

## MEDICOLEGAL CV

### Dr Muhuntha (“Mo”) G. Gnanalingham

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**GMC Registration No. 4181121; DBS No. 001722928859**

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### PROFESSIONAL QUALIFICATIONS & EXPERTISE

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**Profession:** Consultant In Paediatric Intensive Care and General Paediatrics.

**Areas of expertise:** I am experienced in assessing (and their management) babies and children, covering all aspects of General Paediatrics and Paediatric Intensive Care.

I have experience in the assessment of children with:

- Medical conditions
- Developmental Delay
- Learning Difficulty
- Physical abuse
- Neglect

I undertake independent assessments in a variety of areas and write reports for the courts relating to children and parents or other family members. I accordingly have private medical indemnity insurance with Certua Protect Ltd.

### Medicolegal reports:

I have prepared more than 10 reports for the Civil, Family and Criminal Courts. These reports have covered the following areas:

- Public Law assessments of children.
- Private Law assessments of children.
- Assessment of injuries (including their causality), and assessing concerns raised by individuals (including parents, solicitors and/or Police) about the care of babies and children in both acute (District General and Tertiary Hospitals) and chronic (including their care at home and other settings).

**Medicolegal training:**

- I have completed the Cardiff University Bond Solon Expert Witness Certificate (2021), including: Cross-examination day course; Courtroom skills training course; Excellence in report writing course; and Law and procedure 1 and 2 courses.
- I have completed multiple courses and workshops with my indemnity providers, covering aspects of risk management, personal indemnity risks and medico legal report writing. I have also recently attained membership of the Expert Witness Institute (MEWI).

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**RELEVANT CLINICAL EXPERIENCE**

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I have over 9 years working as a Consultant in Paediatric Intensive Care at Royal Manchester Children's, Leeds Children's, Royal Stoke University Hospitals and Sheffield Children's NHS Foundation Trust. In addition, I have maintained regular Consultant locums at Glasgow, Leeds, and Sheffield Children's Hospitals, as well as paediatric and neonatal retrievals at EMBRACE (Yorkshire and Humber Children's Transport Service). As a PICU Consultant in 4 UK units, I (along with other established PICU Consultants) was responsible for the formal assessment and quality assurance of medical staff, their clinical and professional practice and maintaining patient safety and standards. This included active involvement in the education and training (including simulation) of the PICU MDT. I have over 25 years' experience in Paediatrics, with 2.5 years of PICU grid-training at Alder Hey Children's NHS Foundation Trust; 12-months out-of-programme Anaesthetic (and Adult Intensive Care) experience in North Wales and a post CCT Fellowship at Royal Melbourne Children's Hospital. I have also completed my core specialities in General Paediatrics, Community Paediatrics, as well as over 5 years of tertiary neonatal medical and surgical experience [at Queen's Medical Centre (Nottingham), Liverpool Women's NHS Foundation Trust and Saint Mary's Hospital (Manchester)]. I am on the GMC's Specialist Register in General Paediatrics and Paediatric Intensive Care Medicine from 02.09.08, with my last Revalidation on 02.10.17 (and my next on 17.09.22). I am a Fellow of the Faculty of Intensive Care Medicine (FFICM; July 2014). I have experience in general [including complex Paediatric Metabolic (specifically inherited metabolic conditions), endocrine, haematology, oncology, neonatal surgical and medical, nephrology and herpetology (including transplantation in both), cardiac (including extra-corporeal life support with specific experience in extra-corporeal membrane oxygenation and ventricular assist devices), major trauma centres (6 in total) and neurotrauma-specific PICU departments (with between 15 and 22, level 3 PICU beds) in 6 centres in the UK [including Royal Manchester, Alder Hey (Liverpool), Leeds and Sheffield Children's Hospitals, and Nottingham and Royal Stoke University Hospitals NHS Trust] and 1 overseas (at the Royal Melbourne Children's Hospital, Australia). I also have experience in regional retrieval services, including Northwest and North Wales Paediatric Retrieval Service (NWTs); EMBRACE; and Paediatric, Infants and Perinatal Emergency Retrieval [PIPER; Melbourne (Australia)]. I have maintained detailed logs of all my practical procedures in neonates, paediatrics and adults (during my 12-month out-of-programme experience as an Anaesthetic SHO).

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## QUALIFICATIONS & RESEARCH

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### QUALIFICATIONS:

- **MEWI** (April 2023; Member of Expert Witness Institute).
- **RCPATHME** (February 2021; Medical Examiner for The Royal College of Pathologists).
- **FFICM** (July 2014; Fellow of the Faculty of Intensive Care Medicine).
- **PCBEC** (Distinction) [April 2013; Postgraduate Certificate in Business and Executive Coaching, awarded with Distinction by PB Coaching (Leeds), in conjunction with Leeds Metropolitan University].
- **FCoIT** (April 2013; Fellow of the College of Teachers).
- **AFSEDA** (March 2013; Associate Fellow of the Staff and Educational Development Association).
- **FifL** (March 2013; Fellow of the Institute for Learning).
- **FInstCPD** (March 2013; Fellow of the Institute of Continuing Professional Development).
- **MFMLM** (February 2013; Member of the Faculty of Medical Leadership and Management).
- **FInstLM** (February 2013; Fellow of the Institute of Leadership and Management).
- **MIHM** (December 2012; Member of the Institute of Healthcare Management).
- **Honorary Senior Lecturer** (Manchester Medical School; October 2012 onwards).
- **FHEA** (May 2012; Fellow of The Higher Education Academy).
- **MAcadMEd** (May 2012; Member of the Academy of Medical Educators).
- **FRCPCH** (December 2009; Fellow of the Royal College of Paediatrics and Child Health).
- **PhD** [thesis accepted with no corrections; entitled: "*Hormonal and nutritional manipulation of local glucocorticoid action and uncoupling protein-2 in sheep perirenal adipose tissue and lung in fetal and later life*" (awarded by the University of Nottingham; UK; July 2006).

### RESEARCH:

- I have both formal and informal research interests and activity throughout my undergraduate and postgraduate training.
- I was appointed Clinical Lecturers in Child Health at the University of Nottingham, where I undertook his PhD (in Developmental Physiology; which was awarded in December 2005; with no corrections); entitled "*Hormonal and nutritional manipulation of local glucocorticoid action and uncoupling protein-2 in sheep perineal adipose tissue and lung in foetal and later life*".
- In addition to the 19 full paper publications below, I also have 52 abstracts, 2 case reports, 6 letters and 3 database publications. In addition, I have given 40 oral and 18 poster presentations (at national and international meetings).
- I have been recognised as a Member of the Research Quality Association (MRQA; 2014); Professional Membership of the Institute of Clinical Research (MICR; 2012) and Fellow of the Royal Society for Public Health (FRSPH; 2013).

**PICU research activity:**

- Participation in multicentre trials, specifically PANGEA (PI), THAPCA (PI) and DAKI (patient recruiter).
- Measurement of Procalcitonin on PICU, 'Matching Michigan' Lead for the Paediatric Critical Care Directorate and external cooling on PICU.
- Potential multi-centre Matching Michigan PICU examination.
- National use of Remifentanyl in PICUs, a questionnaire survey.
- Co-author on 'Cardiovascular assessment and management' in the Paediatric AIM course manual (<http://gmccn.org.uk/aimcourses/paediatric-aim>).

**Publications & Presentations:**

- Gnanalingham MG. Reflections on laboratory-based research. *Care of the Critically Ill* 2007; 23 (1): 1-2.

**Full papers:**

- *Gnanalingham MG*, Manns JJ. Patient awareness of genetic and environmental risk factors in non-insulin dependent diabetes mellitus: relevance to first-degree relatives. *Diabetic Medicine* 1997; 14: 660-662.
- *Gnanalingham MG*, Newland P, Smith CP. Accuracy and reproducibility of low dose insulin administration using pen-injectors and syringes. *Archives of Diseases in Childhood* 1998; 79: 59-62.
- Gnanalingham J, *Gnanalingham MG*, Gnanalingham KK. An audit of audits: Are we completing the cycle? *Journal of the Royal Society of Medicine* 2001; 94: 288-289.
- John CM, Mathew DE, *Gnanalingham MG*. An audit of Paediatric audits: Is the audit cycle being completed? *Archives of Diseases in Childhood* 2004; 89: 1128-1129.
- *Gnanalingham MG*, Mostyn A, Dandrea J, Yakubu DP, Symonds ME, Stephenson T. Ontogeny and nutritional programming of uncoupling protein-2 (UCP2) and glucocorticoid receptor (GR) mRNA in the ovine lung. *Journal of Physiology* 2005; 565.1: 159-169.
- *Gnanalingham MG*, Giussani DA, Stephenson T, Symonds ME, Gardner DS. Chronic umbilical cord compression results in accelerated maturation of lung and brown adipose tissue in the ovine fetus during late gestation. *American Journal of Physiology (Endocrinology & Metabolism)* 2005; 289: 456-465.
- *Gnanalingham MG*, Mostyn A, Forhead A, Fowden AL, Symonds ME, Stephenson T. Increased uncoupling protein-2 mRNA abundance and glucocorticoid sensitivity in adipose tissue in the sheep fetus during late gestation is dependent on plasma cortisol and triiodothyronine. *Journal of Physiology* 2005; 567.1: 283-292.
- *Gnanalingham MG*, Mostyn A, Stephenson T, Symonds ME. Ontogeny and nutritional programming of adiposity: potential role of glucocorticoid action and uncoupling protein-2. *American Journal of Physiology (Regulatory, Integrative and Comparative Physiology)* 2005; 289: 1407-1415.
- *Gnanalingham MG*, Mostyn A, Webb R, Keisler DH, Raver N, Alves-Guerra MC, Pecqueur C, Miroux B, Stephenson T, Symonds ME. Differential effects of leptin administration on

the abundance of uncoupling protein-2 and glucocorticoid action during neonatal development. *American Journal of Physiology (Endocrinology and Metabolism)* 2005; 289: 1093-1100.

- *Gnanalingham MG*, Mostyn A, Wang J, Webb R, Keisler DH, Raver N, Alves-Guerra MC, Pecqueur C, Miroux B, Stephenson T, Symonds ME. Effects of chronic leptin administration on mitochondrial protein abundance in the pancreas, liver, skeletal muscle and cerebral cortex in the neonatal sheep. *Journal of Endocrinology* 2005; 187: 81-88.
- Bispham J, Gardner DS, *Gnanalingham MG*, Stephenson T, Symonds ME, Budge H. Maternal nutritional programming of fetal adipose tissue development: differential effects on mRNA abundance for uncoupling proteins, peroxisome proliferator activated and prolactin receptors. *Endocrinology* 2005; 146: 3943-3949.
- Budge H, *Gnanalingham MG*, Gardner DS, Mostyn A, Stephenson T, Symonds ME. Maternal nutritional programming of fetal adipose tissue development: long term consequences for later obesity. *Birth Defects Research Part C Embryo Today* 2005; 75: 193-199.
- *Gnanalingham MG*, Mostyn A, Stephenson T, Gardner DS, Symonds ME. Developmental regulation of adipose tissue: Nutritional manipulation of local glucocorticoid action and uncoupling protein 2. *Adipocytes* 2006; 1 (4), 211-228.
- *Gnanalingham MG*, Mostyn A, Stephenson T, Gardner DS, Symonds ME. Developmental regulation of the lung in preparation for life after birth: Hormonal and nutritional manipulation of local glucocorticoid action and uncoupling protein 2. *Journal of Endocrinology* 2006; 188: 375-386.
- *Gnanalingham MG*, Robinson SG, Hawley DP, Gnanalingham KK. A 30-year perspective of the quality of evidence published in 25 clinical journals: Signs of change? *Postgraduate Journal in Medicine* 2006; 82: 397-399.
- *Gnanalingham MG*, Harris G, Didcock E. The availability and accessibility of basic paediatric resuscitation equipment in primary health care centres: Cause for concern? *Acta Paediatrica* 2006; 95: 1677-1679.
- *Gnanalingham MG*, Williams P, Wilson V, Bispham J, Hyatt MA, Pellicano A, Budge H, Stephenson T, Symonds ME. Nutritional manipulation between early to mid-gestation - effects on uncoupling protein-2, glucocorticoid sensitivity, insulin-like growth factor-I receptor and cell proliferation but not apoptosis in the ovine placenta. *Reproduction* 2007; 134: 615-623.
- *Gnanalingham MG*, Hyatt M, Bispham J, Mostyn A, Clarke L, Budge H, Symonds M, Stephenson T. Maternal dexamethasone administration and the maturation of perirenal adipose tissue of the neonatal sheep. *Organogenesis* 2008; 4(3): 188-194.
- Young F, *Gnanalingham MG*. "Would you choose a career in Paediatric Intensive Care?" *Student BMJ* 2013;21: f2410.

**References available upon request.**