

# Curriculum Vitae

**NAME** Sanjay Kumar VYAS

**NATIONALITY** British

**DATE OF BIRTH** 19th May 1960

**CURRENT POST** Consultant Gynaecologist  
Southmead Hospital,  
Westbury-on-Trym,  
Bristol BS10 5NB

Honorary Senior Clinical Lecturer  
University of Bristol

Director  
Southmead Endometriosis Centre

**EDUCATION**

*School*  
Christ's College Finchley,  
London.

*University*  
The London Hospital  
Medical College, 1979-1984  
University of London.

**QUALIFICATIONS**

MB, BS	1984
MRCOG	1991
MD	1992
FRCOG	2004

**MEMBERSHIPS**

British Medical Association  
British Society for Gynaecological Endoscopy  
British Medical Ultrasound Society  
Gynaecological Visiting Society (by invitation)

## **Clinical**

I have had a broad clinical training in obstetrics and gynaecology. I currently lead a tertiary referral service in gynaecology, but also maintain a research and development role in our high performing maternity team.

I was appointed consultant obstetrician and gynaecologist at Southmead Hospital (North Bristol NHS Trust) in 1994. Southmead has 6500 deliveries per annum, and a commensurate gynaecological workload. It is one of the largest maternity and women's health departments in the country, and when appointed I took leadership of the fetal medicine service and the labour ward, with a general gynaecological workload.

Increasing sub-specialisation has led to a change in my clinical focus and I now concentrate on advanced gynaecological laparoscopic surgery, particularly severe endometriosis. This area of expertise has developed during my consultant career, and I had to undertake further training whilst in post, with a graded increase in complexity of cases. Southmead was one of the first nationally accredited centres for the surgical treatment of severe endometriosis in the UK, and I am the Director of our service. My clinical practice is mainly tertiary, drawing patients from the southwest of England, Wales and further afield. Audit has demonstrated a low (<5%) complication rate and a 70% patient satisfaction rate, both of which are similar or better than other published series. Many of these patients have previously had unsuccessful primary procedures.

The surgical treatment of patients with severe endometriosis requires a multi-disciplinary team, with close collaboration between gynaecologists, colorectal surgeons and urologists. Our team at Southmead is inclusive, enthusiastic and patient centered. We treat all degrees of severity of endometriosis.

I also champion other forms of laparoscopic surgery locally and nationally. I teach juniors and mentor my consultant colleagues, resulting in a reduction in length of stay from 2.3 days in 2008/09 to 1.6 days in 2010/11 for elective gynaecological surgery at Southmead.

I was one of the first gynaecologists in the country to perform pelvic ultrasound scans in the gynaecology clinic. This leads to a 30% reduction in follow-up, a finding I have published. I have taught my local, and regional consultant colleagues to scan and introduce the same standard of care in their clinics. I have also increased my clinic capacity by training a nurse practitioner to scan. Our throughput of new patients is now higher, and more patients have a "one-stop" visit. I have set up national training courses to allow a wider dissemination of this approach (see teaching and training).

I stopped active obstetric practice in 2010 because of increasing demands for advanced laparoscopic surgery. However, I continue to be involved in complex surgical obstetrics cases and maintain my mentoring role in PROMPT (PRACTical Obstetric Multi-Professional Training).

## **Research and publication**

I have published 35 papers in peer-reviewed journals, 14 book chapters and co-edited 2 books. I have also supervised 2 MDs and an MSc. These publications cover topics across obstetrics and gynaecology (Appendix 1).

In addition, work from my research fellow's MSc has been co-opted into the BSGE on-line database of endometriosis surgery for national data collection and audit.

I was co-lead investigator of the largest randomized controlled trial investigating the treatment of miscarriage in the world, funded by the NHS Research and Development Directorate. The multi-centre study took 6 years to complete and has been published in the BMJ (2006). The results showed that outcomes and complication rates were similar with all methods of treatment, contrary to the then accepted wisdom.

- Editorial Board member, *The Obstetrician & Gynaecologist*, 1999 – 2002.
- Editor-in-Chief, *Reviews in Gynaecological Practice* (Elsevier), 2004 – 2006.
- Regular reviewer of manuscripts on gynaecology for peer reviewed journals.

## **Management and Leadership**

### ***Local***

Specialty director, Department of maternity and women's health, Southmead Hospital (2006 – 2010).

Under my leadership as Specialty Director and my encouragement of inter-professional team working, an independent review described the maternity unit at Southmead as "possibly the most collaborative environment they had seen" and "quite simply, a gem" (Pascal Metrics, 2010).

- I have performed appraisals for consultants, sat on consultant appointment committees and chaired an arbitration panel for consultant grievance.
- Successfully bid for consultant expansion to increase labour ward consultant cover from 40 to 68 hours per week, in keeping with CNST requirements.
- Increasing patient numbers (by 42%) and complexity led to a successful business case for a new consultant to join me in the Endometriosis Centre.
- Introduced a new cost neutral registrar rota to increase labour ward cover with a 20% rise in birth rate, maintaining quality of teaching.
- Improved theatre efficiency with an 11% increase in throughput.
- I have mentored, encouraged and advised the PROMPT research group in our department. It is now an internationally recognised entity focused on research to improve perinatal outcome. My active management of job plans and successful appointment of new consultants resulted in freeing the Director of PROMPT for more research time and the subsequent award of a Health Foundation Improvement Science Fellowship in 2011.
- Successfully bid for space for the PROMPT group to establish a Simulation Centre (2010).

Other local:

- Successfully bid for capital expenditure (£100 000) on cutting edge technology to start PROMPT's successful expansion into simulation training in gynaecology (2011).
- Member, Trust ACCEA national awards decision-making group (2011).
- Member, Theatres and surgery planning and implementation group (2012 – current). North Bristol Trust moved into a new PFI built hospital in 2014. This group is ensuring that we derive maximum efficiency, clinical quality and patient experience in the modern facilities.

### ***Regional***

- Panel member of the regional confidential enquiry into stillbirth and deaths in infancy (CESDI; 1997 – 2000).
- Member, Bristol maternity and neonatal services review steering group (2008). This PCT led group included medical, midwifery and lay representation. It concluded that there was a need for increased birth centre capacity and a reorganisation of neonatal services.

### ***National***

I have significant experience at board and sub-board level, including royal colleges, national specialist societies and national working parties:

- Royal College of Obstetricians and Gynaecologists (RCOG) elected Council member (1996 – 2001, re-elected 1999, 2007 – 2010); the ruling body of the RCOG.
- Member, RCOG / RCPCH Standing Joint committee (1996 – 2000); liaison over maternity and neonatal care issues.
- Member, RCOG Finance and Executive committee (1998 – 1999, 1 year term); nominated by council.
- Member, RCOG Continuing Medical Education committee (1998 – 2000); nominated by council.
- Member, RCOG Equivalence committee (2005 – 2008); assessment of applications to PMETB for inclusion on the specialist register.
- Member RCOG Services Board (elected, 2006 – 2009); ensures the excellence of services to Fellows and Members.
- British Society for Gynaecological Endoscopy (BSGE) elected Council member (2006 – 2011, re-elected 2008); the ruling body of the BSGE.
- Chairman, BSGE committee for training in advanced laparoscopic surgery (2007 – 2009); defined the training programme.
- Member, BSGE Endometriosis Centres committee (2008 - 2011). We defined the criteria for centre recognition, based on workload, audit and team working, to improve the quality of care for women. I made a major contribution to the centralisation concept and national data collection method.
- Member, RCOG Standards Board (2008 - 2010). Defined standards of care in obstetrics and gynaecology, developed effective patient information in print and electronically with involvement from consumer representatives throughout the process.

- Member, RCR / RCOG Working party on uterine artery embolization in the treatment of fibroids (2009). Contributed to care pathway design; more centres now provide this procedure, as an alternative to the more invasive operations of myomectomy and hysterectomy.
- Member, RCOG Working Party: High Quality Women's Health Care, A Proposal for Change (2011). I made a major contribution to the literature review, analysis and conclusions of this document, submitted to the Department of Health. It proposed managed clinical networks as a model of delivery of women's health services in a modern, efficient and patient centred NHS.
- Member RCOG Health & Social Care Bill Task Force (2012 - 2013).

I have had media training, and have appeared on women's health related topics on live television and radio.

## **Teaching and training**

### ***Local***

- Delivered courses in basic surgical skills and intermediate laparoscopic surgery (2005 - current).
- Lead surgeon and organiser, Southmead masterclass in advanced laparoscopic surgery for established consultants (2008 - current); feedback - excellent.
- Led the successful bid for Southmead to be one of the first 5 centres for advanced laparoscopic surgery training (2010). Southmead was also the most popular centre for this training in 2012, judged by applicants on the national training programme.

### ***National***

I have led major changes in the national specialty training programme:

- Chairman, RCOG Working party on special skills training (1999). We recognised the need for focused, structured training for specialist registrars in year 4 and 5, in areas beyond core training. The report recommended that advances in clinical practice, reduced training hours and the needs of patients needed a more varied and focused consultant work force.
- Chairman, RCOG Special skills implementation group (1999 – 2001); established the process of implementation of special skills training and integration with core training.
- RCOG Special skills officer (2001 – 2004); developed modular training in special skills and either wrote or edited the detailed content of 11 training modules. I worked closely with the professional societies, to develop a consensus that recognised the need for special skills training whilst at the same time maintaining the quality of sub-specialist training.
- Member, RCOG Working party to review log books (2002); rewrote the core log-book for specialist registrars in years 1 to 3, moving away from measurement of training by time and numbers of procedures, to competency based assessment.

- Chairman, RCOG Working party on implementation of special skills training (2002); reviewed initial experience of special skills training.

In addition, I have led the introduction of advanced laparoscopic surgery training in the UK by:

- Co-authoring the training programme in advanced laparoscopic surgery (2008).
- Chairing the committee for its introduction by the BSGE and RCOG (2009 - 2011). Nationally, 10 centres have been selected for this advanced training module.
- Leading the RCOG appointment panel to this programme (2009 and 2011), selecting the national centres and appointing trainees to them.

### ***International***

- Faculty member (2006 - current) and course leader (2011), European Surgical Institute; training established consultants in laparoscopic surgery techniques on live anaesthetised porcine preparations.

I am regularly invited to speak at national and international meetings on clinical, training and organisational issues.

### **Personal statement**

I have an excellent record of improvement in patient outcomes, partnership working, and innovation across women's health. I am considered an opinion leader in my specialty with national board level experience. I am inclusive, and able to rapidly assimilate information into coherent concepts. I am able to build effective, consensual partnerships. Locally, I have orchestrated the development of one of the highest performing maternity teams in the country, whose tools and training methods are now being used worldwide.

I also have experience at senior national level in standard setting, governance and management of change. This broad clinical, managerial, leadership and teaching expertise has, and will, continue to help me navigate the complexity of today's health service.

I ensure that patients receive evidence based, cost-effective and patient centred care. I work with patients, clinicians and the service, using all available levers, to improve behaviour, practice and hence outcomes.

## APPENDIX 1: PUBLICATIONS

### THESIS

**Vyas S**, Investigation of placental and fetal renal and cerebral circulations by colour Doppler ultrasound. University of London (1992).

### PEER REVIEW JOURNALS

1. [Vyas S, Nicolaides KH, Campbell S. Renal artery flow velocity waveforms in normal and hypoxaemic fetuses. Am J Obstet Gynecol 1989; 161: 168-172.](#)
2. [Rabinovitz R, Peters MT, Vyas S, Campbell S, Nicolaides KH. Measurement of fetal urine production in normal pregnancy by real time ultrasonography. Am J Obstet Gynecol 1989; 161: 1264-1267.](#)
3. [Jauniaux E, Campbell S, Vyas S. The use of colour Doppler imaging for prenatal diagnosis of cord anomalies. A report of three cases. Am J Obstet Gynecol 1989; 161: 1195-1197.](#)
4. [Vyas S, Campbell S, Bower S, Nicolaides KH. Maternal abdominal pressure alters fetal cerebral blood flow. Br J Obstet Gynaecol 1990; 97: 740-742.](#)
5. [Jauniaux E, Vyas S, Finlayson C, Moscoso G, Driver M, Campbell S. Early sonographic diagnosis of body stalk anomaly. Prenat Diagnosis 1990; 10: 127-132.](#)
6. [Vyas S, Nicolaides KH, Campbell S. Doppler examination of the middle cerebral artery in anaemic fetuses. Am J Obstet Gynecol 1990; 162: 1066-1068.](#)
7. [Nicolaides KH, Peters MT, Vyas S, Rabinowitz R, Rosen DJD, Campbell S. Relation of urine production rate to oxygen tension in small for gestational age fetuses. Am J Obstet Gynecol 1990; 162: 387-391.](#)
8. [Vyas S, Nicolaides KH, Bower S, Campbell S. Middle cerebral artery flow velocity waveforms in fetal hypoxaemia. Br J Obstet Gynaecol 1990; 97: 797-803.](#)
9. [Campbell S, Vyas S, Nicolaides KH. Doppler examination of the fetal circulation. J Perinat Med 1991; 19: 21-26.](#)
10. [Bower S, Campbell S, Vyas S, Mcgirr C. Braxton-Hicks contractions can alter uteroplacental perfusion. Ultrasound in Obstet Gynecol 1991; 1: 46-49.](#)
11. [Campbell S, Vyas S, Nicolaides KH. Doppler investigation of the fetal circulation. J Perinat Med. 1991; 19\(1-2\): 21-6](#)

12. [Kempley ST, Gamsu HR, Vyas S, Nicolaides K. Effects of intra-uterine growth retardation on postnatal visceral and cerebral blood flow velocity. Arch Dis Childhood 1991; 66: 1115-1118.](#)
13. [Thorpe-Beeston JG, Nicolaides KH, Sjniders R, Felton C, Vyas S, Campbell S. Relations between the fetal circulation and pituitary-thyroid function. Br J Obstet Gynaecol 1991; 98: 1163-1167.](#)
14. [Gangar KF, Vyas S, Whitehead MI, Crook D, Meire H, Campbell S. Pulsatility index in internal carotid artery in relation to transdermal oestradiol and time since menopause. Lancet 1991; ii: 839-841.](#)
15. [Bower S, Vyas S, Campbell S, Nicolaides KH. Colour Doppler imaging of the uterine artery in pregnancy: normal ranges of impedance to blood flow, mean velocity and volume flow. Ultrasound Obstet Gynecol 1992; 2: 261-265.](#)
16. [Bower S, Vyas S, Campbell S, Nicolaides KH. Colour Doppler imaging of the uterine artery in pregnancy. Ultrasound in Obstet Gynecol 1992; 2: 375.](#)
17. [Creighton S, Bourne T, Lawton F, Crayford T, Vyas S, Campbell S, Collins W. Use of transvaginal ultrasonography with color Doppler imaging to determine an appropriate treatment regimen for uterine fibroids with a GnRH agonist before surgery: a preliminary study. Ultrasound Obstet Gynecol 1994; 4: 494-498.](#)
18. [Jackson S, Porter H, Vyas S. Trisomy 18: first trimester nuchal translucency with pathological correlation. Ultrasound Obstet Gynecol 1995; 5: 55-56.](#)
19. [Eckford SD, Vyas S, Mills MS, Bamford DS. Delayed placental abruption after road traffic accident. J Obstet Gynaecol 1995; 15: 186-188.](#)
20. [Rowlands DJ, Vyas S. Longitudinal study of fetal middle cerebral artery flow velocity waveforms preceding fetal death. Br J Obstet Gynaecol 1995; 102: 888 - 890.](#)
21. [Vyas S and Gangar K. Postmenopausal oestrogen and arteries. Br J Obstet Gynaecol. 1995; 102: 942 - 946.](#)
22. [Kempley ST, Vyas S, Bower S, Nicolaides KH, Gamsu H. Cerebral and renal artery blood flow velocity before and after birth. Early Hum Dev. 1996 Sep 20; 46\(1-2\): 165-74.](#)
23. [Macdonald RD, Smith PA, Vyas SK. Transvaginal ultrasound in the management of women with suspected cervical incompetence \(letter\). BJOG 1997; 104: 383.](#)

24. Macdonald RD, Smith PA, Vyas SK. Nationwide questionnaire on prophylactic steroid use in antenatal care. *J Obstet Gynaecol* 1997; 17 Supp 1: 18.
25. Macdonald RD, Smith PA, Vyas SK. An audit of antenatal steroid use; a comparison of present practice with the RCOG guidelines. *Acta Obstet Gynecol Scand* 1997; 76: 87.
26. [Jackson SR, Vyas SK. A double blind placebo controlled study of postmenopausal oestrogen replacement therapy and carotid artery pulsatility index. \*Br J Obstet Gynaecol\*. 1998; 102: 408 - 412.](#)
27. [Akande VA, Vyas SK. Questioning the ubiquity of outpatient endometrial sampling in the management of menstrual disorders. \*Br J Obstet Gynaecol\*. 2003; 110: 971 – 974.](#)
28. [O’Leary AJ, Vyas SK. The value of ultrasound in patients with acute onset of abdominal pain. \*RIGP\* 2003; 3: 103 – 108.](#)
29. [O’Leary J, Vyas SK. Le Fort’s partial colpocleisis: a review of one surgeons experience. \*Gynecol Surgery\* 2004; 1: 15 – 19.](#)
30. [O’Leary AJ, Vyas SK. Haematometra presenting as secondary amenorrhoea. \*Gynecol Surgery\* 2004; 1: 127 – 128.](#)
31. [O’Leary AJ, Vyas SK. Recognition of uterine perforation during Thermachoice endometrial ablation: the importance of safety devices in second generation ablative techniques. \*Gynecol Surgery\* 2004; 1: 43 – 44.](#)
32. [O’Leary AJ, Vyas SK. Association between availability of Transvaginal ultrasound examination in a general gynaecology clinic and fewer follow up visits. \*Gynecol Surgery\* 2006; 3: 15 – 17.](#)
33. [Trinder J, Brocklehurst R, Porter R, Read M, Vyas S, Smith L. Management of miscarriage: expectant, medical, or surgical? Results of randomised controlled trial \(miscarriage treatment \(MIST\) trial\). \*BMJ\* 2006; 332: 1235 – 1240.](#)
34. [Cass GKS, Vyas S, Akande V. Prolonged laparoscopic surgery is associated with an increased risk of vertebral disc prolapse. \*J Obstet Gynaecol\* 2014; 34: 74 – 78.](#)
35. [Hogg S, Vyas S. Endometriosis. \*Obs Gynae Rep Med\* 2015; 25-5: 133 – 142.](#)

## EDITORIALS

1. [Vyas S. Screening for Down's syndrome. BMJ 1994; 309: 753-754.](#)

## CHAPTERS

1. [Vyas S, Campbell S. Investigation of the fetal circulation using Doppler ultrasound. In, The circulation in the female; Ginsburg J \(Ed\): Parthenon Publishing, 1989.](#)
2. [Vyas S. Doppler findings in normal human fetuses. In, Doppler ultrasound in perinatal medicine; Pearce JMF \(Ed\): Oxford University Press, 1992.](#)
3. [Vyas S, Campbell S. Doppler studies of the cerebral and renal circulations in small for gestational age fetuses. In, Doppler ultrasound in perinatal medicine; Pearce JMF \(Ed\): Oxford University Press, 1992.](#)
4. **Vyas S, Campbell S.** Fetal doppler studies in the hypoxic fetus. In, Textbook of ultrasound in obstetrics and gynaecology; Chervenak FA, Isaacson GC and Campbell S (Eds): Little, Brown and Company, 1993.
5. **Vyas S,** Human fetal responses to chronic hypoxaemia: Doppler studies of the cerebral and renal circulations. In, Obstetric Ultrasound Volume 1; Neilson JP and Chambers SE (Eds): Oxford University Press, 1993.
6. [Rowlands DJ, Vyas SK. Doppler and obstetrics: where are we now ? In, The yearbook of Obstetrics and Gynaecology; O'Brien PMS \(Ed\):RCOG Press 1997.](#)
7. [Macdonald RD, Vyas SK. Cervical incompetence. In, Progress in Obstetrics & Gynaecology; Studd JWW \(Ed\): Churchill Livingstone, 1998.](#)
8. [O'Leary AJ, Tejura HR, Vyas S. Ultrasound imaging in gynaecological practice. In, Jurkovic D, Valentine L, Vyas S \(Eds\). Gynaecological ultrasound in clinical practice. RCOG Press 2009.](#)
9. [Trinder J, Vyas S. Diagnosis and management of miscarriage. In, Jurkovic D, Valentine L, Vyas S \(Eds\). Gynaecological ultrasound in clinical practice. RCOG Press 2009.](#)
10. [O'Leary A, Tejura H, Vyas S. Ultrasound imaging in gynaecological practice. In: Jurkovic D, Valentin L, Vyas S, Eds. Gynaecological Ultrasound in Clinical Practice. RCOG Press 2009.](#)
11. [Trinder J and Vyas S. Diagnosis and management of miscarriage. In: Jurkovic D, Valentin L, Vyas S, Eds. Gynaecological Ultrasound in Clinical Practice. RCOG Press 2009.](#)

12. [Akande V and Vyas S. Ovarian surgery. In: Cutner A and Vyas S, Eds. Laparoscopic surgery for benign gynaecology. RCOG Press 2011.](#)
13. [Burden C and Vyas S. Role of minimally invasive surgery in acute gynaecology. In: Jurkovic D and Farquarson R, Eds, Acute gynaecology and early pregnancy. RCOG Press 2011.](#)
14. [Burden C and Vyas S. Laparoscopic surgery in obese women. In: Mahmood T and Arulkumaran S, Eds, Obesity: A ticking timebomb for reproductive health. Elsevier 2012.](#)

## **BOOKS**

1. [Jurkovic D, Valentine L, Vyas S \(Eds\). Gynaecological ultrasound in clinical practice. RCOG Press \(2009\).](#)
2. [Cutner A, Vyas S \(Eds\). Laparoscopic surgery for benign gynaecology. RCOG Press \(2011\).](#)

## **SUPERVISED THESES AND DISSERTATIONS**

1. Macdonald R. The cervix in pregnancy (MD; 2000).
2. Mears JE. An investigation into the diagnosis and documentation of endometriosis at diagnostic laparoscopy (MSc; 2007).
3. O’Leary A. The impact of menstrual dysfunction on women’s quality of life (MD; 2010).