

CURRICULUM VITAE

NAME: Tove S. Rosen

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EDUCATION:

University of Rochester - B.A., 1961
State University of New York, Downstate Medical Center, School of Medicine - M.D., 1965

PROFESSIONAL EXPERIENCE

Traineeships:

Internship: Pediatrics - St. Luke's Hospital Center, New York, July, 1965 - June, 1966
Residency: Pediatrics - St. Luke's Hospital Center, New York, July, 1968 - June, 1970
Postdoctoral Fellowship - Neonatology: Columbia Presbyterian Medical Center, New York, January 1972 - July, 1974

Hospital Appointments:

Consultant in Pediatrics: U.S. Air Force, Pediatric Clinic,
Beale AFB, California, September 1966- July 1968, Act. Asst. Att. in Pediatrics: St. Luke's Hospital
Center, New York, August, 1970 - December, 1971
Asst. to Dir. of Pediatrics, Newborn Division: St. Luke's Hospital Center, New York, August, 1970-
December, 1971
Asst. Attending Pediatrician, Columbia Presbyterian Hospital, New York July 1973- June, 1982
Assoc. Attending Pediatrician, Columbia Presbyterian Hospital, New York, July, 1982- June 1992
Attending Pediatrician, Columbia Presbyterian Hospital, New York, June 1992 – June 2014

University Appointments:

Research Associate in Pediatrics: College of Physicians and Surgeons of Columbia University, New York,
July, 1973 - June, 1974
Instructor in Pediatrics: College of Physicians and Surgeons of Columbia University, New York, July 1974
- June, 1975
Assistant Professor of Pediatrics: College of Physicians and Surgeons of Columbia University, New York,
July 1975 - June, 1982
Associate Clinical Professor of Pediatrics: College of Physicians and Surgeons of Columbia University,
New York, July 1982 - June 1986
Associate Professor of Clinical Pediatrics: College of Physicians and Surgeons of Columbia University,
New York, July 1986-June 1992
Professor of Clinical Pediatrics: College of Physicians and Surgeons of Columbia University, New York,
July 1992-2013
Professor of Pediatrics, Columbia University Medical Center, New York, July 2013-June 30, 2014
Professor Emerita in Pediatrics, Columbia University Medical Center, New York, July 1, 2014-present

Board Certification:

Diplomate, American Board of Pediatrics, 1970
Diplomate, Subboard of Perinatal Medicine - Neonatology, 1975

PROFESSIONAL ACTIVITIES

Columbia University Committees:

Institutional Review Board, N.Y.S. Psychiatric Institute, November, 1980 – 1988.
Human Investigation Committee, Dept. of Pediatrics, College of Physicians and Surgeons of Columbia University Appointment: November, 1977 – 2003
Neonatal Bioethics Review Committee, member, Dept. of Pediatrics, College of Physicians and Surgeons, Columbia University, 1984 -present. Chairman, January 1998-2004
Quality Assurance Committee, Blood Bank and Transfusion Services, Presbyterian Medical Center, N.Y., 1993
Institutional Review Board, Committee #3, Columbia University Health Sciences, 2003-present.
Scholastic Oversight Committee for Pediatric Emergency medicine, 2008-2014

Divisional Committees:

Scholastic Oversight Committee 2010-present
Research Review Committee 2011-present
Supervisor of Neonatal Nurse Practitioners and House Physicians, NICU, 1999-2008
Supervisor of neonatal Billing, NICU, 1988-1997

Educational Activities:

Co-Director, Monthly Mortality and Morbidity Conference in Obstetrics, 1980-1999
Lecturer, General and Special Pharmacology Course, 1982- 1987.
Participant, Dept. of Pharmacology Journal Club.
Fourth Year Bioethics Elective- Lecturer, January 2005-present, Faculty in Center for Bioethics
Course Director of Neonatal Resuscitation Program, 1988-to present
Co-Director of Neonatal Simulation Program, 2010-2015
Member of Pediatric Simulation Teaching 2012-present

Non-University Activities:

Editorial Advisory Board, Therapeutic Drug Monitoring, American Association for Clinical Chemistry, Appointment: September 1978- 1986.
Co-Chairperson of Committee of Fetus and Newborn, AAP- District II, Chapter III, 1990-93.
Course Leader, Neonatal Resuscitation Program, AAP, Spring Meeting, April 14, 1992, N.Y., N.Y.
Neonatal Resuscitation, AHA and AAP, Regional Instructor and Course Director, 1988- present
National Institutes of Health, Extramural Study Section, Washington, D.C., March 1982
National Institute of Drug Abuse, Special Review Committee, Washington, D.C., June & October, 1992, October 1993, February & July 1994, February & June 1995
National Institute of Drug Abuse (NIH), Human Development Research Subcommittee (NIDA-H) Member, June 1996- to June 1998.
NIH, National Center for Research Resources, member of Site Visit Team, July 2000.
National Institute of Drug Abuse, Treatment Research Sub-Committee (NIDA-E), ad hoc member, July 1998, March 1999, March 2004, October 2004.
Member, Council of The New York Perinatal Society, July 1996-2003
Member of Coding Committee, American Academy of Pediatrics, Perinatal Section, October 2000- 2014
Member of Committee on Neonatal Global Resident Teaching Module 2000-present
AAP, Master Trainer in HBB and ECEB, 2014

GRANTS AND AWARDS:

National Institute on Drug Abuse, Award No. RO1 DA01663-0-05, Title: Kinetics and Effects of Methadone on Mother and Child, February, 1977 - October 1982, Principal Investigator.
National Institute on Drug Abuse, Award No. RO1 DA01663-06-08, Title: Longterm Effects of Prenatal Drug Exposure on Children, October, 1982 - March 1986, Principal Investigator.
National Heart, Lung and Blood Institute, Award No. HL12738, Title: Physiologic Pharmacology and its Clinical Applications, February 1979 – December 1983, Co-Investigator.

National Heart, Lung and Blood Institute, Award No. HL28958, Title: Developmental Approach to Cardiac Rhythm and Arrhythmias, July 1983 – June 1988, Co-Investigator
 National Heart, Lung and Blood Institute, Award No. HL28223, Title: Triggered Activity and Cardiac Arrhythmias, July, 1985 - June 1990, Co-Investigator
 National Heart, Lung and Blood Institute, Award No. NHLBI- 28958, Title: Developmental Approach to Cardiac Rhythms and Arrhythmias, July 1988 - June, 1992, Co-Investigator
 National Heart, Lung and Blood Institute, Award No. NHLBI-43731, (M. Rosen, PI) Ischemia, Neurohumors, Arrhythmias: Mechanisms and Diagnosis, July, 1990- June, 1995.
 National Institute on Drug Abuse, Award No. NIDA- RO1 DA06171-01A2, Title: Maternal Crack Use: Perinatal and Infancy effects, September 30, 1991- July 31, 1997, Principal Investigator.
 McKen Cattell Award, American College of Clinical Pharmacology, April, 1983
 Bawd Foundation, Co-Investigator, Study on the Mechanisms of Atrial Fibrillation and Means for its Prevention, 1999-01
 National Heart, Lung and Blood Institute RO1 HL67749-02 (M. Rosen, PI) 9/29/01-7/31/04
 Atrial Fibrillation: Mechanisms and Prevention Role: Investigator
 NIH/NHLBI R01 HL 67101-04: (Rosen, M: PI) Memory, Remodeling, and Ventricular Arrhythmias, Role: Co-Investigator, 07/05/01-05/31/06
 NIH/NIDA 1RO1 DA017820-01 (PI: B. Peterson) MRI of Infants Exposed Prenatally to Drugs of Abuse. Role: Co-PI, 4/2004- 4/2009.
 Guidant/(Rosen, M PI) 08/16/04-08/16/09 Contract, STEM CELLS & CARDIAC
 PACEMAKERS, INC., Role: Co-Investigator
 Sackler Gift (B. Peterson, PI) Sackler Institute 7/1/07– 6/30/09, The Effects of Prenatal Anti-Depression Medication on Early Development, Role: Co-Investigator
 HL94410-01 Rosen, MR (PI) 6/1/09-5/30/13 Co-Investigator, Novel Ion Channel Approaches to Re-entrant Arrhythmias
 Conte Centers for basic and Translational Research, 7/1/10-6/30/15, Gingrich J and Weissman M (PI's); Serotonergic Modulation of Brain Development: Genetic and Pharmacologic Influences on Structure, Function, and Behavior, Co-Investigator 7%,
 NIMH, The Effects of Prenatal Stress and Poor Nutrition on Brain and Cognition, PI Katherine Monk, 12/1/2011-11/30/2014, Co-Investigator, 8%T&E
 NIH 1R03 DA040887-01A1 (PI: Ruth Landau-Cahana) The epigenetic impact of in utero opioid exposure on Generation Z, Role: Significant Collaborator, 8/2016-8/2018

PUBLICATIONS

Scientific Papers:

1. Rosen TS, Pippenger CE: Disposition and association with withdrawal in the neonate. Intl J Add Dis, 2:169-78, 1975.
2. Pippenger CE, Rosen TS: Phenobarbital plasma levels in neonates, Perinatal Clinics 2:111, 1975.
3. Hutchings DE, Hunt HF, Towey JP, Rosen TS, Gorinson HS: Methadone during pregnancy in the rat: Dose level effects on maternal and perinatal mortality and growth in the offspring, J Pharm Exp Ther 197:171,1976.
4. Behrman RE, Rosen TS: Fetal Viability, Report to the National Commission for the Protection of Human Subjects, DHEW Publication No. (OS) 76-128, March,1975.
5. Rosen TS, Pippenger CE: Pharmacologic observations of the neonatal withdrawal syndrome, J Pediatrics 88:1044, 1976.
6. Rosen,TS, Lin M, Spector S, Rosen MR: Maternal, fetal and neonatal effects of chronic propranolol administration in the rat, J Pharm Exp Ther 208:118,1979.
7. Rosen TS: Drug disposition in neonates, Therapeutic Drug Monitoring, American Assoc for Clinical Chemistry, October, p.1-3, 1979.
8. Johnson HL, Rosen TS: Prenatal methadone exposure: Effects on behavior in early infancy, Pediatric Pharmacology 2: 113-120, 1982.

9. Danilo P, Rosen TS: Effects of terbutaline and isoproterenol on cardiac automaticity and contractility, J Clinical Pharmacology 22:223-230,1982.
10. Rosen TS, Johnson HL: Children of methadone-maintained mothers: Follow-up to 18 months of age, J Pediatrics 101:192-196, 1982, Reprinted in: AnnualProgress in Child Psychiatry and Child Development, 1983.
11. Rosen TS, Schimmel MS: "A short review of perinatal pharmacology," Bull NY Academy Medicine 59:669-677,1983.
12. Miranda JC, Schimmel MS, Mimms GM, Spinelli W, Driscoll JM, James LS, Rosen TS: Gentamicin absorption during prophylactic use for necrotizing enterocolitis, Dev. Pharmacol.Ther.7:303-306, 1984.
13. Johnson HL, Diano A, Rosen TS: 24-months neurobehavioral follow-up of children of methadone-maintained mothers, Infant Behav Dev. 6:115-123,1984, Reprinted in: Annual Progress in Child Psych. Child Develop, 1985.
14. Miranda JC, Schimmel MS, James LS, Spinelli W, Rosen TS: Gentamicin kinetics in Neonates, Pediatric Pharmacology 5:57-61, 1985.
15. Rosen TS, Johnson HL: Longterm effects of prenatal methadone maintenance. Presented at NIH-NIDA Technical Review Meetings, Washington, D.C.,September, 1984, In: Current Research on the Consequences of Maternal Drug Abuse, NIDA Research Monograph Series 59, DHHS Publication No. (ADM)85-1400,1985.
16. Fiks KB, Johnson HL, Rosen TS: Methadone-maintained mothers: Three year follow-up of parental functioning, Intl.J.Addictions 20:651-660, 1985.
17. Morikawa Y, Rosen TS, Hordof AJ, Rosen MR, Developmental changes in the effects of lidocaine and quinidine on the canine heart, Am.J.Cardiovasc.Pharm., 10:450, 1987.
18. Johnson HL, Glassman MB, Fiks KB, Rosen TS: Path analysis factors affecting 3-year developmental status in a group of high risk children, Infant Behavior Development 10:451,1987.
19. Rosen TS, Johnson HL, Drug-addicted mothers, their infants and SIDS, Ann. N.Y. Acad. Sci., 533:89, 1988.
20. Malfatto G, Rosen TS, Rosen MR, The response to overdrive pacing of triggered atrial and ventricular arrhythmias in the canine heart, Circulation, 77:1139, 1988.
21. Leichter D, Danilo P Jr., Rosen TS, Rosen MR, The conditions required for torsades de pointes in a canine model, PACE, 11:2235, 1988.
22. Almeida L, Anyane-Yeboa K, Grossman M, Rosen T, Myelomeningocele, Arnold-Chiari anomaly and hydrocephalus in focal dermal hypoplasia, Am J Med Genet, 30:917, 1988.
23. Johnson HL, Rosen TS, Difficult mothers of difficult babies; Mother-Infant interaction in multirisk population, J.Orthopsych., 60:281, 1990.
24. Malfatto G, Rosen TS, Steinberg S, Ursell PC, Sun LS, Daniel S, Danilo P Jr., Rosen MR, Sympathetic neural modulation of cardiac impulse initiation and repolarization in the newborn rat, Circ.Res, 66:427,1990.
25. Sandberg DE, Myer-Bahlberg HFL, Rosen TS, Johnson HL, Effects of prenatal methadone exposure on sex-dimorphic behavior in early school age children, Psychoneuro endocrinol, 15:77, 1990.
26. Malfatto G, Sun L, Rosen TS, Bradycardia and long Q-T interval in neonatal rats with delayed cardiac sympathetic innervation, J.Auton Nerv Syst, 30:2,1990.
27. Johnson HL, Glassman MB, Fiks KB, Rosen, TS, Resilient Children: Individual differences in developmental outcome of children born to drug abusers, J.Genet.Psych, 151:523-540, 1990.
28. Steinberg S, Legato MJ, Rosen TS, Malfatto G, Rosen MR, Beta adrenergic modulation of cardiac rhythm in a rat model of altered sympathetic neural development, JMCC, 23:47-52,1991.
29. Malfatto G, Steinberg SS, Rosen TS, Danilo P.Jr., Rosen MR, Experimental QT Interval prolongation, Ann. N.Y. Acad Sci, 644:74, 1992.
30. Sun LS, Legato MJ, Rosen TS, Steinberg SF, Rosen MR, Sympathetic innervation modulates rat ventricular impulse propagation and repolarization, Cardiovasc Res., 27:459, 1993
31. Rosen TS, Johnson HL, Prenatal Methadone Maintenance: Its effects on the fetus, neonate and young child, Dev. Brain Dysfunction, 6:317, 1993.
32. Stafford JR, Rosen TS, Merriam JC, Prenatal Exposure and the Development of the Human Eye, Ophthalmology, 101:301,1994.
33. Rosen TS, Johnson HL, Methadone Exposed Children: Findings at Six and seven years, Archives of Public Health, 54:191, 1997.

34. Datta-Bhutada S, Johnson HL, Rosen TS, Intrauterine cocaine/crack exposure: Neonatal Outcome, J Perinatology 18:183,1998.
35. Johnson HL, Johnson PB, Nusbaum BJ, Glassman MB, Bejarano A, Rosen TS, Depressive Symptomatology in African American, Dominican, Irish American and Puerto Rican Women, J Gender, Culture, and Race, J Gender, Culture, and Health 4:49, 1999.
36. Johnson HL, Nusbaum BJ, Bejarano A, Rosen TS, An ecological approach to development in children of prenatal drug exposure, J Am Orthopsychiatry,69:448, 1999
37. Sahni R, Gupta A, Ohira-Kist K, Rosen TS, Motion-Resistant Pulse Oximetry in Neonates, Archives of Pediatrics, Archives of Childhood, 88:505, 2003.
38. Chandra P, Rosen TS, Herweg B, Danilo P, Rosen MR, Left Atrial pacing to induce memory predisposes to atrial tachyarrhythmias, Cardiovasc Res 60:307, 2003
39. Chandra P, Rosen TS, Yeom ZH, Lee K, Kim H-Y, Danilo P, Rosen MR, Evaluation of KCB-328, a new Ikr blocking antiarrhythmic agent in the pacing induced canine model of atrial fibrillation, EUROPACE 6:384, 2004.
40. Lewis MW, Misra, S, Johnson H L, Rosen, T. S, Neurological and developmental outcomes of prenatally cocaine-exposed offspring from 12 to 36 months. American Journal of Drug and Alcohol Abuse 30:299, 2004.
41. Chandra P, Rosen TS, Herweg B, Plotnikov A, Danilo P, Rosen MR, The atrial gradient as a potential predictor of atrial fibrillation, Heart Rhythm 2(4):404, 2005.
42. Sosunov EA, Anyukhosvsky EP, Hefer D, Rosen TS, Danilo P Jr., Janse MJ, Rosen MR, Region-specific, pacing-induced changes in repolarization in rabbit atrium: an example of sensitivity to the rare, J Cardiovasc Pharmacology 67(2): 274, 2005.
43. Lau DH, Clausen C, Sosunov EA, Shlapakova IN, Anyukhosky EP, Danilo P Jr., Rosen TS, Kelly C, Duffy HS, Szabolcs MJ, Chen M, Robinson RB, Lu J, Kumari S, Cohen IS, Rosen MR, Epicardial border zone overexpression of skeletal muscle sodium channel, SkM1, normalizes activation, preserves conduction and suppresses ventricular arrhythmia: an *in silico*, *in vivo*, *in vitro* study, Circulation, on line 12/22/ 2008
44. Lewis MW, Phillips G, Bowser M, DeLuca S, Kim J, Johnson L, Rosen TS, Cocaine- exposed infant behavior during Still-Face test: risk factor analyses, Am J Orthopsychiatry 79:60, 2009
45. Lau DH, Clausen C, Sosunov EA, Shlapakova IN, Anyukhovsky, Danilo P Jr, Rosen TS, Kelly CW, Duffy HS, Szabolcs MJ, Chen M, Robinson RB, Lu J, Kumari S, Cohen IS, Rosen MR. Epicardial border zone overexpression of skeletal muscle sodium channel, SkM1, normalizes activation, preserves conduction and suppresses ventricular arrhythmia: an *in silico*, *in vivo*, *in vitro* study. Circulation 2009;119:19-27.
46. Gerard J.J. Boink, MSc*; Jia Lu, PhD*; Helen E. Driessen, BSc; Lian Duan, MD; Eugene A. Sosunov, PhD; Evgeny P. Anyukhovsky, PhD; Iryna N. Shlapakova, MD; David H. Lau, MD; Tove S. Rosen, MD; Peter Danilo, PhD; Zhiheng Jia, PhD; Nazira Ozgen, MD, PhD; Yevgeniy Bobkov, BSc; Yuanjian Guo, PhD; Peter R. Brink, PhD; Yelena Kryukova, PhD; Richard B. Robinson, PhD; Emilia Entcheva, PhD; Ira Cohen, MD, PhD; Michael R. Rosen, MD, Effect of Skeletal Muscle Na⁺ Channel Delivered Via a Cell Platform on Cardiac Conduction and Arrhythmia Induction, Circ Arrhythm Electrophysiol 5:831, 2012.
47. Gerard J. J. Boink, David H. Lau, Iryna N. Shlapakova, Eugene A. Sosunov, Evgeny P. Anyukhovsky, Helen E. Driessen, Wen Dun, Ming Chen, Peter Danilo, Tove S. Rosen, Nazira Özgen, Heather S. Duffy, Yelena Kryukova, Penelope A Boyden, Richard B. Robinson, Peter R. Brink, Ira S. Cohen, Michael R. Rosen, SkM1 and Cx32 improve conduction in canine myocardial infarcts yet only SkM1 is antiarrhythmic, Cardiovascular Research, 94:450, 2012:
48. Boink, GJJ, Duan L, Nearing BD, Shlapakova IN, Sosunov EA, Anyukhovsky EP, Bobkov E, Kryukova Y, Ozgen N, Danilo P, Cohen IS, Verrier RL, Robinson RB, Rosen MR. HCN2/SkM1 Gene Transfer Into Canine Left Bundle Branch Induces Stable, Autonomically Responsive Biological Pacing at Physiological Heart Rates. JACC. 2013; 61: 1192-1201.
49. Harleton E, Besana A, Comas GM, Danilo Peter Jr., Rosen TS, Argenziano M, Rosen MR, Robinson RB, Feinmark SJ, Peri-Operative Atrial Fibrillation Is Associated with Phosphorylation-Dependent Inhibition of Task-1, submitted to J Biol Chem 288:2829, 2013
50. Marisa N. Spann, Ph.D., M.P.H, Ravi Bansal, Ph.D. , Tove S. Rosen, M.D. , Bradley S. Peterson, M.D. Morphological features of the neonatal brain support development of subsequent cognitive, language, and motor abilities submitted 2013, Human Brain Mapping 35:4459-74, 2014
51. Spann MN, Serino D, Bansal R, Nati G, Toth Z, walsh K, Chian IC, Sanchez-Pena, Hao X, Liu J,

- Kangarlu A, Liu F, Duan Y, Shova S, Fried J, Tau GZ, Rosen TS, Peterson B, The Effects of Exposure to regional Anesthesia during Labor and Delivery on Neonatal Brain Structure, *Magnetic Resonance Imaging*. 33:213, 2015
52. Erin Harleton, Alessandra Besana, Parag Chandra, Peter Danilo, Jr., Tove Rosen, Michael Rosen, Michael Argenziano, Richard Robinson, and Steven Feinmark, TASK-1 Current Is Inhibited by Phosphorylation during Human and Canine Chronic Atrial Fibrillation, *AJP-Heart and Circulatory Physiology*, 308:H126, 2015, DOI 10.1152/ajpheart.00614.2014, pubmed 25437921
53. Marilyn W. Lewis, Liyun Wu, Stacy Saunders-Adams, Kathleen G. Ezell, Danielle Hiance, Helen L. Johnson, and Tove S. Rosen, Cocaine-Exposed Toddler Caregiver Dyads during Free Play at 24 Months, *Journal of Human Behavior in the Social Environment*, 25:246, 2015.
54. Magee M, Farkouh-Karolesky C, Rosen TS, Improvement of Immediate performance, in Neonatal Resuscitation through Rapid Cycle Deliberate Practice Training, *J Grad Educ*, 10:192, 2018
55. Serino D, Peterson B, Rosen TS, Psychological functioning of women taking illicit drugs during pregnancy and growth and development of their offspring in early childhood, *J Dual Diagnosis*, in press 2018, DOI 10.1080/15504263.2018.1468946 pubmed 29694295
56. Marisa N. Spann, Ravi Bansal, Xuejun Hao, Tove S. Rosen & Bradley S. Peterson, Prenatal socioeconomic status and social support are associated with neonatal brain morphology, toddler language and psychiatric symptoms, *Child Neuropsychology*, 26:2, 170-188, 2020
DOI: 10.1080/09297049.2019.1648641,
57. Peterson, Tove Rosen, Sherry Dingman et.al, Associations of Maternal Prenatal Drug Abuse With Measures of Newborn Brain Structure, Tissue Organization, and Metabolite Concentrations *JAMA Pediatr*. 2020;174(9):831-842. doi:10.1001/jamapediatrics.2020.
58. Cristin M. Holland, Kiarra Alleyne, Arline Pierre-Louis, Ravi Bansal, Angeliki Pollatou, Kristiana Barbato, Bin Cheng, Xuejun Hao, Tove S. Rosen, Bradley S. Peterson, Marisa N. Spann; Utilizing Maternal Prenatal Cognition as a Predictor of Newborn Brain Measures of Intelligence brain, *Child Neuropsychology*, in press 2023

Book Chapters/Reviews:

- Rosen TS: Disposition and association of methadone. In: Drug Abuse in Pregnancy and the Neonatal Effects, J.L. Rementeria (ed.) C.V. Mosby, St. Louis, 1977.
- Rosen TS: Infants of addicted mothers. In: Neonatal- Perinatal Medicine, R.E. Behrman, F. Faranillo (eds.) (2nd edit.), 1977, A. Fanaroff, R. Martin (eds.) (3rd edit.), C.V. Mosby, St. Louis, 1983.
- Schimmel MS, Rosen TS: "Neonatal Pharmacology," *Resident & Staff Physician*, 29(9):77-81, 1983.
- Rosen TS: Infants of addicted mothers. In: Neonatal-Perinatal Medicine, edited by A.A. Fanaroff and R.J. Martin, (4th edit.), C.V. Mosby Co., St. Louis, Missouri, 1987.
- Rosen, TS: Infants of addicted mothers, In: Neonatal- Perinatal Medicine, edited by A.A. Fanaroff and R.J. Martin, (5th edition), C.V. Mosby Co., St. Louis, Missouri, 1992.
- Rosen MR, Malfatto G, Hordof AJ, Rosen TS, Abnormal impulse initiation in human atrium: In Atrial Arrhythmias: Current Concepts and Management, edited by P. Tobul and Albert Waldo; Mosby Year Book Inc., St. Louis, Missouri, p.131-140, 1990.
- Rosen MR, Steinberg SF, Malfatto G, Rosen TS, Modulation of ventricular impulse initiation and repolarization by sympathetic innervation, In: Cardiac Electrophysiology, Circulation, and Transport, edited by Samuel Sideman, Rafael Beyar and Andre Kleber, Kluwer Academic Publishers, Norwell, Mass., p. 169-178, 1991.
- Rosen, TS: Infants of addicted mothers, In: Neonatal-Perinatal Medicine, edited by A.A. Fanaroff and R.J. Martin, (6th edition), C.V. Mosby Co., St. Louis, Missouri, 1997.
- Bhatta S, Rosen TS, Infants of drug dependent mothers, Current Pediatric Therapy 16, edited by FD Burg, JR Ingelfinger, ER Wald and RA Polin, W.B. Saunders, Philadelphia, Pa., 1998
- Rosen TS, Bhatta S, Infants of Drug Dependent Mothers in Workbook in Practical Neonatology, edited by RA Polin, MC Yoder, and FD Burg, 3rd edition, WB Saunders, Philadelphia Pa, 2001
- Rosen TS, Rosen JN, Homecare in the socially at-risk infants, Guidelines to Homecare, AAP, March, 2002

Rosen, TS, Bateman D: Infants of addicted mothers, In: Neonatal-Perinatal Medicine, edited by A.A. Fanaroff and R.J. Martin, (7th edition), C.V. Mosby Co., St. Louis, Missouri, 2002.

Rosen TS, Bateman D: Neonatology in Principles of Gender Specific Medicine, edited by Marianne Legato, MD, Elsevier 2004, p 3-11.

Rosen TS, Infants of Drug Addicted Mothers, PocketMedicine/Neonatology, V.2.0, edited by Drs. Polin & Lorenz, 2008

Rosen TS, Bateman D: Neonatology in Principles of Gender Specific Medicine, edited by Marianne Legato, MD, Elsevier, 2010

Valverde-Rosen J, Rosen TS, Comprehensive home-care program for socially high –risk infants in “Guidelines for Pediatric Home Care”, Eds: Russell Libby and Sonia Imaizumi, Published by AAP, 2010

Rosen TS, Prenatal Exposure to Substances of Abuse, in Succinct Pediatrics, AAP Publication, in press

ABSTRACTS AND PRESENTATIONS:

Rosen TS, Pippenger CE: Neonatal methadone withdrawal syndrome: Correlation with plasma methadone concentration and maternal methadone dosage. Presented at the Society for Pediatric Research Meeting, May, 1974.

Rosen TS, Pippenger CE: Studies of maternal and neonatal plasma concentrations and their correlation with clinical symptomatology. Presented at First Intl. Toxic. Meetings, Montreal, Quebec, August, 1974.

Rosen TS, Pippenger CE: Phenobarbital dose and plasma level in the neonate, Presented at the Society for Pediatric Research Meeting, May, 1975. In: Pediatric Research, April, 1975.

Danilo P, Alonso MB, Rosen TS, Rosen MR: Effects of terbutaline and isoproterenol on cardiac automaticity and contractility. Presented at the American Heart Meeting, Anaheim, Calif., November, 1975.

Hutchings DE, Hunt HF, Towey JP, Rosen TS, Gorinson HS: Effects of prenatal methadone administration on maternal and perinatal mortality and growth. Presented at Society of Neuroscience 5th Annual Meeting, New York City, 1975.

Hutchings DE, Hunt HF, Towey JP, Rosen TS, Gorinson HS: Methadone during pregnancy: Assessment of behavioral effects on the rat offspring. Presented at the Intl Society for Developmental Psychobiology, New York, N.Y., 1975.

Dangman B, Rosen TS: Plasma magnesium levels in the neonate. Presented at the Society for Pediatric Research Meeting, 1977. In: Pediatric Research 11:415, April, 1977.

Rosen TS, Potter LS, Reiss G, Rosen MR: Effects of chronic propranolol administration on the fetal and newborn rat, Pediatric Research 2(4):421, 1977.

Rosen TS, Potter L, Lin M, Spector S, Rosen MR: Fetal and neonatal serum and tissue propranolol levels: Effect on atrial automaticity and catecholamine responsiveness. Presented at Amer. Heart Assoc. Meeting, 1977. Circ.Supp 6(4):157, 1977.

Rosen TS: Methadone disposition and withdrawal and its treatment. Presented at the Conference on Genetic, Perinatal and Developmental Effects of Abused Substances sponsored by NIDA, Airlie, Va., March 1979.

Rosen TS, Wasserman G: One year follow-up of infants born to methadone-maintained mothers. Pediatric Research 14(4), April, 1980.

Rosen TS, Mill J, Rosen MR: Effects of propranolol administration on SHR rats and their newborns, Pediatric Research 15(4), Part II 184, April, 1981.

Johnson HL, Rosen TS: Prenatal methadone exposure: Factors affecting severity of withdrawal, Pediatric Research 15(4), Part II, April, 1981.

Johnson HL, Rosen TS: Methadone exposure in utero: Effects on infant behavior. Pediatric Research, 15(4):63, Part II, April, 1981.

Johnson HL, Rosen TS: Effects of maternal methadone intake during pregnancy on children's early intellectual performance. Presented at the Eastern Psychological Association Conference, New York City, April, 1981.

Johnson HL, Rosen TS: Prenatal methadone exposure and early development. Presented at International Conference on Infant Studies, Austin, March, 1982.

Rosen TS, Johnson HL: In utero methadone exposure: Three year follow-up. Presented at Society for Pediatric Research Meeting, Washington, D.C., Ped Res 17:130A, 1982

Johnson HL, Rosen TS: Children of methadone-maintained mothers: 24-month follow-up. Invited presentation, American Psychological Association Annual Convention, Anaheim, August 1983.

Rosen TS: Neonatal pharmacology. Invited presentation, American College of Clinical Pharmacology, Philadelphia, Pa., October, 1984.

Schimmel MS, Mimms GM, Miranda J, Koenig E, Rosen TS Driscoll JM, Oral gentamicin: Prevention of necrotizing enterocolitis, Poster presentation, Society of Pediatric Research Meetings, May 1985, Ped. Res. 19: 354A, 1985.

Johnson HL, Rosen TS: Longterm follow-up of children of methadone-maintained mothers: Individual differences in response to perinatal risk. Presented at Eastern Psychological Association Meeting, Boston, March, 1985.

Rosen TS, Johnson HL: Pregnant cocaine abusers and their infants. Ped Res 19:179A, 1985.

Rosen TS: Development of Infants Born to Women Using Psychoactive Agents. Invited presentation, IV World Congress of Biological Psychiatry, Philadelphia, Pa., September, 1985.

Morikawa Y, Hordoff A, Rosen T, Rosen M: Developmental changes in effects of lidocaine and quinidine. Proc. 2nd World Congress of Cardiology, Springer-Verlag, New York, p.14, 1985.

Morikawa Y, Hordof A, Rosen T, Rosen M: Developmental changes in dose and plasma concentration of lidocaine and quinidine. Presented at American College of Cardiology Scientific Session, March, 1986.

Johnson HL, Schwartz VK, Rosen TS, Temperamental characteristics of infants born to drug abusers: Do maternal and observer ratings agree? Presented at the Eastern Psychological Association Meetings, March 1986.

Rosen, TS, Johnson HL: Maternal drug abuse and its relationship to the neurodevelopmental outcome of the offspring, Soc. Ped. Res., May 1986. Published in Ped. Res., April, 1986.

Rosen TS, Long term follow-up of children born to mothers on methadone-maintenance, presented at Substance Abuse Symposia, Fordham School of Social Work, May 1987.

Rosen, TS, Johnson HL, Maternal drug addiction, their infants, and SIDS, presented at SIDS conference, Villa Omo, Como, Italy, May 1987.

Malfatto G, Rosen TS, Rosen MR, Triggered coronary sinus arrhythmias, presented at American Heart Assoc. Scient. Meetings, Nov. 1987.

Johnson HL, Rosen TS, Difficult babies or difficult mothers: Mother-Infant interaction in multi-risk population, presented at the American Orthopsychiatry Ass. Meetings, March, 1988.

Malfatto G, Rosen TS, Sun L., Steinberg SF, Danilo P, Rosen MR, Sympathetic innervation in neonatal rats induce GTP regulatory protein that modulates a adrenergic effects on ventricular automaticity, Abst. #1401 Ped. Res. 23:435A, 1988. Presented at the SPR-APS meetings May 1988, Washington, DC.

Rosen TS, Leopold HB, Danilo P Jr., The effects of cocaine on the isolated fetal and adult guinea pig heart, presented at The American Heart Assoc. Scient. Meetings Nov. 1988.

Malfatto G, Steinberg S. Rosen TS, Sun L, Rosen MR, Long Q-T interval and abnormal adrenergic receptor-effector coupling, Presented at the American Heart Assoc. Scientific Meetings, Nov. 1988.

Zauk A, Rosen TS, Consequences of in-utero exposure to "Crack" in the premature infant, Ped. Res., 25:237A (Abst.# 1406), 1989.

Sun LS, Rosen TS, Legato MJ, Rosen MR, Sympathetic innervation modulates conduction and the alpha-1 adrenergic effect of repolarization in the rat heart, presented at FASEB, 1991.

Rosen T, Danilo P Jr., The Effects of Norcocaine on the Fetal and Adult Guinea Pig Heart, Ped Res, 31:238A (Abst.#1413), 1992.

Stafford JR, Rosen T, Merriam J, Neonatal Ophthalmologic examinations and antenatal cocaine exposure, Ped Res, 31: 238A, (Abst.#1333), 1992.

Meadow W, Lantos J, Katznelson J, Mendez D, Higgs R, Driscoll J, Rosen T, The ethics and practice of cardiopulmonary resuscitation (CPR) in very low birthweight (VLBW) infants: Is the juice worth the squeeze and how bitter is the after-taste?, Ped Res, 31:25A, (Abst.#136), 1992.

Rosen T, Johnson H, Crack/Cocaine Use: Perinatal Effects, Ped. Res., 35:252A, Abst.#1496, 1994.

Rosen TS, Johnson HL, Prenatal Methadone Exposure: 6 & 7 Year Follow-Up, First International Congress Parenthood & Drug Abuse, Brussels, Belgium, June 8-11, 1994, Presenter and Discussant.

Johnson HL, Nusbaum B, Rosen TS, The ecology of behavior problems in a group of 2 year-olds living in poverty, NAEYC, presented December 1995.

Johnson HL, Bejaramo A, Nusbaum B, Rosen TS, Early Communicative Behavior: The Impact of Maternal Ethnicity, Substance Abuse, and Childrearing Beliefs, presented at Headstart Third National Research Conference, June, 1996.

Johnson HL, Johnson PB, Rosen TS, Depressive symptoms in Puerto Rican and African American women, presented at the Eastern Psychological Society Meetings, Philadelphia, Pa., March 30, 1996.

Johnson HL, Rosen TS, A developmental perspective on the functioning of young children with prenatal drug exposure, presented at Am Ass Orthopsych, Spring 1998.

Misra S, Johnson HL, Rosen TS, Neurological and developmental outcomes of cocaine exposed infants followed up from 12 months to 3 years, Presented at the AAP Annual Meeting- Section on Perinatal Pediatrics, Washington, DC, 1999.

Rosen TS, Misra S, Mortality and Morbidity of the Extremely Premature Infant, presented at PAS/AAP Joint Meeting, Boston, Mass., May 2000.

Chandra P, Herweg B, Rosen TS, Danilo P, Rosen MR, Altered activation induces atrial memory and atrial tachyarrhythmias in canine heart, presented at the Meetings of the American Heart Association, New Orleans, La., Nov. 2000.

Sahni R, Gupta A, Rosen TS, Motion resistant oximetry during circumcision in neonates, presented at PAS/AAP Joint Meeting, Boston, Mass., May 2000.

Chandra P, Herweg B, Rosen TS, Danilo P, Rosen MR, Altered activation induces atrial memory and atrial tachyarrhythmias in canine heart, presented at the Meetings of the American Heart Association, New Orleans, La., Nov. 2000.

Gupta A, Sahni R, Ohira-Kist K, Lando T, Rosen T, Non-Invasive Analgesia for Circumcision: EMLA+Sucrose vs Ibuprofen, Presented at the Pediatric Academic Societies' Annual Meeting, Baltimore, MD. Abst #2033, 2001.

Chandra P, Rosen TS, Herweg B, Plotnikov A, Danilo P Jr., Rosen MR, Evolution of the Atrial Gradient May Predict a Propensity to Atrial Tachyarrhythmias, poster presentation at Am. Heart Ass. Meetings, October 2001.

Chandra P, Rosen TS, Herweg B, Plotnikov A, Danilo P Jr., Rosen MR, Atrial memory: Association with Atrial Fibrillation, Platform Presentation, NASPE Meetings, May 2002.

Gupta A., Rosen MR, Rosen TS, Plasma gonadal steroid levels influence the electrocardiographic QT interval in the neonatal heart, Poster Presentation at Pediatric Academic Societies' Annual Meeting, May, 2002.

Ammari, A, Rosen, TS, A new schedule of gentamicin in neonates, Eastern Society for Pediatric Research,, podium presentation, March 2003.

Ammari, A, Rosen, TS, A new schedule of gentamicin in neonates, Pediatric Academic Societies' Annual Meeting, Seattle, Wa., poster presentation, 2003.

Chandra P, Sosunov E, Anyukhovskiy E, Patberg KW, Sun LS, Rosen MR, Rosen TS, AT-1 Receptor blockade accelerates developmental changes in ventricular repolarization, NASPE, Washington, DC. Poster presentation, May 2003.

Chandra P, Rosen TS, Herweg B, Plotnikov AN, Danilo P Jr., Rosen MR, Atrial gradient and effective refractory period as predictors of atrial fibrillation in a canine model, NASPE, San Francisco, Calif., May 2004.

Hefer D, Chandra P, Leung MW, Sun LS, Danilo P, Rosen MRR, Rosen TS, Effects of Sympathetic Nerve Growth and AT-1 Receptor Blockade on Ventricular Repolarization in the Postnatal Rat, APS/SPR Meetings, San Francisco Ca, May 2006.

Lewis, M.W., DeLuca, S., Bowser, M., Yi, L., Pan, X., Johnson, H.L., and Rosen, T.S., Caregivers' behavior during 6-month still-face tests: their association with developmental outcomes of 24-month cocaine-exposed and non-exposed males and females. Paper presented at Conference: Gender Differences in Effects of Prenatal Substance Exposure. New Brunswick, NJ: Institute for the Study of Child Development, and the Environmental and Occupational Health Sciences Institute. Sponsored by the American Psychological Association, Sept. 2006.

Anderson N, Rosen TS, Neonatal Pain Response in Infants Undergoing Repetitive Needle Sticks: Does Use of 30% Oral Glucose Prior to All Needle Sticks Alter an Infant's Habituation to Pain? Abstract #75105, #4454-1 Neonatology (Poster Presentation), PAS Meetings, Honolulu, Hawaii, May 2008.

Sudha Kashyap, Elizabeth Matthews, Tove Rosen, Rakesh Sahni, Stephen Holleran, Rajasekhar Ramakrishnan, Effects of Early Aggressive Nutrition on Growth and Neurodevelopment of Infants with Birth Weight (BW) <1250g: A Randomized Controlled Trial, Late abstract presentation #450132, platform session. PAS Meetings, Honolulu, Hawaii, May 2008

Comas GM, Besana A, Harleton E, Danilo P, Rosen TS, Glithero K, Argenziano M, Rosen M, Feinmark S, Robinson R, Association of Peri-Operative AF with Phosphorylation- Dependent Loss of Current from the

K2p Channel TASK-1, Heart Rhythm Society's 29th Annual Scientific Sessions, San Francisco, CA., May 14-17, 2008.

Sosunov EA, Anyukhovsky EP, Danilo P, Rosen TS, Shlapakova IN, Duffy HS, Lau DH, Chen M, Lu Z, Kumari S, Brink PR, Robinson RR, Cohen IS, Rosen MR, Transfecting the skeletal muscle sodium channel, SkM1, into myocardial infarct border zones increases V_{max}, normalizes activation and is antiarrhythmic, Abstract #3364(Poster Presentation), Heart Rhythm Society's 29th Annual Scientific Sessions, San Francisco, CA., May 14-17, 2008,.

David H. Lau, Irina N. Shlapakova, Eugene A. Sosunov, Evgeny P. Anyukhovsky, Peter Danilo, Tove S. Rosen, Caitlin Kelly, Heather S. Duffy, Matthias Szabolcs, Ming Chen, Richard B. Robinson, Chris Clausin, Jia Lu, Sinhu Kumari, Ira S. Cohen and Michael R. Rosen, Overexpression of Cx32, a pH insensitive gap junction subunit, in the canine epicardial border zone promotes monomorphic ventricular tachycardia, presented at the Heart Rhythm Society Meetings, May 2009, Boston, Mass.

Rosen TS, Zhou Z, Xu D, Bansal R, Peterson B. Brain Imaging Studies in Infants Exposed to Drugs of Abuse, Pediatric Academic Societies' Annual Meeting: Abstract # 754174, Baltimore, Maryland, 2009. Poster Presentation

Tove S. Rosen, MD, Ravi Bansal PhD, Zhenyu Zhou, Dongrong Xu, PhD, and Brad Peterson, MD, Brain Imaging in Infants Exposed to Marijuana In-Utero, Abstract ##752683, Pediatric Academic Societies' Annual Meeting, Vancouver, British Columbia, Canada, May, 2010. Poster Presentation

Gerard J Boink, David H Lau, Eugene A Sosunov, Iryna N Shlapakova, Evgeny P Anyukhovsky, Peter Danilo Jr, Tove S Rosen, Lian Duan, Columbia Univ, New York, NY; Jia Lu, Zhongju Lu, SUNY Stony Brook, Stony Brook, NY; Yelena Kryukova, Richard B Robinson, Columbia Univ, New York, NY; Ira S Cohen, SUNY, Stony Brook, NY; Michael R Rosen, Columbia Univ, New York, NY, Viral And Cell Delivery Of SkM1 In The Post Infarct Period Have Differing Effects On Arrhythmia Induction, AHA Scientific Session, November 17, 2010, poster presentation.

Pagar, D., Serino, D., Rosen, T., Bansal, R., Zhou, Z., Xu, D., & Peterson, B, Effects of perinatal depression on infants' brain development, attachment, and executive functioning. Poster presented at the Dean's Grant for Student Research Symposium, Teachers College of Columbia University, New York, New York, 2010

Serino D, Pagar D, Rosen TS, Bansal R, Zhou Z, Xu D, Peterson B, Effects of perinatal depression on infants' brain development, attachment, and executive functioning. Poster presented at the 57th Annual Convention of the American Academy of Child & Adolescent Psychiatry (AACAP), New York, New York, 2010

Driessen HE, Boink GJ, Lau DH, Sosunov EA, Shlapakova IN, Anyukhovsky EP, Danilo P, Rosen TS, Duan L, Lu J, Lu Z, Kryukova Y, Robinson RB, Cohen IS, Rosen MR, Efficient restoration of conduction in the canine epicardial border zone using SkM1-loaded mesenchymal stem cells. Heart Rhythm 2011; 8: S331 (Abstract PO4-123).

Serino D, Peterson B, Bansal R, Rosen, TS, The Effects of Maternal Depression on Early Brain and Neuro-Behavioral Development, Poster Presentation, PAS Meetings, Boston, Ma, May, 2012

Serino D, Heldrich J, I-Chin Chiang, Bansal R, Peterson B, , Rosen, TS, Affective Neurodevelopment of Infants Born to Depressed Mothers: From Birth to Two Years, New Research Poster presentation at AACAP 59th Annual Meeting in San Francisco, CA, October 23-28, 2011

Coughlin CO, Rosen TS, Neonatal Resuscitation Assessment through Advanced Simulation Scenarios and On-Line Testing, IPSSW International Pediatric Simulation Meetings, PAS, New York, NY, April 23-25, 2013

Coughlin CO, Rosen TS, Neonatal Resuscitation Assessment through Advanced Simulation Scenarios and On-Line Testing, PAS Meetings, Washington, DC, May 5-7, 2013

Marisa Spann, Ravi Bansal, Tove Rosen, and Bradley Peterson, Exposure to regional anesthesia during labor and delivery and its effect on neonatal brain morphology, Submitted to American College of Neuropsychopharmacology poster presentation 2013

Claassen CC, Rosen TS, Educational Intervention of NRP Refresher Training Improves Resident Performance in Simulated Neonatal Resuscitation, PAS Meetings, Vancouver, Canada, 2014 poster presentation

