63% of the UK&I centres a pain tool is used but there was wide variation of what tools were used across centres. In contrast, 100% of the NL centres use a pain tool, in 75% the CONFORT Behavioural Scale and Visual Analogue scale or Numeric Rating Scale was used. Assessment tools for the cognitively impaired children were used in 57% of the UK&I centres, however not in NL centres.

Sedation tools were used in 66% and 62%, respectively (UK&I and NL) centres. The most common tool is the CONFORT scale.

Regarding drug withdrawal, 71% of UK&I centres did not have specific guidelines. However, 50% of the NL centres have specific guidelines and 75% of centres used a withdrawal tool.

Conclusions Although there are similarities between UK&I and NL in pain, sedation and withdrawal assessment and management, there is more focus on sedation and withdrawal in the NL compared to that of a stronger pain focus in the UK&I.

92 VACCINATION OF TURKISH INFANTS, CHILDREN & ADOLESCENTS: PRACTICE BASED APPROACH

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Infection diseases are cause of serious morbidity and mortality in children and adults. Immunization is the most cost-effective interventions for child survival and well being recommended by World Health Organization (WHO). The “Expanded Programme on Immunization” (EPI) was established by WHO in 1974. Global Immunization Vision Strategy (GIVS) was developed by UNICEF and WHO in 2005 which aims to decrease morbidity and mortality from preventable diseases by immunization programmes.

Immunization rates increased over 90% in Turkey by national vaccination Schedule in recent years. Vaccines in National vaccination Schedule are practiced free in the Family Health Centers by Ministry of Health for all children in Turkey.

Immunization for children varies and regulated depending on child’s physical and functional condition. The true way and middle angle of the vaccine injection is very important. In the literature it is recommended that update the knowledge of the nurses about vaccine administration is effect to decrease side effects of vaccines.

The Ministry of Health’s one of the objective of “Healthy Society 2010” is increase immunization rates over 90% for adolescents. Adolescent Health Centers evaluate immunization histories of all adolescents and recommend vaccines for missed vaccinated adolescents. Human Papilloma Virus (HPV) vaccine is recommended for adolescents to protect them from cervical cancers. Because of HPV vaccine doesn’t placed in the National Childhood Vaccination Schedule. Hepatitis B, combined diphtheria, tetanus, aselular pertussis, measles, mumps and rubella, varicella, meningococcal vaccine, and HPV vaccine application is recommended for 11–18 years of age in the routine vaccination Schedule all adolescents.

94 IMMUNOMODULATION IN SEPSIS: MORE HARM THAN GOOD?

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The systemic inflammatory response that typifies septic shock can induce widespread tissue injury, endothelial dysfunction and lethality. Interventions that disrupt the systemic inflammatory response have been the central treatment strategy for septic shock for decades. In experimental models, inhibitors of generalized inflammation are of clear survival benefit when the inducing stimulus is LPS or other bacterial toxins. However, the response to inhibitors of inflammation in actual infection models such as pneumonia, peritonitis or soft tissue infections generate variable results with improvement in some animal models and harm in others. Intrinsic counter regulatory mechanisms that accompany systemic inflammation can induce a prolonged phase of relative immune suppression. Attempts to restore immune function by immunoadjuvants have become a potential therapy for sepsis. Genomic evidence indicates that activation of innate immunity and depression of adaptive immunity occurs simultaneously in the very early phases of septic shock. The magnitude of the change from resting state is the most predictive outcome rather than specific patterns of immune dysfunction. Non-resolving information poses a real challenge from a therapeutic perspective in patients with septic shock. A new generation of anti-inflammatory agents and anticoagulants are now in clinical development along with a variety of immunostimulants that promote adaptive immune function and inhibitors of negative regulators of inflammation such as programed cell death (PD-1) or B and T lymphocyte attenuator. These interventions are in clinical trials, and the results will determine the direction in which experimental therapeutics take in the near future in the management of septic shock.