of CS using VF as a marker for maternal obesity and to compare it with Body Mass Index (BMI) as a predictor.

Women were recruited following ultrasound confirmation of a singleton first trimester pregnancy. Maternal VF was measured using Bioelectrical Impedance Analysis (BIA). Maternal BMI was measured. Data was analysed using SPSS.

Of the 3000 women recruited, 2825 women subsequently delivered a baby weighing >500 g. There were 45.9% primigravids and 17.6% were obese. The CS rate was 21.4%. VF in the 3rd and 4th quintiles was associated with an odds ratio for CS of 1.6 (95% CI 1.3–2.1) and 2.2 (95% CI 1.7–2.9) respectively (p < 0.001). BMI in the 3rd and 4th quintiles was associated with an OR for CS of 1.5 (95% CI 1.2–2.0) and 2.3 (95% CI 1.7–3.3) respectively (p < 0.001). After controlling for parity, previous CS and birth weight the ORs were 1.8 (95% CI 1.3–2.4) and 2.3 (95% CI 1.7–2.1) for the 3rd and 4th quintiles for VF (p < 0.001). The adjusted ORs for CS were 1.6 (95% CI 1.2–2.3) and 2.4 (95% CI 1.7–3.4) when the 3rd and 4th quintiles for BMI were used.

Maternal obesity is associated with an increased risk of CS. Maternal adiposity measured by BIA is as good a predictor of the risk of CS as BMI.

PL 38  RECURRANCE RATE OF THIRD DEGREE PERINEAL TEARS AT ST MICHAEL’S HOSPITAL

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Introduction A number of risk factors for third and fourth degree perineal tears or obstetric anal sphincter injury (OASI) have been identified, but the recurrence of recurrence is not consistent in the observational studies.

Aim To assess the rate of third degree tear following an OASI in the first pregnancy in a tertiary referral unit.

Methods Data was collected from maternity database, for women diagnosed with an OASI in their first pregnancy who went on to have a subsequent pregnancy at St. Michael’s hospital. Data collection period was between 2007–2012. Data was limited to term, singleton, cephalic deliveries in subsequent pregnancy.

Results 210 women met the criteria, 65 (30%) had an elective caesarean section and 147 (70%) opted for vaginal delivery. 10/147 (6.8%) required an emergency LSCS. 14/137 (10.2%) women who had a vaginal delivery sustained a further OASI. When comparing the women who had OASI to women who did not sustain an OASI in the subsequent pregnancy, there was no significant difference between the mean birth weights or the mode of onset of labour.

Conclusion Over the five year period the recurrence risk of OASI was low. This information can be used to advise women when discussing mode of delivery in subsequent pregnancies. Further research is needed into the pelvic floor symptom profile of the women who have a vaginal birth following an OASI in the first pregnancy.

PL 39 INCIDENCE AND RISK FACTORS FOR SEVERE PPH: A PROSPECTIVE SOUTH EAST EAST COAST STUDY (STOP)

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Introduction Postpartum haemorrhage (PPH) is common, rising and treatable (1). Most women are not compromised until estimated blood loss (EBL) exceeds 1000 ml (2). Major PPH remains a cause of maternal death (3) but definitions vary, making comparisons difficult. The Scottish population-based annual audit reported 0.55% incidence of PPH ≥2500 ml, the highest since inception (4).

Aims To ascertain the incidences of severe PPH defined as EBL ≥1000 ml ≥1500 ml and ≥2500 ml in a prospective cohort from South East England. To determine risk factors associated with EBL at, and progressing from, these levels.

Methods Routine data were imported from 10,213 women delivering in two units 2008–9. All cases with imported EBL ≥1000 ml and/or identified via blood transfusion services were reviewed. Weighted sampling and chronological stepwise regression analysis were performed. Incidence was compared historically (same geographical population 1997–8) and contemporaneously (Scottish Audit 2009).

Results Incidence of PPH ≥2500 ml = 3.5% (95% CI 2.8–4.2) and at ≥1000 ml and ≥2500 ml were 10.1% (95%CI 8.8–11.4), 4.7% (95%CI 3.3–6.1) and 0.8% (95% CI 0.6–1.0) respectively. Historical rate of PPH ≥2500 ml was 1.12% (95%CI 0.92–1.38). Contemporary PPH ≥2500 ml was 0.55% (95% CI 0.5 to 0.6). Risk factors for severe PPH included BMI, generally unwell without diagnosis, anterior placenta praevia, chorioamnionitis, no labour, physiological 3rd stage of labour and interval to suturing. Previous, elective and emergency caesarean section were protective.

Conclusions Severe PPH rates are rising rapidly. These demonstrated are comparable with contemporaneous UK data. Risk factors for PPH and severe PPH differ. The underlying causes originate pre-pregnancy, through pre-existing health status and previous obstetric history, some are associated with quality of care.

REFERENCES


PL 40 ACCESS TO OBSTETRIC SERVICES IN RURAL SUB-SAHARAN AFRICA: A HOSPITAL BASED SURVEY

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Background Access to Emergency Obstetric Care (EmOC) is an indicator used to monitor progress towards the achievement of Millennium Development Goals 4 and 5. Lack of access or delay in transportation to hospital is recognised as part of ‘The Three Delays Model’ and is a major barrier to accessing care for pregnant women living in rural Sub-Saharan Africa.

Objective To determine time taken (minutes) by any mode of transport, to reach an obstetric facility by pregnant women in Zambia, Tanzania and Zimbabwe.

Methods A structured questionnaire in Swahili was used to interview pregnant women from 20–42 weeks gestation who presented to hospital.

Results 750 women were interviewed on the labour ward and antenatal clinics in referral hospitals served by rural antenatal clinics in Zambia (N = 128), Tanzania (N = 246) and Zimbabwe (N = 376). Median gestation was 33.4 weeks (N = 681). 35.8% were primiparous (N = 614). The mean time taken to get from home to obstetric care was 43.8 minutes (IQR = 15–60, median 30). The most common mode of transport was bus (40.6%), followed by foot (30.7%), car (19.3%), bike (9.0%) and other (0.4%) (N = 512).

Conclusion In a sample population of antenatal women who successfully reached the referral site during dry season, average time taken to travel from home to hospital was 48 minutes. In the wet season and for women in remote rural areas, this is likely to be higher. On foot, during an obstetric emergency, this may represent a significant delay. It is vital that maternal health interventions are designed to address this.

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