

CURRICULUM VITAE

Tzong-Jin Wu MD

**Associate Professor
Department of Pediatrics
Division of Neonatology**

OFFICE ADDRESS:

Children's Corporate Center
999 N 92 St
Milwaukee, WI 53226

EDUCATION:

1982 - 1989 M.D., National Taiwan University Medical College, Taipei, Taiwan

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1989 - 1992 Resident, Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, R.O.C.
1992 - 1994 Fellow, Neonatology, National Taiwan University Hospital, Taipei, Taiwan, R.O.C.
1999 - 2002 Fellow, Neonatal-Perinatal Medicine, University of Alabama at Birmingham, Birmingham, AL
2002 - 2004 Resident, Pediatrics, University of Florida Health Science Center/Jacksonville, Jacksonville, FL

FACULTY APPOINTMENTS:

1994 - 1997 Attending, Pediatrics, Provincial Tao-Yuan Hospital, Tao-Yuan, Taiwan, R.O.C.
1997 Lecturer, Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, R.O.C.
1999 - 2002 Fellow Instructor, Pediatrics, University of Alabama at Birmingham Medical School, Birmingham, AL
2004 - 2006 Assistant Professor of Pediatrics, Pediatrics, University of Florida Health Science Center/Jacksonville, Jacksonville, FL
2006 - 2013 Assistant Professor of Pediatrics, Pediatrics, Neonatology, Medical College of Wisconsin, Milwaukee, WI
2013 - Present Associate Professor of Pediatrics, Pediatrics, Neonatology, Medical College of Wisconsin, Milwaukee, WI

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

2009 - Present Director, CME activity, Pediatrics, Neonatology, Medical College of Wisconsin, Milwaukee, WI

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

1994 - 1997 Director, Pediatric and Neonatal Intensive Care Unit, Provincial Tao-Yuan Hospital, Tao-Yuan, Taiwan, R.O.C

HOSPITAL STAFF PRIVILEGES:

1994 - 1997 Provincial Tao-Yuan Hospital, Tao-Yuan, Taiwan, R.O.C
1997 National Taiwan University Hospital, Taipei, Taiwan, R.O.C.
1998 - 2002 Cooper Green County Hospital, Birmingham, AL
1998 - 2002 The Children's Hospital of Alabama, Birmingham, AL
1998 - 2002 University of Alabama at Birmingham Hospital, Birmingham, AL
2004 - 2006 Baptist Medical Center South, St. Augustine, FL
2004 - 2006 Baptist Medical Center Beach, Jacksonville Beach, FL
2004 - 2006 Baptist Medical Center Downtown, Jacksonville, FL
2004 - 2006 Shands Hospital, Jacksonville, FL

2004 - 2006 Baptist Medical Center South, St. Augustine, FL
 2004 - 2006 Orange Park Medical Center, Orange Park, FL
 2004 - 2006 Memorial Hospital of Jacksonville, Jacksonville, FL
 2006 - Present Pediatrics, Children's Wisconsin, Milwaukee, WI
 2006 - Present Froedtert Memorial Lutheran Hospital, West Bend, WI
 2006 - 2015 Waukesha Memorial Hospital, Waukesha, WI
 2006 - Present Community Memorial Hospital, Menomonee Falls, WI
 2006 - Present Oconomowoc Memorial Hospital, Oconomowoc, WI
 2010 - 2015 Aurora Medical Center, Oconomowoc, WI
 2011 - 2015 Aurora Medical Center, Grafton, WI
 2019 - Present All Saints Hospital, Racine, WI

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Board of Pediatrics, Taiwan	1993	1997
Board of Neonatology, Taiwan	1994	1997
American Board of Pediatrics – General Pediatrics	2004	2014
American Board of Pediatrics – Neonatal-Perinatal Medicine	2005	2022

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
ECFMG Certificate	ECFMG	02/1996	None
Controlled Substance Registration Certificate	Alabama State Board of Medical Examiners	08/26/1998	12/31/2002
DEA Certificate	Dept. of Justice DEA	11/06/1998	05/31/2016
NRP Instructor	AAP	05/09/2000	01/27/2022

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Alabama License		08/26/1998	12/31/2002
Florida License		06/25/2004	01/31/2008
Wisconsin License		08/16/2006	10/31/2021

AWARDS AND HONORS:

1993 Professor Chen's Research Scholarship, Taiwan Pediatric Association
 1995 Mead-Johnson Research Award for Young Investigator, Taiwan Pediatric Association
 1997 Wei-Chuan Growth and Development Research Award, Taiwan Pediatric Association
 2007 Best Doctors in America 2007-2008
 2009 Best Doctors in America 2009-2010
 2017 Best Doctors in America 2017-2018
 2019 Best Doctors in America 2019-2020

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1989 - 1997 Taipei Medical Society
 1989 - 1997 Taiwan Pediatric Association
 1989 - 1997 Medical Association of Taiwan
 1994 - 1997 Society of Neonatology, R.O.C.
 1994 - 1997 Tao-Yuan Medical Society
 2002 - Present American Academy of Pediatrics (Fellow)
 2002 - Present AAP Section on Perinatal Pediatrics (Section Fellow)
 2005 - Present AAP Section on Breastfeeding (Section Fellow)
 2007 - Present AAP Wisconsin Chapter (Chapter Fellow)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Journal Review

03/2010 Pediatrics

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**Active****Peer Review**

Title:

Association between late fluid intake and risk of bronchopulmonary dysplasia in very low birth weight infants.

Pending**Peer Review**

Title:

Targeted protein fortification of human milk in preterm infants: effects on protein intake, growth, and body composition.

Prior**Peer Review**

Title:

Standard vs. Prolonged Courses of Indomethacin for Patent Ductus Arteriosus in Premature Infants
Professor Chen's Research Scholarship, The Pediatric Association of R.O.C
1993

Source:

Dates:

Title:

Stable Microbubble Test for Predicting the Occurrence of Respiratory Distress Syndrome

Source:

Mead-Johnson Research Award for Young Investigator, The Pediatric Association of R.O.C.

Dates:

1995

Title:

Persistent Pulmonary Hypertension of the Newborn Treated with Magnesium Sulfate in Premature Neonates

Dates:

1995

Source:

Wei-Chuan Growth and Development Research Award, The Pediatric Association of R.O.C.

Dates:

1997

Title:

Retinopathy of Prematurity in Very-Low-Birthweight Neonates: Epidemiology and Risk Factors

Dates:

1997

Title:

Comparison of the Outcome of Extremely-Low-Birth-Weight Infants between Two Periods

Dates:

1998

Title:	Early Outcome of Extremely Low Birth Weight Infants in Taiwan
Dates:	1998
Title:	A Comparison of Three Vitamin A Dosing Regimens in Extremely-Low-Birth- Weight Infants
Dates:	2003
Title:	Early Neonatal Hypotension in Premature Infants Born to Preeclamptic Mothers
Dates:	2006
Title:	Outcome of Extremely Preterm Infants Randomized at Birth to Different PaCO ₂ Targets during the First Seven Days of Life
Dates:	2006
Title:	Decreased Hepatic Ischemia-Reperfusion Injury by Manganese-Porphyrin Complexes
Dates:	2007
Title:	Obstetrics and Gynecology and Family Medicine Residents' Perceptions of Breastfeeding
Dates:	2009
Title:	Early Neutropenia is Not Associated with an Increased Rate of Nosocomial Infection in Very Low Birth Weight Infants
Dates:	2009
Title:	Standardized Line Care Under Guideline Recommendations Across Children's Hospital Neonatal Consortium (CHNC)NICUs
Dates:	2011

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

- Ru-Jeng Teng, Arlene Bulger, Tzong-Jin Wu, Joseph B. Philips III, Joseph S. Beckman., Nitrotyrosine Affects Proliferation, Enzyme Expression, and Prostaglandin Production by Neonatal Pulmonary Artery Endothelial Cells, PAS Annual Meeting, Baltimore, MD, 2001
- Namasivayam Ambalavanan, Arlene Bulger, Tzong-Jin Wu, Joseph Bond Philips III., Retinol Induces Apoptosis and Release of Peptide Growth Factors from Neonatal Lung Cells, PAS Annual Meeting, Baltimore, MD, 2001
- N. Ambalavanan, T. J. Wu, J. E. Tyson, K. A. Kennedy, C. Roane, Randomized Controlled Trial of Three Vitamin A Dosing Regimens in Extremely Low Birth Weight Infants, PAS Annual Meeting, Baltimore, MD, 2002
- Tzong-Jin Wu, Ziwei Wang, Bruce A. Freeman, Dale A. Parks., Reduction of Hepatic Ischemia-Reperfusion Injury By Manganese-Porphyrin Complexes., PAS Annual Meeting, Baltimore, MD, 2002

Ru-Jeng Teng, Namasivayam Ambalavanan, Tzong-Jin Wu, Arlene Bulger, Joseph B. Philips, Superoxide and Nitric Oxide Are Both Required for Nitrotyrosine-Mediated Apoptosis of Pulmonary Artery Endothelial Cells., PAS Annual Meeting, Seattle WA, 2003

Devyani D. Belsare, Ru-Jeng Teng, Renu Sharma, Tzong-Jin Wu, Robert D. Garrison, Recombinant Human Granulocyte Colony Stimulating Factor Does Not Prevent Nosocomial Infections in Very Low Birth Weight Infants with Early Neutropenia., PAS Annual Meeting, Washington DC, 2005

Ru-Jeng Teng, Tzong-Jin Wu, Renu Sharma, Robert D. Garrison, Mark L. Hudak., Early Hypotension Requiring Inotropes Is Associated with Severe Intraventricular Hemorrhage in Premature (GA 30 Weeks) Infants., PAS Annual Meeting, Washington DC, 2005

Ru-Jeng Teng, Patricia Williams, Tzong-Jin Wu, Mark L. Hudak., Is Sternal Transcutaneous Bilirubinometer Reading a Better Outpatient Screening Tool for Neonatal Hyperbilirubinemia., PAS Annual Meeting, Toronto, Canada, 2007

COMMITTEE SERVICE:

Medical College of Wisconsin

2007 - Present Member, Housestaff Education and Performance Review Committee, Neonatal-Perinatal Fellowship

2007 - Present Member, House Staff Evaluation and Promotion Committee for Neonatal-Perinatal Fellowship

2016 - Present Sudden Death in Young Advance Review Team, Children's Health Alliance of Wisconsin

Hospital

2007 - Present Member, Point-of-Care Testing Committee, Children's Hospital of Wisconsin

2007 - 2008 Member, Continual Service Readiness Committee, Children's Hospital of Wisconsin

2009 - Present Member, Institutional Review Board, Children's Hospital of Wisconsin

MEDICAL COLLEGE TEACHING ACTIVITIES:

Medical Student Education

2006 - 2009 Physical examination of newborns for 3rd-year medical students in FMLH

Resident and Fellow Education

2006 - 2009 Round-table discussion for fellows

2006 - Present Teaching rounds in NICUs in CHW and Waukesha Memorial Hospital

2006 - Present Precepting nurse practitioner students in NICUs in CHW and WMH

2008 - Present Back-to-basic lecture for fellows

Continuing Medical Education

2006 - Present Physiology conference, evidence-based review, journal club, mortality-morbidity conference for CHW and WMH, neo-surgery conference, and case conference

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

Meiqian Ma, Medical College of Wisconsin, 2009 - 2011 Master Clinician Track Mentor

Clinical/Research Fellows

Ruby Gupta, Medical College of Wisconsin, 2007 - 2010 SOC member

Residents

Danita Hahn, Medical College of Wisconsin, 2010 - Present Clinical research mentor

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Wu TJ, Teng RJ. Diffuse neonatal haemangiomatosis with intrauterine haemorrhage and hydrops fetalis. *Eur J Paediatr* 1994; 153:759-761.
2. Wu TJ, Teng RJ, Yau KIT. Persistent pulmonary hypertension of the newborn treated with magnesium sulfate in premature neonates. *Pediatrics* 1995; 96:472-4.
3. Tsao PN, Teng RJ, Wu TJ, Yau KIT, Wang PJ. Nonprogressive congenital unilateral ventriculomegaly. *Pediatr Neurol* 1996; 14:66-8.
4. Wu TJ, Teng RJ, Yau KIT. Transfusion-related acute lung injury treated with surfactant in a neonate. *Eur J Paediatr* 1996; 155:589-91.
5. Teng RJ, Wu TJ, Ho MM. Mumps infection complicated by transient hyperinsulinemic hypoglycemia. *Pediatr Infect Dis J* 1997;16:416-7.
6. Ambalavanan N, Wu TJ, Tyson JE, Kennedy KA, Roane C, Carlo WA. A comparison of three vitamin A dosing regimens in extremely-low-birth-weight infants. *J Pediatr* 2003 Jun;142(6):656-61.
7. Thome UH, Carroll W, Wu TJ, Johnson RB, Roane C, Young D, Carlo WA. Outcome of Extremely Preterm Infants Randomized at Birth to Different PaCO₂ Targets during the First Seven Days of Life. *Biol Neonate* 2006;90:218-25.
8. Teng RJ, Wu TJ, Sharma R, Garrison RD, Hudak ML. Early neonatal hypotension in premature infants born to preeclamptic mothers. *J Perinatol* 2006;26:471-475.
9. Wu TJ, Khoo N, Zhou F, Day B, Parks DA. Decreased hepatic ischemia-reperfusion injury by manganese-porphyrin complexes. *Free Radic Res* 2007;41:127-34.
10. Teng RJ, Wu TJ, Garrison RD, Sharma R, Hudak ML. Early neutropenia is not associated with an increased rate of nosocomial infection in very low birth weight infants. *J Perinatol* 2009;29:219-224.
11. Teng RJ, Chen RL, Wu TJ, Lin KS. Clover-leaf nucleus of atypical lymphocytes in CMV-mononucleosis syndrome: Report of a case. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1990; 31:379-382.
12. Wu TJ, Teng RJ, Chang MH, Chen CC. Congenital short bowel syndrome: Report of a case treated with home central parenteral nutrition. *J Formosan Med Assoc* 1992; 91:470-472.
13. Wu TJ, Teng RJ, Yau KIT. Stable microbubble test for predicting the occurrence of respiratory distress syndrome. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1995; 36:101-3.
14. Tsai MJ, Wu TJ, Teng RJ, Yau KIT, Tsau YK. Mesenteric arterial thrombosis complicating congenital nephrotic syndrome of Finnish type: report of a case. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1995; 36:445-7.
15. Wu TJ, Teng RJ, Yau KIT. Hepatic hemangioendothelioma: successful treatment with steroid in a very-low-birth-weight infant. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1996; 37:56-8.
16. Lu MY, Wu TJ, Ho MM. Systemic air embolism in a very-low-birth weight neonate treated with synthetic surfactant. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1996; 37:142-4.
17. Wu TJ, Teng RJ, Yau KIT. Cholestasis in very-low-birthweight neonates: an analysis of risk factors. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1996; 37:278-82.
18. Fang PJ, Teng RJ, Chou CC, Wu TJ, Yau KIT, Hsieh KH. Impaired immune function in a premature infant with zinc deficiency after total parenteral nutrition. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1996; 37:364-9.
19. Yeh SJ, Hwu WL, Tsai WS, Wu TJ, Tuchman M, Wang TR. Ornithine transcarbamylase deficiency. *J Formos Med Assoc* 1997; 96:43-5.
20. Teng RJ, Wu TJ, Yau KI. Retinopathy of prematurity in very-low-birthweight neonates: epidemiology and risk factors. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1997; 38:370-374.
21. Tsao PN, Teng RJ, Wu TJ, Yau KI. Early outcome of extremely low birth weight infants in Taiwan. *J Formos Med Assoc* 1998; 97:471-476.
22. Tsao PN, Wu TJ, Teng RJ, Tang JR, Yau KI. Comparison of the outcome of extremely-low-birth-weight infants between two periods. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 1998; 39:233-236.
23. Tsai HY, Wu TJ, Chen HJ, Lu CW. Chylus-like urine as a complication of percutaneous hyperalimentation catheter in an infant: report of one case. *Zhonghua Min Guo Xiao Er Ke Yi Xue Hui Za Zhi* 2001; 42:46-48.
24. Teng RJ, Wu TJ, Bisig CG, Eis A, Pritchard KA, Konduri GG. Nitrotyrosine impairs angiogenesis and uncouples eNOS activity of pulmonary artery endothelial cells isolated from developing sheep lungs. *Pediatr Res* 2011;69:112-7.
25. Teng RJ, Wu TJ, Afolayan AJ, Konduri GG. Nitrotyrosine Impairs Mitochondrial Function in Fetal Lamb Pulmonary Artery Endothelial Cells. *Am J Physiol Cell Physiol*. 2015 Oct 21 [Epub ahead of print].
26. Teng RJ, Wu TJ. Persistent pulmonary hypertension of the newborn. *J Formos Med Assoc*. 2013 Apr;112(4):177-84.

27. Teng RJ, Wu TJ, Sharma R, Garrison RD, Hudak ML. Efficacy of recombinant human granulocyte colony stimulating factor in very-low-birth-weight infants with early neutropenia. J Formos Med Assoc. 2015 Feb;114(2):174-9.
28. Teng RJ, Wu TJ, Hsieh FJ. Cord blood level of insulin-like growth factor-1 and IGF binding protein-3 in monochorionic twins. J Formos Med Assoc. 2015 Apr;114(4):359-62.

Books, Chapters, and Reviews

1. Wu TJ, Carlo WA. Pulmonary physiology of neonatal resuscitation. NeoReviews 2001; 2:e45-e50.
2. Wu TJ, Carlo WA. Neonatal resuscitation guideline 2000: Framework for practice. Maternal-Fetal Neonat Med 2002;11(1):4-10.