

Biographical and Bibliographic Information

Dr. Ashima Madan

Present Position

Pediatrician and Neonatologist.
Healthy Start Pediatrics.

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Mountain View, CA 94040.
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Academic Appointments

07/92 – 06/93 Assistant Clinical Professor, Division of Neonatology
University of California, San Francisco, CA.
07/93 – 06/94 Assistant Research Physician, Department of Laboratory Medicine
University of California, San Francisco, CA.
7/1/93 – 6/30/97 Staff Physician
Division of Neonatology, Department of Pediatrics
Stanford University School of Medicine, Stanford, CA.
7/1/97-8/31/98 Acting Assistant Professor
Division of Neonatology, Department of Pediatrics,
Stanford University School of Medicine, Stanford, CA.
9/1/98 – 3/31/03 Assistant Professor of Pediatrics (Neonatal Medicine)
Stanford University School of Medicine, Stanford, CA.
4/01/03 – 7/31/09 Associate Professor of Pediatrics
Associate Chief of Research Programs, Division of Neonatal and Developmental
Medicine, Stanford University School of Medicine, Stanford, CA.

Clinical Appointments

1993 – 2009 Attending Neonatologist, Packard Children's Hospital, Stanford, CA.
1995 – 2000 Clinical Director, Neonatal Intensive Care Unit
El Camino Hospital, Mountain View, CA.
2000 – 2002 Medical Director, Neonatal Intensive Care Unit
El Camino Hospital, Mountain View, CA.
2003 – 2009 Director of Neonatal Transport
Packard Children's Hospital, Stanford, CA.
2004 – 2009 Associate Medical Director, Neonatal Intensive Care Unit
Packard Children's Hospital, Stanford, CA.
2009 Pediatric Consultant

- Pediatric Urgent Care and Maternal Infant Care Center, Santa Valley Medical Center, San Jose, CA.
- South Bay Urgent Care, Los Gatos, CA.
- Care First Pediatrics, Los Gatos CA.
- Milford and Triantos Pediatrics, Los Gatos, CA.
- Neela Parekh Pediatrics, Inc, Los Gatos, CA.
- Armann Pediatrics, Los Gatos, CA.

Education

1977-1982 Graduate Medical - Medical College Calcutta, India.
1975-1976 Pre-University - Lady Brabourne College, India.

1976-1977 Pre-Medical - Bethune College, India.

Postgraduate Training

07/89 – 06/92 Postdoctoral Fellow in Neonatal-Perinatal Medicine.
University of California, San Francisco School of Medicine.

07/87 – 06/89 Pediatric Residency.
University of California, San Francisco School of Medicine.

07/86 – 06/87 Pediatric Internship.
Cedars-Sinai Medical Center, University of California, Los Angeles School of Medicine.

02/83 – 02/84 Rotating internship - Internal Medicine, Surgery, Obstetrics & Gynecology and Pediatrics.
Madras Medical College, India.

Honors and Awards

Best Doctors Listing, 2009.
Stanford University Department of Pediatrics Honor Roll for teaching medical students, 2005, 2006, 2007.
Stanford University Department of Pediatrics Residency Program, Certificate of Excellence, 2008.
Outstanding Asian American Faculty Award, Stanford University, 2006.
Katharine McCormick Grant, 1998.
Trainee Investigator Award, American Federation for Clinical Research Foundation, 1992.
Merit Scholarships in 2nd, 3rd, 4th and 5th years of medical school for ranking in the top ten among 160 students each year, (1977-1982).
Silver medal, Forensic medicine. Ranked 1st among 600 students, 1980.
Silver Medal for 1st rank among 300 students in pre-medical program.

License and Board Certification

California Medical License 1987.
Neonatology Boards Board Certified – September 1993.
Re-certified – 2000, 2007.
Pediatric Boards Board Certified – October 1989.
Re-certified 2001, 2007.

Peer-Reviewed Articles

1. **Madan A** and Parissi M: Absent pulmonic valve presenting as congenital emphysema. *AJDC*,146:113; 1991.
2. **Madan A**, Heyman M, Townsend SF and Lavine J: Acute hemorrhagic gastritis in the newborn. *J of Perinatol*, 12:377; 1992.
3. **Madan A** and Curtin PT: A 24 base pair sequence 3' to the human erythropoietin gene contains a hypoxia responsive enhancer element. *PNAS*, 90:3928-32, 1993.
4. **Madan A**, Hatch SL, Lin C and Curtin PT: Regulated basal, inducible and tissue specific human erythropoietin gene expression in transgenic mice requires multiple *cis* DNA sequences. *Blood*, 85:2735-41; May 1995.
5. **Madan A**, Varma S and Cohen HJ: Cotransactivation of the 3' erythropoietin hypoxia inducible enhancer by the HIF-1 protein. *Blood Cells*, 23:169-176, 1997.
6. Benitz WE, Han M, **Madan A** and Ramachandran P: Serial Measurements of serum C-reactive protein in the diagnosis of neonatal infection. *Pediatrics*, 102:1-10, 1998.

7. Kochling T, Curtin and **Madan A**: Regulation of human erythropoietin gene induction of upstream flanking sequences in transgenic mice. *Br J of Hematology*, 103:960-68, 1998.
8. Zhang W, Contag PR, **Madan A**, Stevenson DR and Contag CH: Bioluminescence as a real time indicator in living mammals. *International Society of Oxygen Transplant to Tissue*, Vol. XXI, Plenum, 775-784, 1999.
9. Yang G, **Madan A** and Dennery PA: Maturational differences in hyperoxic AP-1 activation in rat lung. *Am J Physiol Lung Cell Mol Physiol*. 278 (2): L393-8, 2000.
10. Ravi R, Mukherjee B, Bhujwala Z, Sutter C, Artemov D, Zheng O, Dillahey L, **Madan A**, Semenza GL and Bedi A: Regulation of tumor angiogenesis by P53 indirect ubiquitin mediated degradation of HIF-1. *Genes and Dev*, 14: 34-44, 2000.
11. Olney RS, Hoyme HE, Roche F, Ferguson K, Hintz S, **Madan A**: Multiple anomalies associated with thalidomide-type limb deficiencies: a population-based study and new report of Schinzel phocomelia syndrome. *Am J Med Gen*, 103(4): 295-301, and 2001.
12. Hahn J, Henry M, Hudgins L, **Madan A**: Congenital hypomyelinating dystrophy presenting at birth. A case report and review of the literature. *Pediatrics*, 108(5): 95, 2001.
13. Morgan T, McDonald J, Anderson C, Ismail M, Miller F, Mao R, **Madan A**, Barnes P, Hudgins L, Manning M: Intracranial hemorrhage in infants and children with heredity hemorrhage telangiectasia (Osler-Weber-Rendu Syndrome). *Pediatrics* 109(1): E12, 2002.
14. **Madan A**, Holland S, Humbert J, Benitz WE: Racial differences in birth weight of term infants in a Northern California Population. *J Perinatol*, 22(3): 230-5, 2002.
15. Lee SY, **Madan A**, Furita GT, Colgan SP, Sibley E: Lactase gene transcription is activated in response to hypoxia in intestinal epithelial cells. *Mol Genet Metab* 75(1) 65-9, 2002.
16. **Madan A**, Varma S, Cohen HJ: Developmental stage specific expression of the alpha and beta subunits of the HIF-1 protein in the mouse and human fetus. *Mol Genet Metab*, 75(3): 244-9, 2002.
17. **Madan A**, Adams MM and Philip AGS: Frequency and timing of infants screened for sepsis: Effectiveness of sepsis screening protocols. *Clin Pediatr*, 42(1): 11-18, 2003.
18. **Madan A**, and Penn J: Animal models of oxygen-induced retinopathy. *Front Biosci*, 1(8): D1030-43, 2003.
19. **Madan A**, Lin C, Wang Z, Curtin PT. Autocrine Stimulation by Erythropoietin in Transgenic Mice Results in Erythroid Proliferation without Neoplastic Transformation. *Blood cells, Molecules, and Disease*, 30(1):82-89, 2003.
20. Gould JB, **Madan A**, Qin CQ, and Chavez G. Perinatal Outcomes in Two Dissimilar Immigrant Populations in the U.S.: A Dual Epidemiologic Paradox. *Pediatrics*. 111:e676-682, 2003.
21. **Madan A**, Huntsinger K and Benitz WE. Is screening of all ABO or Rh incompatible infants necessary to detect hyperbilirubinemia in newborn infants. *Clin Pediatr*, 43(1):63-68, 2004.
22. Anderson CG, Benitz WE, **Madan A**. Retinopathy of Prematurity (ROP) and Pulse Oximetry: A National Survey of Recent Practices. *J Perinatol*. 24(3):164-8, 2004.
23. **Madan A**, Jan JE, and Good WV. Visual Development in Premature Infants. *Developmental Medicine and Child Neurology*, 47:276-280, 2005.
24. **A Madan**, R Kumar, M Menninger-Adams, WE Benitz, Sharon L Geaghan and JA Widness. Reduction In Red Blood Cell Transfusions Using A Bedside Analyzer In Extremely Low Birth Weight Infants. *J of Perinatology*, 25:21-2, 2005.

25. Widness JA, **Madan A**, Grindeau L, Zimmerman B, Wong D, Stevenson DK. Reduction of RBC transfusions among preterm infants: Results of randomized trial utilizing an in-line Point of Care blood gas and electrolyte monitor. *Pediatrics* 115(5):1299-1306.2005
26. **A Madan**, BS Brozanski, C Cole, NL Oden, G Cohen, DL Phelps and the STOP-ROP Study Group. A Pulmonary Score for assessing the severity of neonatal chronic lung disease. *Pediatrics*, e450. 115(4):2005.
27. Hamrick SEG, McQuillen PS, **Madan A**, Ferriero DM. A Role for HIF-1a in Desferoxamine Neuroprotection. *Neuroscience Letters*,379:96-100, 2005.
28. **Madan A**, Palaniappan L, Urizar G, Wang Y, Fortmann SP, Gould JB. Sociocultural factors that affect pregnancy outcomes in two dissimilar immigrant groups in the United States. *J Pediatr*. 148(3):341-6. 2006.
29. Chock VY, Reddy VM, Bernstein D, **Madan A**. Neurologic events in neonates treated surgically for congenital heart disease. *J Perinatol*. 26(4):237-42. 2006.
30. Mirabella G, Kjaer PK, Norcia AM, Good WV, **Madan A**. Visual development in very low birth weight infants. *Pediatr Res*. 60(4):435-9. 2006.
31. **Madan A**, El-Ferzli G, Carlson SM, Whitin J, Najmi A, Schilling J, To-Sang Yu T, Lau K, Dimmitt R, Cohen HJ. A potential biomarker in the cord blood of preterm infants who develop retinopathy of prematurity. *Pediatr Res*. 61(2):215-21. 2007.
32. Lee H, Enright A, Benitz WE, **Madan A**. Postnatal cytomegalovirus infection from breast milk in preterm, low birth weight infants in a Northern California Population. *Ped Infectious Disease*. 26(3):276. 2007.
33. Lee HC, O-Lee TJ, **Madan A**, Koltai P. Oropharyngeal atresia in a preterm infant: A case report and review of the literature. *Int J Pediatr Otorhinolaryngol*. 71(9):1485-9 2007.
34. Penn JS, **Madan A**, Caldwell RB, Bartoli M, Caldwell RW, Hartnett ME. Vascular endothelial growth factor in eye disease. *Prog Retin Eye Res*. 27(4):331-71 2008.
35. Gerber RE, Kamaya A, Miller SS, **Madan A**, Cronin DM, Dwyer B, Chueh J, Conner KE, Barth RA. Fetus in fetu: 11 fetoid forms in a single fetus: Review of the literature and imaging. *J Ultrasound Med*. 27(9):1381-7. 2008. (erratum, Nov 2008).
36. Yang Q, Whitin J, Nayak N, Joseph L, Schilling J, Cohen HJ, Yu T, **Madan A**. Plasma biomarkers in a mouse model of preterm labor. *Pediatric Research*. Yang Q, Whitin JC, Ling XB, Nayak NR, Cohen HJ, Jin J, Schilling J, Yu TT, **Madan A**. *Pediatr Res*. 2009 Jul;66(1):11-6
37. Yang Q, Y El Sayed, GM Shaw, J Fu, J Schilling, **A Madan**. Second trimester serum cytokines in women who develop spontaneous preterm labor at less than 28 weeks gestation versus term labor. *Am J of Perinatology*. 2009 Jul 30. [Epub ahead of print]
38. Allibhai T, DiGeronimo R, Whitin J, Salazar J, Yu TT, Ling XB, Cohen H, Dixon P, **Madan A**. Effects of moderate versus deep hypothermic circulatory arrest and selective cerebral perfusion on cerebrospinal fluid proteomic profiles in a piglet model of cardiopulmonary bypass. *J Thorac Cardiovasc Surg*. 2009 Dec;138(6):1290-6. Epub 2009 Jul 29.
39. Q Yang, Y El-Sayed, Y Rosenberg-Hasson, DL Hirschberg, N Nayak, J Schilling, **A Madan**. Multiple cytokine profile in plasma and amniotic fluid in a mouse model of preterm labor. *Am J of Rep Imm*. 2009 Nov;62(5):339-47.
40. Sood BG, **Madan A**, Saha S, Schendel D, Thorsen P, Skogstrand K, Hougaard D, Shankaran S, Carlo W; On behalf of the NICHD Neonatal Research Network. Perinatal Systemic Inflammatory Response Syndrome and Retinopathy of Prematurity. *Pediatr Res*. 2010 Apr;67(4):394-400.

41. Lee HC, Ramachandran P, **Madan A**. Morbidity Risk at Birth for Asian Indian Small for Gestational Age Infants. *Am J Public Health*. 2010 May;100(5):820-2. Epub 2010 Mar 18.

Peer-Reviewed Manuscripts Submitted

1. **A Madan**, C Hou, MPettet, A M. Norcia, S Cassinelli, and WV.Good. Effect of Grade I and II Intraventricular Hemorrhage on Visuocortical Function in The Very Low Birth Weight Infant. *IOVS*, 2008.
2. Lee HC, Shanbhag G, **Madan A**. Perinatal outcomes in women with a low risk sociodemographic profile in India. Submitted to *Am J of Perinatology*.

Chapters, Reviews, Letters to Editor, Commentaries

1. **Madan A**. Contributing editor, Reviews. In: Yearbook of Neonatal and Perinatal Medicine. Fanaroff, Maisels, Stevenson, Eds. St Louis, MO. Mosby; 1999, 2000, 2002, 2003, 2004, 2005, 2006, 2007.
2. Stevenson D and **Madan A**. Jaundice in the Newborn. In: Rudolph's Textbook of Pediatrics, 21st Ed. (ed) Rudolph *et al*, pp 164-169. Appleton and Lange: Los Altos, CA., 2000.
3. **Madan A**. Hematological Problems in the Newborn. In: Rudolph's Textbook of Pediatrics, 22nd Ed. (ed) Rudolph *et al*,. Appleton and Lange: Los Altos, CA. *In Progress*.
4. **Madan A** and Stevenson DK. Clinical Features and Management of Unconjugated Hyperbilirubinemia in Term Infants. In: UpToDate. (eds) Ann Stark, 2001, 2004.
5. **Madan A** and Stevenson DK. Pathogenesis and Etiology of Unconjugated hyperbilirubinemia in the Newborn. In: UpToDate (ed) Ann Stark, 2001, 2004.
6. **Madan, A** and Stevenson DK. Newborn Jaundice. In: Comprehensive Pediatrics, 1st Edition. Lucy Osborn, Tom DeWitt, Eds. St Louis, Missouri. Harcourt Health Sciences; St. Louis, MO 2003.
7. **Madan A**, S Hamrick and Ferreiro D. CNS Injury and Neuroprotective strategies in the newborn. In: Diseases of the Newborn, 8th Ed. Ballard, Taeusch, Eds. Churchill Livingstone. 2003.
8. Good W and **Madan, A**. Disorders of the eye. In: Diseases of the Newborn, 8th Edition Ballard, Taeusch, Eds. Churchill Livingstone; 2003.
9. **Madan, A** and Stevenson DK. Newborn jaundice. In: Diseases of the Newborn, 8th Edition. Ballard, Taeusch, Eds. Churchill Livingstone; 2003.
10. **Madan A**. Angiogenesis and Anti-angiogenesis in the Neonate :Relevance to ROP. *Neoreviews*, 4:12;2003.
11. Gould JB, **Madan A**, Qin CQ, and Chavez G. Despite profile suggesting low risk, Indian – born U.S. mothers have high levels of some poor birth outcomes. Editorial in *Perspectives on Sexual and Reproductive Health*, 35(6):276-277, 2003.
12. **Madan A** and Good WV. Visual development and the Preterm infant. *Neoreviews*, 6(3); 2005.15-159.
13. **Madan A**. Hypoxia Inducible Factor-1 and VEGF Induction. In: Retinal and Choroidal Angiogenesis, 1st Edition. Penn JS, Eds. Springer; 2008.
14. **Madan A**. Section on Retinopathy of Prematurity, Immunization, Erythropoietin use in the Neonatal Intensive Care Unit guide, Packard Children's Hospital, 2003, 2004, 2005.
15. Gender differences and performance in science. *Science*. 2005 Feb 18;307(5712):1043. Muller CB, Ride SM, Fouke J, Whitney T, Denton DD, Cantor N, Nelson DJ, Plummer J, Busch-Vishniac I, Meyers C, Rosser SV, Schiebinger L, Roberts E, Burgess D, Beeson C, Metz SS, Sanders L, Watford BA, Ivey ES, Frank Fox M, Wettack

S, Klawe M, Wulf WA, Girgus J, Leboy PS, Babco EL, Shanahan B, Didion C, Chubin DE, Frize M, Ganter SL, Nalley EA, Franz J, Abruna HD, Strober MH, Zimmer Daniels J, Carter EA, Rhodes JH, Schrijver I, Zakian VA, Simons B, Martin U, Boaler J, Jolluck KR, Mankekar P, Gray RM, Conkey MW, Stansky P, Xie A, Martin P, Katehi LP, Miller JA, Tess Thornton A, Lapaugh A, Rhode DL, Gelpi BC, Harrold MJ, Spencer CM, Schlatter Ellis C, Lord S, Quinn H, Murnane M, Jones PP, Hellman F, Wight G, O'hara R, Pickering M, Sheppard S, Leith D, Paytan A, Sommer MH, Shafer A, Grusky D, Yennello S, **Madan A**, Johnson DL, Yanagisako S, Chou-Green JM, Robinson S.

16. **Madan A**. Phototherapy: old questions, new answers. Commentary. *Acta Paediatr*. 2005; 94(10):1360.
17. Lee C and **Madan A**. Hematological Problems in the Newborn. In: Diseases of the Newborn, 9th Edition. Ballard, Tausch, Eds. Churchill Livingstone (In Press)

Publications Resulting from Multicenter Trials; Role - Co-Principal Investigator or as Noted.

1. Palivizumab, a humanized respiratory syncytial virus monoclonal antibody, reduces RSV hospitalization in high-risk infants. A multicenter trial. *Impact-RSV Study Group Pediatrics*, 102(3):531-7, 1998 (PI).
2. *Early treatment for Retinopathy of Prematurity Cooperative Group*. Revised Indications for The Treatment of Retinopathy of Prematurity. Results of the Early treatment for retinopathy of prematurity randomized trial. *Arch Ophthalmol*, 121:1684-96, 2003.
3. Hardy RJ, Good WV, Dobson V, Palmer EA, Phelps DL, Quintos M, Tung B; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. Multicenter Trial of Early Treatment for Retinopathy of Prematurity: Study Design. *Controlled Clinical Trials*, 25(3):311-25, 2004.
4. Phelps DL. *ETROP Cooperative Group*. Treatment for Retinopathy of Prematurity Study: better outcomes, changing strategy. *Pediatrics*, 114(2):490-1, 2004.
5. Good WV, Hardy RJ, Dobson V, Palmer EA, Phelps DL, Quintos M, Tung B; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. The incidence and course of retinopathy of prematurity: Findings from the Early Treatment for Retinopathy of Prematurity study. *Pediatrics*. 116(1):15-23. 2005.
6. Bloom BT, Clark RH; *The Infasurf® Survanta® Clinical Trial Group*. Comparison of Infasurf® (calfactant) to Survanta® (beractant) in the Prevention and Treatment of Respiratory Distress Syndrome. *Pediatrics*. 116(2):392-9. 2005 (PI).
7. Jones JG, MacKinnon B, Good WV, Hardy RJ, Dobson V, Palmer EA, Phelps DL, Quintos M, Tung B; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. The early treatment for ROP (ETROP) randomized trial: study results and nursing care adaptations. *Insight*. 30(2):7-13. 2005.
8. Davitt BV, Dobson V, Good WV, Hardy RJ, Quinn GE, Siatkowski RM, Summers CG, Tung B; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. Prevalence of myopia at 9 months in infants with high-risk prethreshold retinopathy of prematurity. *Ophthalmology*. 112(9):1564-8. 2005.
9. VanderVeen DK, Coats DK, Dobson V, Fredrick D, Gordon RA, Hardy RJ, Neely DE, Palmer EA, Steidl SM, Tung B, Good WV; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. Prevalence and course of strabismus in the first year of life for infants with prethreshold retinopathy of prematurity: findings from the Early Treatment for Retinopathy of Prematurity study. *Arch Ophthalmol*. 124(6):766-73. 2006.
10. Good WV; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. The Early Treatment for Retinopathy Of Prematurity Study: structural findings at age 2 years. *Br J Ophthalmol*. 90(11):1378-82. 2006.
11. Astigmatism in the Early Treatment for Retinopathy Of Prematurity Study: findings to 3 years of age. Davitt BV, Dobson V, Quinn GE, Hardy RJ, Tung B, Good WV; *Early Treatment for Retinopathy of Prematurity Cooperative Group*. *Ophthalmology*. 2009;116(2):332-9.

12. Final visual acuity results in the early treatment for retinopathy of prematurity study. *Early Treatment for Retinopathy of Prematurity Cooperative Group*, Good WV, Hardy RJ, Dobson V, Palmer EA, Phelps DL, Tung B, Redford M. *Arch Ophthalmol*. 2010;128(6):663-71. Epub 2010 Apr 12.

Editorial Service

Reviewer

1995-present	Reviewer for <i>Investigative Ophthalmology and Visual Science</i>
1995-present	Reviewer for <i>Human Mutation</i>
1995-present	Reviewer for <i>Pediatrics</i>
1995-present	Reviewer for <i>Journal of Perinatology</i>
1995-2004	Reviewer for <i>Mosby Reviews</i>
2001-2006	Reviewer for Society for <i>Pediatric Research</i>
2005-2006	Reviewer for <i>Western Society for Pediatric Research</i>
2004- present	Ad hoc reviewer for <i>Acta Paediatrica</i> , <i>American Journal of Perinatology</i> , <i>Biology of the Neonate</i> , <i>Pediatric Infectious Diseases</i> , <i>Experimental Eye Research</i> , <i>Journal of Postgraduate Medicine</i> , <i>Journal of Pediatrics</i> , <i>Neoreviews</i> , <i>Journal of Proteomics</i> , <i>NICHD Network</i>

Research Support (Past)

Basic Research in Hematology - Oncology.

Role: Postdoctoral Fellow. **5T32 DK07636** (PI: Y. W. Kan). 1990-1992.

Oxygen Sensing and Regulation of Erythropoietin Gene Expression.

Role: PI. Clinical Investigator Development Award, National Institutes of Health. **K08 HL02966**. 09/30/93-08/31/98.

Effect of Hypoxia on Regulation of Gene Expression of Erythropoietin.

Role: PI. **March of Dimes** Basil O' Connor Research Scholar Award. 1995-1997.

Role of Hypoxia in Retinopathy in Infants

Role: PI. **Children's Health Research Fund**, Packard Children's Foundation. 1998.

Role of Hypoxia in Pathogenesis of Retinopathy of Prematurity.

Role: PI. Children's Health Center Research Award **NIH P30-HD33698** (PI: Cohen) 1998-2000.

Role of the HIF-1 Protein in Pathogenesis of Retinopathy of Prematurity.

Role: PI. **Knight's Templar Foundation**. 1999-2001.

Molecular Pathogenesis of Retinopathy of Prematurity.

Role: PI. **Juvenile Diabetes Foundatio**. 1999-2001.

Neuroprotective Effect of Deferroxamine on Neonatal Hypoxic Brain Injury.

Role: PI. **Packard Foundation** Children's Health Initiative. 1999-2001.

Prevention of Anemia in Premature Infants by In-line Monitoring.

Role: PI. **Via Medical Corporation**. 2001-2003.

Infasurf Survanta Clinical Project.

Role: Site PI for El Camino Hospital. **Forest Pharmaceuticals/Pediatrix**. 2001.

Early Treatment of Retinopathy of Prematurity

Role: Site PI. National Institutes of Health, 5U10 EY12471-05 (PI: Hardy)

6/30/00 – 9/29/04.

Early Detection of Vision Impairment in High Risk Infants.
Role: PI. **Smith Kettlewell Eye Research Institute**. 2003.

Serum Proteomic Patterns in Necrotizing Enterocolitis in Preterm Infants.
Role: PI. **Pediatric Research Fund, Stanford**. 2005.

The Effect of Prematurity on Visual Development.

Role: PI. Secondary Sponsor: Smith Kettlewell Eye Research Institute.
Primary Sponsor: NEI RO1 (PI: Good). 07/01/05 - 06/30/09.

Early Treatment of Retinopathy of Prematurity.

Role: Site PI. National Institutes of Health 5U10 EY12471-05 (PI: Hardy)
6/30/04 – 9/29/09.

Serum Proteomic Patterns in Preterm labor.

Role: PI. Pediatric Research Fund, Packard Children's Hospital. 2006-2007.

Participation without support:

Developmental and Neonatal Biology Training Program (PI: Stevenson).

Role: Research Preceptor. NIH/NICHD 2T32 HD 07249-22. 05/01/04 - 04/30/09.

Multicenter Network of Neonatal Intensive Care Units (PI: Van Meurs)

Role: Co-investigator. NICHD HD 27880-14. 5/01/06 – 4/30/11.

General Clinical Research Center (GCRC) (PI:Pizzo)

NCRR/ NIH 5 M01 RR000070. In kind support on following ongoing project.

- Use of Visual Evoked Potentials and Quantitative MRI-Diffusion Tensor Imaging for Early Detection of Corticalvisual Impairment in Infants (PI: Madan).

Grant Review

2004	Served on study section, Environmental Protection Agency (EPA).
2005	March of Dimes Foundation.
2005, 2009	Burroughs-Wellcome Trust.
2006	Scientific Advisory Board, Lucentis, Genentech.
2007	Fight for Sight.

University Public and Professional Service

2002-2004, 2007	Freshman Academic Advisor, Stanford University
2008	
2000	Member of the Admissions Panel, Stanford School of Medicine.
2003-2009	Member of Institutional Review Board (IRB) for Human Subjects Research, Stanford University.
2003-present	Director, Neonatal Transport, Packard Children's Hospital.
2004-present	Pharmacy and Therapeutics Committee, Packard Hospital.
2006-present	Transfusion Committee.
2005-2009	Pediatric Intern Selection Committee, Department of Pediatrics, Stanford.

Other Professional Service

1995-2002	Pediatric Executive Committee, El Camino Hospital, Mountain View, CA.
1995-2001	Perinatal Committee, El Camino Hospital, Mountain View, CA.

2001	Capital Expenditure Committee, El Camino Hospital, CA.
2001	Chairperson, Perinatal Committee, El Camino Hospital, CA.
2006	Scientific Advisory Board, Lucentis, Genentech, San Francisco.

Membership in Professional Organizations (Past and Present)

American Academy of Pediatrics (AAP).
California Association of Neonatologists (CAN).
Society for Pediatric Research (SPR).
Western Society for Pediatric Research (WSPR).
Association for Research in Vision and Ophthalmology (ARVO).
Perinatal Section, Section of AAP.
American Association of Physicians of Indian Origin (AAPIO).
American Society of Hematology.

Service in Professional Organizations

2001–present	Abstract reviewer, Annual meeting of the Pediatric Academic Societies.
2006–present	Abstract reviewer, Annual Meeting of the Western Society for Pediatric Research.
2006	Fellows award committee, Society for Pediatric Research.
2000	Moderator for session “ <i>Late Breaker Neonatology abstracts</i> ” at the Annual meeting of the Society for Pediatric Research.
2001	Moderator for session on <i>Retinopathy of Prematurity (ROP)</i> at the Annual Meeting of the Society for Pediatric Research.
2005	Moderator at “ <i>Clinical Trials</i> ” presentation session at the Annual Meeting of the Pediatric Academic Societies.
2005	Moderator/Facilitator at <i>Retinopathy of Prematurity</i> session, Society for Pediatric Research Meeting.
2006–present	Moderator at “ <i>Developmental Biology</i> ” session at Western Society for Pediatric Research Meeting.
2007	Moderator at “ <i>ROP- A to Z</i> ” Abstract presentation session at Annual Meeting for Society for Pediatric Research.
2007–present	Expert Group member, <i>Global Burden of Diseases, Injuries, and Risk Factors Study</i> .
2009	Reviewer, Abstracts in ‘Original Science’ section, Annual Meeting of the Society for Pediatric Research

Teaching and Mentoring

2000	Developed Neonatal Intensive Care Unit Clerkship for Stanford University medical students at El Camino Hospital.
2000	Developed and led internship program for high school students in the Neonatal Intensive Care Unit at El Camino Hospital.
2001 –2008	Fellow’s Lecture series, Neonatal Medicine, Stanford University School of Medicine.
2002–2008	Pediatric Resident Board review series, Pediatric Residency Training Program, Stanford University School of Medicine.
2003	Mentor for high-school students, Harker School, San Jose, CA.
2003-2007	Organize annual Career Day at Stanford, Castilleja High School, Palo Alto, CA.
2003-2009	Peds 300A, Medical Student lecture series, Stanford School of Medicine.
2003-2009	Developed and organize monthly campus wide Seminar in Neonatal and Developmental Medicine Series, Stanford University School of Medicine.
2003-2009	Developed and organize monthly research club discussions for postdoctoral fellows sponsored by the Neonatal and Developmental Biology Award, Stanford University School of Medicine.
2004-9/08	Preceptor for Research and Scholarship committees for Postdoctoral fellows in Neonatal and Developmental Medicine, Stanford.
2004-2009	Research Preceptor, Developmental and Neonatal Biology Training Program, NICHD,Stanford University School of Medicine (PI: Stevenson).

Students and Postdoctoral Fellows/Instructors Mentored (Partial List)

Meghan Mullins, Rahi Kumar, Asya Agulnik, Scott Carlson, Valerie Chock, Henry Lee, Christina Anderson, Reed Dimmitt, Solina Tith, Elizabeth Munro, Joyce Fu, George Ferzli, Latha Palaniappan, Shobha Stacks, Rashi Agarwal, Stephanie Smith, Taslim Allibhai, Qing Yang.

Selected Abstracts presented at National Meetings (From Total of 50)

Madan, A Bergeron, B, Stevenson, DK, and Penn JS: HIF-1 protein is increase in the retina of a neonatal rat model of retinopathy. Presented at the Association of Research in Vision and Ophthalmology Annual meeting; 1999. *IOVS*, 40(4): S975a; May 1999.

Hamrick S, **Madan A**, Ferriero D: Deferoxamine is neuroprotective to neonatal primary hippocampal cell cultures exposed to oxygen and glucose deprivation. Presentation at Society for Pediatric Research Annual Meeting, Baltimore; May 2001. *Ped Res*, 49:1868a; 2001.

Madan A and Gaynon M: Effect of higher levels of supplemental oxygen on the conversion rate of prethreshold retinopathy of prematurity (ROP) to threshold disease. Presented at Association of Research in Vision and Ophthalmology and the Society of Pediatric Research Annual Meeting, Baltimore; 2001. *Ped Res*, 49:2240a, 2001 and *IOVS*, 42: 3675, 2001.

Madan A, Mirabella G, Kjaer P and Good WV. Development of Visual Function in the Very Low Birth Weight Infant. Presented at Society for Pediatric Research Annual Meeting, San Francisco; 2004.

Chock V, Bernstein D, Reddy DV and **Madan A**. Neurologic events in neonates with congenital heart disease. Presentation at Society for Pediatric Research Annual Meeting, San Francisco; 2004.

Madan A, Ferzli G, Carlson S, Najmi A, Whitin J, Dimmitt R, and Cohen HJ. Serum Proteomic Patterns in Cord Blood of Very Low Birth Weight Infants. Presented at Pediatric Academic Societies' Annual Meeting, Washington, DC; 2005.

A Madan, C Hou, M Pettet, A M. Norcia, S Cassinelli, and W V.Good. Effect of Grade I and II Intraventricular Hemorrhage on Visuocortical Function in The Very Low Birth Weight Infant. Presented at Pediatric Academic Societies' Annual Meeting, Toronto; 2007.

T Allibhai, J Whitin, R DiGeronimo, HJ Cohen and **A Madan**. Biomarkers of cerebral injury in a neonatal pig model of cardiopulmonary bypass and circulatory arrest at 18°C and 25°C with and without selective cerebral perfusion. Pediatric Academic Societies' Annual Meeting, Honolulu, 2008.

BG Sood; **A Madan**; W Carlo; on behalf of the NICHD Neonatal Research Network. Fetal Inflammatory Response Syndrome and Retinopathy of Prematurity – Is there a Relationship? Pediatric Academic Societies' Annual Meeting, Honolulu, 2008,

Selected Invited Presentations (From total: greater than 30)

Guest speaker “*The role of HIF-1 in Ocular Angiogenesis*” at the Western Regional Eye Conference in Taos, New Mexico, Aug 1999.

“*Shedding light on blindness*”, Pediatric Grand Rounds. Lucile Salter Packard Children's Hospital, Jan 2000.

“*Retinopathy in premature infants*”, Neonatology Grand Rounds. University of California, San Francisco School of Medicine. May 2000.

“*Review of Necrotizing Enterocolitis*”, Continuing Nursing Education Series. El Camino Hospital. Jan 2001.

“*Jaundice – Update*” Pediatric Grand Rounds. El Camino Hospital. Nov 2001.

"Hematological disorders in the newborn (Part I and II)", Neonatology Fellowship Lecture Series. Stanford University. Nov 2001.

"Jaundice in the newborn: Update", Tenth Annual Pediatric Update. Lucile Salter Packard Children's Hospital. July 2002.

Guest speaker at *'Retinal and Choroidal Angiogenesis Symposium'*. Oct 2004.

Faculty speaker, Mid Coastal Perinatal Program Outreach Program, Monterey, CA. *"Visual problems in preterm infants"*. Jan 2006.

Faculty Moderator, *"Clinical Trials"* presentation session at Society for Pediatric Research Annual Meeting. May 2005.

Faculty Moderator, *"Retinopathy of Prematurity"*, Poster session, Society for Pediatric Research Meeting. May 2005.

Faculty Moderator, *"Developmental Biology"* session at Western Society for Pediatric Research. Feb 2006.

"What's new in ROP". Fellow lecture series. Stanford University. March 2006.

"Sociocultural Factors and Perinatal Outcomes". Women's Health @ Stanford Lecture series, July 2006.

"Role of VEGF in Fetal Development". Scientific Advisory Board Meeting, Genentech, San Francisco, August 2006.

"Retinopathy of Prematurity", CME Perinatal Case Conference Series, Regional Medical Center, San Jose, CA. Nov 2006.

Faculty Moderator, *"Developmental Biology"* session at Western Society for Pediatric Research, Feb 2007.

Faculty Moderator at *"ROP- A to Z"* Abstract presentation session at Society for Pediatric Research Meeting. May 2007.

"Visual Problems in Preterm infants. Role of the Pediatrician". Pediatric Resident Board Review Series. July 2007.

Invited faculty discussant at *"Women and Medicine (WAM)"* round table, Stanford. 2007.

Invited international speaker on *"Retinopathy in premature infants –a review for Pediatricians and Neonatologists"* at National Neonatology Forum, India. Dec 2007.

Invited speaker, *"Women in Medicine. Work – Life Balance"* at Volunteers in Asia: Exploring Healthcare Program, Stanford, 2008.

Invited speaker, *"The Changing Face of ROP"*. Third Annual Conference, Innovations in Perinatal and Neonatal Care. Santa Clara Valley Medical Center. 2008.

Invited speaker, *"Use and Misuse of Oxygen in the Nursery"*, Pediatric Grand Rounds, CME meeting, Community Hospital of the Monterey Peninsula, Jan 2009.

Invited speaker, *"Follow care of the NICU Graduate"*, Pediatric Grand Rounds, CME meeting, Kaiser Permanente Group, March 2009.

Visiting Professor, Wilford Hall, USAF Medical Center, Tx. *"Update on ETROP guidelines for ROP"* and *"Plasma biomarker discovery using SELDI-TOF in Neonatology."* March 2009.

Invited speaker, "Retinopathy in Preterm Infants", Pediatric Grand Rounds, Children's Hospital Oakland, CA, March 2009.

"Biomarker discovery using Proteomics," University of Wisconsin. March 2009.

Invited speaker, "Retinopathy of Prematurity – An Update", Santa Clara Valley Medical Center, July 2009.

Faculty speaker, MCPOP, El Camino Hospital, 'Ambiguous genitalia in the newborn". July 2009.

Invited speaker, Ipokrates Lecture series, Manila, Philippines, Feb 2010.