

CURRICULUM VITAE

SEPTEMBER 2005

DR MIKE THOMSON

NAME MICHAEL ANDREW THOMSON

DATE OF BIRTH 30.6.1962

Married, 3 daughters

QUALIFICATIONS

MB ChB - February 1985
DCH - October 1987
MRCP(Paeds) - September 1990
FRCPCH - July 1997
MD – October 1999
FRCP – June 2002

**UNDERGRADUATE MEDICAL EDUCATION
AND QUALIFICATIONS**

MEDICAL SCHOOL Aberdeen University Medical School
1980-1985

Physiology merit 1980

Anatomy merit 1981

PRESENT CONSULTANT POST:

May 2004-ongoing

**Clinical Director of the Centre for Paediatric Gastroenterology
Sheffield Children's Hospital NHS Trust
Honorary Senior Lecturer
Sheffield University Medical School
England**

PREVIOUS CONSULTANT POST:

**Clinical Director of Centre for Paediatric Gastroenterology
Consultant Paediatrician in Gastroenterology and Nutrition / Honorary Senior Lecturer
University Department of Paediatric Gastroenterology
Royal Free Hospital, London
November 1995-April 2004**

This was a newly-created unit in 1995, initially led by Professor Walker-Smith with three consultants, and was the only department in the United Kingdom which had University Departmental status in its own right. This is a specifically designed 14 bed facility providing a paediatric gastroenterology regional service to the Central/Northern London region with a catchment population of approximately 3 million. In addition it attracts extensive supra-regional referrals and a significant number of foreign referrals are also seen.

The brief of the NHS consultant post which I held was to:

- a) develop and head a Nutritional Support Team (including establishing a computer-based parenteral nutrition service) for paediatrics as a whole;
- b) develop and carry out an upper and lower GI endoscopy service, plus ERCP and interventional endoscopy (currently comprising three lists a week under general anaesthetic);
- c) coordinate and where necessary supervise a wide range of gastroenterological investigations including pH monitoring, upper and lower GI motility studies, and hydrogen breath tests;
- d) perform regular audit of the unit's activity;
- e) spend two sessions in general paediatric ward rounds and clinics with a general paediatric on-call commitment of 1 in 6;
- f) take responsibility for the specialist unit for 50% of the day to day commitment and colonoscopy lists, and with a 1 in 3 on call ratio;
- g) maintain and develop a personal research base of two sessions per week.

All of the above and in particular the Nutrition Support Team and endoscopy service I achieved within a relatively short time frame. I also maintained strong links with the general paediatric service with a one in five service commitment and developed an outreach clinic programme for a number of nearby district-general paediatric units.

I set up a Paediatric ERCP Service and jointly led a Paediatric Pancreatic Diseases Clinic. I brought together all the necessary specialists and skill mixes required for the components of a Feeding Disorders Clinic for inpatient and outpatient care.

Ongoing and active participation in undergraduate and postgraduate teaching was also a priority for me in this post, and I organised and still run Paediatric Membership courses with a first time pass rate of 95%. (National average 35%).

I was the Clinical Governance Officer for the Unit and arranged monthly audit, guideline, and critical incident meetings for the department.

Current research interests are in the areas of gastro-oesophageal reflux using a number of new physiological techniques such as intraluminal impedance, histological and ultra-structural changes in reflux oesophagitis, endoscopy training, advanced therapeutic and diagnostic endoscopy in paediatrics, recurrent abdominal pain of childhood, and H pylori, and non-invasive versus invasive assessment for inflammatory bowel disease.

ADULT CLINICAL EXPERIENCE:**GENERAL:****General Medicine:**

House Officer, Harrogate DGH, Yorkshire. Cardiology, Endocrinology, Chest Medicine. (August 1985 - January 1986).

Senior House Officer, North Manchester General Hospital. (August 1987 - January 1988).

General Surgery:

House Officer, York DGH, Yorkshire. General Surgery, Vascular, Orthopaedics. (February 1986 - July 1986).

Chest Medicine:

Senior House Officer, Monsall Hospital, Manchester.
Regional Cystic Fibrosis Centre. Experience in bronchoscopy.
(February 1988 - July 1988).

Cardiology:

Senior House Officer, North Manchester General Hospital.
Experience in CCU, cardiac pacing, intensive invasive monitoring, exercise testing.
(August 1987 - January 1988).

Infectious Diseases:

Senior House Officer, Monsall Hospital, Manchester.
Regional AIDS centre. General infectious disease admissions.
(February 1988 - July 1988).

PAEDIATRIC CLINICAL EXPERIENCE:**GENERAL:**

Senior House Officer, Harrogate DGH, Yorkshire. Dr D Gillies, Dr J Sarsfield.
(August 1986 - July 1987).

Senior House Officer, St James University Hospital, Leeds, Yorkshire.
Dr J Littlewood, Dr T Brocklebank, Prof R Meadow. (August 1988 - July 1989).

SPECIALIST:**Surgery:**

Senior House Officer, St James University Hospital, Leeds, Yorkshire. General surgery, urology, neurosurgery, oncological surgery. (August 1988 - October 1988).

Child protection unit:

Senior House Officer, St James University Hospital, Leeds, Yorkshire.
Dr C Hobbs. All aspects of physical, sexual and emotional abuse with expert witness experience in court and coordination of case conferences. (April 1989 - July 1989).

Neurology:

Senior House Officer, St James University Hospital, Leeds, Yorkshire.
Dr E Roussounis. Acute and chronic neurological disorders and involvement in Regional Child Development Centre. (April 1989 - July 1989).

Neonatology:

Senior House Officer, St James University Hospital, Leeds, Yorkshire. Dr P Dear. Regional Neonatology Unit with capacity for 8-10 ventilated neonates; 28 cot unit. Six month attachment as SHO and 12 month cover as Clinical Tutor/Registrar. (1988 - 1990).

Registrar at Mount Isa Base Hospital, Queensland, Australia. Responsible for ventilation and intensive care of neonates in a dedicated neonatal intensive care unit. (December 1990 - April 1991).

Respiratory:

Senior House Officer, St James University Hospital, Leeds, Yorkshire. Dr J Littlewood. Regional Cystic Fibrosis Unit. (May 1989 - July 1989). Clinical Tutor/ Registrar in same unit for 12 months following SHO rotation. (August 1989 - July 1990).

Endocrinology:

Senior House Officer, St James University Hospital, Leeds, Yorkshire. (May 1989 - July 1989). Dr J Littlewood. Regional diabetic service as well as other endocrinology experience. Clinical Tutor/ Registrar in same unit for 12 months following SHO rotation. (August 1989 - July 1990).

Community:

Registrar in Mount Isa Hospital, Central Queensland, Australia. Health Surveillance Clinics and meningococcal vaccination program primarily with the Aboriginal population. In conjunction with the Flying Doctor Service this post allowed assessment and management of a wide range of diseases (including malaria, cholera, acute rheumatic fever, leprosy, protein-energy malnutrition etc) and social issues contributing to the poor standard of health of the Aboriginal child, within a framework of clinical autonomy. (December 1990 - April 1991).

Intensive Care:

Registrar, Royal Children's Hospital, Brisbane, Australia. Experience of all practical procedures and ventilation. Care of post-liver transplant cases. (April 1991 - July 1991).

Oncology:

Registrar, Royal Children's Hospital, Brisbane, Australia. Supra-regional Oncology service - this proved to be an extremely rewarding attachment in terms of experience in the practical management of acute and maintenance treatment of children suffering from a wide variety of oncological and haematological processes. (July 1991-December 1991).

Gastroenterology/Hepatology:

Senior House Officer, St James University Hospital, Leeds, Yorkshire. Regional Gastroenterology Service. (May 1989 - July 1989).

Clinical Tutor/ Registrar, St James University Hospital, Leeds, Yorkshire. Regional Gastroenterology Service. (August 1989 - July 1990).

Clinical Research Fellow in Gastroenterology/ Cystic Fibrosis, Royal Children's Hospital Foundation, Brisbane. (January 1992 - May 1994).

I gained enormous benefit from this two year post in terms of clinical skills and in particular I received excellent training in many facets of gastrointestinal investigation including carrying out 3 endoscopy/colonoscopy lists a week in a unit with a turnover of more than 1000 cases per annum. Familiarisation and subsequent proficiency was gained in other areas of gastroenterological investigation such as oesophageal and rectal manometry; pancreatic function tests; ambulant pH studies; rectal secretory studies; and liver biopsies/functional studies. An active well-equipped nutrition laboratory exists allowing resting and total energy expenditure measurement - forming the basis of my MD proposal and research.

Child Health Lecturer/ Honorary Senior Registrar in Hepatology. Liver unit, Birmingham Children's Hospital.

July 1994 - September 1995

This unit involves a regional catchment population of 5 million and supra-regional of 25 million and is one of three in the United Kingdom providing care to children with all forms of liver disease which includes neonatal liver disease and chronic liver disease, and is the major UK centre for metabolic liver disease. In addition medical support for acute liver failure with emergency liver transplantation is provided requiring intensive input at Senior Registrar level. The activity of the liver transplant service results in 35-45 paediatric transplants per year, and there is a small bowel/liver transplant programme which has resulted in the only European transplants to date - this facility will be expanding with an estimated 10 children requiring this intervention per year in the UK.

Responsibilities at Senior Registrar/Lecturer level included inpatient care, clinics, two to three endoscopy lists per week, registrar and medical student teaching, arrangement and organisation of final year medical student exams, and administration for junior doctors within the unit. A very healthy research atmosphere exists and 3 sessions per week were spent in this area. Research interests during this post are listed below:

1. Energy expenditure studies in fulminant hepatic failure.

The analysis of resting energy expenditure in infants and young children with acute fulminant hepatic failure when ventilated is an area which hitherto has received little attention, and the grossly catabolic state which basic physiology dictates would exist in these infants may, in part, explain their marked acidosis and glucose requirement and poor eventual outcome. Indirect calorimetry techniques will be used to assess resting energy expenditure and energy balance studies and protein turnover will enable improved understanding of the role of catabolism in this group.

2. Cyclosporin pharmacodynamics post-hepatic transplant.

Further pharmaceutical research and development has now resulted in a microemulsion formulation of cyclosporin A (Neoral®). This preparation is more readily absorbed and has demonstrated more predictable and consistent pharmacokinetic characteristics when compared with Sandimmun® in single dose studies in normal healthy volunteers and in stable renal transplant patients. This pilot study is designed to investigate the potential of Neoral® to replace the need for intravenous Sandimmun® given from the day of transplantation. Pharmacokinetic studies performed on 3 occasions during the first postoperative week will provide information on the relative bioavailability of Neoral® as normal gut and liver function return. Additional clinical data will be collected to assess the short term tolerability, safety and efficacy of Neoral® when used as part of prophylactic immunosuppressive regimens in this unit. These data may be compared with those from matched historical controls and could form the initial basis for recommendations on the future use of Neoral® in liver transplantation.

3.Hepatic transplant success in respiratory chain defects.

The presence of mitochondrial respiratory chain defects in some infants and children presenting in fulminant liver failure is associated with a relentless neurological decline post-transplant resulting uniformly in death despite a normally-functioning transplant. In order to rationalise the place of liver transplant in the treatment of children presenting with acute fulminant liver failure we are aiming to vigorously correct coagulopathy pre-transplant in order to carry out skeletal muscle biopsy - this, if positive for respiratory chain defects, would then act as an absolute contraindication to liver transplant.

OTHER RESEARCH EXPERIENCE:

Post: Clinical Research Fellow in Gastroenterology/ Cystic Fibrosis, Royal Children's Hospital Foundation, Brisbane. (January 1992 - May 1994).

Successful funding application in three consecutive years. This post enabled awareness of the practical problems of research in childhood and I had the opportunity to become statistics and computer-literate; set up, run, and analyse the results of clinical trials; and also had the opportunity to travel to and present at major international meetings and give numerous other presentations and lectures within a teaching and postgraduate framework.

PUBLICATIONS

1. The effect of dexamethasone therapy on the pattern and incidence of infection in pre-term babies - a prospective controlled study. Ng F, Thomson M, Dear P. **Archives of Disease in Childhood**. Jan 1990.
2. Canine-human transmission of *Gastrospirillum hominis*. MA Thomson, P Storey, R Greer, Cleghorn GJ. Short report. **The Lancet**. 1994;343:1605-07.
3. Canine-human transmission of *Gastrospirillum hominis*. MA Thomson, P Storey, R Greer, Cleghorn GJ. Letter. **The Lancet**. 1994;344:1097-98.
4. Persistent wheezing and gastroesophageal reflux in infants. Eid N, Shepherd RW, Thomson MA. **Pediatric Pulmonology**. 1994; 18:39-44.
5. Measured vs predicted resting energy expenditure in infants: a need for reappraisal. Thomson M, Bucolo S, Quirk P, Shepherd RW. **Journal of Pediatrics**. 1995; 126:21-7.
6. Nutritional growth retardation is associated with defective lung growth in cystic fibrosis: a preventable determinant of progressive pulmonary dysfunction. MA Thomson, P Quirk, CE Swanson, BJ Thomas, PJ Francis, RW Shepherd. **Nutrition**. 1995; 11(4):1-5.
7. Control of group C meningococcal disease in Australian Aboriginal children by mass rifampicin chemoprophylaxis and vaccination. MC Pearce, JW Sheridan, DM Jones, GW Lawrence, DM Murphy, B Masutti, C McCosker, V Douglas, D George, A O'Keefe, M Thomson, B Gorman, D Hansman, PS Hill. **The Lancet**. 1995(July); 346:20-23.
8. The economic cost of traveller's diarrhoea. (Lead article). Thomson MA, Booth IW. **Pharmacoeconomics**. 1996;9(5):382-91.
9. Resting energy expenditure, pulmonary inflammation, and genotype in the early course of cystic fibrosis. MA Thomson, RW Wilmott, C Wainwright, B Masters, PJ Francis, RW Shepherd. **Journal of Pediatrics**. 1996;129:367-73.
10. Ileal lymphoid nodular hyperplasia, non-specific colitis and pervasive behavioural disorder in children. **The Lancet**. 1998(Feb);351:637-41.
11. Autism, inflammatory bowel disease, and MMR vaccine. Murch S, Thomson M, Walker-Smith J. **The Lancet**. 1998(March);351:908.
12. General mitochondrial cytopathy is an absolute contraindication to orthotopic liver transplant in childhood. Rapid communication. Thomson M, McKiernan P, Buckels J, Mayer D, Kelly D. **Journal of Pediatric Gastroenterology and Nutrition**. 1998;26:478-81.
13. Gastro-oesophageal reflux in infants and children. Thomson M. **Family Medicine**. 1998.

14. Efficacy of Neoral in the immediate postoperative period in children post-liver transplantation. van Mourik I, Thomson M, Kelly D. **Liver Transplantation and Surgery**. 1998(Nov);4(6):491-8.
15. Neoral cyclosporin preparation and prevention of chronic rejection. **Liver Transplantation and Surgery**. van Mourik I, Thomson M, Kelly D. 1999(Mar);5(2):107-11.
16. Low-dose intravenous azathioprine may be effective in the management of acute fulminant colitis complicating inflammatory bowel disease. Casson D, Davies S, Thomson M, Lewis A, Walker-Smith J, Murch S. **Alimentary Pharmacology and Therapeutics**. 1999;13:891-5.
17. Helicobacter pylori: the story so far. Thomson M. Invited Editorial. **British Medical Journal**. 1999;7209:541.
18. Are endoscopic biopsies of small bowel as good as suction biopsies for the diagnosis of enteropathy? Thomson M, Kitchen P, Jones A, Phillips A. **Journal of Pediatric Gastroenterology and Nutrition**. 1999; 29(4):438-41.
19. Crohn's disease or intestinal tuberculosis? Salvatore S and Thomson M. **Inflammatory Bowel Disease Monitor**. 1999; 1(2):59-61.
20. Helicobacter pylori. The story so far. Thomson M. Letter. **British Medical Journal**. Jan 2000.
21. Orthotopic liver transplantation with poor neurological outcome in valproate-associated liver failure. Thomson MA, Shepherd R, Lynch S, Strong R, Marsh W. **Transplantation Proceedings**. 2000;32(1):200-3.
22. Entero-colitis and immunodeficiency in children with developmental disorders. Wakefield A, Anthony A, Murch S, Thomson M, Montgomery S, Davies S, O'Leary J, Berelowitz M, Walker-Smith J. **American Journal of Gastroenterology**. 2000;95(9):2285-95.
23. Lymphocytic colitis, with CD8 and $\gamma\delta$ T cell infiltration and epithelial damage, in children with autism. Furlano R, Anthony A, Day R, Brown A, McGarvey L, Thomson M, Davies S, Berelowitz M, Forbes A, Wakefield A, Walker-Smith J, Murch S. **Journal of Pediatrics**. 2001;138:366-72.
24. Constipation in childhood. Afsal N, Thomson M. **Prescriber's Journal**. 2001;12(10):101-7.
25. Intestinal and systemic infection, HIV, and mortality in Zambian children with persistent diarrhea and malnutrition. **Journal of Pediatric Gastroenterology and Nutrition**. 2001;32(5):550-4.

26. Small intestinal enteropathy with epithelial IgG and complement deposition in children with regressive autism. F Torrente, P Ashwood, R Day, N Machado, R Furlano, A Anthony, S Davies, A Wakefield, MA Thomson, JA Walker-Smith, SH Murch. **Molecular Psychiatry**. April 2002.
27. Potential viral pathogenic mechanism for new variant inflammatory bowel disease. V Uhlmann, C M Martin, O Sheils, L Pilkington, I Silva, A Killalea, S H Murch, M Thomson, J A Walker-Smith A J Wakefield, JJ O'Leary. **Molecular Pathology**. April 2002.
28. Treatment of oesophageal strictures in childhood. Afsal N, Lloyd-Thomas A, Albert D, Thomson M. **The Lancet**. 2002;359:1032.
29. Tissue tropism of enteropathogenic *Escherichia coli* strains belonging to the O55 serogroup. RJ Fitzhenry, S Reece, LR Trabulsi, R Heuschkel, S Murch, M Thomson, G Frankel, AD Phillips. **Infection and Immunity**. June 2002.
30. Upregulated eotaxin expression and T-cell infiltration in the basal and papillary epithelium in cow's milk associated reflux oesophagitis. AM Butt, SH Murch, C-L Ng, P Kitching, SM Montgomery, AD Phillips, JA Walker-Smith, MA Thomson. **Archives of Disease in Childhood**. 2002;86:0-6.
31. Esophageal pH monitoring and impedance measurement: a comparison of two diagnostic tests for gastroesophageal reflux. Wenzl T, Moroder C, Trachterna M, Thomson M, Silny J, Heimann G, Skopnik H. **Journal of Pediatric Gastroenterology and Nutrition**. 2002;34:519-23.
32. The pediatric esophagus comes of age. Thomson M. **Journal of Pediatric Gastroenterology and Nutrition**. 2002;34:S40-S45.
33. Management of Uncomplicated Reflux and Regurgitation in Infants and Young Children. Thomson M. **Clinical Nutrition**. 2002;11(2);1-7.
34. Refeeding syndrome: case report and a review of the literature. Afzal N, Addai S, Fagbemi A, Thomson M, Murch S, Heuschkel R. **Clinical Nutrition**. Accepted July 2002.
35. Diarrhoea in infants and children. Afzal N, Thomson M. **The Journal of Family Healthcare**. 2002;12(6):146-150.
36. Reflux: causes and treatments. **The Journal of Family Healthcare**. 2002;12(6) Supplement:6.
37. High dose azathioprine in children with IBD. **Alimentary Pharmacology and Therapeutics**. Fuentes D, Torrente F, Keady S, Thirrupathy K, Thomson MA, Walker-Smith JA, Murch SH, Heuschkel RB. 2003;17:913-21.

38. Use of unlicensed and off-label medications in paediatric gastroenterology with a review of the commonly used formularies in the UK. **Alimentary Pharmacology and Therapeutics**. A Dick, S Keady, F Mohamed, S Brayley, M Thomson, BW Lloyd, R Heuschkel, NA Afzal. 2003; 17: 1–5.
39. Paediatric gastro-oesophageal reflux in ENT practice. **ENT News**. Rawat D, Thomson M. 2003;12(1):52-6.
40. Human intestinal tissue tropism of intimin epsilon O103 Escherichia coli. **FEMS Microbiology**. Fitzhenry R, Stephens M, Jenkins C, Wallis T, Heuschkel R, Murch S, Thomson M, Frankel G, Phillips A. 2003.
41. Spontaneous T_H1 cytokine production by intraepithelial but not circulating T cells in infants with or without food allergies. **Allergy**. 2004;59:346-53. Miguel A Pérez-Machado, Paul Ashwood, Franco Torrente, Camilla Salvestrini, Rosalind Sim, Michael A Thomson, John A Walker-Smith, Simon H Murch. .
42. A consistent pattern of minor immunodeficiency and subtle enteropathy in children with multiple food allergy. F Latcham, F Merino, A Lang, J Garvey, MA Thomson, JA Walker-Smith, S Davies, A Phillips, S Murch. **J Pediatr**. June 2003.
43. Reduced transforming growth factor- I 1-producing T cells in the duodenal mucosa of children with food allergy. M Perez-Machado, P Ashwood, M Thomson, F Latcham, R Sim, J Walker-Smith, S Murch. **Eur. J. Immunol**. 2003 Aug; 33(8): 2307-15.
44. Intestinal lymphocyte populations in children with regressive autism: evidence for extensive mucosal immunopathology. Ashwood P, Murch S, Anthony A, Pellicer A, Torrente F, Thomson M, Walker-Smith J, Wakefield A. **J Clin Immunol**. 2003;23(6):504-17.
45. Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease. Thomson M, Fritscher-Ravens A, Afsal N, Hall S, Swain P. **Gut**. 2004;53(12):1745-50.
46. Developments in the management of GOR. M Thomson. **MIMS Advances**. 2004;2:9-10.
47. Advances in endoscopy and other diagnostic techniques: Working Group report of the second World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition. Olives JP, Bontems P, Costaguta A, Fritscher-Ravens A, Gilger M, Narkewicz M, Ni YH, Spolidoro J, Thomson M; European Society for Paediatric Gastroenterology, Hepatology and Nutrition. **J Pediatr Gastroenterol Nutr**. 2004;39 Suppl 2:S589-95.

48. Early interactions of *Salmonella enterica* serovar typhimurium with human small intestinal epithelial explants. Haque A, Bowe F, Fitzhenry RJ, Frankel G, Thomson M, Heuschkel R, Murch S, Stevens MP, Wallis TS, Phillips AD, Dougan G. **Gut**. 2004;53(10):1424-30.
49. Diagnostic role of upper gastrointestinal endoscopy in pediatric inflammatory bowel disease. Castellaneta SP, Afzal NA, Greenberg M, Deere H, Davies S, Murch SH, Walker-Smith JA, Thomson M. **J Pediatr Gastroenterol Nutr**. 2004;39(3):257-61.
50. Focal-enhanced gastritis in regressive autism with features distinct from Crohn's and *Helicobacter pylori* gastritis. Torrente F, Anthony A, Heuschkel RB, Thomson MA, Ashwood P, Murch SH. **Am J Gastroenterol**. 2004;99(4):598-605.
51. The Influence of Gaviscon Infant or placebo on gastro-oesophageal reflux in infants: Investigations with the Intraluminal Multiple Electrical Impedance Procedure (IMP). R Del Buono, T G Wenzl, G Ball, S Keady, M Thomson. **Arch Dis Child**. 2005.
52. Use of single dose antibiotic prophylaxis in prevention of peri-PEG infection in children. Rawat D, Keady S, Thomson M. **Journal of Paediatric Gastroenterology**. 2005;
53. Impedance-pH monitoring: paediatric and infant patient experience. Wenzl T, Thomson M. **Logopedics Phoniatrics Vocology**. 2005(Aug);30(Suppl 1):18-20.
54. Paediatric gastro-oesophageal reflux: non-GI manifestations. Thomson M. **Logopedics Phoniatrics Vocology**. 2005(Aug);30(Suppl 1):23-6.

ABSTRACTS

1. A new high lipase pancreatic enzyme supplement in cystic fibrosis: greater efficacy of nitrogen, fat, and energy absorption. Thomson MA, Clegg J, Shepherd RW. **Journal of Pediatric Gastroenterology and Nutrition**. Dec 1992.
2. The body cell mass and altered protein energy metabolism in cystic fibrosis. Abstract. Thomson MA, Bucolo S, Thomas BJ, Holt T, Shepherd RW. **Pediatric Pulmonology**. 1993(Sep); Supplement 9:286.
3. Further evidence that nutritional growth retardation is associated with defective lung growth in cystic fibrosis: a preventable determinant of progressive pulmonary dysfunction. Abstract. Thomson MA, P Quirk, C Swanson, B Thomas, P Francis, Shepherd RW. **Pediatric Pulmonology**. 1993(Sep); Supplement 9:286.
4. Measuring individual energy requirements in CF infants: inaccuracy of predictive equations and validation of heart rate monitoring. Abstract. M A Thomson, R W Shepherd, R Greer, Bucolo S. **Pediatric Pulmonology**. 1994(Sep); Supplement 10:276.
5. Measuring individual energy requirement in infants: inaccuracy of predictive equations and validation of heart rate monitoring. Abstract. M.A. Thomson, S. Bucolo, R.W. Shepherd. **Proceedings of the Nutrition Society**. 1995; 54(2):109A.
6. Orthotopic liver transplantation is unsuccessful for valproate-associated liver failure in childhood : a need for critical risk-benefit appraisal in the use of valproate. Thomson MA, McLaughlin D, Eadie M, Lynch S, Strong R, Shaw B, Shepherd RW, Marshall W. Abstract. **Journal of Pediatric Gastroenterology and Nutrition**. 1995; 20(4):451.
7. Factors affecting nutrition in early CF: resting energy expenditure, pulmonary inflammatory markers, body composition, and genotype in a neonatally-screened population. Thomson MA, Greer R, Masters B, Cleghorn G, Wilmott R, Francis PJ, Shepherd RW. **Proceedings of the Nutrition Society**. 1996;55(2):180A.
8. "Exclusion of generalised mitochondrial cytopathy before liver transplant in fulminant hepatic failure". Thomson M, McKiernan P, Buckels J, Mayer D, Kelly D. **Journal of Pediatric Gastroenterology and Nutrition**. 1996;22(4):432A.
9. "Is Neoral an effective alternative immunosuppressant drug in children post liver transplant? **Journal of Pediatric Gastroenterology and Nutrition**. 1996;22(4):434A.
10. Functionally significant secondary inflammation occurs in a primary epithelial enteropathy. Murch S, Graham A, Vermault A, Thomson M, Phillips A, Walker-Smith J. **Journal of Pediatric Gastroenterology and Nutrition**. 1997;24(4):467A.

11. A role for intravenous azathioprine in acute fulminant colitis complicating paediatric IBD. Casson D, Thomson M, Walker-Smith J, Murch S. **Journal of Pediatric Gastroenterology and Nutrition.** 1997;24(4):475A.
12. Functionally significant secondary inflammation occurs in a primary epithelial enteropathy. Murch S, Graham A, Vermault A, Thomson M, Phillips A, Walker-Smith J. **Journal of Pediatric Gastroenterology and Nutrition.** 1997;24(4):467.
13. Ileal lymphoid nodular hyperplasia, non-specific colitis and regressive behavioural disorder: a new syndrome? Wakefield A, Murch S, Anthony A, Linnell J, Casson D, Malik M, Berelowitz M, Dhillon P, Thomson M, Harvey P, Valentine A, Davies S, Walker-Smith J. **Journal of Pediatric Gastroenterology and Nutrition.** 1997;25(S1):S47.
14. Initial trial of N-acetyl glucosamine in children with chronic inflammatory bowel disease. Murch S, Salvatore S, Heushkel R, Thomson M, Davies S, French I, Walker-Smith J. **Gut.** 1998;42(suppl 1):A9.
15. Histological comparison of recto-sigmoid and full colonoscopic biopsies in the assessment of inflammatory bowel disease in childhood. Deere H, Casson D, Thomson M, Davies S. **Gut.** 1998;42(Suppl 1):A55.
16. Autistic enteropathy: a new inflammatory bowel disease? Wakefield A, Murch S, Anthony A, Linnell J, Thomas J, Berelowitz M, Dhillon P, Thomson M, Davies S, Walker-Smith J. **Gut.** 1998;42(Suppl 1):A85.
17. Persistent measles virus (MV) infection and immunodeficiency in children with autism, ileo-colonic lymphonodular hyperplasia and non-specific colitis. Wakefield A, Anthony A, Schepelmann S, Kawashima H, Sim R, Khan K, Murch S, Thomson M, Thomas J, Walker-Smith J. **Gut.** 1998;42(Suppl 1):A86.
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19. Ileo-colonic lymphoid nodular hyperplasia (LNH) is associated with immunodeficiency in children with developmental disorders (DD). Murch S, Anthony A, Thomson M, Montgomery S, Berelowitz M, Walker-Smith J, Wakefield A. **Gut.** 1999;44(Suppl 1):A127.
20. Ileo-colonic lymphoid nodular hyperplasia (LNH) is associated with immunodeficiency in children with autistic spectrum disorders (ASD). Murch S, Anthony A, Thomson M, Montgomery S, Berelowitz M, Walker-Smith J, Wakefield A. **Gastroenterology.** 1999;116:A568.

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23. A Placebo-Controlled Trial of Azathioprine Therapy in Moderate to Severe New-Onset Colitis. DH Casson, N Shah, RB Heuschkel, S Keady, MA Thomson, SM Montgomery, S Davies, JA Walker-Smith, SH Murch. **Journal of Pediatric Gastroenterology and Nutrition**. 2000; 31:s16.
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25. Role of Surgery in Paediatric Crohn's Disease. A Magoffin, A Lewis, S Murch, M Thomson, J Walker-Smith. **Journal of Pediatric Gastroenterology and Nutrition**. 2000; 31:s78.
26. Foregut Inflammation is Underdiagnosed in Cyclical Vomiting Syndrome. NF Shah, MA Thomson, JA Walker-Smith, VV Smith, KJ Lindley, PJ Milla.. **Journal of Pediatric Gastroenterology and Nutrition**. 2000; 31:s126.
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28. Distinct Immunological Features of Children with Multiple Food Allergy. F Latcham, F Merino, C Winter, A Lang, J Garvey, MA Thomson, JA Walker-Smith, AD Phillips, SH Murch. **Journal of Pediatric Gastroenterology and Nutrition**. 2000; 31:s138.
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J Pediatr Gastroenterol Nutr 2001; 32 (3): 356

32. Intraluminal impedance technique – application to paediatric gastro-oesophageal reflux. Thomson M, Wenzl T, DelBuono R. **Fifth International Biopolymer Conference Proceedings**. October 2001.

33. Intestinal tissue tropism determinants in O55:H6 EPEC. Phillips A, Fitzhenry R, Reece S, Heuschkel R, Murch S, Trabulsi L, Frankel G. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

34. Investigating enterohaemorrhagic escherichia coli (EHEC): human intestinal tissue tropism. Phillips A, Fitzhenry R, Heuschkel R, Murch S, Thomson M, Frankel G. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

35. Azathioprine therapy at diagnosis of severe IBD leads to mucosal healing. Fuentes D, Torrente F, Thomson M, Murch S, Heuschkel R. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

36. Azathioprine with IV loading in 107 children with moderate to severe IBD. Its use and impact on height and weight. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

37. TGF- β and IFN- γ response to polymeric enteral nutrition therapy in acute Crohn's disease in children. Fagbemi A, Afzal N, Hay C, Ashwood P, Torrente F, Thomson M, Heuschkel R, Murch S. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

38. Focal lymphocytic gastritis occurs in regressive autism, and shows features distinct from Crohn's disease. Torrente F, Ashwood P, Anthony A, Thomson M, Heuschkel R, Murch S. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

39. A new treatment for oesophageal strictures. Afzal N, Albert D, Lloyd-Thomas A, Thomson M. **Journal of Pediatric Gastroenterology and Nutrition**. May 2002.

40. Intraluminal impedance assessment in the neurologically compromised child. **Archives of Disease in Childhood**. April 2002.

41. Enteral nutrition treats children with colonic Crohn's disease more effectively if the ileum is also involved. Afzal NA, Fagbemi A, Arnaud-Battandier F, Paintin M, Thomson M, Walker-Smith JA, Murch S, Heuschkel R, Fell JM. **Archives of Disease in Childhood**. April 2002.

42. Clinical and mucosal responses to a new casein based enteral feed containing a higher ratio of n-3:n-6 fats and lower level of total saturated fatty acids for treatment of acute Crohn's disease in children. Afzal NA, Shergill-Bonner R, Arnaud-Battandier F, Paintin M, Murch S, Thomson M, Heuschkel R, Fell J. **Clinical Nutrition** May 2002.

43. Intraluminal impedance and a double blind placebo-controlled study of Gaviscon Infant in GOR in infants. DelBuono R, Keady S, Ball G, Thomson M. **J Ped Gastroenterol Nutr.** October 2002.
44. Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease. **Gut.** March 2003.
46. Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease. Thomson M, Afsal N, Fritscher-Ravens A, Swain P. **Archives of Disease in Childhood.** 2003;88(s1):A16.
47. Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease. *Gastroenterology.* April 2003.
48. Endoscopic gastroplication for the treatment of paediatric gastro-oesophageal reflux disease. Thomson M, Afsal N, Fritscher-Ravens A, Swain P. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):559.
49. Cow's milk induces T-cell proliferation and mucosal mast cell degranulation with neural tropism in an in-vitro organ culture model. Torrente F, Fitzhenry R, Heuschkel R, Thomson M, Murch S. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):527.
50. Paediatric endoscopy unit establishment and nursing practice development. Ratnarajah A, Brennan M, Shine M, Thomson M. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):531.
51. Use of methotrexate in childhood Crohn's disease. Rawat D, Furman M, Fagbemi A, Torrente F, Keady S, Thomson M, Murch S. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):542.
52. Wireless capsule endoscopy in small bowel disease in paediatrics: a study to assess the diagnostic yield. Furman M, Mylonaki M, Fritscher-Ravens A, Swain P, Heuschkel R, Murch S, Thomson M. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):544.
53. Intraluminal impedance pH monitoring - ? the platinum standard. Ball G, Del Buono R, Wenzl T, Thomson M. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):559.
54. Assessment of reflux in the neurologically impaired children using the multiple intraluminal impedance procedure. Thomson M, Rawat R, Ball G, Wenzl T, Del Buono R. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):559.
55. Evidence of CFTR dysfunction in children with recurrent pancreatitis. Corpino M, Jaffe A, Thomson M, Milla P, Lindley K. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):564.

56. Immunohistochemical characteristics of allergic colitis in children. Torrente F, Barabino A, Heuschkel R, Thomson M, Murch S. **Journal of Pediatric Gastroenterology and Nutrition.** 2003;36(4):566.

CHAPTERS:

“Disorders of the oesophagus and stomach in infants.” Chapter 2 in Bailliere’s “Clinical Gastroenterology”. 1997;11(3):547-72. Ed: J.A.Walker-Smith.

“Dyspepsia in childhood.” for Bailliere’s “Clinical Gastroenterology”. 1998. 12(4) .

“The Liver in Intensive Care.” N F Shah, M A Thomson.In: “A Manual of Paediatric Intensive Care”. First Edition. Ed: Henderson and Fleming. Publishers: Edward-Arnold. 1999.

“Esophagitis” for 3rd Edition of Pediatric Gastrointestinal Diseases. Ed Walker, Durie, Hamilton, Walker-Smith. Mosby. 2000.

“Gastroenterology” in “Concise Paediatrics.” Sidwell R and Thomson M. Greenwich Medical Media, 2000.

“Hepatology” in “Concise Paediatrics.” Sidwell R and Thomson M. Greenwich Medical Media, 2000.

“Colonoscopy and Enteroscopy in Pediatrics” in “Endoscopy Clinics of North America” Ed V Fox. Saunders. 2001.

“The Diverticular Disease in the Young Adolescent” in “Bailliere’s Best Practice & Research Clinical Gastroenterology” Ed: M Camm, Emmanuel A, Cohen R. 2002.

“Esophagitis” for 4th Edition of Pediatric Gastrointestinal Diseases. Ed Walker, Durie, Hamilton, Walker-Smith, Sanderson. Mosby. 2004.

“Colonoscopy and Enteroscopy” for 4th Edition of Pediatric Gastrointestinal Diseases. Ed Walker, Durie, Hamilton, Walker-Smith, Sanderson. Mosby. 2004.

“Colonoscopy: practical guide”. In: “Endoscopy in children.” Murphy M, Cadranel S, and Winter H. 2005.

“Endoscopy training”. In: “Endoscopy in children.” Murphy M, Cadranel S, and Winter H. 2005.

“Endoscopic anti-reflux procedures”. In: “Endoscopy in children.” Murphy M, Cadranel S, and Winter H. 2005.

“Enteroscopy in children”. In: “Endoscopy in children.” Murphy M, Cadranel S, and Winter H. 2005.

“Development, Anatomy and Physiology of the Esophagus” Wylie and Hyams. 2005. Elsevier.

“Gastroenterology”. In: “Paediatrics for Medical Students” Sidwell R and Thomson M. Greenwich Medical Media, 2005.

“Hepatology”. In: “Paediatrics for Medical Students” Sidwell R and Thomson M. Greenwich Medical Media, 2005.

“Nutrition”. In: “Paediatrics for Medical Students” Sidwell R and Thomson M. Greenwich Medical Media, 2005.

“Laryngo-pharyngeal reflux”. In: A “Textbook of Modern Paediatric ENT Practice”. Editors: Graham J, Bull P. 2006.

“Esophagitis” for 5th Edition of Pediatric Gastrointestinal Diseases. Ed Walker, Durie, Hamilton, Walker-Smith, Sanderson. Mosby. 2006.

“Colonoscopy and Enteroscopy” for 5th Edition of Pediatric Gastrointestinal Diseases. Ed Walker, Durie, Hamilton, Walker-Smith, Sanderson. Mosby. 2006.

“Interventional endoscopy” for 5th Edition of Pediatric Gastrointestinal Diseases. Ed Walker, Durie, Hamilton, Walker-Smith, Sanderson. Mosby. 2006.

BOOKS:

“Concise Paediatrics.” pp1-546. Sidwell R and Thomson M. Greenwich Medical Media, Nov 2000.

“Q-Base. Paediatric MCQs” Thomson M and Sidwell R. Greenwich Medical Media, 2001.

“Paediatrics for Medical Students” Sidwell R and Thomson M. Greenwich Medical Media, 2005.

“MCQs for MRCP and DCH 2005” Sidwell R and Thomson M.

Invited lectures and specific presentations:

1. Yorkshire Paediatric Society Meeting, November 1989:

"A case of cystic fibrosis with transient hyperphosphataemia".

2. Eleventh International Cystic Fibrosis Conference in Dublin, August 1992:

"Body composition and pulmonary dysfunction in cystic fibrosis. Evidence for a relationship between malnutrition and progressive pulmonary disease".

3. XV International Congress in Nutrition, Appropriate Technology in Body Composition, Melbourne, October 1993:

"The body cell mass and altered protein energy metabolism in cystic fibrosis".

4. Eighth Annual North American Cystic Fibrosis Conference in Dallas, October 1993:

"A case of allergic broncho-pulmonary aspergillosis with cavitating lung lesions".

5. Eighth Annual North American Cystic Fibrosis Conference in Dallas, October 1993:

"The body cell mass and altered protein energy metabolism in cystic fibrosis".

6. Eighth Annual North American Cystic Fibrosis Conference in Dallas, October 1993:

"Nutritional growth retardation is associated with defective lung growth in cystic fibrosis: a preventable determinant of progressive pulmonary dysfunction".

7. Australian Society of Enteral and Parenteral Nutrition, 29-30th April 1994 :

"Measured vs predicted resting energy expenditure in infants: a need for reappraisal".

Winner of "Best Research" Prize.

8. Australian Paediatric Association Meeting, May 1994:

"Measured vs predicted resting energy expenditure in infants:a need for reappraisal".

9. Ninth North American CF Conference, Orlando, Florida, 20th-23rd October 1994 :

"Measuring individual energy requirement in CF infants: inaccuracy of predictive equations and validation of heart rate monitoring."

10. British Association for Parenteral and Enteral Nutrition 6th-8th December 1994.

"Measuring individual energy requirement in CF infants: inaccuracy of predictive equations and validation of heart rate monitoring."

11. British Society for Paediatric Gastroenterology and Nutrition. 20th January 1995.

"Elevated risk of infection with Helicobacter pylori in staff and residents of a residential care facility."

12. British Paediatric Association. 21st - 24th March 1995.

"Elevated risk of infection with Helicobacter pylori in staff and residents of a residential care facility."

13. British Paediatric Association. 21st - 24th March 1995. Plenary session.

"Ortotopic liver transplantation is unsuccessful for valproate-associated liver failure in childhood: a need for critical risk-benefit appraisal in the use of valproate."

14. European Society of Paediatric Gastroenterology and Nutrition. 10th May 1995.

"Ortotopic liver transplantation is unsuccessful for valproate-associated liver failure in childhood: a need for critical risk-benefit appraisal in the use of valproate."

15. Midland Gastroenterology Society. 23rd June 1995.

"Elevated risk of infection with Helicobacter pylori in staff and residents of a residential care facility."

16. European Society of Paediatric Gastroenterology and Nutrition Summer School. 3rd-7th July 1995.

"Case presentation: liver transplantation in a case of cytochrome oxidase deficiency."

17. Joint Congress on Liver Transplantation. 28th September 1995.

"Generalised mitochondrial cytopathy is an absolute contraindication to orthotopic liver transplant in childhood."

18. 1995 North American Cystic Fibrosis Conference. 12th-15th October 1995.

"Raised resting energy expenditure in cystic fibrosis is due to the inherent gene defect."

19. The Second Royal Free Hospital Combined Medical/Surgical GI Masterclass - "The Foregut". 2nd November 1995.

"State of the art lecture: The Paediatric Foregut".

20. British Association of Parenteral and Enteral Nutrition. 4th-6th December 1995.

"Factors affecting nutrition in early CF: resting energy expenditure, pulmonary inflammatory markers, body composition, and genotype in a neonatally-screened population."

21. British Paediatric Association. 16th-19th April 1996.

"Factors affecting nutrition in early CF: resting energy expenditure, pulmonary inflammatory markers, body composition and genotype in a neonatally-screened population".

22. British Paediatric Association. 16th-19th April 1996.

“Pharmacodynamic/pharmacokinetic profiles of a new water-miscible preparation of cyclosporin for immunosuppression immediately following orthotopic liver transplant.”

23. European Society of Paediatric Gastroenterology and Nutrition. 8th June 1996.

“Exclusion of generalised mitochondrial cytopathy before liver transplant in fulminant hepatic failure”.

24. 5th Congress of the Asian PanPacific Society of Pediatric Gastroenterology and Nutrition. 10th April 1997.

“Immunological characteristics of reflux oesophagitis - is there a recognizable pattern?”

25. British Society for Paediatric Gastroenterology and Nutrition. 25th January 1998.

“Are endoscopic biopsies of small bowel as good as suction biopsies for the diagnosis of enteropathy?”

26. Royal College of Paediatrics and Child Health 4th Meeting York. 11th April 2000.

“Upper gastrointestinal tract involvement in children with inflammatory bowel disease: incidence, localisation and contribution to diagnosis.”

27. International Food Allergy Symposium. Regent’s College, London. 2nd May 2000. “Allergic oesophagitis”.

28. Invited Lecture. British Dermatology Annual Meeting, Portsmouth. 19th May 2000. “The emerging face of paediatric gastroenterology”.

29. Invited Guest Lecture. Italian Society of Gastroenterology. “Endoscopy in childhood IBD”. Bari, Italy. 27th Oct 2000.

30. Invited Guest Lecture. Infant Nutrition Symposium. Diagnosis and management of infant GOR. Southampton. 15th Sep 2002.

31. Fifth International Biopolymer Conference. Intraluminal impedance technique – application to paediatric gastro-oesophageal reflux. Thomson M, Wenzl T, DelBuono R. Sep 2001.

32. Barnet Hospital Invited Guest Lecture. GOR: diagnosis and management in childhood. 25th Sep 2001.

33. Royal Free Grand Round. A new treatment for oesophageal strictures. 3rd Oct 2001.

- 34. BSPGHAN Winter Meeting.** A new treatment for caustic oesophageal strictures. London Jan 2002.
- 35. Invited Guest Lecture.** Endoscopic fundoplication. 6th Foregut Masterclass in Adult Gastroenterology. Royal Free Hospital. Jan 2002.
- 36. Invited Guest Lecture.** St Mary's Hospital, London. 25th Feb 2002. Inflammatory bowel disease in childhood.
- 37. Invited Guest Lecture.** Endoscopy in childhood. National OPD Sister's Meeting. London. 13th April 2002.
- 38. RCPCH Annual Spring Meeting.** Intraluminal impedance assessment in the neurologically compromised child. York. 16th April 2002.
- 39. ESPGHAN 35th Annual Meeting.** A new treatment for caustic oesophageal strictures. Taormina, Sicily. 12th June 2002.
- 40. Invited Guest Lecture.** Infant Nutrition Symposium. Diagnosis and management of infant GOR. Dublin. 7th March 2002.
- 41. Invited Guest Lecture.** Infant Nutrition Symposium. Diagnosis and management of infant GOR. Bolton. 15th May 2002.
- 42. Invited Guest Lecture.** Intraluminal impedance in infant GOR. Reckitt Benckiser Symposium. Hull 9th May 2002.
- 43. Grand Round Royal Free Hospital.** Intraluminal impedance and Gaviscon Infant in infant GOR. Royal Free Hospital. 12th June 2002.
- 44. Invited Guest Lecture.** Infant Nutrition Symposium. Diagnosis and management of infant GOR. Southampton. 13th June 2002.
- 45. Invited Guest Lecture.** Infant Nutrition Symposium. Diagnosis and management of infant GOR. Royal London Adult Gastroenterology Grand Round. Royal London Hospital. 13th June 2002.
- 46. Invited Guest Lecture.** Infant Nutrition Symposium. Diagnosis and management of infant GOR. London. 28th June 2002.
- 47. Invited Guest Lecture.** Infant Nutrition Symposium. Diagnosis and management of infant GOR. Edinburgh. 28th October 2002.
- 48. 13th Annual Paediatric Gastroenterology Course.** GOR and respiratory disease: causative or fellow travellers. Royal Free Hospital. 3rd December 2002.

- 49. BSPGHAN Winter Meeting.** Antibiotic prophylaxis for PEG placement in paediatrics. Dublin 24th January 2003.
- 50. BSPGHAN Winter Meeting.** Wireless capsule endoscopy in paediatric GI investigation. Dublin 24th January 2003.
- 51. Grand Round Royal Free Hospital.** Wireless capsule endoscopy in paediatric GI investigation. January 29th 2003.
- 52. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Percutaneous gastrostomy – theory.
- 53. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Endoscopic aspects of GOR.
- 54. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** PEGs – practical aspects.
- 55. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Barrett’s oesophagus in children.
- 56. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Endoscopic anti-reflux procedures in children.
- 57. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Endoscopy in IBD in children.
- 58. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Wireless capsule endoscopy in childhood.
- 59. South American Paediatric Gastroenterology Meeting, Brazil April 2003.** Allergic oesophagitis in infancy.
- 60. Tenth Colon Masterclass Royal Free. January, 2003.** Paediatric IBD: modern endoscopic aspects.
- 61. S African GI Masterclass, Cape Town. 18th February 2003.** Gastro-oesophageal reflux in infants and children.
- 62. S African GI Masterclass, Cape Town. 18th February 2003.** Recurrent abdominal pain in children revisited.
- 63. Paediatric GI allergy meeting, SHS, Royal College of Physicians, London. 2nd March 2003.** Allergic oesophagitis.

- 64. Dublin Children's Hospital Grand Round. 11th March 2003.** Paediatric endoscopic anti-reflux procedures.
- 65. British Society of Gastroenterology. Birmingham. 25th March 2003.** Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease.
- 66. Laryngopharyngeal Reflux Symposium. Nottingham. 1st April 2003.** Intraluminal oesophageal impedance and LPR in children.
- 67. Royal College of Paediatrics and Child Health Spring Meeting. York. 8th April 2003.** The Vomiting Baby: Personal Practice Session.
- 68. Royal College of Paediatrics and Child Health Spring Meeting. York. 8th April 2003.** Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease.
- 69. ENT Invited Lecture. Great Ormond Street Hospital. London. 29th April 2003.** LPR, ENT, and GOR: Advances.
- 70. Royal Free Annual GP Seminar on Medical Advances. 29th April 2003.** Recurrent abdominal pain in children revisited.
- 71. Royal Free Annual GP Seminar on Medical Advances. 29th April 2003.** GOR in infants and children.
- 72. British-Italian Paediatric Gastroenterology Meeting. Lucca, Italy. 9th May 2003.** Paediatric Endoscopy Today and Tomorrow.
- 73. American Society of Gastrointestinal Endoscopy. Florida. 21st May 2003.** Oral distinction presentation: Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease.
- 74. European Society of Paediatric Gastroenterology Hepatology and Nutrition. Prague. 7th June 2003.** Endoscopic fundoplication for the treatment of paediatric gastro-oesophageal reflux disease.
- 75. GP Endoscopist Annual Meeting. Brussels. 14th June 2003.** Paediatric Endoscopy Today.
- 76. Nottingham Queen's Hospital Grand Round. 26th June 2003.** Paediatric Endoscopy Today and Tomorrow.
- 77. Kingston Hospital Grand Round. 7th July 2003.** GOR advances in paediatrics.

- 78. European Oesophageal Conference. 2nd September 2003. Paris.** Endoscopic fundoplication for paediatric gastro-oesophageal reflux.
- 79. Foregut Masterclass. Royal Free Hospital. 15th Jan 2004.** Advances in Diagnosis in GOR.
- 80. Foregut Masterclass. Royal Free Hospital. 15th Jan 2004.** Endoscopic treatment for GORD.
- 81. Middlesex SpR gastroenterology meeting training day. 29th Jan 2004.** Paediatric manifestations of GORD.
- 82. First Wireless Capsule UK Group Meeting. 30th Jan 2004.** WCE for children.
- 83. BSG. 22nd March 2004.** Endoscopic fundoplication for paediatric GORD.
- 84. Royal Society of Medicine, Paediatric Gastroenterology day. 27th April 2004.** Advances in paediatric endoscopy.
- 85. British Paediatric Otolaryngology Course, Institute of Child Health. 14th May 2004.** Advances in paediatric GORD.
- 86. American Society of Gastrointestinal Endoscopy. Invited Lecture. 16th May 2004.** Advances in the endoscopic treatment of strictures.
- 87. 6th International Laryngopharyngeal Conference. 19th May 2004.** Paediatric manifestations of GOR and the use of intraluminal impedance.
- 88. 2nd World Congress of Paediatric Gastroenterology, Paris. 3rd July 2004. Post-graduate Course.** Endoscopic polyp therapy.
- 89. Annual Belgian Paediatric Gastroenterology Meeting. 26th November 2004.** Advances in paediatric endoscopy.
- 90. 15th Annual Paediatric Gastroenterology Course. 29th November 2004.** GORD and intraluminal oesophageal impedance.
- 91. 6th Annual Masterclass in Paediatric Endoscopy. 1st December 2004.** Training in paediatric endoscopy.
- 92. 6th Annual Masterclass in Paediatric Endoscopy. 2nd December 2004.** Advanced management of strictures by endoscopy in childhood.
- 93. Winter meeting BSPGHAN. 28th January 2005.** Advances in endoscopic management of GI strictures.

- 94. First Controversies in Paediatric Gastroenterology and Hepatology Meeting. Birmingham. 4th February 2005.** Endoscopic management of oesophageal reflux disease.
- 95. Trent Paediatric Combined Meeting. Invited lecture. 10th February 2005.** Advances in paediatric gastro-oesophageal reflux.
- 96. BSG. Birmingham. Invited Lecture. 14th March 2005.** Endoscopic Management of gastro-oesophageal reflux.
- 97. 7th International Laryngopharyngeal Conference. York. 6th April 2005.** Recent advances in gastro-oesophageal reflux in paediatrics.
- 98. 7th International Laryngopharyngeal Conference. York. 7th April 2005.** Impedance in gastro-oesophageal reflux in children.
- 99. American Society of Gastrointestinal Endoscopy. Chicago. 17th May 2005.** Endoscopic management of GORD in children.
- 100. ESPGHAN Annual meeting. Porto. Post-graduate Course. 2nd June 2005.** Advances in paediatric therapeutic endoscopy.
- 101. Paediatric Gastro Club Meeting, Midlands. 27th September 2005.** Invited Lecture. Recurrent Abdominal Pain of Childhood.
- 102. SHS Paediatric Allergy Study Day, London. 21st September 2005.** Intraluminal Impedance in Childhood Reflux Disease.
- 103. Inaugural Paediatric Hands-On Colonoscopy Course. Six Lectures. 19th-20th September 2005.** Sheffield Children's Hospital.
- 104. Reflux Symposium, Mead Johnson. Bury. 5th July 2005.** Update on GOR in childhood.
- 105. First Northern Ireland Paediatric Allergy Study Day. 10th June 2005.** Allergic reflux and GI diseases in childhood.
- 106. Trainee GI Meeting, Nottingham. 10th July 2005.** Advances in paediatric endoscopy.
- 107. Bassetlaw Grand Round. 17th June 2005.** Recurrent Abdominal Pain.
- 108. North West Paediatric GI Trainee Meeting. 7th October 2005.** Achalasia.
- 109. Chesterfield Grand Round. 12th October 2005.** Chronic diarrhoea in childhood.

110. United European Gastroenterology Week. Copenhagen. 18th October 2005.
Invited Lecture: Allergic and eosinophilic oesophagitis.

Medical Doctorate Summary:

The mechanisms of malnutrition and growth failure occurring in cystic fibrosis are not fully understood. Limited work has been carried out on the problem of energy imbalance in patients with cystic fibrosis, although it is recognised empirically that a combination of reduced calorie intake, malabsorption, and increased energy expenditure is responsible.

The group at the Royal Children's Hospital, Brisbane, Australia were the first to describe abnormalities of total energy expenditure in CF infants with no significant lung disease, indicating that infection-related catabolism may not be the primary cause. Recently it has been suggested that the common genetic defect ($\Delta F508$ deletion) coding for the most severe clinical phenotype imparts higher rates of energy expenditure than those who do not have this gene.

With the advent of newer techniques to study energy metabolism in "free-living" humans a number of questions were addressed. Is the increased energy expenditure due in part to the basic defect or can it be accounted for entirely by the increased work required for breathing with deteriorating and chronically infected lungs? Is it partly the cause or entirely the result of CF lung disease?

The major hypothesis to be tested was that the common genetic defect ($\Delta F508$) is energy-requiring. This was examined by measuring resting energy expenditure (REE, indirect calorimetry) and total energy expenditure (TEE, doubly-labelled water method) hence deriving the energy cost of disease-activity-thermogenesis in relation to fat-free mass and body cell mass (as measured by total body potassium and body impedance) in stable well nourished CF infants without lung disease in 3 genotypic groups: $\Delta F508/\Delta F508$ homozygous; $\Delta F508$ /other; and other/other - comparing also with data from healthy infants.

It was found that the homozygote group had an REE which was 122% and the heterozygous group 112% compared with healthy non-CF infants. No difference was found at this early stage of the disease between the two CF groups for intra-bronchial inflammation on bronchoscopy suggesting that some factor other than catabolism associated with chest infections is responsible for the raised REE in CF. REE is higher in the homozygote group supporting the hypothesis that the gene defect itself is energy-requiring. Data regarding TEE is awaiting analysis.

Concurrent development of another technique for measuring TEE, the so-called Heart-Rate method, was successfully attempted. This relies on the theoretical relationship between heart rate and oxygen consumption (and therefore energy expenditure), and had not previously been adapted to this age group. It was found that this technique was a robust, easily-adaptable, widely-applicable free-field technique for the measurement of TEE in both healthy infants and those with cystic fibrosis.

Furthermore when commonly-used predictive equations for resting energy expenditure were compared with actual measurements by indirect calorimetry it was found that these over-estimated REE (and hence fluid requirement) in infancy by up to 15%. This has wide implications in terms of modern fluid and energy management in infancy and a strong case could be made for its revision.

In summary, knowledge of the nature and components of energy balance in CF will have significant therapeutic implications in this disease, especially in view of a possible genetic influence.

**PRACTICAL EXPERIENCE IN GASTROENTEROLOGY/ HEPATOLOGY
TO DATE:**

1.Upper GI Endoscopy:

Total	3598
Foreign Body retrieval	70
Oesophageal dilatation	56
Achalasia pneumatic dilatation	9
Percutaneous gastrostomies	73
PEG SPRING technique	8
Percutaneous jejunostomies	10
Oesophageal varices sclerosis	38
Oesophageal varices banding	46
Endoscopic haemostasis clips	10
Argon plasma coagulation	15
Endoscopic pancreatic function tests	25
ERCP	28
Enteroscopy	10
Laparoscopic-assisted enteroscopy	4
Endoscopic funduplications	44
Double-balloon enteroscopy	1
Wireless endoscopic capsule	40

2.Ileo-colonoscopies:

Total	2330
Polyp removal cases	98
Stricturoplasty	12

3.Manometry:

Oesophageal	43
Rectal	66

4.Other:

pH studies; intraluminal impedance studies; rectal secretory studies; rectal suction biopsies; liver biopsies; clinical indirect calorimetry, total energy expenditure, and body composition studies.

SUCCESSFUL GRANT APPLICATIONS:

1992-3, 1993-4 Royal Children's Hospital Foundation Research Grant for:

" Resting and total energy expenditure in cystic fibrosis in particular relation to the putative energy-requiring nature of the gene defect and the relative effect of pulmonary inflammation".

McDonald's Family Research Fund 1996. £10,000.

Astra Foundation Research Grant 1998. £5,000.

Reckitt Benckiser Research Fellowship, 2000/1. £65,000.

Astra Zeneca Endoscopic Teaching Grant, 2001. £5000.

Fujinon Endoscopic Course Seeding Grant (Annual) £20,000 from 2002.

Crohn's and Colitis in Childhood Research Grant for endoscopic innovation 2002. £15000.

Scientific Hospital Supplies Research Grant 2003. £25000.

Wireless capsule paediatric unit Award. Westfield Foundation, Sheffield. 2004. £35,000

Double Balloon Enteroscopy Award. Westfield Foundation, Sheffield. 2005. £53,000.

Confocal endoscopic microscope Award. South Yorkshire Cancer Charitable Trust. £65,000.

POSTGRADUATE PRIZES/AWARDS:

1.1993 Young Investigator Of The Year Award. Queensland, Australia.

2.Best Research Prize. Australian Society of Enteral and Parenteral Nutrition. 1994.

TEACHING:**Undergraduate:**

This was a major feature of my Clinical Tutor post in St James' Hospital, Leeds and subsequently I have been involved in lecturing and clinical teaching in my capacity as Registrar, Clinical Research Fellow, Lecturer/Senior Registrar, and now as Consultant.

Postgraduate:

I have been active in arranging teaching for paediatricians in training towards the FRACP qualification in Australia and the MRCP qualification in the United Kingdom and over the past two years have organized a local course in MRCP which has achieved a 100% first time pass rate. Written two books aimed at these candidates.

Nursing:

Lecturing on the Diploma of Paediatric Hepatology Nursing course in Birmingham and also in other areas of Paediatric Nursing throughout my paediatric career.

I have set up and I am the medical coordinator for a Diploma in Paediatric Gastroenterology Nursing.

EXAMINATION INVOLVEMENT:

Undergraduate:

Responsibility for patient recruitment, exam invigilation, clinical exam observer and coordinator roles both in Australia and Britain. As well as acting as an examiner on two occasions.

Postgraduate:

Involvement in coordination and arrangement of the clinical section of the FRACP examination.

Question-setter for the UK MRCPCH exam.

COURSE ORGANISATION:

Set up and run the only live Paediatric Endoscopy/Colonoscopy Masterclass in the world, now in its sixth year with delegates from all continents.

Help to arrange the Annual Paediatric Gastroenterology Course organized by Dr Simon Murch, and set up by Professor John Walker-Smith, now in its fourteenth year.

Course Director of first paediatric small number hands on Courses for Colonoscopy; Endoscopic fundoplication; and Therapeutic Paediatric Endoscopy. 2005 onwards.

MANAGEMENT:

Management training course for trainees in gastroenterology. 11th-13th November 1994. Coventry.

Member of Working Groups in Paediatrics, and in Gastroenterology for Royal Free NHS Trust

“Consultants and Management”, King’s Fund Course, 30th Sept - 4th Oct 1996.

Clinical Director of Centre for Paediatric Gastroenterology, Royal Free Hospital.

Team Leader of GI service in Sheffield Childrens NHS Trust.

MEMBERSHIP OF SOCIETIES:

British Medical Association
Royal College of Paediatrics and Child Health (Fellowship)
Royal College of Physicians (UK) (Fellowship)
British Society of Paediatric Gastroenterology and Nutrition
British Association of Parenteral and Enteral Nutrition
British Society of Gastroenterology
European Society of Paediatric Gastroenterology, Hepatology and Nutrition
Association of Clinical Specialists

POSITIONS:

Representative of BSPGHN on the Information Technology Committee of the British Society of Gastroenterology and Coordinator of Paediatric Section of BSG meetings.

Representative of BSPGHN on Joint Advisory Group on Training in Endoscopy to the BSG.

Member of BSPGHN sub-committee for BSG.

Paediatric Representative on BSG Endoscopy Committee.

Chairman of British Paediatric Endoscopy Steering Committee.

BSPGHAN representative on FISPGHAN World Congress Working Group on Advances in Paediatric Endoscopy and Other Diagnostic Tests.

Co-opted Council Member of BSPGHN.

Member of the Gastroenterology Council of ESPGHAN from 2005.

Editorial Board Member of Journal of Pediatric Gastroenterology and Nutrition from 2005.

Member of the European Working Group on gastro-oesophageal reflux

Member of the European Working Group on gastrointestinal motility

Secretary and Coordinator of the European Working Group on Paediatric Endoscopy.

Course Director of European Summer School on Paediatric Endoscopy, 2007.

Representative of CAPGAN on World Congress of Paediatric Gastroenterology
Endoscopy Steering Committee

Executive Advisory Council Member of International Intraluminal Impedance in
Children Working Group.

Previous Secretary of Royal Society of Medicine for Paediatrics, remain as Council
Member.

Council-Elect of Harveian Society, now resigned.

Paediatric co-representative on Medical Advisory Committee of Portland Hospital
for Women and Children, London.

Country co-ordinator for Zambia of children's charity Child Advocacy International.

External examiner for Paediatrics in Zambia.

APLS Provider, 2002.

REFEREE:

Regular referee for:

Journal of Pediatric Gastroenterology and Nutrition,
Archives of Disease in Childhood,
Alimentary Pharmacology and Therapeutics,
Gut,
Endoscopy,
Acta Paediatrica,
The Journal of Infection,
Endocrinology,
and the British Medical Journal.

EDITORIAL BOARD:

Journal of Paediatric Gastroenterology and Nutrition

CAREER INTENTIONS:

My career is firmly based in paediatric gastroenterology, nutrition and hepatology. My endpoint remains a teaching hospital environment with ongoing commitment to teaching and research whilst maintaining a vigorous clinical interest.

OTHER INTERESTS:

Squash, Captain of two London-based clubs, 1st V University

Rugby Union, 1st/2nd XV University

Skiing

Diving

Rock/ice-climbing

Charity parachute jumping and climbing for African-based paediatric wards, mainly in Zambia. Regular working holidays in Lusaka Children's Hospital, Zambia.

REFEREES:

To be forwarded as agreed at appropriate juncture.