duration of placement was 6±5 days. All the lines were inserted with maximum sterile barrier and 86% were accessed once per day under strict sterile protocol. 35% lines were correctly placed, 64% required manipulation and post manipulation catheter tip was confirmed in 64% cases. 58% of the lines completed treatment. Line occlusion was the most common complication (17%), which significantly reduced the duration of line placement by 3.3 days (p=0.02). The infection rate was 13 per 1000 catheter days.

Conclusion There is a high rate of PICC associated complications with occlusion of lines accounting for most of these. Our NICU is reviewing whether thrombolytic agents should be considered routinely for line occlusion. Attention has been directed to ensure that line position is reconfirmed by X-ray after manipulation. Our infection rate still remains high when compared to rates quoted internationally.

822 DESCRIBING THE USE OF NEONATAL THERAPEUTIC INTERVENTION SCORING SYSTEM IN A UNIVERSITY HOSPITAL IN BRAZIL - A PILOT STUDY

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Background and Aims The Neonatal Therapeutic Intervention Scoring System (NTISS) is an index of intensity of use of technologies with significant association to mortality risk. We intended to analyze this score use in the NICU of a university hospital, correlating with mortality.

Method It was a prospective cohort including 129 newborns admitted to NICU during a 6-week-period. Patients were followed for up to 31 days, with daily calculation of NTISS. Demographic data were all obtained by review of medical records, under informed consent. For statistical analysis It was used the x² and Mann-Whitney tests.

Results The most frequent cause of hospitalization was neonatal jaundice (35%), followed by early respiratory dysfunction (16%) and prematurity (13%), the mean hospital stay was 10 days. The median NTISS was 6 on the first day and remained stable in the next days. Only 4 patients died during the study - with a first day NTISS median of 28 vs 6 (p = 0.002). This behavior continued until the seventh day and SNAPPEII score also showed this kind of tendency. Patients with extreme prematurity, congenital malformation or early respiratory dysfunction that remained hospitalized until 31 days exhibited NTISS values greater than the median until the 27th day of admission.

Conclusion The NTISS, at least in the first week of hospitalization, was higher in patients who die, as a predictor of mortality in this sample. The NTISS remained high under conditions known to be severe for a long period of hospitalization, which may affect heath costs.

823 CLINICAL PROFILE OF PATIENTS AND PREDICTIVE VALUE OF PIM 2 SCORE AT PAEDIATRIC INTENSIVE CARE UNIT IN WESTERN INDIA

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Background and Aims PIM2 score gives the risk score for specific clinical disease condition. We studied the profile of patients admitted in PICU and validated PIM2 score in our tertiary care setting.

Methods Detailed evaluation of patients admitted to the PICU between January 2010 and December 2011 was done for presenting signs and symptoms, management by trauma team and pediatric team and the appropriateness of the interventions were recorded till the child had spent 24 hours in the hospital. Outcomes were death, discharge and DAMA. The PIM2 scoring was done at the time of admission. Data was analyzed by Logistic regression and ROC curve analysis.

Results Of 742 consecutive admissions (295 females and 447 males, 39.08% infants), 35.84% patients were mechanically ventilated and mortality was 7%. Significant anemia (27.2%), pneumonia (19.5%), meningitis/encephalitis (17.1%), septicemia and septicemic shock (29.5%) were seen. 25.6% patients admitted in PICU took discharge against medical advice due to unaffordable medical care. Sensitivity of PIM2 score was 65.7%, and specificity was 70.6% at cut-off point of 1.9. Predictive capability as assessed by calculating the area under ROC curve was 0.724 (95% CI 0.69 to 0.76). Logistic Regression analysis revealed that age, shock, Protein energy malnutrition, multiple organ dysfunction syndrome, meningitis/encephalitis, adherence to guidelines, ventilatory support requirement are significant predictors of Mortality.

Conclusions Infectious diseases were the most common cause of PICU admissions and mortality. PIM2 scoring did not correlate well with outcome suggesting need of recalibration. Following published emergency guidelines was associated with significantly better outcome.

824 PHYSIOTHERAPY TECHNIQUES FOR PLEURAL EFFUSIONS IN A PEDIATRIC INTENSIVE CARE UNIT (PICU): WHICH TECHNIQUE IS THE MOST EFFICIENT?

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Aims To compare different chest physiotherapy techniques in pediatric patient with infectious pleural effusion and thorax drain admitted in PICU.

Methods We conducted a monocentric, randomized, assessor-blind trial. The patients were randomized in three groups: those who have received intrapulmonary percussive ventilation (IPV), those who have received autogene drainage (AD) and were compared to the control group (CG) which no physiotherapy was administered. Only physiotherapists were aware of the allocation group of the patients.

Results 24 patients were included (IPV: 7, AD:8, CG: 9). All patients had a infectious pleural effusion and thorax drainage. The occurrence of lung-necrosis, empyema, drained pleural fluid per body area, need of fibroscopy and Video assisted thoracoscopy (VATS), total length of stay in PICU and in hospital, days of oxygenotherapy needed and the evolution of CRP were compared in the three groups. No differences on the occurrence of empyema, the need of VATS, length of hospital stay in hospital and in PICU stay, the number of oxygenotherapy days and the CRP evolution. But there were less occurrence of lung-necrosis, more drained pleural fluid and less need of fibroscopy in the IPV group.

Conclusions These preliminary results show that the different chest physiotherapy has not been effective in reducing hospital stay, length of oxygenotherapy in patients with pleural effusion and thorax drain when compared to the CG. In the IPV group less complications has occurred.

825 HYPOALBUMINEMIA IS INDEPENDENTLY ASSOCIATED WITH MORTALITY AND MORTALITY IN CRITICALLY ILL CHILDREN

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