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Spine osteotomy in deformity

Spinal osteotomy is a surgical procedure usually performed to treat spinal deformity. Spinal osteotomies are often used to achieve spinal balance, stability and correct spinal alignment. Bone is cut in part of the vertebral segment and then removed to realign the spine in proper positioning. Spinal deformity correction surgery with osteotomy is an option when nonsurgical treatments fail to relieve pain or symptoms. There are a number of different types of osteotomy techniques. The specific osteotomy used in surgery depends on the location of the spinal deformity

and the amount of correction needed. As part of a spinal realignment procedure, spinal hardware in the form of rods and screws may be used to hold the spine in place while the bones heal. Several osteotomies are known including: Smith Peterson Osteotomy, Ponte osteotomy, Pedicle Subtraction Osteotomy and vertebral column resection. Each had prerequisites, indications and complication, all need special surgical skills and instruments to keep the patient safe and avoid complications.

Biography

Mohammad Alfawareh did his Medical Degree (MBBS) in Jordan University Medical School Amman, Jordan. He is also Consultant orthopedic & spine surgeon, Spine department, NNI, KFMC, Saudi Arabia. He has also been a editorial board member of Orthopedic and Rheumatology Journal. He has membership in many societies like Saudi Arabian Orthopedic Society, AO Spine North America, Jordanian Orthopedic Society, association for Orthopedic Surgeons and many more membership he holds. His current research is on Definition for the open-spine surgery simulator, combined project with University of Montreal, Montreal Canada, aim to create and design spine simulator that can be used to train junior surgeon about spine surgery; MAGEC Rods Promising Technology but can lead to Catastrophic Failure, case report, submitted to Spine Journal; Is decompression necessary for thoracolumbar burst fractures with retracted fragment in the canal in neurologically intact patients, treated by minimal invasive spine surgery?, submitted to Journal of Spine Disorders Techniques. He holds many research experience like-Combination of elective preoperative vertebral artery stenting with O arm assisted navigation in cervical spine tumor excision; In Thoracolumbar fractures treated by MISS; Pseudotail, scoliosis and polysyndactyly and many more

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