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Salford Royal NHS
NHS Foundation Trust
University Teaching Hospital

Audit of teenage pregnancy outcomes

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RCM conference 2009

Local Supervising Authorities of England

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Teenage pregnancy

- Teenage pregnancy team 2001
- Sure start plus-social, emotional, psychological support
- Improve parenting
- Return to education and employment

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- Dedicated midwife and obstetrician
- Focus on ‘at risk’ young parents
- Audit the outcomes for a pregnant teenage population
- All deliveries in 2007 who were aged 17 or under at delivery
- Data collection-patient database isoft, patient records, teenage pregnancy team database

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Risk factors

- More likely to smoke (Chan & Sullivan 2008)
- Less likely to breastfeed (Bolling et al (2007)
- Increased risk of anaemia (Mayhew 2005)
- Increased risk of urinary tract infection (Horowitz & Cohen 2007)
- Preterm labour (Jolly et al 2000)
- Low birth weight baby (DCSF/RCM2008) (Usta et al 2008)
- Late bookers (Jolly et al 2000)
- Hypertensive disorders (Lewis & Drife 2004)
- Intrapartum complications (Lewis & Drife 2004)

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Audit

- Gestation at booking
- Gestation at delivery
- Smoking
- Haemoglobin
- BMI
- Intrapartum events
- Birth weight
- Urinary tract infection

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Results

- Total of 67 under 17's births
- Gestation:

❖ > 37 wks 88%,

❖<37wks 10.5%,

❖<28 wks 1.5% (twins)

- 48% smoking at booking,
- 37% smoking at delivery (over 18's 17%)

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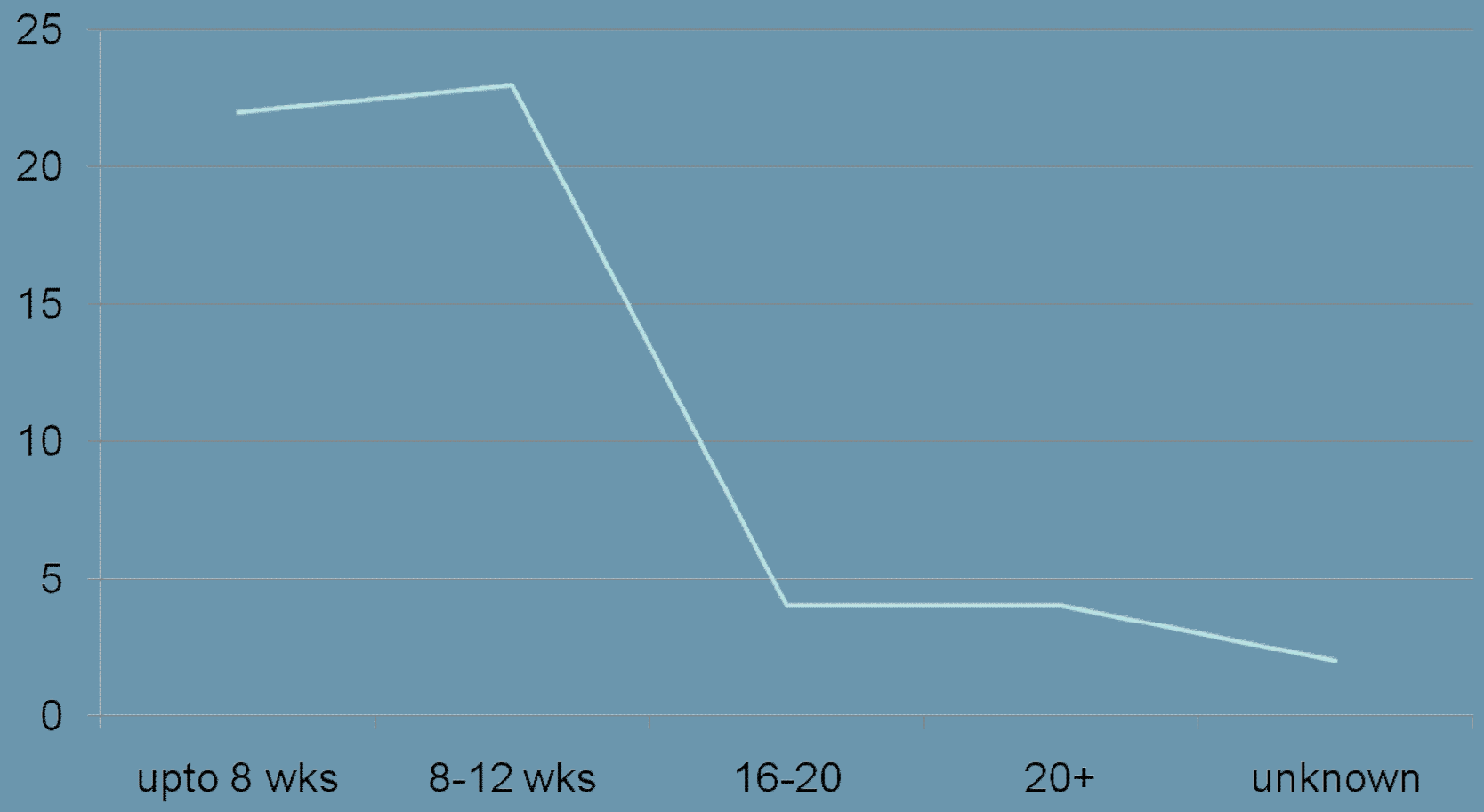
Gestation at booking



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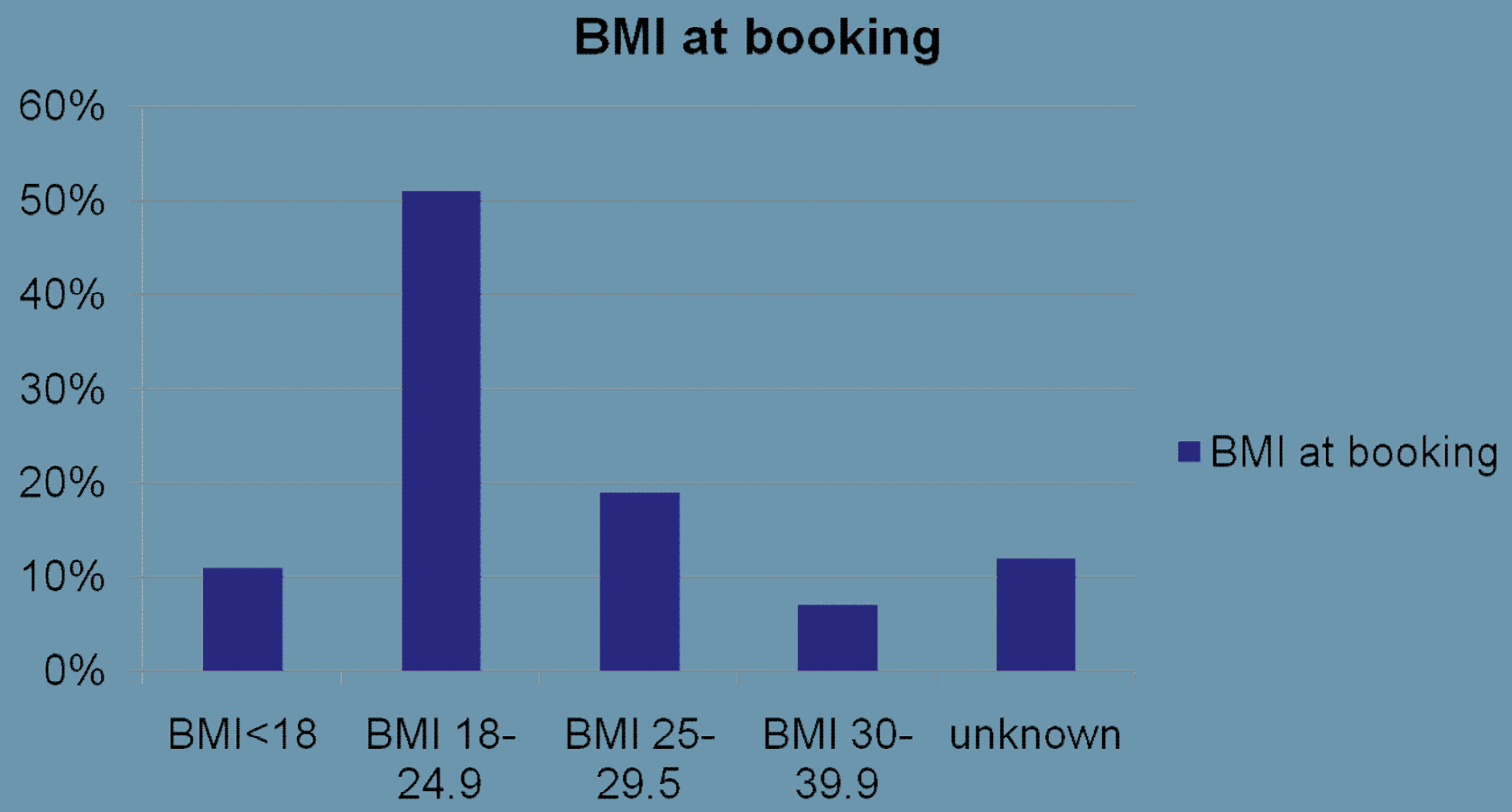

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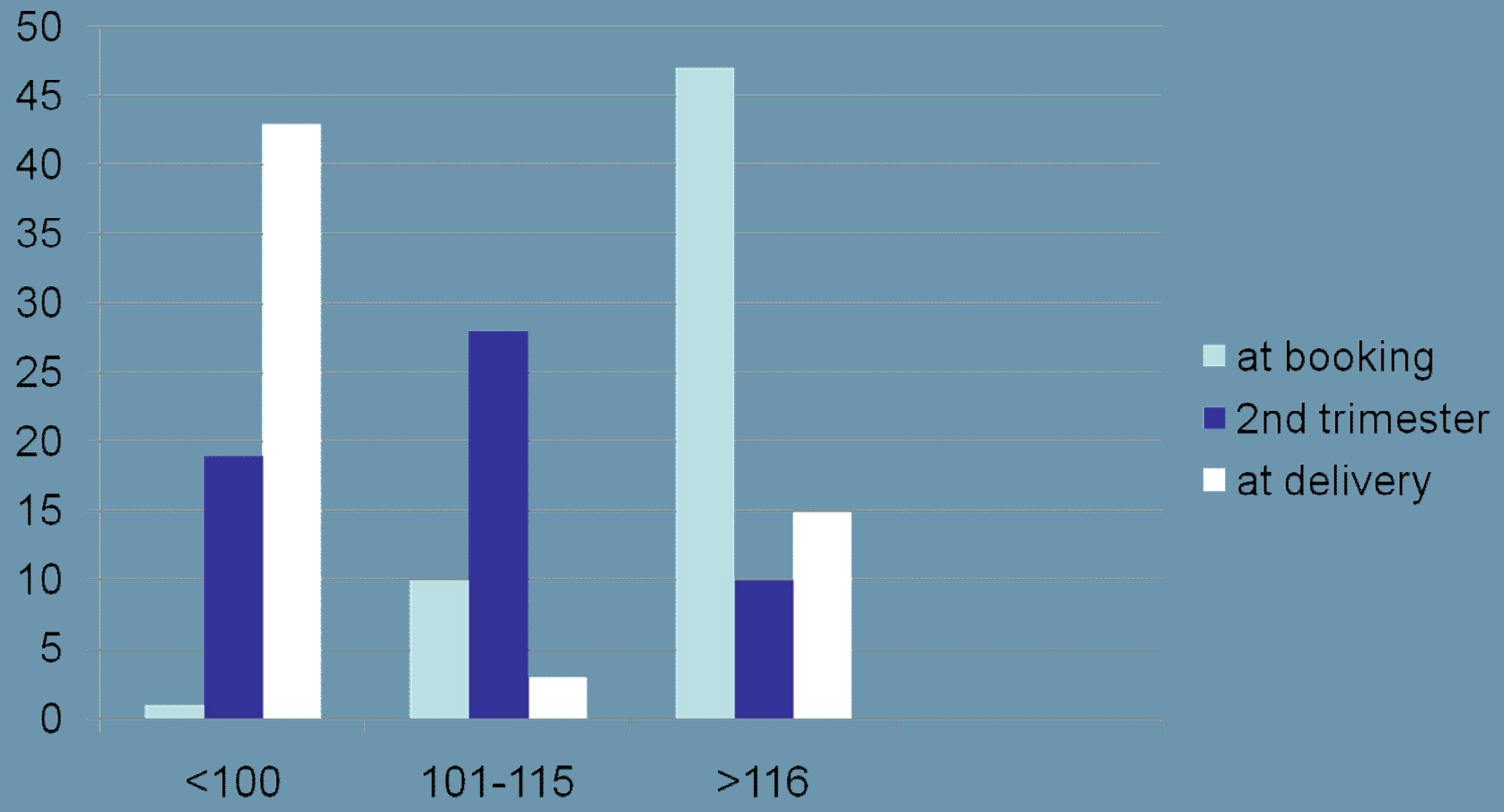
Anaemia



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Urinary tract infection

- 18% had UTI at some point in pregnancy.
- Grabe et al (2009)-37-57% schoolgirls develop UTI's
- Associated with sexual activity, immature/suppressed immune system, poor nutritional status, lower socio-economic group (Horowitz & Cohen 2007)

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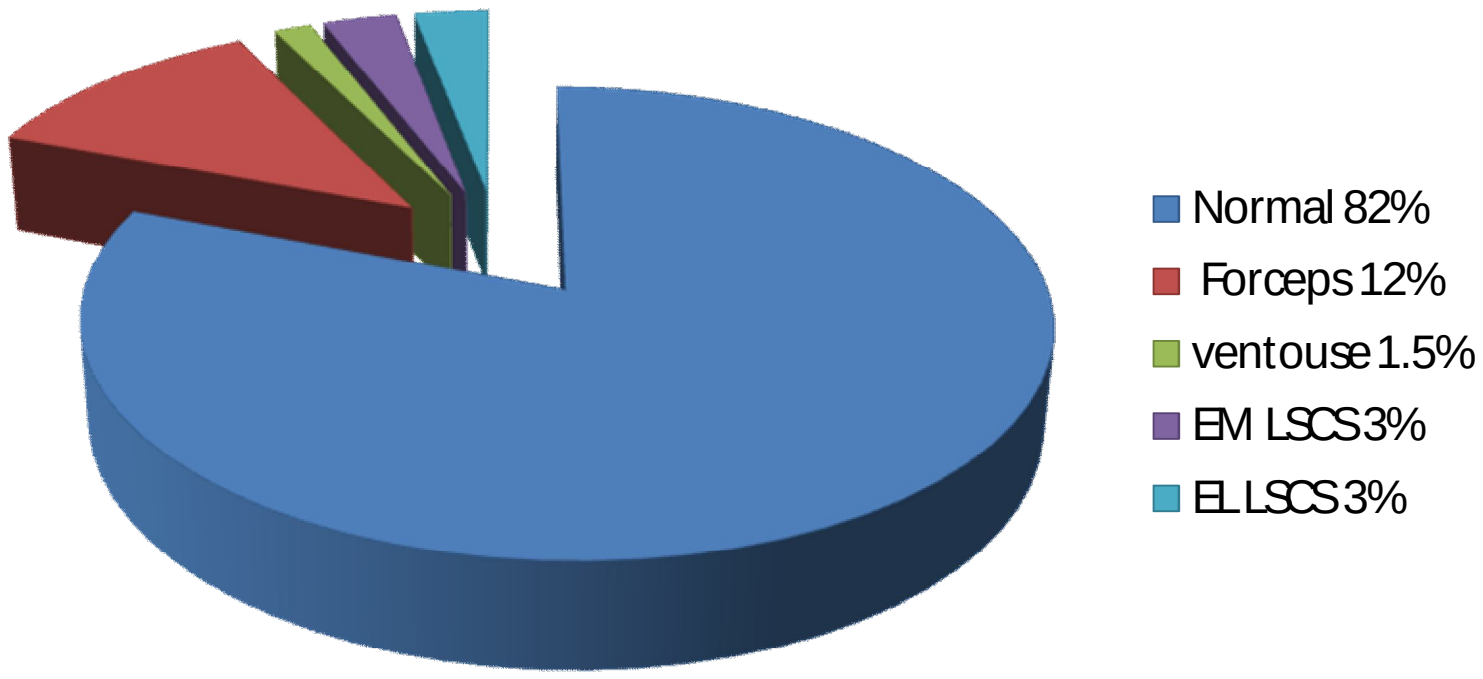
Type of delivery



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Intrapartum events

- Forceps-75% had epidurals,

  -25% BMI> 30
- EM LSCS-both had BMI>30, + undiagnosed breech
- All 6 PPH were following induction of labour

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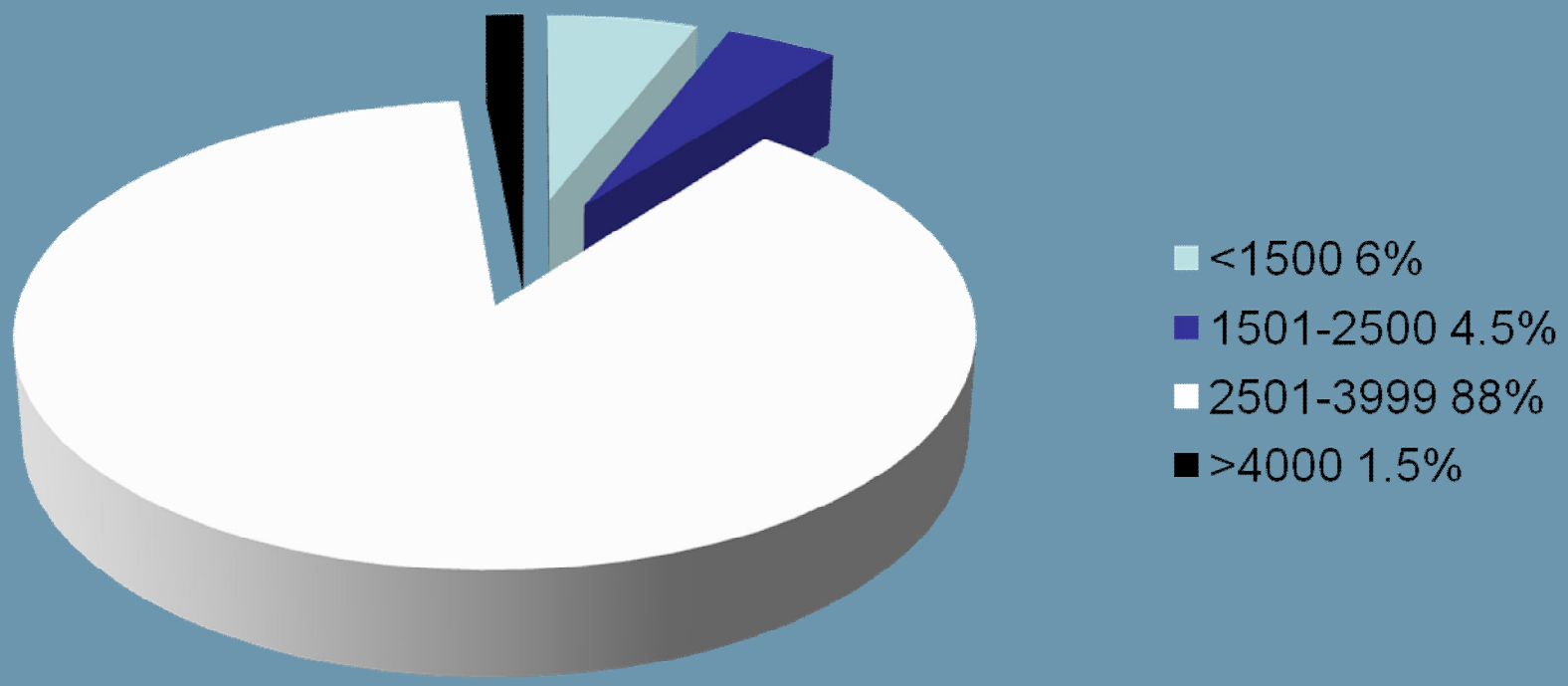
Birth weight



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Prematurity

- 8 preterm births:
- 3 smoked during pregnancy
- 2 Hb <100
- 1UTI
- 1 Pre-eclampsia
- 1 in-utero transfer

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Recommendations:

- Population at no greater obstetric risk based on age alone (Loto et al 2004)
- Midwifery led care, (Hatem et al 2008, DH 2009)
- Healthy lifestyle focus needed re Hb, Obesity, UTI
- Continue screening UTI as NICE (2008)
- Continue smoking cessation and breastfeeding promotion
- Induction of labour policy

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