

Birth Trauma With Orthopaedic Related Injury: Incidence, Risk Factors And Prognosis In A Tertiary-Care Hospital In Pahang

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Purpose: To study the incidence, and risk factors for birth trauma in a tertiary center in Pahang in year 2018, and to look at the prognosis of patients with birth trauma

Material and Methods: this is a prospective study, all referral from obstetric wards and paediatric neonatology ward, related to birth trauma were documented. All were treated conservatively and followed upon discharge.

Result and discussion: total of 49 case of birth related trauma from all type of delivery, including vaginal, vacuum assisted, forcep and lower segment cesarean section in 2018 in Hospital Sultan haji Ahmad Shah Temerloh. Incidence of birth brachial plexus injury are 0.003 (0.3%) , Clavicle fracture 0.0025(0.25%). Long bone fracture during delivery 0.005(0.05). Only 1 (4.7%) of clavicle fracture are diagnosed with genetic abnormality (osteogenesis imperfecta). 1 humerus fracture noted to have Trisomy 21. Upon follow up, all resolved within 6-12 weeks. All long bone fracture united, 1 with severe angulation(35' ap and 48' lateral) however noted good hip and knee function and currently still under follow up. 1 femur fracture with underlying achondroplasia develop contralateral femur fracture on follow up.

Conclusion In conclusion, almost all orthopedic related birth injury can be conservatively treated and have good outcome. Brachial plexus injury and clavicle fracture do happens in normal and uncomplicated delivery, however need for further and more detail study to look at other variables.

Reference

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