All those debriefing have been trained in the correct techniques to ensure the participants and observers are allowed to reveal the learning points and sessions are all videoed and used during the debrief as appropriate, to emphasize particularly areas for development or highlight good practice.

**Results** Retrieval team members were initially apprehensive of this new approach to retrieval training but have found it useful giving positive feedback and encouraging colleagues to attend.

**Conclusions** We will continue to use this approach to provide well prepared teams who are clinically competent and aware of the human factors in every retrieval situation.

**1907 POST-TRAUMATIC STRESS DISORDER AFTER DISCHARGE IN PEDIATRIC INTENSIVE CARE UNIT (PICU)**

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Post-Traumatic Stress Disorder (PTSD) develops after exposure to an extremely traumatic event such as death, injury, or physical threat to self, family member, or other significant person.

Aim To investigate the occurrence of PTSD (21%) symptoms in parents well after their child was discharged from the PICU.

Methods 

- Symptoms of PTSD include: a. reexperiencing the traumatic event through recurrent, intrusive recollections, repetitive play, or disturbing dreams; b. avoidance of associations with the event through restricted affect and feelings of detachment; and c. hyperarousal symptoms such as sleep difficulties, poor concentration, irritability, aggression, and physiological reactivity to trauma-related events.

In addition to general hyperarousal symptoms, children may complain of stomachaches and headaches.

Findings indicate that the experience is, indeed, stressful and that children may experience fear phenomena, regression, sadness, separation anxiety, withdrawal, sleep disturbances, and aggressive behaviors. There was a positive correlation between PTSD symptoms in parents and

1. PTSD symptoms in the child,
2. length of admission and
3. perceived threat of illness to the child’s life.

In PICU admissions cause greater disruption to a child’s life, with longer admissions, greater time off school and more paediatric out-patient contacts and hospital re-admissions in the 6–12 months after discharge.

**1908 MANAGEMENT OF PULMONARY HYPERTENSION AFTER PEDIATRIC CARDIAC SURGERY**

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Introduction Treatment of pulmonary hypertension in children has significantly improved over the years. The Beatrix Children’s Hospital serves as the nationwide referral center for these children.

Aim The provide insight into early recognition and management of pulmonary hypertension after cardiac surgery.

Methods We have developed nursing protocols describing how to monitor and interpret haemodynamic parameters, and how to interpret laboratory and roentgenologic investigations. Special attention is paid towards the clinical appearance of the patient. Next to this, supportive tools such as nitric oxide and high-frequency oscillatory ventilation (HFOV) are inevitable.

Results A protocolized approach allows us to recognize complications after paediatric cardiac surgery early during PICU stay. As a consequence, early management is possible.

Conclusions Nitric oxide and HFOV are used as a supportive intervention for managing pulmonary hypertension.

**1909 THE EFFECTS OF TEACHING ON THE KNOWLEDGE OF MOTHER TO CARING FOR INFANT & CHILDREN AT HOME, FOLLOWING CARDIAC SURGERY**

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Congenital heart diseases, are chronic illness in infants & children. This research is a quasi-experimental study investigating the impact of education on home care knowledge of sixty mothers with children undergoing heart surgery. Data collection consisted of a pretest, posttest and retentional questionnaire that contain of demographic data of mother & her baby and multiple choice test related to heart diseases, surgical treatment, complication and home care of babies. The mothers gained a positive mark for true answer, a negative mark for a false answer and a zero mark for an unknown answer. Data collection was conducted in before admission of babies, one week and one month after discharge. As for the case group teaching programs consisted of educational vido films and a face to face teaching and educational booklet. For the data analysis a spss package & descriptive statistic were employed. To identify the level of mother’s knowledge, mother’s mark were classified as, good-moderate and weak. The result obtained showed that at pretest the subjects in the case group did not have a good level. As for the control group only 6.7% were evaluated as good level at pretest. At posttest and retentional phases scores increased to 100 and 96.7% respectively for the case group. Regarding the control group 6.7% were evaluated as good and dropped to zero at the retentional stage. However, comparison of the mean score at the posttest and retentional in both groups, showed a a decrease of knowledge overtime. In conclusion the results of the present study significantly supports the impact of education on improving the knowledge of mothers on providing a better home care for children undergoing heart surgery.

**1910 NURSING MANAGEMENT AND CARE OF THE CHILDREN ON MECHANICAL CIRCULATORY SUPPORT**

doi:10.1136/archdischild-2012-302724.1910

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Abstracts

Introduction Treatment of pulmonary hypertension in children has significantly improved over the years. The Beatrix Children’s Hospital serves as the nationwide referral center for these children.

Aim The provide insight into early recognition and management of pulmonary hypertension after cardiac surgery.

Methods We have developed nursing protocols describing how to monitor and interpret haemodynamic parameters, and how to interpret laboratory and roentgenologic investigations. Special attention is paid towards the clinical appearance of the patient. Next to this, supportive tools such as nitric oxide and high-frequency oscillatory ventilation (HFOV) are inevitable.

Results A protocolized approach allows us to recognize complications after paediatric cardiac surgery early during PICU stay. As a consequence, early management is possible.

Conclusions Nitric oxide and HFOV are used as a supportive intervention for managing pulmonary hypertension.
management of pediatric patients supported by different devises at the cardiology department at the Bambino Gesù Children’s Hospital.

Methods Within the last 5 years, the MCS have been used in children with severe circulatory failure resistant to pharmacological therapy. ECMO was used in 83 pediatric patients (aged 3.4±6.0 years), Ventricular assist devices in 27, Berlin Heart EXCOR Pediatric was implanted in 23 children (aged 5.5±6.8 years), Heart Mate II in two children (13 ages), and Jarvik 2000 in 3 adolescents. These were patients with cardiomyopathy, fulminant myocarditis, end-stage congenital cardiac defects, and acute heart failure after congenital heart surgery.

Results Nursing intensive care management is very complex and includes infection and anticoagulation monitoring, wound care: surgical site and cannulas/pedestal medication, nutritional support, pain management, psychological support, mobilization and the daily nursing management of the children.

Conclusions Our experience shows that management of pediatric patients on MCS requires a highly specialized pediatric team. The goal of a nurse caring for a child on MCS is to be an active participant of all aspects of the patient’s care including a deep understanding of the patient’s physiology, of the indication for mechanical support, and of the most important complication that can occur.