

CURRICULUM VITAE

Roobin Parvez Jokhi

**BMedSci (Hons), MB ChB
MRCOG, MD**

NAME Roobin Parvez JOKHI.

DATE OF BIRTH 30 June 1974.

NATIONALITY British.

GMC REGISTRATION NO. 4531166.

NATIONAL TRAINING NO. SHF/040/219/N

QUALIFICATIONS

2015: MD (Sheffield)

2007: RCOG/RCR Diploma in Advanced Obstetric
Ultrasound

2004: MRCOG part II (first attempt)

2002: Diploma of the Faculty of Family Planning

2000: MRCOG part I (first attempt).

1992-1998: MB ChB, University of Sheffield.

1996-1997: BMedSci (Hons.), University of Sheffield.
1st Class Honours in Reproductive Biology

DISTINCTIONS General Practice and Public Health Module
Final MB ChB Part I: Clinical Examination.

PRESENT APPOINTMENT

I am a Consultant in Obstetrics and Gynaecology and a Sub-Specialist in Maternal and Fetal Medicine in the Department of Obstetrics & Gynaecology based at the Jessop Wing in Sheffield.

CLINICAL EXPERIENCE

FETAL MEDICINE EXPERIENCE

As a Consultant in the Feto-Maternal Unit in Sheffield, I see a wide range of problems including structural abnormalities of all organ systems detected on ultrasound either from our scan department or referred from other units, multiple pregnancies with complications such as structural defects or growth restriction in one of the fetuses and undertake surveillance for maternal blood antibodies and severe growth restriction. I am competent in the use of dopplers for the non-invasive investigation of fetal well-being including umbilical artery, middle cerebral, ductus venosus and uterine artery dopplers. I have used my experience from attachments to the department of Clinical Genetics, where I gained exposure to a wide variety of common and rare chromosomal and genetic disorders, to apply this knowledge to my practice. I perform both amniocentesis and chorionic villus sampling regularly as well as amniodrainage for polyhydramnios. I have performed second and third trimester feticide as well performing intra-uterine transfusions for fetal anaemia and thrombocytopenia. Extensive exposure to variety of fetal conditions has given me invaluable experience in counselling women and their families attending the clinic in an objective and sensitive manner and aiding them in making difficult decisions regarding their pregnancy as well as fully involving them in planning their care and management. I feel that this has been a vital aspect of my training that has benefited as my professional development in Fetal Medicine grows.

MATERNAL MEDICINE EXPERIENCE

For the past 10 years I have run the monthly joint care renal clinic. Sheffield is a regional tertiary referral centre for women with renal transplants who become pregnant. In conjunction with a consultant nephrologist, I see a wide range of women with renal disease including women who have a combination of renal disease, hypertension or diabetes mellitus for pre-pregnancy

counselling and follow them up during their pregnancy. The aim is to minimise the maternal and fetal complications associated with these diseases by regular surveillance and multi-disciplinary team work involving specialist nurses and midwives as well as colleagues from other disciplines including Endocrinology, Cardiology and Medicine.

In addition to the Renal clinic, I see patients in the Rheumatology and Epilepsy clinics with other colleagues. As a sub-specialist trainee, I had experience with providing care for a comprehensive range of medical disorders in pregnancy with attachments in combined clinics for Cardiology, Diabetes and Endocrine disorders, substance misuse and blood borne virus clinics. I have had placements in Anaesthetics and Intensive Care plus Obstetric Anaesthetics which has vastly added to my knowledge of maternal physiology and recognition of the critically ill patient including identifying the women with complex pregnancies that may require intensive support early.

During my research, I became experienced at transvaginal ultrasound measurement of cervical length as a method of screening women who were at increased risk of pre-term labour. After starting my training, I continued to develop my skills and became fully competent at assessment of cervical length. I regularly see women who have risk factors for pre-term labour and formulate management plans in order to minimise their chances of premature birth and the associated maternal and neonatal morbidity. During my FMU clinics I review patients in the Ante-Natal day unit where I assess and make plans for follow-up and delivery of complex and high risk pregnancies. These include management of obstetric cholestasis, pre-eclampsia, multiple pregnancy and diabetes as well as fetal growth restriction. This involves discussions with the Neonatologists and Anaesthetists to optimise timing of delivery and maternal and fetal outcome.

LABOUR WARD & SURGICAL EXPERIENCE

In addition to broad experience in labour ward care, I spent 5 years prior to starting my Consultant job gaining extensive experience as a Senior Specialist Registrar (2nd on call) in a unit of over 7000 deliveries per year. I

counsel patients, some of whom have complex medical problems, and formulate plans for labour and delivery. The responsibilities included supervising the first on-call registrar and a Senior House Officer, especially on nights, and undertaking difficult abdominal and rotational vaginal operative deliveries. I regularly perform elective Caesarean sections at all stages of pregnancy including extreme pre-term gestations on women with complex medical disorders that require intensive multi-disciplinary input or in pregnancies where the fetal condition requires abdominal delivery. This benefitted me immensely in settling into my role where I have continued to manage the Labour Ward and support junior Obstetricians and the midwives.

RESEARCH EXPERIENCE

I. Bachelor of Medical Science (Hons).

Title: The role of mitochondrial DNA mutations in the pathogenesis of male factor infertility. **Degree achieved: Class I Honours**

This was a one-year research project in the University Department of Obstetrics and Gynaecology under the supervision of Dr. Christopher L.R. Barratt (Senior Lecturer in Obstetrics and Gynaecology) at the Jessop Hospital for Women, Sheffield.

The aim of this research was to test the hypothesis that deletions in the mitochondrial genome could be one cause of male factor infertility. This involved using a variety of laboratory based techniques in andrology and molecular biology, including the use of Polymerase Chain Reaction. I worked frequently alone on my own initiative and also as part of a team, co-operating with students and lecturers both in the department, and in other hospitals to our mutual benefit. This study allowed me to meet and discuss aspects of the research with scientists working in related fields both from Sheffield and elsewhere. In addition, I have contributed to the preparation of posters and presentations at conferences in Sheffield, Dundee and Baltimore in the United States.

II. Doctor of Medicine.

Title: The role of cervical electrical impedance spectroscopy in the investigation of term and pre-term labour.

This was a funded research project in the University Department of Obstetrics and Gynaecology under the supervision of Mr. D.O.C. Anumba, Senior Clinical Lecturer in Obstetrics & Gynaecology at the Jessop Wing in Sheffield.

The purpose of the research was to assess whether electrical impedance spectroscopy (EIS) along with transvaginal assessment of cervical length can better assess cervical ripening and more accurately predict the onset and course of labour. The objective was to use the data to predict those women at high risk for premature labour so that they may be effectively treated.

During the course of my research, I gained experience in many different areas including, a better understanding of trial design, approach and consent of trial participants as well as confronting ethical issues underlying human research participation. In addition, I have an improved understanding of the interface between device research design and commercialisation of medical devices. The research also allowed me to become familiar with data collection, analysis and the use of statistical methods such as, parametric and non-parametric tests and tests of prediction and correlation (SPSS and MedCalc). I was awarded my MD by the University of Sheffield in January 2016. My current publication list is as follows:

Full Papers/Manuscripts.

1. Rautengarten C, Quarrell OW, Stals K, Caswell R, De Franco E, Baple E, Burgess N, **Jokhi R**, Heazlewood JL, Offiah AC, Ebert B, Ellard S: (2019) A hypomorphic allele of SLC35D1 results in Schneckenbecken-like dysplasia. *Hum Mol Genet.* 2019 Aug 19
2. **Jokhi RP**, Whitby EH: (2011) Fetal MRI imaging. Review article *Developmental Medicine & Child Neurology* 53:1 18-28.
3. **Jokhi RP**, Barnes I, Anumba DOC: (2011) Evaluation of a regional cytogenetic service 1999-2009: Meeting the challenges of the national fetal anomaly screening programme. (Submitted)

4. **Jokhi RP**, Brown BH, Anumba DOC: (2009) The role of cervical electrical impedance spectroscopy in the prediction of the course and outcome of induced labour. *BMC Pregnancy and Childbirth*, **9**:40.
5. **Jokhi RP**, Ghule VV, Brown BH, Anumba DOC: (2009) Reproducibility & repeatability of measuring the electrical impedance of the pregnant human cervix- the effect of probe size and applied pressure. *BioMedical Engineering OnLine*, **8**:10.
6. St. John JC, **Jokhi RP**, Barratt CLR: (2005) The impact of mitochondrial genetics on male infertility. *International Journal of Andrology* **28**; 65-73.
7. St. John JC, **Jokhi RP**, Barratt CLR: (2001) Men with oligoasthenozoospermia harbour higher numbers of mitochondrial DNA deletions in their spermatozoa, but individual deletions are not indicative of overall aetiology. *Molecular Human Reproduction*, **7**(1), p 103-111.
8. Strachan BK, **Jokhi RP**, Filshie GM: (2000) Persistent Hyperemesis gravidarum and *Helicobacter Pylori* infection: Case Report. *Journal of Obstetrics and Gynaecology*, **20**(4), p 427.
9. St. John JC, **Jokhi RP**, Barratt CLR, Cooke ID: (1997) The effects of mitochondrial dysfunction on sperm motility. *Human Reproduction Supplement*, **12**: p11.
10. St. John JC, **Jokhi RP**, Barratt CLR, Cooke ID: (1997) The Association Between Mitochondrial DNA and Free Radicals. Serono Symposium XIV: Testis Workshop: Germ Cell Development, Division, Disruption and Death. February 19-22, 1997.

Posters & Presentations

1. Bonnett TJ, Khalid A, Throssell D, Farrell TA, **Jokhi RP**: (2011) Chronic renal disease in pregnancy: Obstetric outcomes and effect of Pregnancy on renal function. Perinatal Medicine Congress, Harrogate, June 2011.
2. Anumba DOC, **Jokhi RP**, Ghule VV, Healey J, Brown BH: (2011) Cervical Electrical Impedance Spectroscopy may predict preterm delivery in women at risk. Society for Gynaecological Investigation, Miami, March 2011.
3. **Jokhi RP**, Barnes I, Anumba DOC: (2010): Evaluation of the North Trent Cytogenetic Service 1999-2009. BMFMS meeting, Gateshead June 2010.
4. **Jokhi RP**, Barnes I, Anumba DOC: (2009) Evaluation of a regional cytogenetic service 1999-2009: Meeting the challenges of the national fetal anomaly screening programme. Oral presentation – President's Meeting of North of England Obstetrical & Gynaecological Society, November 2009. **Winner – Best Oral Presentation.**
5. **Jokhi RP**, Brown BH, Anumba DOC: (2008) Cervical electrical impedance spectroscopy in the prediction of the onset of induced labour. Oral presentation. Annual Meeting of the Blair Bell Research Society, Manchester, December 2008.
6. **Jokhi RP**, Brown BH, Anumba DOC: (2008) The role of cervical electrical impedance spectroscopy in the prediction of the course and outcome of induced labour. **Finalist – Poster competition.** Perinatal Medicine Congress, June 2008.
7. **Jokhi RP**, Ola B, Farrell TA: (2006) Raised midtrimester free serum β HCG as a predictor of pre-eclampsia and adverse perinatal outcome: A systematic review. BMFMS meeting, April 2006.
8. Green AH, **Jokhi RP**, Farrell TA: (2006) Raised midtrimester free serum β HCG as a predictor of pre-eclampsia and adverse perinatal outcome: Data from Sheffield 2001-2004. BMFMS meeting, April 2006

9. **Jokhi RP**, Barnes I, Anumba DOC: (2004) Audit to evaluate the accuracy of rapid test FISH amniocentesis and direct preparation CVS: Data from North Trent 1999-2002. BMFMS meeting, April 2004.
10. Farrell TA, **Jokhi RP**, Fraser RB, Bruce C: (2004) Can ante-natal growth velocity predict hyperinsulinaemia in the diabetic pregnancy? North of England Obstetric & Gynaecological Society meeting, Sheffield, March 2004.
11. **Jokhi RP**: (2002) Recent advances in HIV in pregnancy. Trent Regional Meeting on Infectious Diseases in Pregnancy. Nottingham, May 2002.

CLINICAL RISK

I am the lead professional in the Each Baby Counts (EBC) programme run by the Royal College of Obstetricians and Gynaecologists (RCOG) where cases of term admissions to the Neonatal Unit or cases of stillbirth are reviewed to assess whether there were any areas of concern in the care provided. I also attend the weekly Neonatal Morbidity and Mortality meeting and the bi-weekly Obstetric/Midwifery MDT to discuss babies that have been in the Neonatal ICU or Special Care to discuss elements around their management. I also have responsibility for overseeing the monthly perinatal morbidity and mortality meeting where specific cases are looked at in a multidisciplinary setting to determine whether there were any issues during the labour and delivery that contributed to the clinical picture. I am regularly asked to see bereaved parents or parents with questions around their pregnancy to go through their queries if there were any deficiencies in the care provided and offer full Duty of Candour if the management of the pregnancy whilst under our care fell below an acceptable standard or directly contributed to the outcome of their pregnancy.

TRAINING, QUALIFICATIONS AND ACCREDITATION AS AN EXPERT WITNESS

I have attended a Medico-legal expert training course run in-house in 2012 as well as the Medico-legal expert advance training in writing reports in Clinical Negligence 2015 run by Specialistinfo.com. In addition I have completed the Bond Solon, Excellence in Written evidence and the Expert Witness Course in June 2019.

TEACHING, TRAINING & PROFESSIONAL DEVELOPMENT

I am the lead for Postgraduate Medical Teaching within the Department of Obstetrics and Gynaecology and arrange monthly meetings designed to enhance the learning for the trainees and allow them to fulfil the criteria set in their logbooks.

I am regularly in contact with both medical and midwifery students on Labour Ward, in ante-natal clinic and the Feto-Maternal Unit. I give a formal lecture to each intake of the medical students starting their Obstetric and Gynaecology placement every 10 weeks and take every opportunity to conduct informal teaching, which is both theoretical and patient-based. On Labour Ward, I perform hands-on practical training in all procedures for the junior trainees and also perform formal assessments and fill in OSAT forms that fulfil their training requirements.

I was previously involved in facilitating PROMPT (Practical Obstetrics Multi-Professional Training) which was an RCOG approved training course covering the management of a range of obstetric emergency situations, which fulfils all the requirements of the maternity standards for CNST levels 2 and 3. In this forum, we gave lectures and conducted the practical management of shoulder dystocia, major obstetric haemorrhage, adult and neonatal resuscitation as well as breech delivery.

ORGANISATION & ADMINISTRATION

I organise the monthly Fetal Medicine Multi-Disciplinary Team meetings focusing on case based discussions and outcomes. These meetings are well attended by staff and they involve input from many specialties including Genetics (both clinical and laboratory genetics), Radiology, Neonatology, Paediatric Surgery, Paediatric Pathology and Obstetrics. In addition, I have had the responsibility for running the regular peri-natal mortality meetings where cases which have important learning points are discussed in an open forum. I have also been the representative for the middle grades in other trusts' Labour Ward forums and have been responsible for producing evidence-based guidelines to be used in these departments. I have presented at audit meetings as well as departmental and regional education sessions where various topics are discussed to further knowledge within the group. I also organise the maternal morbidity and mortality meeting twice a year where cases of women who underwent significant morbidity or mortality are discussed. The emphasis is on education and eliciting learning points and strategies for the future.

On a clinical level, I manage the Labour Ward in the daytime and at night when I am the senior resident and need to be adept in prioritising duties and tasks, which come to attention during the course of the shift. I regularly dictate discharge letters following in-patient care and where appropriate, letters to other specialist colleagues when their input is required. I have previously had responsibility in organising the on-call and daytime rota for 17 junior doctors and had to re-organise the rota to take the European Working Time Directive into consideration.

NATIONAL & INTERNATIONAL MEETINGS ATTENDED

- International Society of Ultrasound in Obstetrics & Gynecology World Congress, Singapore, October 2018.
- International Society of Ultrasound in Obstetrics & Gynecology World Congress, Montreal, October 2015.
- International Society of Ultrasound in Obstetrics & Gynecology World Congress, Copenhagen, September 2012.
- Perinatal Medicine Congress, Harrogate, June 15-17th, 2011.

- British Maternal & Foetal Medicine Society Meeting, Gateshead, June 2010.
- International Society of Ultrasound in Obstetrics & Gynaecology (ISUOG) Meeting, London, December 2009.
- Medical Disorders in Pregnancy – Royal College of Physicians, November 2009.
- North of England President's Meeting, Sheffield, November 2009.
- Fetal Medicine, Imperial College, London, July 2009.
- Perinatal Medicine Congress, Harrogate, June 2008.
- British Maternal & Foetal Medicine Society Meeting, Cardiff, April 2006.
- British Maternal & Foetal Medicine Society Meeting, Nottingham, April 2005.
- British Maternal & Foetal Medicine Society Meeting, Glasgow, April 2004.
- North of England Meeting, Sheffield, March 2004 & November 2003.
- North of England Meeting, Leeds, May 2003.
- British Midland Obstetric & Gynaecological Society meeting, Oxford, May 2000
- British Mitochondrial Symposium, Sheffield, April 1997.
- British Fertility Society, Dundee, December 1996.

MEMBERSHIP OF PROFESSIONAL ORGANISATIONS

Royal College of Obstetricians & Gynaecologists (Member No. 129153).

International Society of Ultrasound in Obstetrics & Gynaecology (Member No. 11997).

Medical Protection Society (Member No. 236512).