**Conclusion** Tthe improvement of these indicators is attributed to the improvement the conditions of woman; following, screening and the taken in charge of the high risk pregnancies. As well as the improvment of the taken in charge of the newborns in work-room.

1304

## **NEWBORN LOW BIRTH WEIGHT: MOROCCAN DATA**

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**Objective** The overall objective of this work is to describe the prevalence of newborns with low birth weight in Rabat Souissi Maternity Hospital in 2010. The specific objective is to compare the population of preterm and small for gestational age, assess their immediate future and identify the causes.

**Methods** The study tok place at Rabat Souissi Maternity Hospital between January 1st 2010 and December 2010. Were enrolled, all newborns weighing < 2500 g. The main variables collected were gestational age, sex, route of extraction, Apgar at 5 min, the maternal age, parity, maternal disease history and immediate future of the newborn.

**Results** Of 14,808 live births registered during 2010, 1475 newborns had a birth weight less than 2500g or 9.96% of which 722 were small for gestational age, 728 were premature infants. Vaginal delivery was predominant in both populations. The average age of mothers was (28.22±6.83 vs 28.63±6.60) years (p = 0.89). The main etiologies encountered were the maternal genitourinary infections for prematurity (25.6%) while the main cause of low birth weight were gestational hypertension (11.7). As for becoming immediate mortality was about 11% in premature infants against 2% in small for gestational age. (p<0.001). Hospital transfers were in the range of 46.2%. The main indications were respiratory distress, infection, and perinatal asphyxia.

1305

## FULL TERM NEONATAL ADMISSIONS IN A REFERRAL HOSPITAL

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**Background and Aim** Full term neonates represent a significant proportion of neonatal addmisions. The aim of this study was to see the characteristics of this group in the largest neonatal unit in the capital and how these could be reduced to decrease the burden on the neonatal unit.

**Patients and Methods** All full term neonatal admissions to the nn unit in Al-Bashir h, 1/1/2011–30/6/2011 were included, A special questionnare was filled which included the various characters of the group, sex distribution, birth weight, reason for admission, duration of hospitalisation and outcome.

**Results** During this period a total of 855 FTNN were admitted representing 47.6% of total admissions, 80% were admitted on day one, 60% were normal vaginal delivery. 90% were in born, respiratory distress was the main cause of admission, 32%, IUGR14.7%, NNJ11.6%,IODM8%, ASPHYXIA 7%,50% were hospitalised for 1–3 days, mortality rate was 5%,62% of which were due to asphyxia, 30% were due to congenital malformations.

**Conclusion** FTNN represent a significant proportion of nn admissions the main reason for admission is respiratory distress, and the main reason for mortality is asphyxia, 50% are hospitalised for 3 or less days. a good nursery with intermediate care would decrease the load on the neonatal unit.

1306

## PREDUCTAL TRANSCUTANEOUS OXYGEN SATURATION AT BIRTH AFTER ELECTIVE CAESAREAN SECTION

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**Background** The 2010 Neonatal Resuscitation Guidelines recommend preductal transcutaneous oxygen saturation (SpO $_2$ ) monitoring at birth in preterm and/or non reactive and/or hypotonic newborns. Previous studies have assessed SpO $_2$  showing that SpO $_2$  immediately after birth is higher in newborns by Vaginal Delivery (VD) vs. Caesarean Section (CS). This difference has never been investigated in newborns by Emergency CS (presence of labour) vs. Elective CS (absence of labour).

 $\mathbf{Objective}$  To compare  $\mathsf{SpO}_2$  in newborns by Emergency CS vs. Elective CS in the first minutes of life.

**Methods** The study included healthy newborns at term by Emergency CS, by Elective CS and by VD as control group. Infants receiving supplemental  $\rm O_2$  or assisted ventilation were excluded.  $\rm SpO_2$  was recorded for the first 10 minutes of life using a Masimo Radical-7 pulse oximeter probe (Masimo, Irvine, CA) applied to the right hand.

**Results** We studied 24 newborns by Emergency CS, 57 by Elective CS and 47 by VD. The  $SpO_2$  gradually improved during the first 10 minutes of life in all groups (p per trend < 0,0001). The  $SpO_2$  were similar in the tenth minute of life in all the 3 groups, but it was always higher in newborns by Emergency CS as well as by VD than in those by Elective CS from minute one to minute nine (p<0.05).

**Conclusions**  $SpO_2$  in newborns by Emergency CS in the first minutes of life is higher than in those born by Elective CS as well as in newborns by VD vs. Elective CS.

1307

## HIDDEN TOXICITY IN THE NICU: PHTHALATE EXPOSURE OF VERY LOW BIRTH WEIGHT INFANTS

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**Aim** To determine the exposure of VLBW infants to phthalates during their stay in the neonatal intensive care unit.

**Method** Preterm infants (< 32wks and/or < 1500g), who stayed in the NICU >2 wks and had at least one invasive procedure were included. Urine samples were collected in the first 3 days and every 2 weeks until discharge. Phthalate contents of the medical devices, urinary excretion of phthalate metabolites. (diethylhexylphthalate-DEHP, monoethylhexylphthalate-MEHP, monoethyloxohexylphthalate-MEOHP, monoethylhydroxyhexylphthalate-MEHHP) and their relation to exposure intensity, gestational age, birthweight and postnatal age were analysed.

Result Mean gestational age and birth weight of the patients (n=36) were 28.9±1.5wks and 1024±262g. DEHP was detected in umbilical catheters, intubation tubes, nasogastric tubes and nasal cannulas. Nasal cannulas had the highest content (201.7mg/0.5g). MEHHP was the most frequently detected metabolite (81.4%) in the urine samples (n=151) and its levels increased during the first 4 weeks (mean concentration: 319.5 ng/ml), were higher in patients who had continuing need of invasive procedures after 2 wks (255.32 ng/ml vs 65.85 ng/ml), were significantly higher in the first urine samples of patients < 1000g compared to those ≥1000g (63.17±93.79 ng/ml vs 10.93±22.98 ng/ml, p=0.001).

**Conclusion** Phthalate metabolites could be detected in the urine samples of preterm infants very early after admission to the NICU. The levels were higher in the first weeks of intensive care when exposure intensity was highest and in babies < 1000g. Monoethylhydroxyhexylphthalate-MEHHP may be the most suitable biomarker of phthalate exposure.