

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF PEDIATRICS AND COMMUNICABLE DISEASES

Robert E. Schumacher, M.D., associate professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, Medical School, is recommended for promotion to professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, Medical School.

Academic Degrees:

M.D.	1979	University of Michigan
B.S.	1975	University of Wisconsin

Professional Record:

1992-present	Associate Professor of Pediatrics and Communicable Diseases, University of Michigan
1985-1992	Assistant Professor of Pediatrics and Communicable Diseases, University of Michigan
1984-1985	Instructor, Department of Pediatrics and Communicable Diseases, University of Michigan
1982-1984	Clinical Instructor, Department of Pediatrics, University of Wisconsin

Summary of Evaluation:

Teaching: Dr. Schumacher is a highly regarded and prolific educator. He is a graduate of the UMMC Medical Education Scholars Program. He has also received a Certificate in Teaching Evidence Based Medicine from McMaster University. He has served on numerous educational committees and administrative roles, including an Ad Hoc Committee on Medical Student Education (1987); Neonatal Continuing Medical Education Planning Committee (1986-2004); Newborn Core Curriculum Development Committee (1994-1995); he has been the assistant neonatal fellowship director (1995-2001) and co-director since 2002; he directs the Neonatal Resuscitation Program; he is a Pediatric Evidence-based Medicine Club mentor; he is responsible for the weekly Neonatal Research Conference planning. Dr. Schumacher has significant involvement in the education of medical students in all four years of their curriculum, starting with the embryology lecture in their first year, the respiratory sequence, neonatology, and going through neonatology sub-internships. Additionally, he is responsible for the clinical training of residents and fellows while on service, is on the dissertation committee for a student in the Bioengineering Department, and has made over 50 CME course presentations. He has

been the recipient of the Pediatric House Officers Top Teachers Recognition Award from 2004 to 2007.

Research: Dr. Schumacher has been involved with numerous clinical research projects during his career. He was the site principal investigator for the landmark Exosurf trial, which demonstrated the largest reduction in neonatal respiratory mortality from RDS (respiratory distress syndrome). He was instrumental in both the implementation of Neonatal ECMO (extracorporeal membrane oxygenation) and the follow up of surviving infants. He has recently been involved with research that evaluates resident learning and evidence based medicine. He has mentored neonatology fellows in clinical research study design and methodology. He has 53 peer-reviewed publications and 44 book chapters to his credit.

Recent and Significant Publications:

Baker CFW, Barks JDE, Engmann C, Vazquez DM, Neal CR Jr, Schumacher RE, Bhatt-Mehta V: Hydrocortisone administration for the treatment of refractory hypotension in critically ill newborns. *J Perinatol* 28, 412-419, 2008.

Bradley DR, Rana GK, Martin PW, Schumacher RE: Real-time, evidence-based medicine instruction: a randomized controlled trial in a neonatal intensive care unit. *Journal of the Medical Library Association* 90(2):194-201, 2002.

Walther FJ, Mullett M, Schumacher RE, Sundell H, Thompson T, Easa D, Long W, and the American Exosurf Neonatal Study Group I: One-year follow-up of 66 premature infants weighing 500-699 grams treated with a single dose of synthetic surfactant or air placebo at birth: Results of a double blind study. *J Pediatr* 126(5,2):S13-S19, 1995.

deMello DE, Nogee LM, Heyman S, Krous HF, Hussain M, Merritt TA, Hsueh W, Haas JE, Heidelberger K, Schumacher RE, Colten HR: Molecular and phenotypic variability in the congenital alveolar proteinosis (CAP) syndrome associated with inherited surfactant protein B (SP-B) deficiency. *J Pediatr* 125(1):43-50, 1994.

Schumacher RE, Roloff DW, Chapman R, Snedecor S, Bartlett RH: ECMO in term newborns: A prospective cost benefit analysis. *ASAIO* 39(4):873-879, 1993.

Service: Dr. Schumacher has served on numerous committees at the departmental, hospital, and medical school levels. Among these are the Pediatric House Officer Recruitment Committee (1984-2007); Pediatric Residency Advisory/Promotion Committee (since 1993); Newborn Care Committee (1984-1989); Newborn Services Quality Assurance Committee (since 1986); Department Promotions Committee (1997-2000); Parenteral and Enteral Nutrition Committee (1984-1997); Neonatal ECMO Quality Assurance/Review Committee (1991-2000); Neonatal Joint Practice Committee (since 1994); Perinatal Joint Practice Committee (since 1997); the Vermont-Oxford Perinatal Database Physician coordinator for UMMC (since 1997); Dept OB-GYN, Perinatal Process Review and Guidelines (1997-1999), Mott Hospital Med Surg Joint Practice Committee (since 2002); Critical Care Committee (since 2002); UMMC Committee on Quality Assurance (since 2002); Mott Executive Committee (since 2003); NICU Carelink lead; Vermont

Oxford NICQ Quality Improvement Consortium UM MD lead (since 2005); and he has been the medical director of the Holden NICU since 2004.

Professional Work: Dr. Schumacher is sub-board certified in neonatal-perinatal medicine and is a distinguished clinician, internationally known for his expertise in neonatal extracorporeal membrane oxygenation. He has averaged five to six months per year as the attending in the Holden NICU and has carried a large clinical load throughout his career.

External Review:

Reviewer A: “The University of Michigan has probably the most renowned ECMO program in the country. The program has prospered under his leadership....Dr. Schumacher is a valuable asset. Every academic division of neonatology covets such individuals; few have one.”

Reviewer B: “I believe that Dr. Schumacher is a committed excellent academic neonatologist, who has demonstrated leadership for many years, and who continues to be very active in the clinical, educational and research arenas. He is well respected at a National level for his overall and specific expertise.”

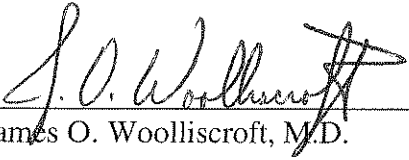
Reviewer C: “Dr. Schumacher’s scholarship has had significant impact on the development of the field of neonatology. His seminal work in the testing of ECMO and surfactant through rigorous randomized controlled trials has been very important in the evidence based introduction of these critical new therapies into routine practice. Dr. Schumacher is a clinical scientist and educator of the highest rank.”

Reviewer D: “...Dr. Schumacher is one of a small group of esteemed physician clinical educators who have contributed both to clinical research and to clinical education. His initial work with ECMO, followed by his work with assessments of educational effectiveness, are internationally well known and well respected....He is a great asset to Michigan’s Neonatology Section, and has been for a long time. We would love to have a faculty member as internationally respected as Dr. Schumacher here...”

Reviewer E: “...he seems to have made major contributions in the field of paediatrics and child health by way of high quality research and education, and transformed them into a large number of publications and contributions to high quality journals and books....Dr. Schumacher has maintained a high profile as an academician and remains a popular and frequently sought after speaker at international meetings and seminars....Dr. Schumacher will continue to make world class contribution[s] in his field of expertise.”

Summary of Recommendation:

Dr. Schumacher has proven his commitment to the Department of Pediatrics and to C.S. Mott Children's Hospital. He continually seeks to be an active participant in the advancement and success of the institution. He is an outstanding leader and educator whom I am pleased to recommend for promotion to professor of pediatrics and communicable diseases.

A handwritten signature in cursive script, reading "J. O. Woolliscroft", written over a horizontal line.

James O. Woolliscroft, M.D.

Dean

Lyle C. Roll Professor of Medicine

May 2009