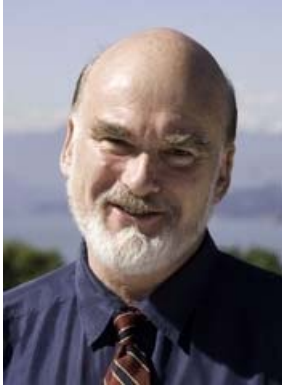




Andrew Macnab, MD



University College Hospital, London UK MB, BS, 1967
Royal College of Physicians, London UK LRCP, 1967
Royal College of Surgeons, England MRCS, 1967
University College, London UK MD (Research Thesis), 1977
Royal College of Physicians & Surgeons, Canada FRCPC, 1982
Royal College of Pediatrics & Child Health, England FRCPC, 2006
Canadian Academy of Health Sciences, FCAHS, 2007
Professor, Faculty of Medicine, UBC, Department of Pediatrics
Associate Member, Department of Urologic Sciences & Department of Family Practice
Director, Near Infrared Study Group, Bladder Care Centre, UBC Hospital
Senior Scientist (Distinguished Scholar), Child & Family Research Institute, Vancouver

Dr. Macnab trained as a critical care and neonatal pediatric specialist in the United Kingdom, where he was awarded his Doctorate in Medicine for research related to applications of novel technology to medicine. Recruited to come to Canada in 1977, his career has included significant contributions to clinical medicine, air medical transport, medical education and clinical and basic research.

Dr. Macnab's link to the Department of Urologic Sciences is his expertise in the application of near infrared spectroscopy (NIRS) to medicine. He was the first investigator to use this technology in Canada, and has an international reputation for his contributions to advances in the hardware, software and clinical applications of this non-invasive technology which uses light in the near infrared spectrum to monitor changes in tissue hemodynamics and oxygenation. Following work on the brain and spinal cord, Dr. Macnab collaborated with Dr. Lynn Stothers to develop a NIRS monitor capable of following physiologic change in the detrusor during filling and emptying of the bladder. This novel monitoring methodology offers the potential of new insights into the physiology of voiding dysfunction and non-invasive diagnostic evaluation in urologic practice. Current research endeavor includes validation of a commercial NIRS monitor for urologic applications, a wireless module for use in ambulant patients and children, and a vaginal probe for evaluation of the urethral sphincter and pelvic floor.

Dr. Macnab's has published more than 150 peer-reviewed papers, and his textbook, "Care of the Critically Ill Child" is in its third printing.

Dr. Macnab's awards include international, national and provincial recognition for his contributions to research, education and clinical practice. These awards include:

The St. Geme Award for Innovation and Promotion of Research, Western Society for Pediatric Research, USA, 1999. The Gold Medal, Canadian Medical Design Excellence Awards 2000 (Team Award for Best New Medical Device). American Federation for Medical Research Award for Excellence, 2003. A Killam University Teaching Prize, UBC, 2003. The Cooper Award for Innovative Research, American Urological Research Association, 2004 & 2007. Distinguished Scholar in Residence, Peter Wall Institute for Advanced Studies, UBC, 2007; and in 2008 the American Urologic Association Award for Best Research Presentation related to urodynamics.

Dr. Macnab holds patents related to his innovation in NIRS monitoring; a laboratory at St. Matthew's University Medical School was named in his honor in 2003, and a lectureship at UBC 2005. In 2008, the Knowledge Network featured him in their series, "The Leading Edge: Innovation in BC".