, 2016.
250. Lung-protective ventilation strategies: Volume-targeted Ventilation and High-frequency Ventilation. National Defence Medical Centre, Taipei, Taiwan March 17, 2016.
251. Volume-targeted Ventilation: A New Paradigm in Neonatal Respiratory Support. Special Neonatal Symposium at the Howard Plaza Hotel Taipei, Taiwan March 17, 2016.
252. High-frequency ventilation in the 21st century. Special Neonatal Symposium, Howard Plaza Hotel Taipei, Taiwan March 17, 2016.
253. Lung-protective Ventilation Strategies: Volume-targeted Ventilation and High-frequency Ventilation. Chung Shan Medical University Hospital, Taichung, Taiwan, March 18, 2016.
254. Volume-targeted Ventilation: A New Paradigm in Neonatal Respiratory Support. Special Neonatal Symposium, Kaohsiung Howard Plaza Hotel, Kaohsiung, Taiwan March 17, 2016.
255. High-frequency ventilation in the 21st century. Special Neonatal Symposium at the Kaohsiung Howard Plaza Hotel Kaohsiung, Taiwan March 17, 2016.
256. Volume-targeted Ventilation and High-frequency Ventilation: Key Lung-protective Ventilation Strategies. First Affiliated Hospital of Yunnan Medical University, Kunming, People's Republic of China, March 21, 2016.
257. Volume-targeted Ventilation and High-frequency Ventilation: Key Lung-protective Ventilation Strategies. Xi'an Xi Jing Hospital, Xi-an, People's Republic of China, March 22, 2016.
258. Volume-targeted Ventilation: A New Paradigm in Neonatal Respiratory Support, Sheng Jing Hospital of China Medical University, Shenyang, People's Republic of China, March 24, 2016.
259. Lung-protective Ventilation Strategies in Neonatal Ventilation. National Neonatal Society Meeting, International Conference center, Beijing, China, March 2016.
260. Non-invasive Respiratory Support in Newborn Infants. 16th Annual Saudi Neonatology Society meeting, Riyadh, Saudi Arabia, April 2016

261. Lung-protective ventilation strategies in Neonatal Ventilation. 16th Annual Saudi Neonatology Society meeting, Riyadh, Saudi Arabia, April 2016
262. Newborn Resuscitation: The golden First Hour. 16th Annual Saudi Neonatology Society meeting, Riyadh, Saudi Arabia, April 2016
263. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016
264. Oxygen or air for neonatal resuscitation? IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016
265. Modern mechanical ventilation: Overview of basic modes and techniques. IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016
266. Volume-targeted Ventilation: A New Paradigm in Neonatal Respiratory Support. IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016.
267. Optimizing weaning and extubation. IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016
268. Nutritional support of the infant requiring respiratory support. IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016
269. Ventilator management – case presentations. IPOKRaTES Clinical Seminar: State-of-the-art in Respiratory Assistance, Delivery Room Care and Prevention & Treatment of Chronic Lung Disease. Cluj-Napoca, Romania, May 2016
270. Role of Volume guarantee during HFOV. Third HFOV, HFJV and Advanced Conventional Ventilation Course, University of Alberta, Alberta, Canada, June 2016
271. Impact on respiratory physiology of the newborn with different ventilation modes. Third HFOV, HFJV and Advanced Conventional Ventilation Course, University of Alberta, Alberta, Canada, June 2016
272. Weaning from conventional ventilation. Third HFOV, HFJV and Advanced Conventional Ventilation Course, University of Alberta, Alberta, Canada, June 2016
273. Volume-Targeted Ventilation. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2016.

274. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2016.
275. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2016.
276. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Clinical Seminar: Neonatal Respiratory Support. Naples, Italy, October 2016.
277. Important concepts in the physiology of mechanical ventilation. IPOKRaTES Clinical Seminar: Neonatal Respiratory Support. Naples, Italy, October 2016.
278. Ventilator management – case presentations. IPOKRaTES Clinical Seminar: Neonatal Respiratory Support. Naples, Italy, October 2016.
279. Volume-targeted Ventilation: A New Paradigm in Neonatal Respiratory Support. IPOKRaTES Clinical Seminar: Neonatal Respiratory Support. Naples, Italy, October 2016.
280. Volume-targeted ventilation vs pressure-limited ventilation in the neonate who needs invasive respiratory support: It is time to choose the right approach! 22nd National Congress of the Italian Neonatal Society, Naples, Italy, October 2016.
281. Pulmonary Physiology. The Best of IPOKRaTES: An Update in Neonatology. KK Women's and Children's Hospital, Singapore November 2016.
282. Non-invasive Strategies of Respiratory Support. An Update in Neonatology. KK Women's and Children's Hospital, Singapore November 2016.
283. Volume-Targeted Ventilation. Workshop on Neonatal Ventilation, Cape Town, South Africa, November 2016.
284. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Cape Town, South Africa, November 2016.
285. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Cape Town, South Africa, November 2016.
286. Key aspects of respiratory physiology. IPOKRaTES Clinical Seminar: Neonatal Respiratory Support: State-of-the-art in respiratory support, delivery room care, hemodynamic monitoring, prevention and treatment of chronic lung disease. La Spezia, Italy, April 2017.
287. Lung-protective strategies of mechanical ventilation. Neonatal Respiratory Support: State-of-the-art in respiratory support, delivery room care, hemodynamic monitoring, prevention and treatment of chronic lung disease. La Spezia, Italy, April 2017.

288. Patient-ventilator interactions and pulmonary graphics. IPOKRATES Clinical Seminar: Neonatal Respiratory Support: State-of-the-art in respiratory support, delivery room care, hemodynamic monitoring, prevention and treatment of chronic lung disease. La Spezia, Italy, April 2017.
289. Ventilator management case presentations. IPOKRATES Clinical Seminar: Neonatal Respiratory Support: State-of-the-art in respiratory support, delivery room care, hemodynamic monitoring, prevention and treatment of chronic lung disease. La Spezia, Italy, April 2017
290. Congenital and Acquired Respiratory Distress Beyond Surfactant Deficiency. First Neonatal Review Course, Dubai, UAE, May 2017.
291. Physiology and Strategies of Mechanical Ventilation in Neonatal Diseases. First Neonatal Review Course, Dubai, UAE, May 2017.
292. Guidelines for Non-invasive Ventilation. First Neonatal Review Course, Dubai, UAE, May 2017.
293. Pathophysiology and treatment guidelines for apnea. First Neonatal Review Course, Dubai, UAE, May 2017.
294. Important Concepts in the Physiology of Mechanical Ventilation. EPIC Latino, international conference, Columbian Neonatal Society, Bogota, Columbia, May 2017.
295. Modern mechanical ventilation: Overview of basic modes and techniques. EPIC Latino, international conference, Columbian Neonatal Society, Bogota, Columbia, May 2017.
296. Lung-protective Strategies of Mechanical Ventilation. EPIC Latino, international conference, Columbian Neonatal Society, Bogota, Columbia, May 2017.
297. Volume-targeted Ventilation EPIC Latino, international conference, Columbian Neonatal Society, Bogota, Columbia, May 2017.
298. Lung-protective Ventilation Strategies. VIII Jornadas Pediátricas y Curso Internacional de Pediatría 2017, Universidad Peruana Cayetano Heredia, Lima, Peru, June 2017.
299. Volume guarantee ventilation. VIII Jornadas Pediátricas y Curso Internacional de Pediatría 2017, Universidad Peruana Cayetano Heredia, Lima, Peru, June 2017.
300. Non-invasive respiratory support of newborn infants. VIII Jornadas Pediátricas y Curso Internacional de Pediatría 2017, Lima, Peru, June 2017.
301. Physiology of Mechanical Ventilation. Best of IPOKRATES conference, Amsterdam, The Netherlands, September 2017.
302. Practical Challenges in the Application of Volume-targeted Ventilation. Best of IPOKRATES conference, Amsterdam, The Netherlands, September 2017.

303. Volume-Targeted Ventilation. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2017.
304. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2017.
305. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Traunstein, Germany, September 2017.
306. Blood gas analysis and interpretation. First Neonatology Scientific Conference / IPOKRaTES Seminar in cooperation with the Pediatric Society of Ghana, University of Ghana Medical Center, Accra, Ghana, November 2017.
307. Mechanical ventilation: The Basics; Pros-Cons of various modes. First Neonatology Scientific Conference / IPOKRaTES Seminar in cooperation with the Pediatric Society of Ghana, University of Ghana Medical Center, Accra, Ghana, November 2017.
308. Monitoring patient status during mechanical ventilation, pulmonary graphics. First Neonatology Scientific Conference / IPOKRaTES Seminar in cooperation with the Pediatric Society of Ghana, University of Ghana Medical Center, Accra, Ghana, November 2017.
309. Mechanical ventilation in low resource settings. First Neonatology Scientific Conference / IPOKRaTES Seminar in cooperation with the Pediatric Society of Ghana, University of Ghana Medical Center, Accra, Ghana, November 2017.
310. Individualized volume-targeting in neonates. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
311. Mechanical ventilation in BPD patients. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
312. Intervention studies in neonatology: One size does not fit all. 14th Conference on Pediatric and Neonatal Mechanical Ventilation, Montreux, Switzerland April 2018.
313. Physiologic principles of respiratory support. IPOKRaTES Clinical Seminar: Update in Neonatal Respiratory Care and Delivery Room Management. Tel Aviv, Israel, May 2018.
314. Lung-protective ventilation strategies. IPOKRaTES Clinical Seminar: Update in Neonatal Respiratory Care and Delivery Room Management. Tel Aviv, Israel, May 2018.
315. Management of established BPD. IPOKRaTES Clinical Seminar: Update in Neonatal Respiratory Care and Delivery Room Management. Tel Aviv, Israel, May 2018.
316. Pathophysiology of lung injury. Neonatal Ventilation Workshop, Sao Paulo, Brazil, June 2018.
317. Volume-targeted Ventilation. Neonatal Ventilation Workshop, Sao Paulo, Brazil, June 2018.

318. High-frequency ventilation. Neonatal Ventilation Workshop, Sao Paulo, Brazil, June 2018.
319. Physiologic principles upon which to base ventilation strategies for newborn ventilation. Best of IPOKRaTES: An update in Neonatology, Rio de Janeiro, June 2018.
320. Mechanical ventilation strategies for preterm newborns. Best of IPOKRaTES: An update in Neonatology, Rio de Janeiro, June 2018.
321. Patient-ventilator interactions and graphics. Evidence-based cardio-respiratory care of the newborn infant. IPOKRaTES Clinical Seminar, Jesus College, University of Oxford, Oxford, United Kingdom. September 2018.
322. Volume-targeted ventilation. Evidence-based cardio-respiratory care of the newborn infant. IPOKRaTES Clinical Seminar, Jesus College, University of Oxford, Oxford, United Kingdom. September 2018.
323. Volume Guarantee Ventilation. Workshop on Neonatal Ventilation, Traunstein, Germany, October 2018.
324. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Traunstein, Germany, October 2018.
325. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Traunstein, Germany, October 2018.
326. Lung-Protective Ventilation Strategies. Special Neonatal Conference, Montreal Children's Hospital, McGill University, Montreal, Canada, October 2018
327. Research Protocol Presentation: Comparison of CPAP and NIPPV at equal mean airway pressure. Montreal Children's Hospital, McGill University, Montreal, Canada, October 2018
328. Lung-Protective Ventilation Strategies. Neonatal Grand Rounds. McMaster University, Hamilton, Ontario, Canada, October 2018
329. Non-invasive respiratory support and surfactant administration strategies. Neonatal Review Course, American Pediatric Meeting, Bucharest, Romania, March 2019
330. Mechanical ventilation strategies. Neonatal Review Course, American Pediatric Meeting, Bucharest, Romania, March 2019
331. Physiologic basis of respiratory support. XVI International Symposium on Mechanical Ventilation in Neonatology and Pediatrics, São Paulo, Brazil, August 2019.
332. Volume-targeted ventilation: The long road to acceptance. XVI International Symposium on Mechanical Ventilation in Neonatology and Pediatrics, São Paulo, Brazil, August 2019.

333. Lung-protective ventilation from Delivery room to NICU. XVI International Symposium on Mechanical Ventilation in Neonatology and Pediatrics, São Paulo, Brazil, August 2019.
334. Respiratory support of infants with established severe BPD. XVI International Symposium on Mechanical Ventilation in Neonatology and Pediatrics, São Paulo, Brazil, August 2019.
335. Patient-ventilator interactions and graphics. XVI International Symposium on Mechanical Ventilation in Neonatology and Pediatrics, São Paulo, Brazil, August 2019.
336. Volume Guarantee Ventilation. Workshop on Neonatal Ventilation, Traunstein, Germany, October 2019.
337. High-Frequency Ventilation in Neonates. Workshop on Neonatal Ventilation, Traunstein, Germany, October 2019.
338. Optimizing Mechanical ventilation: Clinical Case Scenarios. Workshop on Neonatal Ventilation, Traunstein, Germany, October 2019.
339. Lung and brain protective Strategies of Mechanical Ventilation of Neonates. First Russian Congress of Pediatric Anesthesiologists and Reanimatologists, Moscow, Russia October 2019
340. Optimizing weaning and extubation in neonates. First Russian Congress of Pediatric Anesthesiologists and Reanimatologists, Moscow, Russia October 2019
341. Essentials of pulmonary physiology and lung mechanics. IPOKRaTES Clinical Seminar Neonatal Respiratory Support: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease, Henan Children's Hospital, Zhengzhou, People's Republic of China, November 2019
342. Principles of gas exchange: CO₂ elimination, oxygenation, tissue oxygen delivery. IPOKRaTES Clinical Seminar Neonatal Respiratory Support: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease, Henan Children's Hospital, Zhengzhou, People's Republic of China, November 2019
343. Volume-targeted ventilation: New paradigm in neonatal ventilation. IPOKRaTES Clinical Seminar Neonatal Respiratory Support: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease, Henan Children's Hospital, Zhengzhou, People's Republic of China, November 2019
344. Bronchopulmonary Dysplasia: Definition, Pathophysiology and Management. IPOKRaTES Clinical Seminar Neonatal Respiratory Support: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease, Henan Children's Hospital, Zhengzhou, People's Republic of China, November 2019
345. Early postnatal respiratory care to prevent BPD. 2019 Guangzhou International Infant Chronic Lung Disease Forum, Guangzhou Women and Children's Medical Center, Guangzhou, People's Republic of China November 2019

346. Ventilator management – case presentations. IPOKRATES Clinical Seminar Neonatal Respiratory Support: State-of-the-art in respiratory assistance, delivery room care, prevention and treatment of chronic lung disease, Henan Children's Hospital, Zhengzhou, People's Republic of China, November 2019
347. Basics of Respiratory Support. Best of IPOKRATES: An update in Neonatology, Naples, Italy, November 2019
348. Diagnostic Modalities to Monitor Lung Disease: Ultrasound, Non-invasive O₂, CO₂, NAVA Based Modalities. Best of IPOKRATES: An update in Neonatology, Naples, Italy, November 2019
349. Neonatal Clinical Trials: How can we do better? Best of IPOKRATES: An update in Neonatology, Naples, Italy, November 2019
350. Lung-protective Ventilation From the Delivery Room to the NICU. Dr. Behcet Uz Pediatrics Congress with International Participation, Izmir, Turkey, March 2020
351. Advances in High-Frequency Ventilation: State of the Art 2020. Dr. Behcet Uz Pediatrics Congress with International Participation, Izmir, Turkey, March 2020

INVITED LECTURES: WEBINARS AND PODCASTS

1. Respiratory Support in Neonatology: State-of-the-Art 2012. International webcast sponsored by Draeger Medical, Inc. Dec 2012
2. Ventilation strategies for prevention of lung injury. National webcast sponsored by the American Association for Respiratory Care. July 2015
3. Delivering Respiratory Support for the Preterm Infant. On demand webcast: Evolving Protocols for Treating Respiratory Distress in the Preterm Infant: Recent Trends. Sponsored jointly by *Matrix Medical Communications* and *Cine-Med*. August 2015
4. Neonatal Volume Guarantee Ventilation. Intensive Care On-line Webinar. December 2016
5. Physiology of volume-targeted ventilation. PocusNeo.org. Physiology Oriented Practice International Webinar Series. May 2020
6. Conventional mechanical ventilation of the newborn with RDS: a tailored approach. Union of European Neonatal and Perinatal Societies International Webinar Best Practices in Neonatology on Respiratory Care, July 2020
7. Ventilation strategies in PPHN: A physiologic-based approach to alveolar recruitment. Neonatology Around the World International Webinar Series. McMaster University August 2020.
8. Nasal intermittent positive pressure ventilation (NIPPV). Non-invasive respiratory support Masterclass. NeoHeart 2020, Columbia University, NY, NY October 2020.
9. Volume-targeted Ventilation. PocusNeo.org. Respiratory physiology & Neonatal Ventilation: On-Demand E-Conference & E-Workshop. December 2020

GRANT SUPPORT

1. Principal Investigator, Trustees of Akron Children's Hospital Research Foundation. "Clinical trial of high frequency jet ventilation in newborn infants", 02/28/1982 – 02/28/1983
2. Principal Investigator, IVAC Corporation equipment grant. "HFJV in an animal model of meconium aspiration". 09/1983
3. Principal Investigator, Basic Research Support Grant, Georgetown University. "High frequency jet ventilation in an animal model of meconium aspiration". 04/01/1983-04/30/1984
4. Division of Research Resources, Biomedical Research Support Grant RR5360 Georgetown University 6/1/1984 – 5/30/1985
5. Principal Investigator, John Preston Marshall Foundation. "Extracorporeal Membrane Oxygenation". 01/01/1985-01/31/1987
6. Co - Sponsor of Awardee of Fellowship Grant. American Heart Association, Nation's Capital Affiliate. "Tidal flow veno-venous system for ECMO". 07/31/1986-06/30/1987.
7. Principal Investigator, John Preston Marshall Foundation. "Extracorporeal Membrane Oxygenation". 06/01/1987–06/30/1989
8. Principal Investigator, American Heart Association, Nation's Capital Affiliate. "A tidal flow veno-venous system for ECMO: Long-term safety" 07/01/1988-06/30/1989 (extended till Sept 1990)
9. Site Principal Investigator, Pediatrix Medical Group. "Lung lavage with perfluorocarbons in an animal model of the meconium aspiration syndrome". 04/01/1993-06/30/1994
10. Site Principal Investigator, Abbot Laboratories/Ross Laboratories. "Evaluation of Survantia in term infants". 03/01/1994-12/31/1995
11. Site Principal Investigator I, Ohmeda Inc. "A double blind, placebo controlled dose response study of inhaled nitric oxide in the treatment of persistent pulmonary hypertension in the neonate". 07/01/1994-06/30/1996
12. Principal Investigator, Draeger Inc. "Validation and testing of new Babylog ventilator software". 05/01/1996-09/30/1996.
13. Site Principal Investigator, Ohmeda Inc. "Multi-center trial of Nitric Oxide in near-term infants with hypoxemic respiratory failure". 04/01/1996-12/31/1998
14. Principal Investigator, Draeger Inc. "Clinical validation and testing of new Babylog ventilator software". 07/01/1997-03/31/1998
15. Site Principal Investigator, Acute Therapeutics Inc. (now Discovery Laboratories). "Multi-center randomized controlled trial of KL4 surfactant for treatment of MAS". 07/01/1997-07/31/1999

16. Site Principal Investigator, Discovery Laboratories. “Multi-center randomized controlled trial of Surfaxin for treatment of meconium aspiration syndrome”. 05/012000-07/31/2001
17. Principal Investigator, Draeger Inc. “Randomized trial of the Volume Guarantee mode of ventilation in infants with periodic breathing. 12/01/2001-12/31/2003.
18. Site Principal Investigator, Johnson and Johnson, Inc. “A Pharmacokinetic, Pharmacodynamic and Short-term Safety Study of Single and Multiple Day Doses of Rabeprazole Sodium in Neonates and Pre-term Infants with a Corrected Age of Less than 44 Weeks with a Presumptive Diagnosis of GERD”. 12/01/2009-12/31/2010.
19. Site Co- Principal Investigator Georgetown University, Canadian Institutes of Health Research MCT-80246 (Site CO-PI, Haresh Kirpalani, PI). “Nasal Intermittent Positive Pressure Ventilation in Premature Infants (NIPPV) Trial”. 12/01/2009-12/31/2010.
20. Alternate (Co)-Principal Investigator, Brown University/WIHRI site. NIH-NICHD U10 HD27904. “NICHD Cooperative Multicenter Neonatal Research Network, 04/01/2011-03/31/2016.
21. Principal Investigator, NIH Subcontract: R43 HL106366-01, J Vossoughi (PI) “Engineering and Scientific Research Associates”. Responsive to RFA-HD-09-017 Safe and Effective Instruments and Devices for Use in the Neonatal Intensive Care Units (SBIR [R43]) “Neonatal APD, a Simple Noninvasive Diagnostic/Monitoring Device for Neonatal ICU”. 07/01/2010-06/01/2014.
22. Senior/Key Collaborator, Site Principal Investigator, Small Business Innovation Research Grant 1R44HL107000-01; PI, Segal, Robert, Discovery Laboratories. “Development and Utilization of a Novel Aerosol Generating Technology to Deliver Lucinactant, a KL4 Peptide-containing, Synthetic Surfactant for the Prevention of Neonatal Respiratory Distress Syndrome”. 01/01/2011-06/01/2014.
23. Overall study Co – PI, Site PI at WIHRI. “The Sustained Aeration of Infant Lungs (SAIL) Trial.” NIH 1U01HD072906-01A1. 09/01/13 - 08/31/18.
24. Site PI, Draeger Medical, Inc. Retrospective Data Collection to establish a reference cohort for the prospective evaluation of the Draeger VN 500 in HFOV mode. 07/01/2014 – 09/2014.
25. Overall Principal Investigator, Site PI at WIHRI, Draeger Medical, Inc. “A Clinical Study to Evaluate the Safety and Effectiveness of the Infinity Acute Care System Workstation Neonatal Care Babylog VN500 Device in High Frequency Oscillatory Ventilation (HFOV) Mode in Very Low Birth Weight (VLBW) Neonates” 06/01/2015 to 05/30/2019
26. Site PI. HIP Trial: Timing of Hernia Repair in in Premature Infants. NIH Subcontract, Martin Blakely PI, Vanderbilt University. Grant No. U01 HD076733-01A1. Project period 09/22/2014 – 05/03/2019.

27. Site PI. Windtree Therapeutics. Protocol 03-CL-1401, A Multicenter, Randomized, Open-Label, Controlled Trial to Assess the Safety and Tolerability of Lucinactant for Inhalation in Preterm Neonates 26 to 28 Weeks PMA. 06/01/2016 – 12/31/2016.
28. Site PI. Windtree Therapeutics, 03-CL-1202 A Multinational, Multicenter, Masked, Randomized, Controlled Study to Assess the Safety and Efficacy of Lucinactant for Inhalation in Preterm Neonates 26 to 32 Weeks Gestational Age with Respiratory Distress Syndrome. 06/15/2016-12/31/2017.
29. Alternate (Co)-Principal Investigator, Brown University/WIHRI site. IH-NICHD U10 HD27904. “NICHD Cooperative Multicenter Neonatal Research Network, 04/01/2016-03/31/2021.
30. Site PI. Mallinckrodt Inc. Multicenter, Prospectively Defined Observational Registry With Retrospective Data Collection, Evaluating Premature and Term-Near-Term Neonates With Pulmonary Hypertension Receiving Inhaled Nitric Oxide via Invasive or Noninvasive Ventilator Support at US Centers. MNK19050056 (The PaTTerN Registry Study). 09/15/17 - 12/31/19
31. COBRE for Perinatal Biology Pilot Project Award Program. PI Pilot study of Nasal Intermittent Positive Pressure Ventilation (NIPPV) vs. nasal Continuous Positive Airway Pressure (nCPAP) at equivalent mean airway pressure in preterm infants: Effect on oxygenation, CO₂ elimination, work of breathing and frequency of cardiorespiratory events. 05/01/2017 – 06/30/2019
32. Site PI. Regeneron Pharmaceuticals, Inc. VGFTe-ROP-1920: Randomized, Controlled, Multi-Center Study to Assess the Efficacy, Safety, and Tolerability of Intravitreal Aflibercept Compared to Laser Photocoagulation in Patients with Retinopathy of Prematurity. 07/01/2020 – 12/31/2022

UNIVERSITY TEACHING ROLES

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|-----------|---|
| 1982-1987 | Annual Infant Resuscitation Workshop, Nurse Midwifery students, Georgetown University |
| 1982-1997 | Neonatal Nurse Practitioner Program, Georgetown University. Regular 4 Annual Lectures. |
| 1988-1992 | Ethical issues in neonatal intensive care. Annual lecture/discussion in the Extended European Bioethics Course, The Kennedy Institute of Ethics, Georgetown University, Hans-Martin Sass, Course Director. |
| 1984-2009 | Course Director, Annual ECMO nursing course ECMO Specialists, Georgetown University. |
| 1992-1996 | <p>Regular Lecturer, Annual Current Concepts in Pediatric & Neonatal Respiratory Care Symposium, Georgetown University Hospital, Washington, D.C.</p> <p>Topics included:</p> <ul style="list-style-type: none"> • Extracorporeal membrane oxygenation • High-frequency jet ventilation • Matching ventilator strategies with disease pathophysiology • Nitric oxide and the neonate • Liquid ventilation in neonatal respiratory failure • Treatment of PPHN in 1995 |
| 1992-2009 | <p>Neonatology Grand Rounds, Georgetown University Medical Center, Washington, D.C.</p> <p>Topics included:</p> <ul style="list-style-type: none"> • Treatment of persistent pulmonary hypertension of the newborn. • Veno-venous ECMO. • Tailoring conventional and high-frequency ventilation strategy to disease pathophysiology. • Treatment of PPHN - state of the art. • Newer approaches to conventional mechanical ventilation. • High-frequency ventilation - clinical management issues. • Volume targeted mechanical ventilation • Congenital diaphragmatic hernia • Fungal sepsis in the NICU • Nitric Oxide treatment of PPHN • Therapeutic misadventures in Neonatology • Nitric Oxide for prevention of BPD • Update on HFV • State of the art in mechanical ventilation • Principles of gas exchange • Oxygen therapy: the Good, the Bad and the Ugly |

- 1992-2008 Course Director, Annual ECMO course, Georgetown University and Uniformed Services School of the Health Sciences Neonatology Fellows.
- Dec. 1998 Course Co-Director, Strategies in High-Frequency Ventilation from Neonates through Adults. Didactic course and hands-on workshop. Georgetown University Medical Center.
- 2010-Present Perinatal Management Conferences (Neonatal Grand Rounds), Women and Infants Hospital of RI
- High-frequency ventilation
 - iNO in Preterm Hypoxemic Respiratory Failure: Where have we been and where are we going?
 - Lung-protective Ventilation Strategies
 - Delivery room stabilization of preterm infants
 - Inhaled nitric oxide therapy guidelines
 - Volume guarantee ventilation
 - Surfactant Therapy in the 21st Century: Is There Anything New?
 - Less is More: noninvasive respiratory support in preterm infants with RDS
 - Inhaled Nitric Oxide: Are we too restrictive/liberal?
 - Patient-Ventilator Interaction and Pulmonary Graphics
 - Not all that “spells” is Apnea of Prematurity
 - High-Frequency Ventilation: State of the art 2017
 - BPD: It’s here to stay; we might as well own it!
- 2010-Present Fellows’ Conferences
- Volume Guarantee Ventilation
 - Respiratory Physiology Board Review
 - Extracorporeal Membrane Oxygenation
 - Inhaled nitric oxide therapy
 - Treatment of Persistent Pulmonary Hypertension
 - Congenital Diaphragmatic Hernia
 - Patient-Ventilator Interaction and Pulmonary Graphics
- 2010-Present Neonatal Core Curriculum Student lectures (repeat x3/year), Women and Infants Hospital
- Respiratory support I: The basics – oxygen therapy, CPAP, non-invasive ventilation
 - Respiratory support II: Conventional mechanical ventilation
 - Respiratory support III: High-Frequency ventilation, iNO, ECMO
- 2010-Present Perinatal Seminar (Monthly Journal Clubs, M&M Conferences, Nutrition seminars, Infectious Disease conferences), Women and Infants Hospital of RI.
- 2014-Present Fellow Bootcamp (Participating Faculty) Intensive 2 day comprehensive training on policy, skills and procedures related to the NICU environment.
- Ventilation Modes
 - Persistent Pulmonary Hypertension
 - Congenital Diaphragmatic Hernia