

Pediatrics & Nursing 2019: Surgical safety practices in pediatric surgery operating room in a tertiary care hospital: role of the scrub nurse - Sharmistha Banerjee - All India Institute of Medical Sciences, India

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Aim of the study:

To evaluate the outcome of surgical safety practices at Pediatric Surgery Operating Room (OR)

Methods:

Study of OR records from 01 Jan 2005 to 31 Dec 2016(12 years), along with standard operating procedures(SOP) of surgical safety techniques was done to look for any adverse incidents that occurred with respect to patient identification, site and side of surgery, transfusion mismatch, sponge and needle counts. The protocols being followed in addition to the Surgical safety checklist of WHO 2007 were analyzed.

Result:

24604 surgeries (21948 routine, 2656 emergency) were performed during the study period. Routine surgeries were performed in a dedicated OR. Surgical safety protocols had been laid down in the OR in 1970, which. The WHO surgical safety checklist was incorporated in 2009. Patient identity, site and side of proposed surgery were confirmed during pre-anesthetic check, preoperatively in the ward, and by the scrub nurse, surgeon and anesthetist before the surgery. Request for blood products was accepted at the blood bank only after verification of the signatures on the blood sample vial. Sponge and needle counts before and after the surgery were done by two nurses separately. There were no instances of wrong patient identification, side or site of surgery or transfusion mismatch. Gauze counting mismatch before wound closure occurred 40 times, which was always retrieved on searching, though this had delayed wound closure by 2-56 minutes. Accidental breakage of needles occurred 9 times, located by visual inspection 6 times and located with 'C' arm guidance before retrieval on 3 instances.

Pediatrics and Pediatrics Surgery gathering adds to the chances to decide advance procedures, research, and

improvements in the medicinal services field of Pediatrics. Everywhere throughout the world these new strategies and propelled methods will be utilized to guarantee the health of pediatrics and kids. Pediatrics and Pediatrics health is a perfect stage to spread the knowledge of innovative procedures and novel research in Pediatrics and Pediatric Healthcare. Pediatrics is a versatile meeting that offers expert diagnosis and medications for a wide range of diseases in Pediatrics, Neonates and Adolescents alongside offering master advices for maternal consideration. With this Annual gathering on Pediatrics, clever thoughts and researches will come up with the discussions at the meeting and that will be a boon to the kids experiencing various kinds of disorders. This International Pediatric Conference furthermore useful as the dynamic collaboration of young researchers as we are encouraging Poster Award Competition and Young Research Forum at this gathering.

As indicated by reviews, in Berlin, during 2011-2017 (approximately), 79 new-born children passed on before celebrating their first birthday celebration, a baby death rate of 7.5 per 1,500 live births. In Berlin in 2014, the rate of perinatal mortality was 5.6 per 1,450 live births and foetal deaths which have achieved 7.5 per 1,450 new-born child births constantly 2014-2016. Mirroring this basic Pediatrics 2019 means to teach Pediatricians, Pediatrics specialist, neonatologists, and adolescents to accomplish the objective of decreasing baby death rate.

According to the published report of the European Commission, it was concluded that the development of Pediatrics has become an integral part of the overall development of medicinal products in the drug industries of the European Union. Around 300-400 clinical trials are conducted every year which includes clinical trials in children too. Pediatric healthcare products and services include medical care of children, adolescents and infants. Europe is considered as the

second largest market of pediatrics healthcare products and services. The growth is mainly attributed to increasing use of pediatrics and by European people.

The global Pediatric Healthcare market is valued at 119700 million US\$ in 2017 and will reach 159600 million US\$ by the end of 2025, growing at a CAGR of 3.7% during 2018-2025. The growing demand of treatment options for chronic illness makes the pediatrics market lucrative to invest and a deeper analysis of the various departments, market trends, drivers, restrains, and opportunities, sales forecast and competitive landscapes gives us a better scenario of the market.

All over the world, parents are becoming more conscious about the health of their children. As a result, globally the pediatrics market is growing at a significant pace with companies scrambling to get a significant share of the market.

Pediatric immunizations fill in as a defensive shield for newborn children, kids and youths (age extending from 0-18 years) against different deadly ailments, for example, flu, diphtheria, hepatitis, meningococcal and pneumococcal sicknesses and so forth. The worldwide pediatric immunization showcase was esteemed at USD 24 Billion of every 2015 and is foreseen to display a strong compound yearly development rate (CAGR) of 10.6% over the estimate time frame. Locally, the worldwide pediatric immunization showcase is portioned into North America, Latin America, Western and Eastern Europe, Asia-Pacific and Rest of World. Asia-Pacific is anticipated to see the most elevated development rate in pediatric antibodies showcase in coming 5-6 years.

Extending government and private spending on improvement of pediatric and different antibodies is a central point which is accepted to cultivate the development of worldwide pediatric market in coming 5-6 years. In any case, restricted or no entrance to social insurance benefits in creating/immature nations, low medicinal services spending, and lower pediatric immunization scope and so forth are a portion of the difficulties which may hamper the development of worldwide pediatric antibodies showcase in future.

The global pediatric vaccines market size was estimated at USD 22.4 billion in the year of 2016. Increase in government and non-government funding for development of novel vaccines, along with initiatives for raising awareness about immunization, is likely to have a positive impact on growth market.

Conclusion:

Surgical safety protocols involving manual checks at multiple levels has minimized human error and ensured patient safety in the OR. This is in addition to the WHO surgical safety checklist. Retaining the original protocols helped to avoid any mishap due to non-familiarity with the new Check list.