

## CURRICULUM VITAE

**NAME** John Patrick  
**DATE OF BIRTH** 9th February, 1940  
**MARITAL STATUS** Married  
**CHILDREN** Four  
**SCHOOLS** King Edward's School, Birmingham, U.K.  
**UNIVERSITY** King's College, London, U.K.  
St. George's Hospital Medical School, London, UK  
**ADDRESS** 163, Fifth Ave., Ottawa, K1S 2M8.

### AWARDS

1960 Anna Selina Fernee Scholarship: St. George's Hospital Medical School.  
1969-72 Medical Research Council Clinical Research Fellow, St. Thomas' Hospital.  
1973-80 Wellcome Research Fellowship: MRC Tropical Metabolism Research Unit, University of the West Indies, Jamaica and St. Thomas' Hospital, London.  
2002 Educator of the Year Award CMDA US

### DEGREES

University of London & The Royal College of Physicians.  
M.B., B.S.(1963); M.R.C.P.(1965); M.D.Thesis in cell physiology (1977).

### APPOINTMENTS

1963 House Physician (Internal Medicine & gastroenterology) St. George's Hospital.  
1963-64 House Surgeon (General Surgery) St. George's Hospital.  
1964-65 Senior House Officer, (Neurology) Churchill Hospital, Oxford, England.  
1965-66 House Physician to Dr. J.C. Batten, (Respirology) Brompton Hospital, England.  
1966 Resident Medical Officer, (Cardiology) National Heart Hospital, London.  
1966-67 Medical Registrar to Dr. A. Leatham, (Cardiology) St. George's Hospital.  
1967-69 Medical Registrar to Professor H.P. Lambert, (Infectious Diseases) St. George's Hospital.  
1969-72 Medical Research Council Clinical Research Fellow (Cell Physiology) and Honorary Senior Medical Registrar (Nephrology) St. Thomas' Hospital, London.  
1973-78 Wellcome Research Fellow, Tropical Metabolism Research Unit, Jamaica, Honorary Consultant Physician to University Hospital of the West Indies (Internal Medicine & Paediatrics)  
1978-80 Wellcome Research Fellow and Consultant, (Internal Medicine) St. Thomas' Hospital, London, England.  
1980-2002 Associate Professor, Clinical Nutrition, Departments of Biochemistry and Pediatrics, University of Ottawa.  
1996- Professor of the History of Science and Medicine, Augustine College, Ottawa.  
1998- Director for Public Policy and Ethics, Christian medical and Dental Soc., Canada  
2002- President and Professor of the History of Science and Medicine, Augustine College

## **SOCIETIES**

Medical Research Society, London  
Nutrition Society, London  
The Canadian Society for Nutritional Science  
The Canadian Pediatric Society  
The Christian Medical & Dental Society

## **COMMITTEES (excluding University & Departmental Committees)**

1983-85 Human Nutrition Research Council of Ontario  
1983-89 Canadian Pediatric Society Nutrition Committee  
1986-91 National Health Research Development Program Nutrition Committee (Chairman 1987-88)  
1984-87 Canadian Science Committee for Food and Nutrition  
1988 American Academy of Pediatrics Committee, Nutrition in Cystic Fibrosis  
1986-89 Board of Governors, Young Offenders Home, (Fairburn House)  
1988-98 World Community Service Committee, Rotary Club Ottawa  
1991-98 Easter Seals Children's Committee, Rotary Club Ottawa

## **RESEARCH EXPERIENCE**

- Classical renal physiological measurements in children and adults.
- Sodium and potassium isotope flux techniques in leucocytes and erythrocytes.
- Nutritional studies of rapid growth in malnourished subjects. (Primary Protein Energy Malnutrition in Jamaica & Zaire, secondary malnutrition in cystic fibrosis and cerebral palsy in Canada)
- Survey studies of malnutrition in Jamaica, Zaire and Burundi.

## **CAREER OBJECTIVES**

- In Canada to assist with the establishment of medical nutrition as a recognized specialty and to develop the necessary curriculum to support this objective. In the developing world to assist with the development of appropriate training programs and practical treatment schemes which will ultimately eliminate childhood protein-energy malnutrition.
- To help to relate belief and practice so that the wisdom contained in the ancient religions maintains its influence in medicine and the limitations of determinism are understood.
- To be an advocate for those who are unable to plead their own case, particularly the disabled and the children of the developing world.

## **INVITED LECTURES (incomplete list)**

- At the Universities in Canada, Alberta, British Columbia, Calgary, Dalhousie, Guelph, London, MacGill, MacMaster, Newfoundland, Saskatchewan, Toronto, Queen's.
- In the USA, Harvard, Illinois (Urbana), Chicago, Mayo Clinic, Washington, Pennsylvania, Indiana, Minnesota, Yale, California and many others.
- In the UK at Universities of London, Oxford.
- In Europe at Universities of St Petersburg, Tver, Simferopol, Tirana.

- In Africa at Universities of Nairobi, Johannesburg, Capetown, Bloemfontein, Medunsa, Pretoria, Lagos, Ibadan Enugu, Zaria and others.
- In South America at the University of Santiago.
- Also at a variety of hospitals and for Telemedicine Canada.
- For societies, American Cystic Fibrosis, Canadian Cystic Fibrosis, British Nutrition Society, American Dietetic, Canadian Dietetic, Canadian Society for Gastroenterology, Christian Medical and Dental Society of Canada, Christian Medical and Dental Association of the USA, The Christian medical fellowships of the UK, Australia and South Africa and multiple conferences on ethics and public policy. In 2002 I gave over 500 lectures.

## **PUBLICATIONS** (excluding Abstracts, Letters and book reviews)

### **Scientific Peer Reviewed Literature**

1. Patrick, J. & Whitty, C.W.M. (1965). "Recurrent cerebral emboli and diagnosis of focal epilepsy." **Lancet i**: 1291-1293.
2. Patrick, J. (1971). "Renal extraction of water in children with acute gastroenteritis." **Archives of Disease in Childhood 46**: 461-645.
3. Patrick, J. & Bradford, B. (1972). "A comparison of leucocyte, erythrocyte, plasma and total exchangeable potassium as measures of potassium deficiency in rabbit." **Clinical Science 42**: 415-421.
4. Patrick, J. & Hilton, P.J. (1972) "The measurement of extracellular space in an in vitro system of human leucocytes." **Clin. Sci. 42**: 647-649.
5. Poole-Wilson, P.A., Patrick, J., MacGregor, G.A. & Jones, N.F. (1972). "Renal excretion of bicarbonate and hydrogen ion: the effect of mannitol diuresis in normal man." **Clin. Sci. 43**: 561-578.
6. Patrick J, Jones NF, Bradford B & Gaunt J (1972). Leucocyte potassium in uraemia: Comparisons with erythrocyte potassium and total exchangeable potassium. **Clin. Sci. 44**: 669-678.
7. Patrick, J. & Hilton, P.J. (1973). "The response of the human leucocyte to alterations in extracellular osmolality." **Clin. Sci. 44**: 457-465.
8. Hilton PJ & Patrick J (1973) Sodium and Potassium flux rates in normal human leucocyte in an artificial extracellular fluid. **Clin. Sci. 44**: 439-445.
9. Corrin, B., Gilby, E.D., Jones, N.F. & Patrick, J. (1973). "Oat cell carcinoma of the pancreas with ectopic ACTH secretion." **Cancer 31**: 1523-1527.
10. Edmondson, R.P.S., Thomas, R.D., Hilton, P.J., Patrick, J. & Jones, N.F. (1974). "Leucocyte electrolytes in cardiac and non-cardiac patients receiving diuretics." **Lancet i**: 12-14.
11. Patrick J, Jones NF (1974) Cell sodium, potassium and water in uraemia and the effects of regular dialysis as studied in the leucocyte. **Clin. Sci. & Molecular Med. 46**: 583-596.
12. Patrick, J. & Hilton, P.J. (1974). "Sodium and potassium transport rates in normal human leucocytes in hypo-osmolal fluid." **Clin. Sci. & Molecular Med. 46**: 583-586.
13. Edmondson, R.P.S., Thomas, R.D., Hilton, P.J., Patrick, J. & Jones, N.F. (1975). "Abnormal leucocyte composition and sodium transport in essential hypertension." **Lancet i**: 1003-1005.

14. Hilton PJ, Edmondson RPS, Thomas RD, Patrick J. (1975). The effect of external potassium concentration on leucocyte cation transport in vitro. **Clin Sci Molec Med**;49: 385-390.
15. Edmondson RPS, Hilton PS, Jones NF, Patrick J & Thomas RD (1975) Leucocyte sodium and potassium transport in uraemia. **Clin. Sci. & Molecular Med.** 49: 213-216.
16. Donaldson EK, Patrick J, Sivapragasm S, Alleyne GAO, Woo Ming MO (1976). The effect of triamterene on sodium and potassium in the leucocytes of patients with heart disease. **Brit. Med. J. i:** 1254-1255.
17. Patrick, J. (1977). "Death during recovery from severe malnutrition and its possible relationship to sodium pump activity in the leucocyte." **Brit. Med. J. i:** 1051-1054.
18. Patrick, J. (1977). "Assessment of body potassium stores." **Kidney International 11:** 476-490.
19. Patrick, J. & Sivapragasm, S. (1977). "The prediction of postoperative potassium excretion after cardiopulmonary bypass." **J. Thoracic and Cardiovascular Surgery 73:** 559-562.
20. Patrick J, Golden MH. (1977) Leucocyte electrolytes and sodium transport in protein energy malnutrition. **Am. J. Clin. Nutr.** 30: 1478-1481.
21. Patrick, J., Reeds, P.J., Jackson, A.A., Picou, D.I.M. & Seakins, A. (1978). "Total body water in malnutrition: the possible role of energy intake." **Brit. J. Nutr.** 39: 417-424.
22. Waterlow JC, Golden MH, Patrick J (1978). Protein Energy Malnutrition; in Nutrition in the Clinical Management of Disease. Eds Dickerson & Lee, Edward Arnold (London) 1978, pp. 49-71.
23. Patrick, J., Michael, J., Golden, M.H., Golden, B.E. & Hilton, P.J. (1978). "The effect of zinc on leucocyte sodium transport in vitro." **Clin. Sci. Molecular Med.** 54: 585-587.
24. Patrick, J. (1978). "The relationship between intracellular and extra-cellular potassium in normal and malnourished subjects as studied in leucocytes." **Ped. Res.** 12: 707-770.
25. Patrick J (1978) Interrelations between sodium, potassium and water, and nutrition **J. Hum. Nutr.** 32: 405-418.
26. Patrick J (1979) Oedema in protein energy malnutrition: the role of the sodium pump. **Proc. of the Nutr. Soc.** 38: 61-68.
27. Jones RB, Johnson VE, Patrick J, Hilton PJ (1979) Effect of acid-base changes on intracellular sodium potassium and water content of human leucocytes in vitro. **Clin Sci** 56: 385-388.
28. Patrick, J. & Hilton, P.J. (1979). "Characterization of sodium transport disorders in disease: different effects upon sodium and potassium of changes in the sodium pump and in membrane permeability." **Clin. Sci.** 57: 289-293.
29. Patrick, J., Golden, B.E. & Golden, M.H. (1980). "Leukocyte sodium transport and dietary zinc in protein energy malnutrition." **Am. J. Clin. Nutr.** 33: 617-620.
30. Kramers, M.T.C., Patrick, J., Bottomley, J.M., Quinn, P.J. & Chapman, D. (1980). "Studies of liposome interactions with rat thymocytes." **Europ. J. Biochem.** 110: 579-585.
31. Jones RB, Hilton PJ, Michael M, Patrick J & Johnson VE (1980) Zinc transport in normal human leucocytes; dependence upon medium composition. **Clin Sci** 59: 353-357.
32. Patrick, J. (1981). "Nutritional oedema, albumin and vanadate." **Lancet i:** 646-647.

33. Jones, R.B., Patrick, J. & Hilton, P.J. (1981). "Effect of extracellular potassium on transport of sodium and potassium in rat thymocytes." **Clin. Sci.** **61**: 307-312.
34. Jones, R.B., Patrick, J. & Hilton, P.J. (1981). "Increased sodium content and altered sodium transport in thymocytes of spontaneously hypertensive rats". **Clin. Sci.** **61**: 313-316.
35. Hilton, P.J., Johnson, V.E., Jones, R.B. & Patrick, J. (1981). "The effects of alterations in the external sodium concentration on sodium and potassium transport in vitro." **J. Cell. Physiol.** **109**: 323-332.
36. Hilton, P.J., Jones, R.B. & Patrick, J. (1982). "Intracellular sodium and sodium transport in the thymocytes of rats with volume expansion hypertension." **Clin. Sci.** **63**: 65s-67s.
37. Patrick J. (1983). The pathophysiology of severe malnutrition. 1st International Congress of Adolescent Nutrition. Publisher, University of Prince Edward Island, pp. 95-106.
38. Patrick J & Dervish C (1984). The assessment of zinc status. **CRC Reviews in Clin. and Lab. Sci.** **20**: 95-114.
39. Bertrand JM, Morin CL, LaSalle R, Patrick J & Coates AL (1984). Short term clinical, nutritional and functional effects of continuous elemental enteral alimentation in children with cystic fibrosis." **J. Pediat.** **104**: 41-46.
40. Maler L, Boland M, Patrick J, Ellis W. (1984). The localization of zinc in the Pacemaker Nucleus of high frequency gymnotid fish. **Neurology and Neurobiology** **11**: 199-212.
41. Patrick J. (1984). The pancreas, nutrition and cystic fibrosis. How do we ask the right questions? **J. Ped. Nutr. Gastroenterol.** **3(Suppl I)**: S163-S166.
42. Ooi PC, Poznansky WJ, Freeman J, Murray GE, Pikulski S, Patrick J. (1984). Is obesity due to a defective sodium pump? **Can. J. Surg.** **27**: 124-125.
43. Murray GE, Nair R & Patrick J (1986) Modification by dietary fat of sodium transport, hypertension and membrane lipids in the spontaneously hypertensive rat. **Brit J Nutr** **56**: 587-593.
44. Boland MP, Patrick J, Stoski DS, MacDonald NE (1986). Long-term enteral feeding in wasted children with Cystic Fibrosis. **Lancet** **1**: 232-234.
45. Murray GE, Patrick J (1986). The effect of dietary fat on sodium transport and sodium-lithium countertransport in the rat. **J. Nutrition** **116**: 1390-1384.
46. Patrick J, Boland MP, Stoski D, Murray GE (1986). Rapid correction of wasting children with cerebral palsy. **Dev. Med. Child Neurol.** **28**: 734-739.
47. Chan, A.C., Raynor, C., Douglas, C., Patrick, J. & Boland, M.P. (1986). "Transitory stimulation of human platelet 12-lipoxygenase by vitamin E supplementation." **American Journal of Clinical Nutrition** **44**: 278-282.
48. Boland MP, Patrick J, Stoski DS, Soucy, P. (1987). Permanent enteral feeding in cystic fibrosis: advantages of a replaceable jejunostomy tube. **J. Ped. Surgery** **22**: 843-847.
49. Gisel E, Patrick J (1988). Identification of children with cerebral palsy unable to maintain a normal nutritional state. **Lancet** **i**: 283-286.
50. Patrick, J. & Boland, M.P. (1988). Cystic Fibrosis. in **Current Therapy in Nutrition**. Ed. K.N. Jeejeebhoy, B.C. Decker, Toronto pp. 422-433.
51. Patrick J, Hindmarsh T, Welsh J. (1989) Trace elements, nutrients and vitamins. in **Handbook of Clinical Chemistry Vol IV** ed M Werner CRC Press, Boca Raton, pp275-331.

52. Patrick J. (1988) Survival in Cystic Fibrosis - How important is Nutrition? **Lancet** ii: 1060-1061
54. Patrick J. (1989) Changes in clinical dietetics: a physician's suggestions. **J Am Diet Assoc** 89:1230-1234.55. Harper ME, Patrick J, Willis JS. (1990) The absence of adapted sodium and potassium transport in erythrocytes of cerebral palsied children with secondary malnutrition. **Eur J Clin Nutr** 44:549-558.56 Harper ME, Patrick J, Kramer JKG. (1990) Erythrocyte membrane lipid alterations in undernourished cerebral palsied children during high intakes of a soy oil based enteral formula. **Lipids**. 25:639-45.
57. Patrick J, Gisel E. (1990) Nutrition for the feeding impaired child. **J Neuro Rehab**.4:115-119.
58. Harper ME, Himms Hagen J, Patrick J. (1991) Diet induced obesity and Na,K transport in erythrocytes and thymocytes of Sprague Dawley rats. **Nutrition Research** 11:375-384.
59. Harper ME, Patrick J, Himms-Hagen J. (1993) Altered brown adipose tissue and Na,K pump activities during diet-induced obesity and weight loss in rats. **Intl J Obesity** 1:106-117.
60. Patrick J, Pencharz PB. (1994) Undernutrition in children with a neurodevelopmental disability. **Canad Med Assoc J** 151:753-759. (for the Canadian Pediatric Society Nutrition Committee)
61. Harper ME, Patrick J and Willis JS. Sodium and Chloride for The Handbook of Nutrition.

### **Papers on Ethics and Culture**

1. Patrick J. (1988) Medicine and the Gospel, which is in charge in the mission hospital? **Focus** Nov 1988.
2. Patrick J. (1990) Belief systems and science; If Newton had not had his God. **Focus** May 1990.
3. Patrick J. (1991) Meaning and purpose in Medicine: the physician in a disenchanted world. **Humane Medicine**.7:195-202 61.
4. Patrick J. (1991) A life worth living. **Focus** 11:16-26.64.
5. Patrick J. (1994) Medicine and Health Care; the case for their divorce. **Canad Med Assoc J** 150:1775-79.
6. Patrick J. (1994) The Myth of Moral Neutrality. **Focus**.66.
7. Patrick J. (1994) The Ethics of Distribution of Limited Resources in Medicine. **Proceedings of a Conference at Regent College**, Vancouver. ed E.Hui
8. Harding SR, Patrick J.(1995) Euthanasia. **Focus** This paper was submitted to the Senate Special Committee on Euthanasia and Mercy Killing on behalf of the Canadian Christian Medical and Dental Society
9. Patrick J. (1996) The Beatitudes as a Basis for Christian Ethics. **Proceedings of Clinical Bioethics Conference at Regent College**, Vancouver ed E Hui
10. Patrick J. (2001) The Myth of the Multicultural Patient. Monograph Series CMDS Canada.

### **Others**

Multiple articles in the press on ethics and culture.

## **GRANTS**

Medical Research Council. Diet and Hypertension.  
Standard Brands. Polyunsaturated fat and hypertension.  
Human Nutrition Council of Ontario. Zinc and Foetal development.  
NHRDP. Dietary fat and malnutrition in cystic fibrosis.  
Bristol Myers. An enteral feeding protocol for cystic fibrosis.  
NHRDP. Malnutrition in Cerebral Palsy.  
Bristol Myers. Enteral feed formulation for cerebral palsy patients.  
CNRU. Prevalence of malnutrition in quadriplegics.  
NHRDP. Growth monitoring in a Pediatric Hospital.

## **UNIVERSITY COURSES TAUGHT**

Evaluation of the Scientific Literature, using Nutritional Science Examples  
Intermediary Metabolism  
Biochemistry/Nutrition for Medical Students  
Medical Humanities  
Tutoring in Introductory Gastro-Intestinal and Renal Blocks  
Lectures in the Medical Ethics Course

## **LECTURES**

Agnostics Anonymous: a course for those who don't know the questions  
Can We ever be Good?  
Multiculturalism: Viable and True?  
Living with Debased Metaphors: Cultural Deprivation in University  
The Myth of Moral Neutrality: How to Answer the Relativists  
Medicine & Health Care: Historical and Philosophical Differences Between the Two  
The Ethics of Abortion, Euthanasia and PAS  
The Care of the Disabled and the Problem of Limited Resources  
Surviving Medical School: Believers in a Tacitly Atheistic Environment  
Human Society and the New Eugenic Consequences of Molecular Biology  
Autonomy, Justice, Beneficence and Non-Malificence: What to do When They Clash  
Narrative Ethics and Medicine  
Irreducible Complexity and the Intelligent Design Movement.  
The False Premises of Medical Education  
Enlightenment Paradigms  
What Hippocrates Knew and We have Forgotten  
The Nature of Development, illustrated from Jewish History and Applied to the Problem of Failure of Development Projects in Africa  
Christian Character: So Much More than Attitudes  
The Institutionalised Hypocrisy of the Church  
The Four Levels of Happiness

Why are there no Hittites on the Streets of New York?  
The Nine Questions We all have to Answer

**In Zaire:** Lectures on Protein Energy Malnutrition. These began with medicine and progressed to the issue of the importance of Christian ways of understanding the world as motivating and providing intellectual foundations for preventive medicine.

Two months of lectures on the invitation of the Rwandan refugees on the relationships between, faith, virtue and culture and their implications for the understanding of war, character and institutions.

**Ukraine:** The Myth of Moral Neutrality and the Practice of Medicine for the Ukrainian Academy of Sciences.

**Russia:** Most of the above lectures

**Cuba:** Lectures on the relationship between faith and the practice of medicine for the Inaugural Conference of the Cuban Christian Health Care Workers' Organization. Four subsequent teaching visits

**Australia, South Africa, England, Albania, Kosovo:**  
Lectures on Medical Ethics, Faith, Culture, and Public Policy