

Istvan Seri, MD, PhD  
Division Chief  
USC Division of Neonatal Medicine

## **Table of Contents:**

Bibliography: appears just below  
Invited Lectures: **CLICK** to view

## **BIBLIOGRAPHY:**

1. **Seri I**, Walcz E, Koos R, Revesz T. B-type acute lymphoid leukemia: A case report (Hun). *Orv Hetil* 121:1307-1310, 1980
2. Walcz E., **Seri I**, Kuti D, Revesz T, Schuler D. Developmental changes in lymphocyte surface markers. *Acta Paediatr Hung* 23:299-304, 1982
3. Tulassay T, **Seri I**, Machay T, Kizsel J, Varga J, Csömör S. Effects of dopamine on renal functions in premature infants with respiratory distress syndrome. *Intern J Pediatr Nephrol* 4:19-23, 1983
4. **Seri I**, Tulassay T, Kizsel J, Machay T, Csömör S. Cardiovascular response to dopamine in hypotensive preterm infants with severe hyaline membrane disease. *Eur J Pediatr* 142:3-9, 1984
5. **Seri I**, Tulassay T, Kizsel J, Sulyok E, Ertl T, Bodis J, Csömör S. Effect of low dose dopamine therapy on catecholamine values in CSF of preterm neonates. *J Pediatr* 105:489-491, 1984
6. **Seri I**, Tulassay T, Kizsel J, Csömör S. The use of dopamine for the prevention of the renal side effects of indomethacin in premature infants with patent ductus arteriosus. *Intern J Pediatr Nephrol* 5:209-214, 1984
7. Berbik I, Kovacs I, Csömör S, Kizsel J, Liptak M, **Seri I**. Clinical importance of urinary tract infections during pregnancy. Neonatal morbidity and mortality. *Acta Chir Hun* 25:257-268, 1984
8. Sulyok E, **Seri I**, Tulassay T, Kizsel J, Ertl T. The effect of dopamine administration on the activity of the renin-angiotensin-aldosterone system in sick preterm infants. *Eur J Pediatr* 143:191-193, 1985
9. **Seri I**, Tulassay T, Kizsel J, Machay T, Csömör S. Cardiovascular response to dopamine in hypotensive preterm neonates with severe hyaline membrane disease. *Intern Synopses* March:26-27, 1985

10. **Seri I**, Tulassay T, Kizsel J, Ruppert F, Sulyok E, Ertl T, Bodis J, Csömör S. Effect of low dose dopamine infusion on prolactin and thyrotropin secretion in preterm infants with hyaline membrane disease. *Biol Neonate* 47:317-322, 1985
11. Kizsel J, **Seri I**, Machay T. High-frequency oscillatory ventilation (HFOV) in the treatment of neonatal respiratory disturbances: Case report of two infants. *Acta Paediatr Hun* 26:215-225, 1985
12. Tulassay T, **Seri I**. Interaction of dopamine and furosemide in acute oliguria of preterm infants with hyaline mebrane disease. *Acta Paediatr Scand* 75:420-424, 1986
13. Rascher W, Tulassay T, Sulyok E, **Seri I**, Lang RE. Atrial natriuretic peptide in premature and full-term neonates. *J Hypertension* 4(Suppl.6):S506-S508, 1986
14. Tulassay T, Rascher W, Hajdu J, Lang RE, Toth M, **Seri I**. Influence of dopamine on atrial natriuretic peptide levels in premature infants. *Acta Paediatr Scand* 72:42-46, 1987
15. Aperia A, Bertorello A, **Seri I**. Dopamine causes inhibition of Na<sup>+</sup>-K<sup>+</sup>-ATPase activity in proximal convoluted tubule segments. *Am J Physiol* 252(Renal Fluid Electrolyte Physiol. 21):F39-F45, 1987
16. Tulassay T, **Seri I**, Rascher W. The role of atrial natriuretic peptide in extracellular volume contraction after birth. *Acta Paediatr Scand* 76:144-146, 1987
17. **Seri I**, Eklöf AC, Aperia A. Role of dopamine<sub>2</sub> receptors in mediating the renal vascular response to low-dose dopamine infusion in the rat. *Acta Physiol Scand* 130:563-569, 1987
18. **Seri I**, Aperia A. Contribution of dopamine<sub>2</sub> receptors to the dopamine-induced increase in glomerular filtration rate. *Am J Physiol* 254(Renal Fluid Electrolyte Physiol. 23): F196-F201, 1988
19. **Seri I**, Hajdu J, Tulassay T, Kizsel J, Aperia A. The effect of low-dose dopamine infusion on urinary PGE<sub>2</sub> excretion in sick preterm infants. *Eur J Pediatr* 147:616-620, 1988
20. **Seri I**, Kone BC, Gullans SR, Aperia A, Brenner BM, Ballermann BJ. Locally formed dopamine inhibits Na<sup>+</sup>-K<sup>+</sup>-ATPase activity in rat renal cortical tubule cells. *Am J Physiol* 255(Renal Fluid Electrolyte Physiol. 24):F666-F673, 1988
21. Celsi G, Larsson L, **Seri I**, Savin, V, Aperia A. Glomerular adaptation in uninephrectomized young rats. *Pediatr Nephrol* 3:280-285, 1989
22. **Seri I**, Kone BC, Gullans SR, Aperia A, Brenner BM, Ballermann BJ. Influence of Na<sup>+</sup> intake on the dopamine-induced inhibition of renal cortical Na<sup>+</sup>-K<sup>+</sup>-ATPase. *Am J Physiol* 258(Renal Fluid Electrolyte Physiol 27):F52-F60, 1990

23. Ortola FV, **Seri I**, Downes SJ, Brenner BM, Ballermann BJ. Specific dopamine<sub>1</sub> receptor blockade inhibits the natriuretic, phosphaturic, and calciuric effects of atrial natriuretic peptide. *Am J Physiol* 259(Renal Fluid Electrolyte Physiol 28):F138-F146, 1990
24. **Seri I**. Dopamine and natriuresis. Mechanism of action and developmental aspects. *Am J Hypertension* 3:82S-86S, 1990
25. Aperia A, Bertorello A, Fryckstedt J, Holtbäck U, Hökfelt T, Meister B, **Seri I**. The significance of L-aminoacid decarboxylase and DARPP-32 in the kidney. *Am J Hypertension* 3:11S-13S, 1990
26. **Seri I**, Rudas G, Bors Zs, Kanyicska B, Tulassay T. The effect of dopamine on renal function, cerebral blood flow and plasma catecholamine levels in sick preterm neonates. *Pediatr Res* 34:742-749, 1993
27. **Seri I**. Effect of dopamine on indomethacin-induced impairment of renal function in preterm neonates. *J Pediatr* 123:167, 1993
28. **Seri I**. Cardiovascular, renal and endocrine actions of dopamine in neonates and children. *J Pediatr* 126:333-344, 1995
29. **Seri I**. Circulatory effects of dopamine in neonates. *J Pediatr* 127:843-844, 1995
30. **Seri I**. Cardiovascular, renal and endocrine actions of dopamine in neonates and children. *Clin Abstr Cur Therap Find* 14:46, 1995
31. **Seri I**. Development of urinary acidification. In *Fetal and Neonatal Physiology, 2nd Edition*, Polin RA and Fox WW (Eds), Philadelphia, WB Saunders Co, pp. 1726-9; 1998
32. **Seri I** and Evans J. Acid base, fluid and electrolyte management in the newborn. In: *Diseases of the Newborn, 7th Edition*, Taeusch HW, Ballard RA, Avery ME (Eds), Philadelphia, WB Saunders Co, 372-93, 1998
33. **Seri I** and Evans J. Clinical evaluation of renal and genitourinary disease. In: *Diseases of the Newborn, 7th Edition*, Taeusch HW, Ballard RA, Avery ME (Eds), Philadelphia, WB Saunders Co, 1131-5, 1998
34. **Seri I**, Evans J, Tulassay T. Renal insufficiency and acute renal failure. In: *Diseases of the Newborn, 7th Edition*, Taeusch HW, Ballard RA, Avery ME (Eds), Philadelphia, WB Saunders Co, 1158-64, 1998
35. Tulassay T, **Seri I**, Evans J. Renal vascular disease in the newborn. In: *Diseases of the Newborn, 7th Edition*, Taeusch HW, Ballard RA, Avery ME (Eds), Philadelphia, WB Saunders Co, 1177-87, 1998

36. **Seri I.** Section Editor for the “*Renal and Genitourinary System*” (Section XIV) of the *Diseases of the Newborn, 7<sup>th</sup> Edition*, Taeusch HW, Ballard RA, Avery ME (Eds), Philadelphia, WB Saunders Co, 1123-87, 1998
37. **Seri I**, Somogyvary Z, Hovanyovszky E, Kizsel J, Tulassay T. Developmental regulation of the dopamine-induced inhibition of pituitary prolactin release in the human preterm neonate. *Biol Neonate* 73:137-144, 1998
38. **Seri I**, Abbasi S, Wood DC, and Gerdes JS. Regional hemodynamic effects of dopamine in the sick preterm infant. *J Pediatr*, 133:728-34, 1998
39. Banks BA, **Seri I**, Ischiropoulos H, Merrill J, Rychik J, Ballard RA. Improved oxygenation with inhaled nitric oxide in severe bronchopulmonary dysplasia. *Pediatrics*, 103:610-8, 1999
40. **Seri I**, Abbasi S, Wood DC, Gerdes JS. Compensated shock and dopamine. *J Pediatr*, 135:135-6, 1999
41. **Seri I**, Evans J. Why do steroids increase blood pressure in preterm infants? *J Pediatr*, 136:420, 2000
42. Hariharan D, Manno CS, **Seri I**. Neonatal lupus erythematosus with microvascular hemolysis: Case report. *J Pediatr Hem Oncol* 22:351-4, 2000
43. Vasarhelyi B, Tulassay T, Ver A, Dobos M, Kocsis I, **Seri I**. Developmental changes in erythrocyte Na<sup>+</sup>,K<sup>+</sup>-ATPase isoform expression and function in the preterm and term neonate. *Arch Dis Child* 83:F125-F138, 2000
44. **Seri I**. Circulatory support of the sick newborn infant. In: *Seminars in Neonatology: Perinatal Cardiology*, Levene MI, Evans N, Archer N (Eds), London, WB Saunders Co, 6:85-95, 2001
45. **Seri I**. Treatment of Hypotension in the neonate. In: *Fetal and Neonatal Secrets*, Polin RA, Spitzer A (Eds), Philadelphia, WB Saunders Co, pp 38-42, 2001
46. **Seri I**, Evans J. Controversies in the diagnosis and management of hypotension in the newborn infant. *Current Opinion in Pediatrics*, 13: 116-123, 2001
47. **Seri I**, Tan, R, Evans J. The effect of hydrocortisone on blood pressure in preterm neonates with pressor-resistant hypotension *Pediatrics* 107:1070-4, 2001
48. **Seri I**, Spray TL. Foreword: Cardiovascular disease in the neonate. In *Clinics in Perinatology*, Wernovsky G, Rubenstein SD, (Eds), Philadelphia, WB Saunders Co, 28:xi-xii, 2001
49. **Seri I**. Neonatal Shock: Etiology, Pathophysiology and Management. *Prenatal Neonatal Med*, 6:15-26, 2001
50. **Seri I**, Abbasi S, Wood DC, Gerdes JS. Regional hemodynamic effects of dopamine in the indomethacin-treated preterm infant. *J Perinatol* 22:300-5, 2002

51. Friedlich P, Subramanian N, Garg M, Noori S, **Seri I**. High frequency jet ventilation in preterm neonates with hypoxemia refractory to high frequency oscillatory ventilation. *J Mat Fetal Neonat Med*, 13:398-402, 2003
52. Noori S, Friedlich P, **Seri I**. Pathophysiology of Neonatal Shock. In: *Fetal and Neonatal Physiology*, 3<sup>rd</sup> Edition, Polin RA, Fox WW, Abman S (Eds), Philadelphia, WB Saunders Co, pp772-82, 2003
53. Friedlich P, **Seri I**. Development of urinary acidification. In *Fetal and Neonatal Physiology*, 3<sup>rd</sup> Edition, Polin RA, Fox WW, Abman S (Eds), Philadelphia, WB Saunders Co, pp 1361-4, 2003
54. Noori S, Friedlich P, **Seri I**. Developmentally regulated cardiovascular, renal, and neuroendocrine effects of dopamine. *NeoReviews*, 4(10):E283-8, 2003
55. Erberich GS, Friedlich P, **Seri I**, Nelson, DM, Bluml S. Brain activation detected by functional MRI in preterm neonates using an integrated radiofrequency neonatal head coil and MR compatible incubator. *NeuroImage*, 20:683-92, 2003
56. Noori S, Friedlich P, **Seri I**. Cardiovascular and renal effects of dobutamine in the neonate. *NeoReviews*, 5(11):E22-6, 2004
57. **Seri I**. Section Editor for the “*Renal and Genitourinary System*” (Section XIV) of the, *Avery’s Diseases of the Newborn*, 8<sup>th</sup> Edition, Taeusch HW, Ballard RA, Gleason CA (Eds), Philadelphia, WB Saunders Co, 2004
58. **Seri I**, Ramanathan R, Evans J. Acid base, fluid and electrolyte management in the newborn. In: *Avery’s Diseases of the Newborn*, 8<sup>th</sup> Edition, Taeusch HW, Ballard RA, Gleason CA (Eds), Philadelphia, WB Saunders Co, in press, 2004
59. **Seri I**, Friedlich P, Evans J. Clinical evaluation of renal and genitourinary disease. In: *Avery’s Diseases of the Newborn*, 8<sup>th</sup> Edition, Taeusch HW, Ballard RA, Gleason CA (Eds), Philadelphia, WB Saunders Co, in press, 2004
60. **Seri I**, Friedlich P, Evans J, Tulassay T. Acute and chronic renal failure. In: *Avery’s Diseases of the Newborn*, 8<sup>th</sup> Edition, Taeusch HW, Ballard RA, Gleason CA (Eds), Philadelphia, WB Saunders Co, in press, 2004
61. Tulassay T, Ramanathan R, Evans J, **Seri I**. Renal vascular disease in the newborn. In: *Avery’s Diseases of the Newborn*, 8<sup>th</sup> Edition, Taeusch HW, Ballard RA, Gleason CA (Eds), Philadelphia, WB Saunders Co, in press, 2004
62. **Seri I**, Evans N. Management of neonatal hypotension. In: *Avery’s Diseases of the Newborn*, 8<sup>th</sup> Edition, Taeusch HW, Ballard RA, Gleason CA (Eds), Philadelphia, WB Saunders Co, in press, 2004

63. Bluml S, Friedlich P, Erberich GS, Wood J, **Seri I**, Nelson DM. MR imaging of newborns using a MR-compatible incubator with integrated radiofrequency coils. *Radiology*, in press, 2004
64. Behera S, **Seri I**. Meningitis in a newborn infant with urosepsis, negative blood cultures and initially normal cerebrospinal fluid findings. *J Mat Fetal Neonatal Med*, 2004
65. Sebald M, Friedlich P, Burns C, Stein J, Noori S, Ramanathan R, **Seri I**. Risk of need for extracorporeal membrane oxygenation support in neonates with congenital diaphragmatic hernia treated with inhaled nitric oxide. *J Perinatol*, 24:143-6, 2004
66. Noori S, **Seri I**. Pathophysiology of newborn hypotension outside the transitional period. *E Hum Dev* 81:399-404, 2005
67. **Seri I**, Noori S. Diagnosis and treatment of newborn hypotension outside the transitional period. *E Hum Dev* 81:405-411, 2005
68. Friedlich P, Noori S, Stein J, Shin C, Burns C, Ramanathan R, **Seri I**. Predictability model of the need for extracorporeal membrane oxygenation in neonates with meconium aspiration syndrome treated with inhaled nitric oxide. *J Pediatr Surgery*, 40:1090-3, 2005
69. Erberich SG, Panigrahy A, Friedlich P, **Seri I**, Nelson MD, Gilles FH. Somatosensory Lateralization in the Newborn Brain. *Neuroimage* 29:155-61, 2006
70. **Seri I**. Management of Hypotension and Low Systemic Blood Flow in the Very Low Birth Weight Neonate during the First Postnatal Week. *J Perinatol* 26(Suppl 1):S8-S13, 2006
71. **Seri I**. Systemic and pulmonary effects of vasopressors and inotropes in the neonate. *Biol Neonate* 89:340-2, 2006

## INVITED LECTURES

- 1985           • *"The Role of the Dopamine<sub>2</sub> Receptors in the Regulation of GFR and RBF in the Young and Adult Rat"* - Annual ESPR Meeting, Munich, Germany
- 1986           • *"Dopamine-induced changes in renal hemodynamics"* - Karolinska Institute, St. Göran's Children's Hospital, Lecture at the Swedish Pediatric Research Meeting, Stockholm, Sweden
- *"The role of RAAS in the Regulation of Na<sup>+</sup> Homeostasis in the Developing Kidney"* - Karolinska Institute, St. Göran's Children's Hospital, Lecture at the Swedish Pediatric Research Meeting, Stockholm, Sweden
- *"Cardiovascular, Renal and Hormonal Effects of Dopamine in the Sick Preterm Neonate"* - Seminars in Neonatology, State University of Connecticut, Hartford, CT

- *"Mechanisms of the dopamine-induced natriuresis"* - Seminars in Nephrology, State University of Connecticut, Hartford, CT
- 1989
- *"Dopamine and Natriuresis"* - 3<sup>rd</sup> International Conference on Peripheral Dopamine, Charlottesville, VA
  - *"Mechanisms of the Dopamine-Induced Na<sup>+</sup>,K<sup>+</sup>-ATPase Inhibition in the Proximal Tubule"* - Grand Rounds at the 1<sup>st</sup> Department of Pediatrics, SUSM, Budapest, Hungary
- 1992
- *"Molecular Biology of the Renal Dopamine Receptors"* - Grand Rounds at the Department of Pediatrics, SUSM, Budapest, Hungary
- 1993
- *"Neonatal Dopamine Therapy"* - Grand Rounds at the Department of Pediatrics, Albert Szent-Györgyi Medical School, Szeged, Hungary
  - *"Molecular Biology of the Renal Dopamine Receptors"* - Grand Rounds at the 1<sup>st</sup> Department of Pediatrics, SUSM, Budapest
  - *"Mechanisms of the Renal Action of Dopamine in the Preterm and Term Neonate"* - Seminar in Nephrology, Division of Nephrology, Children's Hospital, Harvard Medical School, Boston, MA
  - *"Age-dependent Cardiovascular, Renal and Endocrine Actions of Dopamine in the preterm and term neonate"* - Grand Rounds in Perinatology/Neonatology, Department of OB/GYN, Tufts University, Boston, MA
  - *"Mechanisms of the Cardiovascular, Renal and Endocrine Actions of Dopamine in the Preterm and Term Neonate"* - Seminar in Neonatology, Children's Hospital of Philadelphia, Philadelphia, PA
- 1995
- *"Cardiovascular Actions of Vasopressors in the Neonate"* - Seminar in Neonatology, Abington Hospital, PA
  - *"Endocrine Actions and Drug-Interactions of Dopamine Therapy in the Neonate"* - Grand Round at the Department of Pediatrics, SUSM, Budapest
  - *"Mechanisms of Action of the Dopamine-Induced Changes in the Renal Microcirculation"* - Neonatology Research Conference, Children's Hospital of Philadelphia and the University of Pennsylvania, Philadelphia, PA
  - *"Pathophysiology of Neonatal Shock"* - Physiology Conference, Neonatology Fellow Training Curriculum, The Children's Hospital of Philadelphia, PA
  - *"Fluid and Electrolyte Management in the Neonate"* - Pediatric Board Review Course, The Children's Hospital of Philadelphia, Philadelphia, PA
  - *"Management of Shock in the Neonate"* - Surgical Grand Rounds, Children's Hospital of Philadelphia, Philadelphia, PA
  - *"Pulmonary Hypertension in the Neonate"* - Salzburg Philadelphia Seminars, The American Austrian Foundation, Salzburg, Austria
  - *"Pathophysiology and Management of Neonatal Shock"* - Salzburg Philadelphia Seminars, The American Austrian Foundation, Salzburg, Austria
  - *"Renal Failure in the Neonate"* - Salzburg Philadelphia Seminars, The American Austrian Foundation, Salzburg, Austria

- 1996
- *“Alternative Ventilation for Persistent Pulmonary Hypertension of the Neonate”* - Third Annual Conference of Emergency Pediatric Transport, Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“Developmental Renal Physiology”* - Physiology Conference, Neonatology Fellow Training Curriculum, The Children’s Hospital of Philadelphia, PA
  - *“Interaction of Immaturity, Cardiorespiratory Disturbance, and Drugs in the Development of Postnatal Renal Decompensation”* - European Society of Pediatric Nephrology, 30<sup>th</sup> Annual Meeting, Keynote Lecture, Lausanne, Switzerland
  - *“Fluid and Electrolyte Metabolism”* - Pediatric Board Review Course, Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“Use of Dopamine and Dobutamine in the Newborn with Shock”* - “Advances in Neonatal-Perinatal Medicine” - Symposium, The Children’s Hospital of Philadelphia, Philadelphia, PA
- 1997
- *“Impact of Immaturity on the Pharmacology of Cardiovascular Drugs in Neonates”* - Annual Meeting on Neonatal Intensive Care at the University Hospital “Clinique Saint-Vincent”, Rocourt, Belgium
  - *“Pathophysiological Aspects of Modern Management of Neonatal Shock”* - Annual Meeting of the European Society of Pediatric Research; Invited speaker for Plenary Session, Szeged, Hungary
  - *“Mechanisms of Action of Dopamine and Dobutamine in the Treatment of neonatal Shock ”* – Advances in Neonatal-Perinatal Medicine, The Children’s Hospital of Philadelphia and the University of Pennsylvania, Philadelphia, PA
  - *“Pharmacologic Management of Shock in the Neonate”* – Clinical Conference at The Children’s Hospital of Boston, Harvard University, Boston, MA
  - *“Pathophysiology and Management of Neonatal Shock”* - Surgical Grand Rounds, Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“Mechanisms of Action of the Cardiovascular and Renal Effects of Dopamine: From the Bench to the Bedside”* - Grand Rounds at the Children’s Hospital of Morgantown, University of West Virginia, WV
- 1998
- *“Shock in the Neonate: Absolute and Relative Hypovolemia and the Role of Pressors”* – Anesthesia Grand Rounds, Children’s Hospital of Philadelphia, PA
  - *“Neonatal Shock: Pathophysiology and Treatment”* - Research Seminar, Department of Pediatrics, Division of Neonatology, Columbia Presbyterian University, New York, NY
  - *“The use of Dopamine in the Sick Preterm and term Neonate: From the Bench to the Bedside”* - Pediatric Grand Rounds at the Tulane Hospital for Children, Tulane University Medical Center and the State University of Louisiana, New Orleans, LA
  - *“Macro- and Micro-Hemodynamic Actions of Dopamine in the Cardiovascular and Renal Effects of the Drug in the Neonate”* – The Journal Club of the Louisiana Perinatal Society, New Orleans, LA

- *“Treatment of Neonatal Shock: Lessons from Physiology”* – Research Seminar at the Department of Pediatrics/Division of Neonatology, UMDNJ and Robert Wood Johnson Medical School, New Brunswick, NJ
  - *“Management of Shock in the Surgical Neonate”* - Surgical Grand Rounds, Children’s Hospital of Philadelphia, Philadelphia, PA
- 1999
- *“Cardiovascular and Renal Pharmacodynamic Effects of Dopamine”* – Research Seminar, Division of Neonatology, Wake Forest University Medical School, Winston-Salem, NC
  - *“Fluid- and Electrolyte Management in the Surgical Neonate”* - Surgical Grand Rounds, Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“Role of Adrenergic Receptor Down-Regulation in the Pathophysiology of Neonatal Shock: Therapeutic Implications”* – Keynote Speaker at the 75<sup>th</sup> Annual Meeting of the Hungarian Pediatric Society, SUSM, Budapest, Hungary
  - *“Regional Blood Flow in the Normotensive Preterm Neonate”* – Grand Rounds at the 1<sup>st</sup> Department of Pediatrics, SUSM, Budapest
  - *“Mechanisms of the Cardiovascular, Renal, and Endocrine Actions of Dopamine in the Neonate: An Update”* – Physiology Conference, The Cardiovascular Research Institute, University of California at San Francisco, CA
- 2000
- *“Treatment of Neonatal Shock: Why Steroids May Work?”* - Surgical Grand Rounds, Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“Pathophysiology of Neonatal Shock: What Do We Know?”* – Keynote Lecture at the Annual Meeting of the New Jersey Neonatal Society, New Brunswick, NJ
  - *“Neonatal Shock”* – Physiology Conference; Division of Neonatology, Thomas Jefferson University, Philadelphia, PA
  - *“Etiology, Pathophysiology and Treatment of Shock in the Neonatal Period”* – Pediatric Grand Rounds, University of Virginia, Charlottesville, VA
  - *“Neonatal Shock: Evidence-Based Approaches of Treatment”* – Neonatology Research Seminar, LA County Hospital, University of Southern California, Los Angeles, CA
- 2001
- *“Neonatal Shock: An Update”* - Surgical Grand Rounds, The Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“High Frequency Oscillatory Ventilation: A Review of Theory, Practical Guidelines and Clinical Studies in the Neonate”* – Research Seminar, Division of Pulmonology, The Children’s Hospital of Philadelphia, Philadelphia, PA
  - *“Etiology and Management of Neonatal Shock”* – CME Rounds, Department of Newborn Medicine, Abington Hospital, Abington, PA
  - *“Mechanisms of Action of Dopamine and the Treatment of Neonatal Hypotension”* – Pediatric Grand Rounds at SUNY at Stony Brook, New York, NY (May 23, 2001)
  - *“Neonatal Catecholamine Physiology”* – Pediatric and Neonatology Research Seminar at SUNY at Stony Brook, New York, NY (May 23, 2001)

- “*Acute Renal Failure in the Neonate: Etiology, Pathophysiology and Management*” – Invited Speaker; 5<sup>th</sup> International Symposium on Perinatal Nephrology; Lausanne, Switzerland (June 22, 2001)
- “*Peripheral Dopamine Physiology: Back to the Future*” – Pediatric Grand Rounds, LAC/USC Medical Center, Los Angeles, CA (December 18, 2001)

2002

- “*Neonatal Shock: Pathophysiology and Management*” – Grand Rounds at the Childrens Hospital Los Angeles, Los Angeles, CA (January 18, 2002)
- “*Mechanisms of Action and Clinical Application of Pressors and Inotropes in the Critically Ill Neonate*” – Cincinnati Neofest: Cardiac Function and Support in High-Risk Newborns; Cincinnati Children’s medical Center, Cincinnati, OH (March 1, 2002)
- “*High Frequency Oscillatory Ventilation – How It Works*” – 16<sup>th</sup> Annual Symposium on Clinical Advances in Respiratory Care, Queen of Angels-Hollywood Presbyterian Medical Center, Los Angeles, CA (April 4, 2002)
- “*Neonatal Shock: Pathophysiology, Management and Bedside Perspectives*” – The National Conference on Neonatal Nursing, Anaheim, CA (April 18, 2002)
- “*Fluid and Electrolyte Management in the Neonate*” – The National Conference on Neonatal Nursing, Anaheim, CA (April 18, 2002)
- “*Molecular Mechanisms of Peripheral Dopaminergic Actions*” – Research Conference, Division of Neonatology at the College of Physicians and Surgeons of Columbia University, New York, NY (April 18, 2002)
- “*Treatment of Neonatal Shock: Where is the Evidence?*” – Keynote Speaker at the Quarterly Neonatal Network Dinner Meeting of the College of Physicians and Surgeons of Columbia University, New York, NY (April 18, 2002)
- “*Treatment of Shock and Hypotension in the Neonate*” – Invited Speaker; Contemporary Forums: Principles of Neonatal Pharmacology; San Francisco, CA (June 26, 2002)
- “*Diuretics: Mechanisms of Action, Indications and Side Effects in Neonates*” – Contemporary Forums: Principles of Neonatal Pharmacology; San Francisco, CA (June 26, 2002)
- “*Perinatal Sequelae of Prematurity: What Your Patients Need to Know*” – The 5<sup>th</sup> Annual Summer Conference on Maternal-Fetal Medicine and Nursing, Yosemite, CA (August 7, 2002)
- “*Group B Streptococcal Infection: Prevention and Sequelae of Perinatal Transmission*” – The 5<sup>th</sup> Annual Summer Conference on Maternal-Fetal Medicine and Nursing, Yosemite, CA (August 8, 2002)
- “*Limits of Viability: Where Do We Stand?*” – Obstetric & Gynecology: The Cutting Edge. Annual Post-Graduate Course; USC-Keck School of Medicine Department of Obstetrics and Gynecology (October 3, 2002)
- “*Decision Making at the Limits of Viability*” – Grand Rounds, Department of Pediatrics, Keck School of Medicine, LAC+USC Medical Center (November 12, 2002)

2003

- “*Neonatal Shock: An Update on Management*” – Western Conference on Perinatal Research, Indian Wells, CA (January 16, 2003)
- “*What Are the Limits of Viability: How Small is Too Small?*” – Perinatal Medicine 2003, Maui, HI (February 17, 2003)

- *Predictors of Cerebral Palsy?* – Perinatal Medicine 2003, Maui, HI (February 19, 2003)
- *“Treatment of Shock in the Newborn”* – Current Topics and Controversies in Perinatal and Neonatal Medicine, California Association of Neonatologists, Los Angeles, CA (March 1, 2003)
- *“Neonatal Shock: Novel Therapeutic Approaches”* – Grand Rounds, Department of Pediatrics, Keck School of Medicine, LAC+USC Medical Center (May 13, 2002)
- *“Septic Shock in the Newborn: Pathophysiology and Management”* – Sepsis Club; Pediatric Academic Societies’ Annual Meeting, Seattle, WA (May 4, 2003)
- *“Special Concerns in the Neonate and Premature Infant with Congenital Heart Disease”* – CHLA Heart’s Institute 10<sup>th</sup> Anniversary Conference, Los Angeles, CA (June 14, 2003)
- *“Neonatal Shock – An Update”* – Pediatric Grand Rounds, Cedars Sinai Medical Center Conference, Los Angeles, CA (June 26, 2003)
- *“Neonatal Hemodynamics”* – Keynote Speaker; Annual Conference of the Hungarian Perinatal-Neonatal Association; Balatonfured, Hungary (September 12, 2003)
- *“How Small is too Small?”* – Invited Speaker at the Special Lecture Series at the 1<sup>st</sup> Department of Pediatrics, SUSM, Budapest
- *“Peripheral Dopaminergic Physiology”* – Anita Aperia Lifetime Achievement Celebration; Karolinska Institute, Astrid Lindgren Children’s Hospital, Stockholm, Sweden (September 26, 2003)
- *“Use of Dobutamine in the Neonate”* – NICDH Colloquia – Scientific Issues in Implementing Best Pharmaceuticals for Children Act (BPCA); NIH, Washington, DC (November 14, 2003)
- 2004 • *“Optimizing Oxygen Delivery in the Preterm Newborn”* – 4<sup>th</sup> March of Dimes Annual Conference: *Preventing Birth defects and Infant Mortality: The Epidemic of Prematurity*, Long Beach, CA (January 24, 2004)
- *“The Use of Pressors and Inotropes in the Treatment of Hypotensive Preterm Neonates”* – Neonatal Hemodynamics Club; Annual Meeting, Society of Pediatric Research, San Francisco, CA (May 1, 2004)
- *“Optimizing Oxygen Delivery in the Preterm Newborn”* – 4<sup>th</sup> March of Dimes Annual Conference: *Preventing Birth defects and Infant Mortality: The Epidemic of Prematurity*, Long Beach, CA (January 24, 2004)
- *“The Use of Pressors and Inotropes in the Treatment of Hypotensive Preterm Neonates”* – Neonatal Hemodynamics Club; Annual Meeting, Society of Pediatric Research, San Francisco, CA (May 1, 2004)
- *“Developmentally Regulated Hemodynamic Actions of Pressors, Inotropes and Steroids in the Neonate”* – 1<sup>st</sup> International Symposium on Neonatal hemodynamics; Los Angeles, CA (May 6, 2004)
- *“The Use of Inotropic Agents in the Newborn”* – 21<sup>st</sup> Annual Meeting of Neonatology: Perinatal Hemodynamics; Rocourt, Belgium (June 5, 2004)
- *“Treatment of neonatal Shock: An Update”* – Grand Rounds, Women’s and Children’s Hospital, LAC+USC Medical Center, Los Angeles, CA (July 10, 2004)
- *“Pressor, Lusitrope and Inotrope Use in the NICU setting”* – Evidence versus Experience; Best Practices in the Care of Preterm Infants; Chicago, IL (October 8, 2004)

- “*Pathophysiology and Treatment of Neonatal Shock*” - Congreso Argentino de Perinatología; Buenos Aires, Argentina (October 14, 2004)
- “*Limits of Viability*” - Congreso Argentino de Perinatología; Buenos Aires, Argentina (October 15, 2004)
- “*Management of Fluid and Electrolyte Homeostasis in the Critically Ill Neonate*” - Congreso Argentino de Perinatología; Buenos Aires, Argentina (October 15, 2004)
- “*Mechanisms of Action and Use of Inotropes and Vasopressors in the Neonate*” - Congreso Argentino de Perinatología; Buenos Aires, Argentina (October 16, 2004)
- “*Management of Neonatal Shock*” – “Neonatal Update III: Pearls from the Gulf Coast”; University of Texas, Moody Gardens, TX (October 22, 2004)
- “*Management of Fluid and Electrolyte Homeostasis in the ELBW Infant*” – “Neonatal Update III: Pearls from the Gulf Coast”; University of Texas, Moody Gardens, TX (October 23, 2004)
- “*Blood Pressure Support: Sympathomimetic Amines, Vasopressin and Steroids*” - Contemporary Forums: The Fetus and Newborn: State-of-the-Art Care; La Jolla, CA (October 27, 2004)
- “*The Limits of Viability: How Small is too Small?*” - Contemporary Forums: The Fetus and Newborn: State-of-the-Art Care; La Jolla, CA (October 28, 2004)
- “*Developmental Pathophysiology: Hypotension and Cerebral Blood Flow in the Neonate?*” – Invited Speaker at the Special Lecture Series at the 1<sup>st</sup> Department of Pediatrics, SUSM, Budapest

2005

- “*Systemic Blood Flow and Hypotension in the Preterm Neonate*” – 11<sup>th</sup> Annual Conference of CAN and the AAP District IX Section on Perinatal Pediatrics: Current Topics and Controversies in Perinatal and Neonatal Medicine; Coronado, CA (March 4-6, 2005)
- “*High Frequency Oscillatory Ventilation – The Basics*” – 18<sup>th</sup> Annual Symposium on Clinical Advances in Respiratory Care, Hollywood Presbyterian Medical Center, Los Angeles, CA (March 18, 2005)
- “*Evidence and experience in the Management of Neonatal Shock?*” – VON NIC/Q Annual Meeting; Portland, OR (April 15, 2005)
- “*Cellular mechanisms of the developmentally regulated cardiovascular and renal effects of dopamine*” – The Mead-Johnson Developmental Medicine Symposium on Developmental Hemodynamics; Aspen CO (June 3, 2005)
- “*Pathophysiology and treatment of shock: Lessons from the bedside*” – The Mead-Johnson Developmental Medicine Symposium on Developmental Hemodynamics; Aspen, CO (June 4, 2005)
- “*Development of the adrenergic/dopaminergic system*” – Annual “Honorary Doctorate” Course for PhD Students, Semmelweis University School of Medicine; Budapest Hungary (June 6-10, 2005)
- “*Management of Hypotension and Low Systemic Blood Flow in the Very Low Birth Weight Neonate during the first Postnatal Week*” – Evidence versus Experience in Neonatology, 2<sup>nd</sup> Annual Meeting; San Diego, CA (June 24, 2005)
- “*Management of Neonatal Hypotension*” – NeoPrep Lecture Series, Section on Perinatal Pediatrics, American Academy of Pediatrics; san

Diego, CA (September 20, 2005)

- “*Early Low Blood Pressure in the Very Low Birth Weight Infant – What is the appropriate intervention: Observation, Volume or Pressors?*” – New Concepts in Neonatal Intensive Care; Cornell University, Columbia University and New York University Medical Center, New York, NY (September 23, 2005)
- “*Determinants of Neonatal Hemodynamics: Blood Pressure, Cardiac Output or Both?*” – The 2005 Babson Lecturer in Neonatology; Doernbecher Children's Hospital, Oregon Health Sciences University, Portland, OR (September 28, 2005)
- “*Developmental Cardiovascular Physiology*” – PhD-Course at Semmelweis University School of Medicine, Budapest, Hungary (October 10-15, 2005)
- “*Pathophysiology, Monitoring and Treatment of Neonatal Cardiovascular Compromise*” – 18<sup>th</sup> Annual Phoenix Conference, Phoenix, AZ (November 3-4, 2005)
- “*Pressors, Inotropes and Lusitropes for the Treatment of Neonatal Cardiovascular Compromise*” – 18<sup>th</sup> Annual Phoenix Conference, Phoenix, AZ (November 3-4, 2005)
- “*Fluid and electrolyte homeostasis of the VLBW infant*” - Neonatology - 2005; International Conference at the University of Miami; Key Biscayne, FL (November 9-12, 2005)
- “*Limits of Viability*” - Neonatology - 2005; International Conference at the University of Miami; Key Biscayne, FL (November 9-12, 2005)
- “*Neonatal shock: Pathology, monitoring and treatment*” - Neonatology - 2005; International Conference organized by the University of Miami; Key Biscayne, FL (November 9-12, 2005)
- “*Cerebral Blood Flow in the Surgical Neonate*” – Grand Rounds, Department of Anesthesiology, Childrens Hospital Los Angeles, Los Angeles, CA (December 1, 2005)
- “*Neonatal Cardiovascular Compromise*” – Invited Speaker; Grand Rounds; Department of Pediatrics at UC Davis, Sacramento, CA (December 17-18, 2005)

2006

- “*New Insights into Left Ventricular Dysfunction Following PDA Ligation in the ELBW Neonate - Cardiology-2006; Scottsdale, AZ* (February 8-12, 2006)
- “*Inotropic Support of the Neonate*” - Cardiology-2006; Scottsdale, AZ (February 8-12, 2006)
- “*Systemic and Pulmonary Hemodynamic Effects of Vasopressor-Inotropes and Inotropes in the Neonate*” – 21<sup>st</sup> International Workshop on Surfactant Replacement Therapy, Oslo, Norway (June 1-3, 2006)
- “*Developmental Cardiovascular Physiology*” – Course Director, IPOKRaTES; Innsbruck, Austria (September 25-30, 2006)
- “*Defining Neonatal Hypotension: What is the Evidence?*”– Annual Conference at the Brigham & Women's Hospital, Harvard Medical School, Boston, MA (October 23, 2006)
- “*Hypotension in the VLBW Neonate: Definition, Diagnosis and Treatment*”– Grand Rounds, The Floating Hospital and Tufts University, Boston, MA (October 25, 2006)

- “*Diagnostic and Treatment Approaches of Neonatal Shock*”– Annual Neonatal Conference, The Children’s Hospital of the University of Oklahoma Health Sciences Center, Oklahoma City, OH (November 10, 2006)
- “*Neonatal Hypotension and Organ Blood Flow*”– Grand Rounds, The Children’s Hospital of the University of Oklahoma Health Sciences Center, Oklahoma City, OH (November 10, 2006)
- “*Management of Neonatal Hypotension: A Practical Guide*” and “Autoregulation of Cerebral Blood Flow in the Preterm Neonate: Clinical Relevance”– Keynote Speaker at the 51<sup>st</sup> Annual Congress of the Japan Society for Premature and Newborn Medicine, Omiya/Tokyo, Japan (November 26-28, 2006)