

# Curriculum vitae

## Malcolm Coulthard

**Date of birth:** 07/05/49

**Current appointments:** Honorary consultant paediatric nephrologist  
Newcastle upon Tyne Foundation Hospitals NHS Trust  
Great North Children's Hospital, Royal Victoria Infirmary, Newcastle upon Tyne  
&  
Honorary senior lecturer in child health  
Newcastle University, Newcastle upon Tyne.

### Qualifications

B Sc in Physiology (1 <sup>st</sup> class Honours)	University of London	1970
MB, BS	The London Hospital, University of London	1973
DCH	Royal College of Physicians, London	1975
FRCP	Royal College of Physicians, London	1977
FRCPC	Royal College of Paediatrics & Child Health	1997
PhD (Renal function in preterm babies)	University of Newcastle	2001

### Appointments

**2009 to date**  
Newcastle upon Tyne NHS Foundation Hospitals, and University of Newcastle  
Retired from paid clinical work, but continuing to undertake clinical research. This includes having designed and built a haemodialysis machine suitable for babies from 800 gram to 8 kg (currently conducting clinical trial for CE testing), developing indirect cystography for infants, and developing an artificial placenta.

**1984 to 2009**  
The Royal Victoria Infirmary, Newcastle upon Tyne, and University of Newcastle  
Senior registrar (until 1985) and then consultant paediatric nephrologist for the Northern Health Region, & honorary senior lecturer in child health, Newcastle University.  
I was the first consultant paediatric nephrologist appointed in Newcastle; until then children in the Northern Region with renal disease were treated by general paediatricians, and no renal transplants were performed on small children. I developed and managed an integrated service, which is now an active and flourishing department.  
In addition to clinical work, I undertook extensive research. I retired at 60 in order to have time to expand my research activities, retaining an honorary clinical contract to facilitate this.

**1984 to 1985**  
Guy's Hospital, London  
Senior registrar in paediatric nephrology  
The emphasis of this training post was to manage children with chronic and end-stage renal failure, including dialysis and transplantation.

**1982 to 1983**  
Hospital for Sick Children, Great Ormond Street, London  
Senior registrar in paediatric nephrology  
The emphasis of this training post was to manage children with the full range of acute renal disease, and the dialysis of small infants.

**1979 to 1982**  
University of Newcastle  
Senior research associate & honorary senior registrar in neonatal paediatrics. During this post I worked with preterm infants, and undertook pathophysiological studies of their kidney function, holding an MRC research grant, eventually citing my publications for my PhD nearly 20 years later (it was a busy time!).

**1973 to 1979**  
Various hospitals in London and Newcastle  
Pre-registration posts in general medicine and surgery, then SHO and registrar posts in a full range of paediatric specialities.

## Publications in reverse date order

1. Vasdev N, Coulthard MG, Lambert HJ, Keir MJ, Wyrley-Birch H, Rix D, et al. The modified Barry technique to prevent vesicoureteric reflux in paediatric renal transplant recipients: initial recipient outcomes. *Journal of Paediatric Urology* 2012;8:97-102.
2. Coulthard MG, Nelson A, Smith T, Perry JD. Point-of-care diagnostic tests for childhood urinary tract infection: phase-contrast microscopy for bacteria, stick-testing, and counting white blood cells. *Journal of Clinical Pathology* 2010;63:823-29.
3. Coulthard MG, Kalra M, Lambert HJ, Nelson A, Smith T, Perry JD. Redefining urinary tract infections by bacterial colony counts. *Pediatrics* 2010;125:335-41.
4. Rhodin MM, Anderson BJ, Peters AM, Coulthard MG, Wilkins B, Cole M, et al. Human renal function maturation: a quantitative description using weight and postmenstrual age. *Pediatric Nephrology* 2009;24:67-76.
5. Hegde S, Coulthard MG. Renal agenesis and unilateral nephrectomy: is it a risk to live with a single kidney? *Ped Neph* 2009;24:439-46.
6. Coulthard MG, Verber I, Jani JC, Lawson GR, Stuart CA, Sharma V, et al. Can prompt treatment of childhood UTI prevent kidney scarring? *Pediatric Nephrology* 2009;24:2059-63.
7. Coulthard MG, Lambert HJ, Keir MJ. Do systemic symptoms predict the risk of kidney scarring after UTI? *Archives of Disease in Childhood* 2009;94:278-81.
8. Coulthard MG, Keir MJ. Transient parenchymal defects may occur in kidney transplants during urine infections. *Pediatric Nephrology* 2009;24:1091-92.
9. Coulthard MG, de san Lazaro C. Case reports of factitious illness are unlikely to be published in the UK. *Archives of Disease in Childhood* 2009;94:171.
10. Coulthard MG. Which children with nephrotic syndrome benefit from cyclosporin A or cyclophosphamide? *Pediatric Nephrology* 2009;24:1257.
11. Coulthard MG. VUR is not a benign condition. *Ped Neph* 2009;24:227-32.
12. Baumer JH, Coulthard MG, Haycock GB, McIntosh N, Ranmal R, Haines L. The differential diagnosis of hypernatraemia in children, with particular reference to salt poisoning: an evidence-based guideline. *Royal College of Paediatrics and Child Health* 2009.
13. Vasdev N, Willetts IE, de la Hunt MN, Starzyk B, Ognjanovic M, Coulthard MG. Neonatal urinary ascites secondary to urinary bladder rupture. *Journal of Paediatric Urology* 2008;5:100-04.
14. Hyde S-J, Coulthard MG, Jaffray B, Vallely ME, Harding SM. Using saline solutions for ACE washouts. *Archives of Disease in Childhood* 2008;93:149-50.
15. Coulthard MG, Lambert HJ, Moghal NE, Ognjanovic M, Vernon SJ, Keir MJ, et al. Newcastle childhood UTI guidelines. 2008.
16. Coulthard MG, Lambert HJ. Czy należy stosować wytyczne postępowania w zakażeniu układu moczowego u dzieci opracowane przez NICE? *Medycyna Praktyczna - Pediatria* 2008;10:14-22.
17. Coulthard MG. Reader response to: Watchdog chair to get tough on obeying NICE rules. *Health Service Journal*,2008;[http://www.hsj.co.uk/Intelligence/news/2008/08/new\\_regulator\\_pledges\\_nice\\_guidance\\_crackdown.html](http://www.hsj.co.uk/Intelligence/news/2008/08/new_regulator_pledges_nice_guidance_crackdown.html).
18. Coulthard MG. Is reflux nephropathy preventable, and will the NICE childhood UTI guidelines help? *Archives of Disease in Childhood* 2008;93:196-99.
19. Coulthard MG. Will changing maintenance intravenous fluid from 0.18% to 0.45% saline do more harm than good? *Archives of Disease in Childhood* 2008;93:335-40.
20. Webb NJA, Coulthard MG, Trompeter RS, Fitzpatrick MM, Stevens S, Dudley J, et al. Correlation between finger-prick and venous ciclosporin levels: association with gingival overgrowth and hypertrichosis. *Pediatr Nephrol* 2007;22:2111-18.
21. Shenoy M, Ognjanovic MV, Coulthard M. Treating severe Henoch-Schonlein and IgA nephritis with plasmapheresis alone. *Paediatr Nephrol* 2007;22:1167-71.
22. Krishnan RG, Ognjanovic MV, Crosier J, Coulthard MG. Acute hydrothorax complicating peritoneal dialysis. *Peritoneal Dialysis International* 2007;27:296-99.
23. Krishnan RG, Coulthard MG. Minimising changes in plasma calcium and magnesium concentrations during plasmapheresis. *Pediatric Nephrology* 2007;22:1763-66.
24. Hegde S, Wright C, Shenoy M, Moghal NE, Coulthard MG. Renovascular hypertension commencing during fetal life. *Archives of Disease in Childhood Fetal & Neonatal Edition* 2007;92:F301-F04.
25. Hegde S, Coulthard MG. Follow-up of early unilateral nephrectomy for hypertension. *Archives of Disease in Childhood Fetal & Neonatal Edition* 2007;92:F305-F06.
26. Gittins N, Ognjanovic MV, Matthews JNS, Coulthard MG. Comparison of alteplase and heparin in maintaining the patency of central venous haemodialysis lines: a randomised controlled trial. *Archives of Disease in Childhood* 2007;92:499-501.
27. Coulthard MG, Skinner R. Should paediatric central lines be aspirated before use? *Archives of Disease in Childhood* 2007;92:517-18.
28. Coulthard MG. NASTY processes produce NASTY guidelines. *British Medical Journal* 2007;335:463.
29. Coulthard MG. Quantifying how tests reduce diagnostic uncertainty. *Arch Dis Child* 2007;92:404-08.
30. Brisdon J, Samuels M, Speight N, Crawford M, Coulthard M, and 33 others. There is a determined campaign to deny the reality of child abuse. *Guardian* 2007 5 December.

31. Krishnan R, Coulthard MG, Moghal NE. Is there a role for vincristine in nephrotic syndrome? *Pediatric Nephrology* 2006;21:597.
32. Hegde S, Moghal NE, Coulthard MG. Acute appendicitis occurring immediately post-renal transplant. *Pediatric Transplantation* 2006;10:119-20.
33. Coulthard MG, Keir MJ. Reflux nephropathy in kidney transplants, demonstrated by dimercaptosuccinic acid scanning. *Transplantation* 2006;82:205-10.
34. Plant ND, Hornung RJ, Coulthard MG, Keir MJ, Matthews JNS, Robson SC. Does antenatal pelvic dilatation predict renal scarring? *Archives of Disease in Childhood* 2005;90:F339-40.
35. Lambert HJ, Coulthard MG. Urinary tract infections in infancy and childhood. In: Davison AM, Stewart Cameron J, Grunfeld J-P, Ponticelli C, Ritz E, Winearls CG, et al., editors. *Oxford Textbook of Clinical Nephrology*. 3rd ed. Oxford: Oxford University Press, 2005:1131-50.
36. Everdell NL, Coulthard MG, Crosier J, Keir MJ. A machine for haemodialysing very small infants. *Pediatric Nephrology* 2005;20:636-43.
37. Bergman C, Senderek J, Windellen E, Kupper F, Middeldorf I, Schneider F, et al. Clinical consequences of PKHD1 mutations in 164 patients with autosomal-recessive polycystic kidney disease (ARPKD). *Kidney International* 2005;67:829-48.
38. Hegde S, Coulthard MG. End-stage renal disease due to bilateral renal malakoplakia. *Archives of Disease in Childhood* 2004;89:78-79.
39. Lambert HJ, Coulthard MG. The child with urinary tract infection. In: Webb N, Postlethwaite R, editors. *Clinical Paediatric Nephrology*. 3rd ed. Oxford: Oxford University Press, 2003:197-225.
40. Coulthard MG, Vernon SJ, Lambert HJ, Matthews JNS. A nurse led education and direct access service for the management of urinary tract infections in children: prospective controlled trial. *British Medical Journal* 2003;327:656-59.
41. Coulthard MG, Vernon SJ, Lambert HJ. Management of urinary tract infections in children: authors' reply. *British Medical Journal* 2003;327:1346.
42. Coulthard MG, Haycock GB. Distinguishing between salt poisoning and hypernatraemic dehydration in children. *British Medical Journal* 2003;326:157-60.
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44. Howie AJ, Buist LJ, Coulthard MG. Reflux nephropathy in transplants. *Pediatric Nephrology* 2002;17:485-90.
45. Coulthard MG, Vernon SJ. Response to: A method of comparison study to assess the reliability of collecting urine specimens from non-toilet-trained children for microbiological examination. *Journal of Advanced Nursing* 2002;39:199-200.
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47. Coulthard MG, Hey EN. Glucagon is very unlikely to have caused hyponatraemia. *Pediatrics* 2002;109:985-86.
48. Coulthard MG, Flecknell P, Orr H, Manas D, O'Donnel M. Renal scarring caused by vesicoureteric reflux and urinary infection: a study in pigs. *Pediatric Nephrology* 2002;17:481-84.
49. Coulthard MG, Crosier J. Outcome of children who reach end-stage renal failure under 2 years of age. *Archives of Disease in Childhood* 2002;87:511-17.
50. Coulthard MG. Do kidneys outgrow the risk of reflux nephropathy? *Pediatric Nephrology* 2002;17:477-80.
51. Oddie S, Richmond S, Coulthard MG. Hypernatraemic dehydration and breast feeding: a population study. *Archives of Disease in Childhood* 2001;85:318-20.
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53. Drummond PM, Moghal NE, Coulthard MG. Hypertension in Henoch-Schonlein purpura with minimal urinary findings. *Archives of Disease in Childhood* 2001;84:164-64.
54. Coulthard MG, Sharp J. Haemodialysing infants: theoretical limitations, and single versus double lumen lines. *Pediatric Nephrology* 2001;16:332-34.
55. Coulthard MG, Lambert HJ, Keir MJ. DMSAs after UTI - scan more children, not less. *Archives of Disease in Childhood* 2001;85:348.
56. Coulthard MG. Dialysing small infants. In: Guignard JP, Gouyon JB, Simeoni U, editors. *Médicaments. Nephrotoxicité. Insuffisance rénale aiguë chez le nouveau-né*. Amsterdam: Elsevier, 2001:144-52.
57. Coulthard MG. Urine microscopy. In: Southall D, Coulter B, Ronald C, Nicholson S, Parke S, editors. *International Child Health Care: A practical manual for hospitals worldwide*. London: BMJ books, 2001:576-80.
58. Coulthard MG. Medical renal problems. In: Southall D, Coulter B, Ronald C, Nicholson S, Parke S, editors. *International Child Health Care: A practical manual for hospitals worldwide*. London: BMJ books, 2001:188-202.
59. Thimm A, Coulthard MG. Diagnosis of an ectopic ureter in a girl by differential urine collection after administration of desmopressin acetate. *Archives of Disease in Childhood* 2000;83:274-75.
60. Skinner R, Pearson ADJ, English MW, Price L, Wyllie RA, Coulthard MG, et al. Cisplatin dose rate as a risk factor for nephrotoxicity in children. *British Journal of Cancer* 2000.
61. Nunn JH, Sharp J, Lambert HJ, Plant ND, Coulthard MG. Oral health in children with renal disease. *Pediatric Nephrology* 2000;14:997-1001.

62. Liaw LCT, Nayar DM, Pedler SJ, Coulthard MG. Home collection of urine for culture from infants by three methods: survey of parents' preferences and bacterial contamination rates. *British Medical Journal* 2000;320:1312-13.
63. Coulthard MG, Hey EN, Al-Dahhan J, Haycock GB. Evaluating urine flow and solute excretion from urinary creatinine in the first week of life. *Archives of Disease in Childhood* 2000;82:F257-F60.
64. Modi N, Coulthard MG. Renal function. In: Levitt G, Harvey D, Cooke R, editors. *Practical Perinatal Care: The Baby Under 1000 grams*. Oxford: Butterworth, Heinmann, 1999:199-211.
65. Liaw LCT, Banerjee K, Coulthard MG. Dose related growth response to indometacin in Gitelman syndrome. *Archives of Disease in Childhood* 1999;81:508-10.
66. Coulthard MG, Lambert HJ, Keir MJ, Lee RE. Detection of renal scarring in children using ultrasound. *Clinical Radiology* 1999;54:486.
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72. Henderson J, Arthur I, Peake J, Wright N, Lee REJ, Coulthard MG. Randomised trial of suprapubic puncture versus urethral catheterisation for cystography. *Archives of Disease in Childhood* 1998;78:95-96.
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78. Thiru Y, Bateman DN, Coulthard MG. Successful breast feeding while mother was taking cyclosporin. *British Medical Journal* 1997;315:463.
79. Scott J, Swallow V, Coulthard M, Lambert H, Lee R. Screening of newborn babies for familial ureteric reflux. *Lancet* 1997;350:396-400.
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84. Skinner R, Pearson ADJ, English MW, Price L, Wyllie RA, Coulthard MG, et al. Risk factors for ifosfamide nephrotoxicity in children. *Lancet* 1996;348:578-80.
85. Skinner R, Cole M, Pearson ADJ, Coulthard MG, Craft AW. Specificity of pH and osmolality of early morning urine sample in assessing distal renal tubular function in children: results in healthy children. *British Medical Journal* 1996;312:1337-38.
86. Rees J, Vernon S, Pedler SJ, Coulthard MG. Collecting urine from washed-up potties. *Lancet* 1996;348:197.
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88. Morris KP, Coulthard MG, Smith PJ, Craft AW. Renovascular and growth effects of childhood sarcoid. *Archives of Disease in Childhood* 1996;75:74-75.
89. Kumar RK, Turner GM, Coulthard MG. Don't count on urinary white cells to diagnose childhood urinary tract infection. *British Medical Journal* 1996;312:1359.
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91. Turner G, Coulthard MG. Premenarchal endometrial shedding revealed by peritoneal dialysis. *Archives of Disease in Childhood* 1995;73:88-89.
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93. Coulthard MG, Vernon B. Managing acute renal failure in very low birthweight infants. *Archives of Disease in Childhood, Fetal and Neonatal Edition* 1995;73:F187-92.

94. Coulthard MG, Sharp J. Haemodialysis and ultrafiltration in babies weighing under 1000 g. *Archives of Disease in Childhood, Fetal and Neonatal Edition* 1995;73:F162-65.
95. Coulthard MG, Richardson J, Fleetwood A. The treatment of cystinuria with captopril. *American Journal of Kidney Diseases* 1995;25:661.
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