

IMSACON 2008, Dubai



ABSTRACTS of IMSACON 2008, Dubai

ORTHOPAEDICS

Surgery for TB Spine. Aziz, A., Pakistan

Tuberculosis is the world's leading cause of death, from a single infectious disease with two million deaths in 1990. It is most endemic, chronic infection, which paralyzes the society when it affects the spine due to its resultant neurological deficit. Despite the adequate control of pulmonary tuberculosis, the incidence of musculoskeletal tuberculosis is increasing. Tuberculous spondylitis being endemic in underdeveloped countries including Pakistan has considerable socioeconomic and orthopaedic concern. In spite of all the advances regarding diagnosis, treatment and total control of many diseases, this slow but grave disease still affects considerable number of cases and makes them disabled and even paralyzed. Being a tertiary care center, Ghurki Trust Hospital entertains more than 100 patients of T.B Spine per year who require operative treatment. In the last 30 months we have performed more than 300 Anterior Decompressions of spine and more than 80% of them were for T.B Spine. Patient selection, indications of surgery, surgical procedures and follow-up of patients with T.B Spine will be discussed in detail.

Controversies and Newer Advances in Fractures of the Scaphoid.

Kotwal, P. P. & Gupta, V., India

The Scaphoid is the most commonly fractured bone, the second commonest fracture in wrist injuries after fracture distal radius. The Scaphoid bone is one of the eight carpals bones in the wrist and occupies an important position in the proximal row. It plays a key role in the kinematics of the wrist joint, yet its precarious blood supply makes it vulnerable for the fractures to go into nonunion. Although a plethora of methods are available for the treatment of fracture of the Scaphoid varying from cast application to internal fixation, a lot of controversy exists about the choice of method. If not treated properly, a fracture of the Scaphoid can go into non-union, malunion and may subsequently result into carpal instability and finally degenerative arthrosis. There are many newer advances in the implants as well as techniques in the treatment of fractures of the Scaphoid. We have treated a total number of 50 cases of fractures of the Scaphoid, at the All India Institute of Medical Sciences, New Delhi, India during the period 1997 to 2008. All cases were treated by internal fixation using K-wires/ Herbert screw/ Herbert Whipple screws; with or without bone grafting. The following is the break up of cases where internal fixation has been done: Different method of bone grafting such as non-vascularised, vascularised, muscle pedicle bone grafting etc. were employed in addition to internal fixation. The following types of bone grafting methods have been employed:- Iliac crest bone graft - 15; Distal radius bone graft - 8; Pronator Quadratus based muscle pedicle graft - 12; Vascularised bone graft - 15; Total 50 Cases; Good results were obtained in about 80% of cases. This paper discusses the controversies and newer techniques in the treatment of fracture Scaphoid, besides the results in 50 cases.

Compressive Myelopathies. Hammack, J. E., USA

The mechanisms of compressive myelopathy span the spectrum of human disease, the most common of which are traumatic and degenerative. Inflammatory, neoplastic, and even metabolic disorders must be considered in the differential diagnosis. The patient's history and clinical examination are the most important diagnostic tools. The history should include a detailed past medical history including a history of malignancy, infection (HIV and otherwise), autoimmune disorders, diabetes mellitus, drug abuse, spinal surgery or injection, and spine trauma. The examination should include visualization and palpation of the entire spine, looking for deformities and point tenderness. A complete motor and sensory examination (including a search for a sensory level) is essential as is an evaluation of sphincter tone. MRI of the spine or myelography is an important diagnostic adjunct. MRI is the best tool for visualization of the spinal cord, roots, discs, and paraspinal soft tissues. I shall focus my review on the diagnosis and treatment of non-traumatic compressive myelopathies including degenerative spinal stenosis and epidural cord compression by metastatic tumor.

Mechanism(s) for Premature Aging in Inflammatory Disease.

Clowes, J. A., USA

Subjects with Rheumatoid Arthritis (RA) have decreased longevity, at least in part, due to increased cardiovascular disease. Our understanding of the mechanisms behind the premature senescence observed in RA is currently in its infancy. There is however an increasing body of data which examines mechanisms involved in aging which may explain our observations in RA. We will explore the evidence supporting premature senescence in inflammatory diseases. We will examine the current theories and mechanisms of aging and translate these findings to explain the premature senescence observed in inflammatory arthritis. We will present some novel theories and data relating to stem cells and their role in premature aging. Finally, we will summarize existing research and discuss potential interventions to prevent and treat patients with chronic inflammatory diseases.

Our Experience with SIGN Nail at Ghurki Trust Teaching Hospital/ Lahore Medical and Dental College, Lahore, Pakistan – The Results and Difficulties. Akram, R. & Aziz, A., Pakistan

The SIGN Program started at Ghurki Trust Teaching Hospital in 2004 November, since then 250 poor patients got benefit from this program. Beautifully designed Sign nail proved a nail with variety of options for the use as well as an implant with user friendly technique, which does not require the image intensifier or even the radiograph pre operatively for the locking bolts placement. The simple jig design popularized this system world wide. The most important aspect of any surgery in the Orthopaedics is the financial burden of implant prize on the patient, even in cases where the Orthopaedic surgeons are working on no profit bases or volunteer bases the implants are needed for the surgery. In the SIGN SYSTEM credit goes to the SGN Organization specially Dr Lewis G Zirkle, Jr., M.D The Founder and the President of this Surgical Implants Generation