

CURRICULUM VITAE

AGOSTINO PIERRO MD, FRCS (Eng), FRCS(Ed) FAAP

June 2005

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1. PERSONAL DETAILS

- Name:** AGOSTINO PIERRO
- Date of birth:** 24 May 1954
- Place of birth:** Cisterna di Latina, Latina, Italy
- Citizenship:** Italian
- Marital status:** Married to Dominique Houben, 23 May 1983 three children Leon (d.o.b. 29/1/1995), Lauryn (d.o.b. 11/6/1997) and Lia (d.o.b. 6/6/1998)
- Present position:** Nuffield Professor of Paediatric Surgery, Head of Surgery Department and Consultant in Paediatric Surgery, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, University College London Medical School, London, U.K.
- Business address:** Paediatric Surgery Unit, Institute of Child Health, University College London Medical School, 30 Guilford Street, London.

2. EDUCATION AND QUALIFICATIONS

Education and Training

High School

1968 - 1972: Maturita' Classica. Liceo Classico "Dante Alighieri", Latina, Italy

University

1972 - 1978: Medical degree (MD) with honours at the University of Roma "La Sapienza", Rome, Italy

Postgraduate training

1978 - 1980: "Specializzando in Chirurgia Generale" (Senior House Officer) Department of General Surgery, University of Rome "La Sapienza", Rome, Italy

1981 - 1986: "Assistente ordinario di Chirurgia Pediatrica" (Specialist Registrar in Paediatric Surgery) Division of Paediatric Surgery, Institute of Paediatrics, University of Rome "La Sapienza", Rome, Italy

Apr - Sep 82: Research Fellow, Alder Hey Children's Hospital, Department of Paediatric Surgery, University of Liverpool, U.K.

1986 - 1988: Clinical and Research Fellow at the Hospital for Sick Children,

Department of General Surgery, Toronto, Ontario, Canada. Patient management as a Senior Resident involved in the Liver Transplant Programme

April 1993: Training course in Laparoscopy, University of Toronto, Ontario, Canada

July 1993: Training course in anorectal malformations (Dr. A. Pena), University of Leeds, U.K.

Certificate and Licensure

Certification

1985: Specialist in General Surgery with honours, University of Rome "La Sapienza"

1990: Specialist in Paediatric Surgery, University of Rome "Tor Vergata"

1990: "Idoneita' a Primario di Chirurgia Pediatrica" (Accreditation for Consultant position in Paediatric Surgery)

1993: "Idoneita' a Professore Associato di Chirurgia Pediatrica" (Title of Associate Professor in Paediatric Surgery granted by the Italian Ministry of University and Scientific Research)

1998: Fellowship *ad eundem* of the Royal College of Surgeons of England (FRCS Eng)

1998: Fellowship without examination of the Royal College of Surgeons of Edinburgh (FRCS Ed)

Medical Licensure

1979: "Ordine dei Medici Italiano" (Italian Medical Council)

1986: Educational License, College of Physicians and Surgeons of Toronto, Ontario, Canada

1991: General Medical Council, U.K.

3. PROFESSIONAL HISTORY

Sept 88 - Dec 90: "Aiuto di Chirurgia Pediatrica" (Consultant Paediatric Surgeon), Division of Paediatric Surgery, Institute of Paediatrics, University of Rome "La Sapienza", Rome, Italy

Jan 91 - Sept 94: Senior Lecturer in Paediatric Surgery, Institute of Child Health,

University of Liverpool and Honorary Consultant Paediatric Surgeon, Royal Liverpool Children's Hospital NHS Trust Alder Hey, Liverpool, U.K.

- Oct 94 - Oct 96: Senior Lecturer in Paediatric Surgery, Institute of Child Health, University College London Medical School, and Honorary Consultant Paediatric Surgeon, Great Ormond Street Hospital for Children NHS Trust, London, U.K.
- Oct 96 - Oct 00: Reader in Paediatric Surgery, Institute of Child Health, University College London Medical School
- Oct 00 - Oct 04 Professor of Paediatric Surgery, Institute of Child Health, University College London Medical School, and Honorary Consultant Paediatric Surgeon, Great Ormond Street Hospital for Children NHS Trust, London, U.K.
- Oct 04 - to date Nuffield Professor of Paediatric Surgery & Head of Surgery Department, Institute of Child Health, University College London Medical School, and Honorary Consultant Paediatric Surgeon, Great Ormond Street Hospital for Children NHS Trust, London, U.K.

4. OTHER APPOINTMENTS AND AFFILIATIONS

Memberships of Professional and Scientific Institutions and Societies

1. British Association of Paediatric Surgeons (BAPS)
2. Canadian Association of Pediatric Surgeons (CAPS)
3. International Society of Paediatric Oncology (SIOP)
4. European Society of Parenteral and Enteral Nutrition (ESPEN)
5. Society of Academic and Research Surgery (SARS)
6. United Kingdom Children's Cancer Study Group (UKCCSG)
7. British Association of Parenteral and Enteral Nutrition (BAPEN)
8. Nutrition Society: Clinical Nutrition and Metabolism Group (CNMG)
9. "Societa' Italiana di Chirurgia Pediatrica" (Italian Society of Paediatric Surgery)
10. "Societa' Italiana di Urologia Pediatrica" (Italian Society of Paediatric Urology)
11. "Societa' Italiana di Nutrizione Parenterale Enterale" (Italian Society of Parenteral Enteral Nutrition)
12. Member of Research Council of The Healing Foundation OK

Committee Service and Other Appointments

- Liverpool:** Total Parenteral Nutrition Steering Group (Chairman)
Liverpool Paediatric Club (Secretary)

Infection Control Committee
Nutritional Support Committee
Ethical Committee
Transfusion Committee
Library Committee Institute of Child Health
Library Committee of the Liverpool Medical Institution (Chairman)
Audit Committee

London: Nutrition Committee
Audit Project Team for Parenteral Nutrition (Chairman)
Child Protection Committee
Infection Committee
Child Health Research Appeal Trust (CHRAT) Advisory Panel

National: Clinical Nutrition and Metabolism Group (CNMG) of the Nutrition Society (Chairman)
Council Member of the British Association of Paediatric Surgeons (BAPS)
Council Member of the British Association of Parenteral and Enteral Nutrition (BAPEN)
Chairman, Research and Science Committee of the British Association of Parenteral and Enteral Nutrition (BAPEN)

Other: Editorial Consultant for Pediatric Surgery International
Guest Editor for Seminars in Paediatric Surgery

5. PRIZES AND AWARDS

- American Academy of Pediatrics - Surgical Section: second place in the resident competition (New Orleans October 31 - November 2 1987). The award was received for the paper: "Characteristics of protein sparing effect of total parenteral nutrition in the surgical newborn"
- Italian Research Council Award (February 1989) for the study: "Metabolism of intravenous fat emulsion in the surgical newborn"
- European Society of Parenteral and Enteral Nutrition: Espen-Anjimoto Research Fellowship 1991 (Antwerp 1-4 September 1991) for the project entitled "Non-protein energy intake during total parenteral nutrition: effect on protein turnover, energy metabolism and body composition"
- Liverpool Registrar Prize Meeting, Liverpool Medical Institute, second prize awarded to Mr Girish Jawaheer, Research Fellow for the paper "Gallbladder contractility in newborn infants: effects of intravenous feeding", 2 March 1994

- Liverpool Registrar Prize Meeting, Liverpool Medical Institute, first prize awarded to Mr Girish Jawaheer, Research Fellow for the paper “Continuous enteral feeding impairs gallbladder contractility in newborn infants”, 1 March 1995
- Peter Paul Rickam Prize (best research paper of the meeting) awarded to Dr. Yasuhiro Okada, Research Fellow for the paper “Neutrophil dysfunction: the cellular mechanism of impaired immunity during total parenteral nutrition in infancy”, 45th Annual International Congress of the British Association of Paediatric Surgeons, Bristol, July 1998
- Residents competition (first prize for the best basic science paper) awarded to Dr. Marcello Zamparelli, Research Fellow for the paper “Amino acids counteract the inhibitory effect of fentanyl on hepatocyte oxidative metabolism”, 31st Annual Meeting of Canadian Association of Paediatric Surgeons, Montreal, Canada, 23-26 September 1999
- Residents competition (second prize for the basic science papers) awarded to Dr. Paisarn Vejchapipat, Research Fellow for the paper: “Intestinal metabolism after ischaemia-reperfusion”, 31st Annual Meeting of Canadian Association of Paediatric Surgeons, Montreal, Canada, 23-26 September 1999
- Prize for best poster awarded to Mr R. Basu, Research Fellow for “Intravenous medium chain triglycerides administration is associated with increased free radical activity.” presented at the CNMG section of British Association of Parenteral and Enteral Nutrition in Bournemouth, UK, 7-9 December 1999.
- Donald Paterson Prize 2001 awarded to Mr R. Babu, Research Fellow, for the paper “Glutamine and glutathione counteract the inhibitory effects of mediators of sepsis in neonatal hepatocytes”. Royal College of Paediatrics and Child Health, Winter Meeting 2001.

6. GRANTS

Previous

Jul 1986: Government of Canada Awards Programme funded by the Department of External Affairs. Project: “Metabolic studies on surgical newborn infants receiving total parenteral nutrition”. Research Fellowship. Duration: 6 months. Value: Can \$ 7,500

- Jan 1987: NATO Fellowship - Italian Research Council. Project: "Metabolic studies on surgical newborn infants receiving total parenteral nutrition". Research Fellowship. Duration: 6 months. Value: Italian £ 9,000,000
- Jul 1988: The Hospital for Sick Children Foundation, Toronto, Ontario, Canada. Project: "Metabolic studies on infants and children with liver cirrhosis". Research Fellowship. Duration: 15 months. Value: Can \$ 24,000
- Oct 1991: Royal Liverpool Children's Hospital Endowment Fund. Project: "Study of non-protein energy intake during total parenteral nutrition". Investigators: A. Pierro, P.J. Garlick, A. Shenkin, D.A. Lloyd. Duration: 1 year. Value:UK £4,150.00
- Nov 1991: European Society of Parenteral and Enteral Nutrition: Espen-Anjimoto Research Fellowship. Project: "Non-protein energy intake during total parenteral nutrition: effect on protein turnover, energy metabolism and body composition". Investigators: A. Pierro, P.J. Garlick, A. Shenkin, D.A. Lloyd. Duration: 6 months. Value: DM 12,000.00
- May 1992: University of Liverpool. Expensive Items of Equipment: Gas analysers. Investigators: A. Pierro, D.A. Lloyd. Value: UK £ 4,000.00
- Oct 1992: Royal Liverpool Children's Hospital Endowment Fund. Project: "Detailed micro-analysis of early neonatal necrotising enterocolitis". Investigators: D.A. Lloyd, A. Pierro. Duration: 5 months. Value: UK £2,800.00
- Sept 1993: The Children's Research Fund. Project Grant: "Nutrition and metabolism in paediatric surgical patients". Investigators: D.A. Lloyd, A. Pierro. Duration: 3 years. Value: UK £185,832.00
- Oct 1993: Royal Liverpool Children's Hospital Endowment Fund. Project: "Metabolic utilization of intravenous fat in surgical newborn infants receiving total parenteral nutrition". Investigators: A. Pierro, P. Hammond, D.A. Lloyd. Duration: 1 year. Value: UK £7,500.00

- Mar 1996: Pharmacia, Stockolm, Sweden. Project: "Metabolism of intravenous fat emulsion: oxidation, deposition and generation of free radicals". Investigators: A. Pierro, D. Muller, R. Basu, P. Quant, M.J. Rennie. Duration: 1 year. Value: UK £43,000.00
- Apr 1996: S.E.A.R.C.H. Project: "Whole body protein and glutamine kinetics in critically ill or stressed infants and children". Investigators: A. Pierro, R Tasker, JM Hawdon, D. Halliday, J Leonard. Duration: 2 years. Value: UK £75,000.00
- Jun 1996: The Coloplast Limited Charitable Trust. Project: "Hirschsprung's disease and incontinence". Investigators: A. Pierro, L. Ludman. Value: UK £1,000.00
- Aug 1996: Royal College of Surgeons of England. Project: "Protein and energy metabolism in surgical infants and children". Research Fellowship for M. Powis. Supervisor: A. Pierro. Duration 1 year. Value: UK £35,000.00
- Oct 1996: Sir Halley Stewart Trust. Project : "The pathogenesis of sepsis in newborn infants receiving parenteral nutrition". Investigators: A. Pierro, J. Hawdon, N. Klein. Duration: 2 years. Value: UK £24,850.00
- Oct 1996: Tommy's Campaign. Project : "The relationship between prematurity and parenteral nutrition in the pathogenesis of sepsis". Investigators: A. Pierro, N. Klein, Y. Okada, J. Hawdon, H.K.F. van Saene. Duration: 2 years. Value: UK £53,510.00
- Jun 1997: Royal College of Surgeons of England. Project: "Oxygen free radicals and fat utilization during parenteral nutrition in infancy". Research Fellowship for R. Basu. Supervisors: A. Pierro, D. Muller. Duration: 1 year. Value: UK £35,000.00
- Oct 1997: CNR - Italian Research Council. Project: "Biochemical pathogenesis of liver dysfunction and failure associated with episodes of sepsis in surgical infants". Research Fellowship for C. Romeo. Supervisors: A. Pierro, S. Eaton. Duration: 1 year. Value: UK £ 30,000.00
- Sept 1996: The Children's Research Fund. Project : "Sepsis, prematurity, growth retardation and intravenous feeding : effects on the ability of surgical infants to use nutrition for growth and survival". Investigors: A. Pierro, P. Quant. Duration: 3 years. Value : UK £63,000.00

- Dec 1997: Anonymous donation. Project: “Infection, usage of central venous lines and mechanical complications during parenteral nutrition in surgical infants and children”. Consumables expenses. Value: UK £ 10,000.00
- Jun 1998: Royal College of Surgeons of England. Project: “Effects of intestinal ischaemia and reperfusion on gut and liver metabolism”. Research Fellowship for S.B. Williams. Supervisors: A. Pierro, S.R. Williams. Duration: 1 year. Value: UK £35,000.00
- Jul 1998: Wellcome Trust Equipment grant: “Digital radiofrequency and computer upgrades to two SMIS NMR imaging/spectroscopy consoles: automatic sample changer for Varian NMR spectrometer; shim unit and gradient unit for SMIS consoles”. S.R. Williams (Principal Applicant) and D. Gadian. A. Pierro is a collaborator on: 1) Development of the surgical model of intestinal ischaemia and reperfusion; 2) Joint supervision of research fellows to work on the project. Duration : 3 years. Value : UK £317,630.00
- Feb 1999: Science Development Initiative Pump-priming Grant – Institute of Child Health, London. Project: “Delineating the modifiable mechanisms of neutrophil dysfunction in infants on total parenteral nutrition (TPN)”. Investigators: J. Walker, A. Pierro, N. Klein, P. Clayton. Duration: 1 year. Value: UK £11,000
- May 1999: Tommy’s Campaign. Project : “Fat utilisation and energy metabolism during sepsis in the neonatal period”. Investigators: A. Pierro, S. Eaton, M. Markley. Duration: 1 year. Value : UK £19,930.00
- June 1999: Fondation Eugenio Litta, Geneva, Switzerland. Project : “The interaction between the immune system and total parenteral nutrition in surgical paediatric patients”. Research Fellowship for A. Cruccetti. Supervisors: A. Pierro, N. Klein. Duration: 1 year. Value: US\$ 50,000
- July 1999: Medical Research Council (MRC). Project : “Delineating the modifiable mechanisms of neutrophil dysfunction in infants on total parenteral nutrition (TPN) ”. Clinical Training Fellowship for Justin Walker. Supervisors: A. Pierro, N. Klein, P. Clayton. Duration: 3 years. Value : UK £77,754.00
- Sept 1999: Tommy’s Campaign. Extension of funds for the project : “The relationship between prematurity and parenteral nutrition in the pathogenesis of sepsis”. Investigators: A. Pierro, N. Klein. Duration: 1 years. Value : UK £26,000.00
- Oct 1999: Medical Research Council (MRC). Project : “The molecular basis of impaired thermoregulation during sepsis and analgesia”. PhD Studentship for M. Edginton. Supervisors: A. Pierro, S. Eaton. Duration: 3 years. Value : UK

£34,240.00

- Nov 1999: Fondation Eugenio Litta, Geneva, Switzerland. Project : “Effect of general anaesthesia on hepatic oxidative metabolism in the neonatal period”. Research Fellowship for M. Zamparelli. Supervisors: A. Pierro, S. Eaton. Duration: 1 year. Value: US\$ 50,000
- Nov 1999: Mason Medical Research Foundation. Project: “Does glutamine prevent liver dysfunction in sepsis?”. Investigators: A. Pierro, S. Eaton, R. Babu. Duration: 6 months. Value : UK £2,978.00
- 2000 Action Research . Project: “Liver and bowel failure following intestinal ischaemia-reperfusion injury and/or sepsis in mature and immature rats”. Research Training Fellowship for Miss Susan B. Williams : Duration: 2 years. Value : UK £81,000.
- 2000 Shane McGovern Fund. Project:“Nutritional modulation of liver function during sepsis.” for Robin Garrett-Cox. :Duration : 1 year. Value:UK £20,000.
- 2000 GOS Special Trustees. Title: “Development of the control and regulation of fatty acid oxidation in the heart” for Dr Simon Eaton. Value UK£50,488.
- 2000 SEARCH “The effect of glutamine on liver metabolism during sepsis in infants and children” for Dr Simon Eaton. Value: UK £16,592
- May 2001: Fondation Eugenio Litta, Geneva, Switzerland. Project : “Intestinal Ischaemia Reperfusion Injury and Multiorgan Failure”. Research Fellowship for S. Vinardi. Supervisors: A. Pierro, S. Eaton. Duration: 8 months. Value: CHF 25,000
- May 2001: Fondation Eugenio Litta, Geneva, Switzerland. Project:. “The value of percutaneous peritoneal drainage in neonates with necrotising enterocolitis” . Research Fellowship for S. Ragazzi. Supervisors: A. Pierro, S. Eaton. Duration: 12 months. Value: CHF 50,000
- Aug 2001: Royal College of Surgeons of England. Project: “Novel therapeutic strategies for managing liver dysfunction caused by sepsis in neonates”. Research Fellowship for R. Garrett-Cox. Supervisors: A. Pierro, S. Eaton. Duration: 1 year. Value: UK £35,000.00
- June 2001: Royal College of Physicians and Surgeons of Glasgow. Project: “Glutathione synthesis in critically ill septic infants and children”. Research Fellowship for M. Chowdhury. Supervisors: A. Pierro, S. Eaton. Duration: 1 year. Value: UK £30,000.00
- Oct. 2001: Royal College of Surgeons of England. Project: “Gut ischaemia-reperfusion injury: thermotolerance and protection from distal organ failure”. Research Fellowship for E.J. Parkinson. Supervisors: A. Pierro, S. Eaton. Duration: 1

year. Value: UK £35,000.00

Current:

- 2001 Sports Aiding Medical Research for Kids (SPARKS): “Laparoscopy in children: does it decrease the metabolic endocrine and inflammatory response to surgery? Research Fellowship for M. McHoney. Supervisors: A. Pierro, S. Eaton. Duration: 2 years. Value: UK £92,327.00
- 2002 British Association of Paediatric Surgeons/Royal College of Surgeons of England/Action Research: “Glutamine supplementation in parenteral nutrition of surgical newborn infants” for Multicentre Randomised Trial... Duration : 30 months... Value UK £250,000
- Mar 2002 The Philip Ullmann Trust. Acquisition of an Isotope Ratio Mass Spectrometer for Surgical Unit of Institute of Child Health. Value: UK £150,000.00
- May 2002: Fondation Eugenio Litta, Geneva, Switzerland. Project :. “Role of peroxynitrite in neonatal intestinal ischaemia and reperfusion” Research Fellowship for G. Stefanutti. Supervisors: A. Pierro, S. Eaton. Duration: 12 months. Value: CHF 50,000
- June 2002 Baxter SA, France. Project: Clinoleic Study – “Effect of different intravenous fat emulsions on fat utilization, peroxidation and immune function in infants and children on parenteral nutrition”. Research Fellowship for L. Wong. Supervisors: A. Pierro, S. Eaton. Duration: 12 months. Value: UK £75,000.00
- July 2002 BUPA Foundation. Project: “Promoting glutathione synthesis in critically ill septic infants and children”. Research Fellowship for M. Chowdhury. Supervisors: A. Pierro, S. Eaton. Duration: 18 months. Value: UK £76,403.00
This grant was extended by £11,000 in February 2004.
- July 2002 Project: “Intestinal phospholipase 2 expression in necrotizing enterocolitis”. Research Fellowship for P. Lister. Supervisors: A. Pierro, **S. Eaton**.
- Oct 2002 Royal College of Surgeons of England, UK. Project: “The effect of intraoral scaring on velar function in cleft palates”. Research Fellowship for F. Mehendale. Supervisors: A. Pierro. Duration: 12 months. Value: UK £51,902.00
- Oct 2002 Science Development Initiative, GOS. Project: “Protein catabolism in neonates with necrotizing enterocolitis”. Research Fellowship for N. Hall. Supervisors: A. Pierro, S. Eaton. Duration: 12 months. Value: UK £41,855.00

- Nov 2002: Fondation Eugenio Litta, Geneva, Switzerland. Project : “Expired free radical production in neonates with CDH” Research Fellowship for F. Morini. Supervisors: A. Pierro, S. Eaton. Duration: 12 months. Value: CHF 50,000
- Nov 2002 Child Health Research Appeal Trust (CHRAT) Grant, ICH. Project: “Glutathione and glutamine metabolism in neonatal sepsis”. PhD Studentship. S. Eaton, A. Pierro. Duration: 3 years, commencing Nov. 2003. Value: UK £57,054.00
- Nov 2002 Stanley Thomas Johnson Foundation, Berne, Switzerland. Project: Necrotizing Enterocolitis Trial – “Primary peritoneal drainage in necrotizing enterocolitis: Randomized controlled multicentre trial”. Research Fellowship for C. Rees. Supervisors: A. Pierro, S. Eaton. Duration: 24 months. Value: UK £100,000.00
- Dec 2002 The Children’s Research Fund, Liverpool. Project: “Intestinal ischaemia-reperfusion injury: potential therapeutic strategies”. Research Project Grant for Emma Parkinson. Supervisors: A. Pierro, S. Eaton. Duration: 24 months. Value: UK £84,000.00
- Dec 2002 SPARKS – Project: “Intestinal ischaemia-reperfusion injury: potential therapeutic strategies”. Research Project Grant for Giorgio Stefanutti. Duration: 2 years. Value: £98,041.00
- 2003 Royal College of Surgeons of England Research Fellowship: “Therapeutic moderate hypothermia in infants with severe necrotising enterocolitis”. Duration: 1 year. Value: £43,994.00
- 2003 Science Development Initiative, GOS – Project: “Intestinal ischaemia-reperfusion injury: potential therapeutic strategies”. Duration: 1 year. Value: £15,000.00

7. VISTING PROFESSORSHIPS

1. October 1998 University of Hong Kong, Queen Mary Hospital
2. April 2000 Ospedale Meyer, University of Florence, Florence Italy,
3. March 2000 Texas Children's Hospital, Baylor College of Medicine, Texas Medical Center, Houston, Texas, USA,.
4. November 2000 Kyoto Prefectural University of Medicine, Kyoto, Japan
5. June 2002 Hospital for Sick Children, Toronto, Ontario, Canada
6. October 2002 Adelaide University, Women & Children's Hospital, Australia

8. INVITED TALKS

1. "Quantitative evaluation of energy requirements in newborn infants and children". International Symposium on Parenteral and Enteral Nutrition in Paediatrics. Como, Italy, October 1989
2. "Metabolism of intravenous fat emulsions in the surgical neonate". Italian Society of Parenteral Enteral Nutrition, Pavia, Italy, September 1990
3. "Prenatal diagnosis of gastrointestinal malformations". Update Course on Neonatology, University of Rome, Rome, Italy, November 1990
4. "Energy metabolism of the surgical newborn". Special Topics Meeting, Institute of Child Health, Liverpool, England, April 1991
5. "Surgery of the very low birthweight neonate". Update Course on Neonatology, University of Rome, Rome, Italy, November 1991
6. "The Role of the Paediatric Surgeon in Prenatal Diagnosis". Liverpool Medical Institution - 'Fetal Abnormalities Workshop'. Liverpool, England, February 1992
7. "Energy metabolism and substrate utilization of the surgical neonate on TPN". The Hospital for Sick Children, Toronto, Ontario, Canada, September 1992
8. "Utilisation of Nutrients during total parenteral nutrition in infancy". Special Topics Meeting, Institute of Child Health, Liverpool, England, March 1993
9. "Key Hole Surgery". The Grand Rounds, Institute of Child Health, Liverpool,

England, June 1993

10. "Home Parenteral Nutrition". Symposium on Paediatric Oncology. University of Rome, Rome, Italy, June 1993
11. "Emergency Surgery at Birth". Liverpool John Moores University School of Health Care. Oxford Street Maternity Hospital, Liverpool, England, July 1993
12. "Total Parenteral Nutrition in Paediatrics", Symposium on Parenteral Nutrition, Cork, Ireland, September 1993
13. "Fat and carbohydrates", Course on Parenteral Nutrition in Paediatrics, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, London, England, 3 April 1995
14. "Omphalocele and Gastroschisis", British Association of Paediatric Surgeons: Education Training Meeting, Great Ormond Street Hospital for Children NHS Trust, London, England, 7 June 1995
15. "Response to intravenous feeding: substrate utilization and biliary motility", Simpson Smith Symposium, Institute of Child Health, University of London, London, England, 8 June 1995
16. "Gut surgery", Advanced Course in Paediatric Dietetics, Institute of Child Health and Great Ormond Street Children's Hospital, University of London, London, England, 4 October 1995
17. "Parenteral nutrition in paediatrics", Diploma in Gastroenterology Course, Royal Free Hospital, University Department of Paediatric Gastroenterology, London, England, 11 April 1996
18. "Primary pull-through for Hirschsprung's disease", International Congress of Paediatric Surgery, Italian Society of Paediatric Surgery, Torino, Italy, 25-28 September 1996
19. "The surgical treatment of Hirschsprung's disease", EuroSurgery 96, 6th European Congress of Surgery, Rome, Italy, 17 October 1996
20. "Infection and immunity during total parenteral nutrition in paediatrics". Injury Research Group, Oxford, England, 24-25 March 1997
21. "Total parenteral nutrition in infants and children", 2nd European Congress of Pediatric Surgery, Madrid, Spain, 8-10 May 1997
22. "Pancreatic Trauma", Simpson Smith Symposium, Institute of Child Health, University of London, London, England, 5 June 1997

23. Recent advances in the treatment of congenital diaphragmatic hernia. “Terzo Convegno di aggiornamento in Neonatologia: Assistenza respiratoria al neonato: metodiche a confronto”, Ospedale S. Pietro Fatebenefratelli, Rome, Italy, 20 June 1997
24. “Fat and carbohydrates”, Course on Parenteral Nutrition in Paediatrics, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, London, England, 23-25 June 1997
25. “Hirschsprung’s Disease”, Royal Alexandra Hospital for Sick Children, Brighton, England, 22 September 1997
26. “New developments in paediatric parenteral nutrition” , All-in-One Meeting (Pharmacia & Upjohn), Queen Charlotte’s and Chelsea Hospital, London, England, 30 October 1997
27. “Gut surgery”, Third Annual Gut Motility Disorders workshop, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, London, England, 8 November 1997
28. “Evolution of parenteral nutrition”, Peter Paul Rickham Symposium, Alder Hey Children’s Hospital, Liverpool, England, 21 November 1997
29. “General paediatric surgery”, Update in Surgery for the Paediatrician, Institute of Child Health, London, England, 27 November 1997
30. “Gastroschisi ed onfalocele: recenti acquisizioni”, XX Corso di Aggiornamento in neonatologia, Rome, Italy, 1 December 1997
31. “Total parenteral nutrition in surgical infants”, Biochemical Society Meeting, University of Reading, Reading, England, 17 December 1997
32. “Advances in the treatment of congenital diaphragmatic hernia”, Accademia Peloritana dei Pericolanti, University of Messina, Messina, Italy, 6 April 1998
33. “Recent developments in parenteral nutrition in surgical neonates”, Hammersmith Hospital, London, England, 2 July 1998
34. “Advances in the postnatal management of diaphragmatic hernia”, Course on Perinatal Management of Congenital Abnormalities, Institute of Child Health, London, England, 7 July 1998
35. “Parenteral nutrition in surgical newborn infants: effects on substrate utilisation, biliary motility and immune system”, Symposium on Parenteral Nutrition, XXII

International Congress of Paediatrics, Amsterdam, The Netherlands, 9-14 August 1998

36. “The nutritional team and monitoring of TPN”, seminar as Visiting Professor, University of Hong Kong, Queen Mary Hospital, 12 October 1998
37. “Nutrients utilization during parenteral nutrition in infancy”, lecture as Visiting Professor, University of Hong Kong, Queen Mary Hospital, 12 October 1998
38. “The short gut syndrome”, seminar as Visiting Professor, University of Hong Kong, Queen Mary Hospital, 13 October 1998
39. “TPN-related cholestasis”, seminar as Visiting Professor, University of Hong Kong, Queen Mary Hospital, 14 October 1998
40. “Parenteral nutrition, infection and immunity”, lecture as Visiting Professor, University of Hong Kong, Queen Mary Hospital, 15 October 1998
41. “Hirschsprung’s disease”, lecture as contribution to the Festschrift in Honour of Professor Edward R. Howard, King’s College School of Medicine and Dentistry, University of London, 30 October 1998
42. “Trattamento medico e chirurgico dell’ernia diaframmatica congenita”, XXI Corso di Aggiornamento in neonatologia, Rome, Italy, 1 December 1998
43. “Evolution of parenteral nutrition in infancy and childhood”, Academic Symposium for Dr. R.M. Filler, The Hospital for Sick Children, Toronto, Ontario, Canada 5 December 1998
44. “L’accesso venoso nel paziente pediatrico: l’esperienza del Great Ormond Street Hospital for Children”, Modena, Italy, 6 February 1999
45. “Fat and carbohydrate”, Course on Parenteral Nutrition in Paediatrics, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, London, England, 27 April 1999
46. “Infection in PN”, course on Parenteral Nutrition in Paediatrics, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, London, England, 28 April 1999
47. “Abnormal gut flora in infants on parenteral nutrition”, seminar on Human Gut flora in health and Disease – a role for probiotics organized Jenner Centre, Bristol Royal Infirmary, Bristol, England, 10 September 1999
48. “Nutritional support of the surgical neonate”, symposium on Nutritional Support of the Critically Ill Child Institute of Child Health, London, UK, 13 September 1999.

49. "Postnatal management and prognosis", course on Perinatal Management of Fetal Abnormalities, Institute of Child Health, London, UK, 20-22 September 1999
50. "Metabolic response to neonatal surgery", invited lecture at the American Academy of Pediatrics - Surgical Section, Washington, DC, 8-11 October 1999
51. "Gut surgery", Advanced Paediatric Dietetics (Module 1), Institute of Child Health and Great Ormond Street Children's Hospital, University of London, London, England, 2 November 1999
52. "Il reflusso gastro-esofageo in epoca neonatale", XXII Corso di Aggiornamento in neonatologia, Rome, Italy, 6 December 1999
53. "Paediatric Patients": British Association of Parenteral and Enteral Nutrition (BAPEN) Symposium on 'Nutritional support – the search for evidence' Bournemouth, England, 7 December 1999.
54. "The effect of sepsis on energy and protein metabolism of infants and children". Biochemical and Nutritional Sciences Theme – Research Seminar, Institute of Child Health, London, 4 February 2000.
55. "Parenteral nutrition and the immune system", Adolescent Nutrition: - an underrated problem. St Bartholomew's Hospital, London, 14 March 2000.
56. "Necrotizing Enterocolitis" and "The metabolic response to surgery, TPN and sepsis in neonates" Lectures as Visting Professor, Texas Children's Hospital, Houston, USA, 31 March 2000.
57. "Duhamel pull-through for Hirschsprung's disease", Simpson Smith Symposium – Controversies in Paediatric Surgery, Institute of Child Health, University of London, London, England, 8 June 2000
58. "Postnatal surgical management of diaphragmatic hernia" Perinatal Management of Congenital Abnormalities, Institute of Child Health, University of London, London, England, 11 July 2000
59. "Nutritional requirements of the surgical neonate", Nutritional Support of the Critically Ill Child, The Law Society, Chancery Lane, London, England, 4 September 2000.

60. "The use of glutamine in septic neonates" The 4th Oxford Glutamine Workshop, Oxford, England, 15 September 2000
61. "Using knives carefully (1): Pros and Cons of Reflux Surgery". "Food for Thought: Safe, Comfortable and Adequate", NE and NW Thames Regional RCPCH Meeting, Institute of Child Health, London, England, 4 October 2000.
62. "Necrotizing enterocolitis: clinical and experimental studies". XVII Congress of Asian Association of Pediatric Surgeons, Fukuoka, Japan, 9 November 2000
63. "Nutrition in postoperative surgical children". Paediatric Nutrition Symposium, Clinical Education Centre, Leicester Royal Infirmary, Leicester, England, 9 February 2001.
64. "Fat metabolism in TPN in surgical newborn infants". Post Graduate Centre, Barts and The London NHS Trust, London, UK, 27 February 2001.
65. "Energy metabolism and substrate utilisation in PN". Parenteral Nutrition in Paediatrics, Institute of Child Health, London, UK, 8 May 2001.
66. "Infection and PN". Parenteral Nutrition in Paediatrics, Institute of Child Health, London, UK, 9 May 2001.
67. "Lessons I have learned". Simpson Smith Symposium, Institute of Child Health, University of London, London, England, 30 May 2002.
68. "Short gut and the shorter patient – parenteral nutrition in paediatrics". BPGN Summer Symposium 'Parenteral Nutrition Support for Intestinal Failure – Gut Wrenching Solutions'. Nottingham, UK, 9 June 2001.
69. "Intra-abdominal masses – aetiology and management". Perinatal Management of Fetal Malformations, Institute of Child Health, University of London, London, England, 4 July 2001
70. "Metabolic challenge of neonatal surgery". Research Lecture Series, Birmingham Children's Hospital NHS Trust, Birmingham, England, 10 July 2001.
71. "Immune consequences of parenteral nutrition". British Society of Paediatric Gastroenterology, Hepatology & Nutrition Annual Winter Meeting, St Bartholomew's Hospital London, 18 January 2002.
72. "Gut Surgery". Advanced Course in Paediatric Dietetics, Institute of Child Health, University of London, 30 January 2002.
73. "Physiologic response and CO₂ elimination". Masterclass in Advanced Paediatric

Laparoscopic Surgery, Institute of Child Health, University of London, 17 April 2002.

74. "The metabolic challenge of neonatal surgery". Hospital for Sick Children, Toronto, Canada, 14 June 2002
75. "Necrotizing Enterocolitis". Women's & Children's Hospital, Adelaide, Australia, 5 November 2002
76. "Gastro-oesophageal reflux disease". Women's & Children's Hospital, Adelaide, Australia, 5 November 2002
77. "Recent advances in TPN in surgical neonates". Women's & Children's Hospital, Adelaide, Australia, 5 November 2002
78. "The metabolic response to Surgery". Grand Round Presentation, Women's & Children's Hospital, Adelaide, Australia, 6 November 2002
79. "Laparoscopic Fundoplication". 6th Masterclass in Modern Paediatric Endoscopy. Royal Free & University College Medical School, University College London, 4 December 2003
80. "Intravenous Feeding in Surgical Infants". Substrate Utilisation and Effects on Immune System". British Society Paediatric Gastroenterology Annual Winter Meeting, University of Glasgow, Crieff, Scotland, 23 January 2004
81. "What's going on in the different centres?". Academic Paediatric Surgeon's Group Meeting, St Catherine's College, Oxford. November 2003
82. "Neonatal Nutrition". "Pathogenesis of NEC". Oxford Neonatal Surgery Meeting, John Radcliffe Hospital, Oxford. 19 – 23 July 2004.
83. "Necrotising Enterocolitis". European Society of Paediatric and Neonatal Intensive Care 15th Annual Congress, London, 16-18 September, 2004.
84. "Problemi respiratori associate all'atresia dell'esofago". Up date di Pneumologia, Societa Italiana Di Neonatologia, Rome, 22-24 November 2004.
85. "Differential effects of laparoscopic and open surgery on post operative protein metabolism", British Association for Parenteral and Enteral Nutrition, Annual Meeting, Telford, 17-18 November 2004.

86. "Intravenous lipid utilisation in infants and children with sepsis and systemic inflammatory response syndrome", British Association for Parenteral and Enteral Nutrition, Annual Meeting, Telford, 17-18 November 2004.
87. "Necrotizing enterocolitis: role of P-selectin in the development of intestinal inflammation and histological injury", British Association for Parenteral and Enteral Nutrition, Annual Meeting, Telford, 17-18 November 2004.
88. "Association of hyperglycaemia with increased morbidity and mortality in neonates with necrotizing enterocolitis". British Association for Parenteral and Enteral Nutrition, Annual Meeting, Telford, 17-18 November 2004.
89. "Congenital Diaphragmatic Hernia". *Up Date di Pneumologia*, Rome, 22/24 Novembre 2004.
90. "Randomised controlled trials in paediatric surgery", 19th Congress of Asian Association of Paediatric Surgeons, 2, Hong Kong, 28 November-1 December, 2004.
91. "Necrotising Enterocolitis", 19th Congress of Asian Association of Paediatric Surgeons, 2, Hong Kong, 28 November-1 December, 2004.
92. "Total parenteral nutrition". 19th Congress of Asian Association of Paediatric Surgeons, 2, Hong Kong, 28 November-1 December, 2004.
93. "The surgical management of necrotising enterocolitis". Neonatal Update 2004, Imperial College London, 29 November-3 December 2004.
94. "Necrotising Enterocolitis: Update". Dalla Diagnosi prenatal alla Dimissione, Padova, 31 January-4 February 2005.

9. COURSES ATTENDED

1. "Supervising PhD Students" at the Institute of Child Health, London, UK, 15 March 2000.
2. Joint Research and Strategy Committee (JRSC) Awayday Tuesday 27 March 2001, London House, Mecklenburgh Square, London WC1
3. "Recruitment and Selection Refresher Course". University College London, UK, 3 May 2001.
4. Symposium on Academic Medicine organized by the Federation of Associations of Clinical Professors. London, WC1, 6 July 2001.

10. ACADEMIC SUPERVISION

- 1992 – 1993: Mr. Mathew O. Jones: “Aspects of energy and protein metabolism in surgical infants”. MD Thesis, University of Liverpool
- 1993 – 1995: Mr. Steve C. Donnell: “Metabolic utilization of intravenous fat in surgical newborn infants receiving total parenteral nutrition”. Research Fellow, Institute of Child Health, University of Liverpool
- 1994 – 1996: Mr. Girish Jawaheer: “Gallbladder contractility in infants: effects of feeding methods”. MD Thesis (being revised), University of Liverpool
- 1995 – 1996: Dr. Lorella Fasoli: “The thermogenic response to general anaesthesia in newborn infants and children”. Research Fellow, Institute of Child Health, University of London
- 1995 – 1998: Dr. Yasuhiro Okada: “Intraoperative analgesia and postoperative hypothermia in neonates”. Ph.D. Thesis, University of Juntendo, Japan. “Intravenous nutrition and host bactericidal activity” MS Thesis in preparation, University of London
- 1995 – 1998: Mr Mark Powis: “Whole body protein and energy metabolism in critically ill infants and children”. MS thesis in preparation, University of London
- 1996 – 1998: Mr Raj Basu: “Intravenous lipid metabolism: oxidation, deposition and free radicals production”. MS thesis in preparation, University of London
- 1997 – 1999: Dr. Michele Markley: “Glutamine modulation of sepsis in a neonatal rat hepatocyte model”. Ph.D. thesis in preparation, Institute of Child Health, University of London
- 1997 – 1998: Dr. Carmelo Romeo: “Biochemical pathogenesis of liver dysfunction and failure associated with episodes of sepsis in surgical infants”. Research Fellow, Institute of Child Health, University of London
- 1997 – 1998: Dr. Vittoria Lauro: “Intestinal ischaemia and reperfusion: effect on liver energy metabolism”. Research Fellow, Institute of Child Health, University of London
- 1997 - 2001: Dr. Ishita Ghosh: “Molecular and cellular mechanisms of coagulase negative staphylococcus infections in infants”. Ph.D student, Institute of Child Health, University of London
- 1997 - 2001: Dr. Paisarn Vejchapipat: “The effect of intestinal ischaemia and reperfusion on liver and intestinal metabolism”. Ph.D student, Institute of Child Health, University of London

- 1998 - 2001: Dr Alba Cruccetti: Project: “The interaction between the immune system and total parenteral nutrition in surgical paediatric patients”. MS student, Institute of Child Health, University of London
- 1998 - 2001: Dr. Marcello Zamparelli: “Effect of fentanyl and morphine on the oxidative metabolism of neonatal hepatocytes”. MS student, Institute of Child Health, University of London
- 1998 – 1999: Dr. Rosa Turi: “Energy metabolism and substrate utilization of critically ill infants and children with sepsis”. Research Fellow, Institute of Child Health, University of London
- 1998 - 2002: Miss Susan B. Williams: “The effect of sepsis and intestinal ischaemia and reperfusion on liver metabolism in neonates”. Ph.D student, Institute of Child Health, University of London
- 1998 - 1999: Mr Justin Walker: Project: “Neutrophil dysfunction in infants on total parenteral nutrition”. MS student, University of Edinburgh
- Feb–Nov 99: Mr Ramesh Babu: “Effects of amino acids on the hepatocyte mitochondrial dysfunction during neonatal sepsis”. Research Fellow, Institute of Child Health, University of London
- 1999 - 2004 Mr Mark Edginton: “The molecular basis of impaired thermoregulation during sepsis and analgesia”. PhD student, Institute of Child Health, University of London
- 2001- 2002 Dr Simona Vinardi: “Intestinal ischaemia reperfusion injury and multiorgan failure”. Research Fellow, Institute of Child Health, University of London
- 2001 - 2002 Dr Simone Ragazzi: “The value of percutaneous peritoneal drainage in neonates with necrotising enterocolitis”. Research Fellow, Institute of Child Health, University of London
- 2001 - 2002 Mr Robin Garrett-Cox: “Novel therapeutic strategies for managing liver dysfunction caused by sepsis in neonates”. Research Fellow, Institute of Child Health, University of London
- 2001 to date Mr Moti Chowdhury: “Glutathione synthesis in critically ill septic infants and children”. Research Fellow, Institute of Child Health, University of London
- 2001 to date Miss Emma Parkinson: “Gut ischaemia-reperfusion injury: thermo-tolerance and protection from distal organ failure”. Research Fellow, Institute of Child Health, University of London

- 2001 to date Mr Merrill McHoney: “Laparoscopy in children: does it decrease the metabolic endocrine and inflammatory response to surgery?”. Research Fellow, Institute of Child Health, University of London
- 2001 - 2002 Mr Haitham Dagash: “Liver metabolism during sepsis in infants and children.” Research Fellow, Institute of Child Health, University of London
- 2002 to date Dr Marina Basile. “Hepatocyte preparation and melatonin addition ...”. Research Fellow, Institute of Child Health, University of London
- 2002 to date Dr Giorgio Stefanutti, “Role of peroxynitrite in neonatal intestinal ischaemia and reperfusion”. Research Fellow, Institute of Child Health, University of London
- 2002 to date Miss Evelyn Ong, “Glutamine supplementation in parenteral nutrition of surgical newborn infants” Research Fellow, Institute of Child Health, University of London
- 2002 to date Miss Lai Wong “Effect of different intravenous fat emulsions on fat utilization, peroxidation and immune function in infants and children on parenteral nutrition”. Research Fellow, Institute of Child Health, University of London
- 2002 to date Mr Nigel Hall. “Protein catabolism in neonates with necrotizing enterocolitis”. Research Fellow, Institute of Child Health, University of London
- 2002 to date Miss Clare Rees Necrotizing Enterocolitis Trial – “Primary peritoneal drainage in necrotizing enterocolitis: Randomized controlled multicentre trial” Research Fellow, Institute of Child Health, University of Londo
- 2002 to date **?? Dr Paula Lister** “Intestinal phospholipase 2 expression in necrotizing enterocolitis”. Research Fellow, Institute of Child Health, University of London and Great Ormond Street Hospital, London OK
- 2002 to date **??Miss Felicity Mehendale** “The effect of intraoral scaring on velar function in cleft palates”. Research Fellow, Institute of Child Health, University of London and Great Ormond Street Hospital, London OK

2003 to date Dr F. Morini, “Expired free radical production in neonates with CDH”
Research Fellow, Institute of Child Health, University of London

11. TEACHING ACTIVITY

University of Rome "La Sapienza", Italy: 1988-1991

- Supervision of medical students and lectures on Paediatric Surgery to undergraduates and residents.

University of Liverpool: 1991 – 1994

- Undergraduate and postgraduate teaching of Paediatric Surgery, including tutorials, lectures and seminars. Accredited training programme for Paediatric Surgery.
- Organisation and co-ordination of O.S.C.E. examination in Paediatrics for undergraduates.
- Lectures on Paediatrics for Nursing courses.
- Lecturer for the Master's Degree in Tropical Child Health.

University of London: 1994 – present

- Postgraduate teaching in Paediatric Surgery. Accredited training programme for Paediatric Surgery.
- Lectures for the Diploma Course in Paediatric Surgery.
- Lectures on Paediatric Nutrition, Roehampton Institute, University of Surrey, London.
- Lectures on General Paediatric Surgery, MSc Course, Institute of Child Health, London

12. ENABLING ACTIVITY

Institute of Child Health and Alder Hey Children’s Hospital, Liverpool:

- Significant contribution has been made to the research productivity of the Department of Paediatric Surgery. Adequate funding was obtained to allow the research to become established. Close supervision of research fellows and research technicians was provided.
- As Chairman of the Total Parenteral Nutrition Steering Group significant time and effort was dedicated to the reorganisation of the Parenteral Nutrition Service in the

hospital. The database system used to monitor the quality of this service was improved. Regular clinical and scientific meetings were organised to establish close links between the various specialities involved.

Institute of Child Health and Great Ormond Street Children's Hospital, London:

- New research areas have been introduced in the Unit of Paediatric Surgery and important collaborations established with other groups within the University of London and other hospitals nationally and internationally. Research grants have been obtained to develop the following areas of research:
 1. Whole-body energy and protein metabolism kinetics in critically ill or septic surgical infants and children;
 2. Substrate utilization and oxygen free radical production during parenteral nutrition and critical illness;
 3. Role of gut flora and bacterial translocation in the pathogenesis of septicaemia in infants on parenteral nutrition;
 4. The interaction between nutrition and immunity in surgical infants and children;
 5. The effect of sepsis on distant organ failure with particular reference to liver metabolism;
 6. The effect of intestinal ischaemia reperfusion on liver energy metabolism.

- Actively involved in the reorganisation of the Nutrition Support Service in Great Ormond Street Hospital for Children. A successful application was made to establish an audit system of parenteral nutrition in the hospital. The financial support (£93,000) covered the cost of a full-time dietician, a data manager and computer hardware. Coordination and monitoring of the Parenteral Nutrition Service as Chairman of the Audit Project Team during the last two years. Data have been analysed and a report including recommendations to improve the parenteral nutrition service has been produced.

13. RESEARCH ACTIVITY

Studying the physiology, nutrition and metabolism of the surgical infants and children is my main scientific interest. There have been three distinct periods in my research career:

1. Toronto, Canada (1986-1988)

The energy metabolism and substrate utilisation of surgical newborn infants requiring total parenteral nutrition have been studied using the techniques of indirect calorimetry and nitrogen balances. The topics of investigation were: a) Protein sparing effect of total parenteral nutrition (ref. 32b); b) Metabolism of intravenous fat emulsion (ref. 35b); c) Energy metabolism of infants and children with extrahepatic biliary atresia (ref. 36b); d) Partition of energy metabolism in the surgical newborn infant (ref. 40b).

2. Liverpool, England (1991-1994)

A computerised indirect calorimeter was built in collaboration with the Department of Biomedical Engineering of the University of Liverpool for metabolic studies in newborn infants. In addition energy/nitrogen balances and stable isotope tracer techniques were introduced in Alder Hey Children's Hospital. Five main areas of physiology and

metabolism of surgical newborn infants were investigated and the results presented to national and international scientific meetings and published in refereed journals: a) Metabolic effects of operative stress (ref. 46b, 49b, 52b); b) Energy requirements of surgical infants (ref. 51b); c) Carbohydrate and fat utilisation during parenteral nutrition (ref. 45b, 33c, 72b); d) Whole-body protein turnover (ref. 53b, 55b); e) Gallbladder motility during parenteral nutrition (ref. 54b). In addition the mechanisms controlling the development of sepsis, septicaemia, and bacterial translocation in infants receiving parenteral nutrition were investigated (ref. 58b, 71b, 75b). The data obtained are important to reduce morbidity and mortality in these infants.

3. London, England (1994 to date)

Research has focused on the metabolic consequences of major operations, parenteral nutrition, sepsis and intestinal ischaemia/reperfusion. The overriding aim of the research is to improve the management of infants with severe surgical intestinal pathologies such as necrotising enterocolitis. Collaborations have been established within the Institute of Child Health with Immunology (Dr N. Klein), Biophysics and Biochemistry (Dr S. Williams and Dr D. Muller) and nationally in the field of Physiology (Prof M.J. Rennie, University of Dundee), Neonatology (Prof R.W.I. Cooke, University of Liverpool) and Microbiology (Dr H.K.F. vanSaene, University of Liverpool). The main areas of investigation are:

a) Thermogenesis and metabolic response to surgery in neonates

The physiology of the metabolic response to intraoperative stress factors has been under investigation (ref. 15a, 77b). New methods to study the whole-body energy metabolism in critically ill human newborn infants requiring mechanical ventilation have been developed (ref. 73b, 89b). We have discovered an inhibitory effect of analgesia (i.e. fentanyl) on neonatal rat hepatocyte oxidative metabolism (ref. 86b). In addition we have demonstrated that amino acids are capable of counteracting the inhibitory effect of fentanyl (ref. 102b).

b) Whole-body protein metabolism

The effects of major intestinal surgery and critical illness such as severe necrotizing enterocolitis on whole-body energy and protein metabolism have been characterised for the first time (ref. 73b, 89b). These observations are useful to optimise the patients nutritional management.

c) Fat utilization and oxygen-derived free radical production

We have demonstrated that: 1) critical illness causes a rise in free radical production (ref. 92b); 2) TPN causes a further rise in free radical activity both in stable and critically ill newborn infants (ref 82b). The relationship between oxidation of exogenous fat and free radical production has been analysed (ref. 82b). Promoting fat utilisation by reducing the carbohydrate/fat ratio of the TPN reduces free radical activity to a similar extent as fat exclusion. These findings have important implications for the composition of TPN.

d) Sepsis, hepatic oxidative metabolism and glutamine turnover

The biochemical pathways involved in liver derangement during sepsis in neonates have been investigated using isolated neonatal rat hepatocytes. We have demonstrated that H₂O₂ and NO produced during sepsis, impair neonatal hepatocyte oxidative metabolism (ref. 93b; 99b). The effect is dose related, intramitochondrial, and primarily at the level of ATP synthase. We have established an *in vivo* model of neonatal sepsis and we have demonstrated that endotoxaemia inhibits hepatocyte intramitochondrial O₂ consumption

and causes major ultrastructural changes to hepatocytes and their mitochondria. We have also shown that incubation of septic hepatocytes with glutamine abolishes the inhibition of intramitochondrial O₂ consumption observed during sepsis therefore restoring the ability of hepatocytes to produce ATP (ref. 100c; 107c). We are currently investigating the possible therapeutic role of glutamine in septic human infants and children.

e) Intestinal ischaemia/reperfusion: effect on distant organ failure

The differential effects of intestinal ischaemia and reperfusion on liver and intestinal energy metabolism are investigated using NMR spectroscopy. We have measured phosphorylated compounds in combination with intermediary metabolites including ketones and gluconeogenic substrates and we have investigated the time course of the event by a combination of *in vivo* and *in vitro* studies. We have shown that after prolonged periods of intestinal reperfusion (60 min) inorganic phosphate increase and ATP decreases in the liver reflecting ongoing liver energy failure (ref 74c; 99c). The observation of “delayed” liver damage upon intestinal reperfusion raises the possibility of a “window of opportunity” for therapeutic intervention to prevent the reperfusion damage to the liver. Recently we applied NMR spectroscopy to the study of intestinal metabolism during ischaemia and reperfusion (ref 103b). We have found that mild hypothermia is protective for both liver and intestinal metabolism during ischaemia and reperfusion.

f) Total parenteral nutrition, immune system and bacterial translocation

We have shown that newborn infants receiving long-term TPN have decreased bactericidal activity against coagulase negative staphylococci (ref. 69b; 84b; 85b; 104b). Duration of TPN and liver dysfunction are directly related to the impairment of host bactericidal activity. The cellular mechanism responsible for the decreased bactericidal activity is an impairment of neutrophil intracellular killing (ref. 85b; 104b). We are currently investigating the effects of intravenous lipid on neutrophil membrane composition and neutrophil function. Moreover using molecular biology techniques we are exploring the relationship between gut flora and bacterial translocation.

14. MOST SIGNIFICANT FIVE PUBLICATIONS

1. M.O. Jones, A. Pierro, P. Hammond, A. Nunn, D.A. Lloyd: Glucose utilisation in the surgical newborn infant receiving total parenteral nutrition. *J Pediatr Surg* 28:1121-1125, 1993 (Impact factor 1.114)

This study characterises the utilization of glucose during parenteral nutrition in newborn infants. The results have widely influenced the management of infants requiring parenteral nutrition.

2. G. Jawaheer, N.J. Shaw, D.A. Lloyd, A. Pierro: Gallbladder contractility in neonates: Effects of parenteral and enteral feeding. *Arch Dis Child* 72: F200-F202, 1995 (Impact factor 1.712)

This study has characterised for the first time the physiology of gallbladder contraction during enteral and parenteral feeding in newborn infants.

3. A. Pierro, H.K.F. van Saene, S.C. Donnell, J. Hughes, C. Ewan, A.J. Nunn, D.A. Lloyd: Microbial translocation in neonates on long-term parenteral nutrition. Arch Surg 131: 176-179, 1996 (Impact factor 2.526)
The endogenous source of infection during parenteral nutrition in surgical newborn infants has been demonstrated. The factors promoting microbial translocation in human infants have been characterised.

4. A. Pierro, H.K.F. van Saene, M.O. Jones, D. Brown, N.J. Nunn, D.A. Lloyd: Clinical impact of abnormal gut flora in infants receiving parenteral nutrition. Ann Surg 227: 547-552, 1998 (Impact factor 5.405)
The role of bacterial overgrowth and abnormal gut flora in the pathogenesis of septicemia during parenteral nutrition has been elucidated. The results of this study have important clinical implications for the prevention and treatment of infection during parenteral nutrition in infancy.

5. Y. Okada, Y. N.J. Klein, H.K.F. van Saene, G. Webb, H. Holzel, A. Pierro: The bactericidal activity against coagulase negative staphylococci is impaired in infants receiving long-term parenteral nutrition. Ann Surg 231:276-281, 2000 (Impact factor 5.405)
This study demonstrates for the first time that the host defence mechanisms including phagocytosis and killing are impaired during long-term total parenteral nutrition. The impaired bactericidal activity is related to a defective intracellular killing. These findings provide an explanation for the high rate of septicemia in infants on parenteral nutrition.

15. PUBLICATIONS

A) Book chapters

- 1a. F. Cozzi, P. Capocaccia, G. Colarossi, S. Hassounah, A. Pierro, M. Roggini: The outcome of congenital malformations detected in utero by ultrasonography in: A Pachi', A Calisti, G Astrei (eds): Prenatal diagnosis and surgical treatment of congenital malformations. Padova, Piccin - Butterworths, 1983, pp 179-191
- 2a. F. Cozzi, P. Capocaccia, G. Fiocca, A. Pierro, M. Roggini, D. Rosati, M. Steiner: Il megacolon congenito o malattia di Hirschsprung. in: Aggiornamenti in Chirurgia Generale. Roma, Luigi Pozzi, 1983, pp 85-96
- 3a. E. Maggi, A. Pierro, V. De Prosperi, A.F. Tulli, A. Pachi': Diagnosi prenatale di teratoma sacro-coccigeo: descrizione di un caso. in: L Carenza, F Polvani, BA Salvadori (eds): Medicina Fetale. Bologna, Monduzzi Editore, 1985, pp 605-611
- 4a. F. Cozzi, A. Pierro, L. Corbellini, P. Grilli, D. Mascagni, A. Catania, E. Orsi, C. Bellotti, R. Angelini, G. Palazzini: I tumori della parotide in eta' pediatrica. X Congresso della Societa' Italiana di Chirurgia Oncologica, Monduzzi Editore, 1986: pp 793-795
- 5a. F. Cozzi, A. Pierro: Stenosi ipertrofica del piloro. Enciclopedia Medica Italiana 14: 1150-1156, 1987, USES Edizioni Scientifiche, Firenze, Italy
- 6a. A. Pierro, R.M. Filler, V. Carnielli, T. Heim: L'uso delle emulsioni lipidiche nell'alimentazione parenterale totale del neonato chirurgico. 35 Congresso Nazionale della Societa' Italiana di Chirurgia Pediatrica, International Meeting of Pediatrics in: A Pampolini e R Menci (eds), Le Urgenze in Eta' Pediatrica, Monduzzi Editore, 1988, pp 85-89
- 7a. R.M. Filler, M.L. Greenberg, A. Pierro: Treatment of hepatoblastoma in children in: A. Di Benedetto, M. Abela, G. Sanges (eds): Relazioni del 25 Congresso della Societa' Italian di Chirurgia Pediatrica, Monduzzi Editore, 1989, pp 145-148
- 8a. D.A. Lloyd, A. Pierro. The nutritional management of the surgical neonate. In: Surgery of the Newborn. Editors N.V. Freeman, D.M. Burge, M. Griffiths, P.S.J. Malone. Churchill Livingstone, London, 1994, pp 33-42
- 9a. D.A. Lloyd, A. Pierro: The therapeutic approach to the child with feeding difficulty: III. Enteral feeding. in: Feeding the disabled child. Clinics in Developmental Medicine No. 140 Editors P.B. Sullivan and Lewis Rosenbloom, Cambridge University Press 1996, pp 132-150
- 10a. A. Pierro, L. Spitz. Treatment of adynamic bowel syndrome and pseudo-

- Hirschsprung's disease. In Holschneider AM., ed. Neuronal intestinal malformations – Hirschsprung's disease and allied disorders. Chur, Switzerland: Harwood Academic Publishers gmbh, 1997
- 11a. A. Pierro, H.K.F. van Saene: Abnormal gut flora and microbial translocation in infants receiving parenteral nutrition. In van Saene HKF, Silvestri L, de la Cal MA., eds. Infection control in the intensive care unit. Milan: Springer, 1998; pp 269-277
 - 12a. A. Pierro, M. Zamparelli: Ernia diaframmatica congenita. In M. Mendicini ed. Neonatologia. Verduci Editore, Rome 1998; pp 51-62
 - 13a. A. Pierro, C. Romeo: Occlusioni dell'apparato digerente. In M. Mendicini ed. Neonatologia. Verduci Editore, Rome 1998; pp 101-133
 - 14a. A. Pierro, V. Lauro: Difetti congeniti della parete addominale. In M. Mendicini ed. Neonatologia. Verduci Editore, Rome 1998; pp 134-145
 - 15a. A.G. Coran, A. Pierro, D.J. Schmeling: Metabolism of the neonate requiring surgery. In Lowett RM, ed. Principles of Perinatal-Neonatal Metabolism 2nd Ed. Spinger-Verlag New York Inc. 1998; pp 1131-1151
 - 16a. A. Pierro: Nutrition. In Puri P, ed: Newborn Surgery 2nd edition
 - 17a. M. Chowdhury, A. Pierro: Sacrococcygeal Teratoma. Operative Pediatric Surgery. 2004. In Press.
 - 18a. M. Basile, C. Romeo, E. Gitto, L. Spitz, A. Pierro, S. Eaton: Melatonin protects from, but does not reverse, the effects of mediators of sepsis on liver bioenergetics. Pediatric surgery international; 20, 263-266, 2004
 - 19a. M. Chowdhury, M. Samuel, A. Ramsay, J. Constantinou, K. McHugh, A. Pierro: Spontaneous postnatal involution of intraabdominal pulmonary sequestration. J Pediatr Surg; 39, 1273-1275, 2004
 - 20a. S. Eaton, A. Pierro: Carnitine and Fatty acid Oxidation in Sepsis. Chemical Monthly; In Press, 2004
 - 21a. S. Eaton, N. Hall, C.M. Rees, A. Pierro: Necrotizing enterocolitis: pathogenesis, medical management and surgery. Br J Intensive Care; 14, 101-105, 2004
 - 22a. K. Fukumoto, A. Pierro, V.A. Zammit, L. Spitz, S. Eaton: Tyrosine nitration of carnitine palmitoyl transferase I during endotoxaemia in suckling rats. Biochim Biophys Acta; 1683, 1-6, 2004
 - 23a. N. Hall, A. Pierro: Necrotizing enterocolitis. Hosp Med; 65, 220-225, 2004

- 24a. N.J. Hall, Z.J. Van Der, H.L. Tan, A. Pierro: Meta-analysis of laparoscopic versus open pyloromyotomy. *Ann Surg*; 240, 774-778, 2004
- 25a. N.J. Hall, N. Ade-Ajayi, J. Al Roubaie, J. Curry, E.M. Kiely, A. Pierro: Retrospective comparison of open versus laparoscopic pyloromyotomy. *Br J Surg*; 91, 1325-1329, 2004
- 26a. N.J. Hall, M. Peters, S. Eaton, A. Pierro: Hyperglycemia is associated with increased morbidity and mortality rates in neonates with necrotizing enterocolitis. *J Pediatr Surg*; 39, 898-901, 2004
- 27a. E.J. Parkinson, P.A. Townsend, A. Stephanou, D.S. Latchman, S. Eaton, A. Pierro: The protective effect of moderate hypothermia during intestinal ischemia-reperfusion is associated with modification of hepatic transcription factor activation. *J Pediatr Surg*; 39, 696-701, 2004
- 28a. A. Pierro , S. Eaton: Nutrition in the neonatal surgical patient. 2004 check with SIMON
- 29a. A. Pierro, N. Hall, A. Ade-Ajayi, J. Curry, E.M. Kiely Em: Laparoscopy assists surgical decision making in infants with necrotizing enterocolitis. *J Pediatr Surg*; 39, 902-906, 2004
- 30a. A. Pierro, S. Eaton: Intestinal ischemia reperfusion injury and multisystem organ failure. *Semin Pediatr Surg*; 13, 11-17, 2004
- 31a. C.M. Rees, N.J. Hall, S. Eaton, A. Pierro: Surgical strategies for necrotizing enterocolitis: a survey of practice in the United Kingdom. *Arch Dis Child*; 90, F152-F155, 2004
- 32a. L. Spitz, E. Kiely, A. Pierro: Gastric transposition in children--a 21-year experience. *J Pediatr Surg*; 39, 276-281, 2004
- 33a. G. Stefanutti, P. Lister, V.V. Smith, M.J. Peters, N.J. Klein, A. Pierro, S. Eaton: P-Selectin Expression, Neutrophil Infiltration and Histological Injury in Neonates with Necrotizing Enterocolitis. *J Pediatr Surg*; In press, 2004 (I COULDN'T FIND THIS IN PUBMED – is this a chapter or journal????) check with Simon
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