Infants from morbidity or death requires additional investigation. An elevated 17-OHP level at birth confers protection to preterm babies with elevated 17-OHP levels as previously reported. An elevated 17-OHP level at birth is considered a necessary step in neonatal resuscitation and care at delivery. We studied 1154 consecutive cesarean section deliveries. The care at birth was according to the AAP Resuscitation Guidelines, except the neonates were randomized to mandatory aspiration of the secretions at delivery by suction catheter (S group) or clearing the secretions from the mouth when they are visible by gentle aspiration of the mouth (C group). There were noted the time to first breath, need for bag and mask ventilation, occurrence of respiratory distress, need for mechanical ventilation, blood gas values at delivery.

**Results**

25/577 of the neonates in the S group developed respiratory grunting after delivery compared with 42/577 neonates in the C group (p<0.001). The need of bag and mask ventilation at birth was similar between the groups (10/577 C; 11/577 S group). When stratified for gestational age (GA), 12/253 neonates in the S group with GA less than 38 weeks presented with respiratory distress and grunting after delivery compared with 35/260 in the C group (p<0.001).

**Conclusions**

Aspiration of the secretions at birth is a necessary step in the care at birth of the newborns born by cesarean section, especially if they are 38 weeks or less gestational age.

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**ELEVATED 17-HYDROXYPROGESTERONE [17-OHP] LEVELS: A FETOPLACENTAL MECHANISM TO PREVENT PRETERM BIRTH?**

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**Background and Aims**

Elevated 17-Hydroxyprogesterone [17-OHP] levels in preterm infants are often false positives. We theorized the elevation was related to preterm labor (PTL) and not related to maternal or fetal disease. We surmised that an elevated feto-placental 17-OHP is akin to obstetrical therapy with progesterone to prevent preterm birth.

**Methods**

Infants with congenital adrenal hyperplasia were excluded. Nucleated red blood cell count [nRBC] was a marker of chronic fetal hypoxia or severe preeclampsia and C-reactive protein [CRP] was an indicator of perinatal infection. Using an effect size of 0.5 with a two-tail test, an alpha of 0.05, and a power of 0.8, at least 66 infants were needed for this study.

**Results**

Fifty-three male and 47 female infants had a mean gestational age of 32.4 and 31.2 weeks, respectively. No mothers received therapy with progesterone for PTL; however, 84% of mothers had PTL. Pearson’s correlation showed lower birth weight (r=–0.65, p<0.001), gestational age (r=–0.64, p<0.001), and one minute APGAR scores (r=–0.21, p=0.04) were significantly associated with increased 17-OHP levels. There was no correlation between CRP or nRBC and 17-OHP levels. After an initial elevated 17-OHP, repeat testing was normal.

**Conclusions**

Intrapartum infection and preeclampsia did not correlate with elevated 17-OHP levels as previously reported. An elevated 17-OHP in preterm infants is associated with PTL and birth. Whether an elevated 17-OHP level at birth confers protection to preterm infants from morbidity or death requires additional investigation.

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**A STU Dy OF PROFESSIONALS’ OPINIONS OF HOME DELIVERIES: A CROSS SECTIONAL STUDY**

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**Background and Aims**

A recent Government policy drive is to increase home delivery rates. Data are lacking about whether this strategy is embraced by perinatal healthcare professionals. Our aim was to examine opinions regarding home deliveries held by consultant paediatricians, neonatologists, gynaecologists, obstetricians, GPs and midwives.

**Methods**

Cross-sectional survey of UK professionals in East Anglia. Likert scales ranging from 0–10 assessed professionals’ general experiences of and enthusiasm for home birth and support for the Government’s plan.

**Results**

52% of professionals responded, including 68% of Paediatricians. Paediatricians and Neonatologists generally reported negative experiences of home delivery and were considerably less enthusiastic regarding home deliveries than any other professionals.

Paediatricians generally held a negative outlook on home delivery [median 4, IQR 3–5] and were in opposition to the government’s plan [median 3, IQR 2–5], whilst midwives were more enthusiastic about home delivery than any other profession [median 9, IQR 8–10, p<0.0001] and were more likely to support the government plan to increase the rate of home deliveries [median 8.5, IQR 7–10, p<0.0001]. GP’s, obstetricians and gynaecologists tended to give more neutral or negative opinions towards home birth [GP median 5, IQR 3–7.5] ObGyn (median 5, IQR 2–7) and towards the government’s plan [GP median 5, IQR 2–6] ObGyn (median 5, IQR 2–5).

**Conclusions**

Negative experiences and opinions of perinatal healthcare professionals regarding home delivery may adversely affect its uptake by women and will need to be addressed if the Government’s plan to increase home delivery rates is to succeed.
Abstracts

- All babies transferred in
- Inclusion criteria: Admission X-ray done within 12 hrs

Results

- 148 babies were admitted for tertiary neonatal care of which 127 met inclusion criteria. Patients were stratified as < 1 kg, 1–2 kg and >2 kg.

Correctly positioned tubes were as follows:

- < 1 kg: 33% ETT, 81% NGT, 48% UAC
- 1–2 kg: 31% ETT, 100% NGT, 33% UAC
- >2 kg: 54% ETT, 100% NGT, 51% UAC

Conclusion

Infants less than 1 kg were at higher risk of suboptimally positioned tubes and lines.

Aims and objectives

To find out the current clinical practice in the UK in stabilising the preterm infants in the delivery suite.

Study Design and methods

Questionnaire based study carried out via internet tool (SurveyMonkey) followed by telephone interview from non-responders. Questionnaire completed by consultants, registrars or senior neonatal sisters (Band 6 and above).

Results

100% responses from all the 222 units providing neonatal care. 96% units (113 of 222 units) use plastic bags for thermoregulation in preterm infants although clinical practice varies from 27–32 weeks of gestation under what they use plastic bags.

56% units (123 of 222 units) provide prophylactic CPAP in preterm infants to prevent or treat RDS. Face mask with adjustable positive end expiratory pressure (PEEP) valve was the commonest (50%, 111 of 222 units) means of providing prophylactic CPAP. But for ventilated babies 70% units (154 of 222 units) provide PEEP routinely.

42% units (93 of 222 units) use start resuscitation of preterm infants in bended oxygen, 33% in air, and 17% use 100% oxygen. 64% units (143 of 222 units) use oxygen saturation monitor in the delivery suite while 28% don’t use it routinely.

Conclusion

Current clinical practice in stabilising preterm infants in the delivery suite varies significantly from unit to unit in the UK.

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### Abstract 1311 Figure 1

Graph of Position of Endotracheal Tube.

### Abstract 1311 Figure 2

Graphs of Position Of UAC, UVC, LongLine, NGT

### Conclusion

- Infants less than 1 kg were at higher risk of suboptimally positioned tubes and lines.
- Position prior to transfer and on admission must be ascertained to minimise complications.

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### 1313

**CAN PRE-PREGNANCY BODY MASS INDEX IN GESTATIONAL DIABETES PREDICT NEONATAL BIRTH WEIGHT?**

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**Background and Aim** Gestational Diabetes Mellitus (GDM) is the glucose intolerance detected during pregnancy. The most common neonatal complication of these mothers is macrosomic or large for gestational age (LGA) babies. We evaluated the pre-pregnancy body mass index (PP-BMI) and the effects of glycemic control on the frequency of neonatal complications and macrosomia in GDM pregnancies.

**Methods** 87 GDM pregnancies were retrospectively enrolled in the study and divided into two groups: Group I, PP-BMI<25.0 kg/m² (normal, n=29), and Group II, PP-BMI≥25 kg/m² (overweight, n=58). Carpenter-Couston criteria modified from Workshop-Conference on Gestational Diabetes were used for GDM diagnosis. Infants born from these mothers were also divided as appropriate for gestational age (AGA) and LGA.

**Results** There were no differences with respect to age, gestational age at admission, mean HbA1c levels, mode of delivery and perinatal mortality between groups. On the other hand, number of LGA infants were significantly higher in Group II [n=1 (3.4%) vs n=13 (22.4%); p=0.02]. There were no difference about neonatal complications between groups including: hypoglycemia, sepsis, polycythemia, respiratory distress and hospitalization during neonatal period.

**Conclusion** Good glycemic control in GDM patients was not seem to be enough in reducing the LGA babies. Overweight primary should be treated before pregnancy, and during pregnancy good glycemic control must be assured so that LGA babies and neonatal complications can be decreased.