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**Surgical management of Tuberculosis of the Spine: A retrospective analysis of 127 cases in a Tertiary Care Hospital of Bangladesh**

**Shafiul Alam**

National Institute of Neurosciences and Hospital, Bangladesh

**Introduction:** Tuberculosis was a leading cause of mortality in the beginning of the twentieth century. Improvement in the socio-economic status led to a major decline in the prevalence even before the introduction of anti-tubercular drugs. However, it continues to be a major public health problem in developing countries like Bangladesh. The objective of current study is to observe the results of surgical treatment of tuberculosis of the spine.

**Materials and Methods:** This is a retrospective study. This was carried out in the department of Neurosurgery, National Institute of Neurosciences & Hospital, Dhaka, Bangladesh during the period of January 2013 to December 2017. The patients were divided into two groups. One group was treated by surgery without instrumentation and other group was treated by surgery with instrumentation. All patients given anti-tubercular drugs for 18 months. The outcome of the treatment was recorded and analyzed.

**Results:** Total number 127 cases were treated during the study period with the diagnosis of Tuberculosis of the spine. The

mean age of the patient was 32 years. Among them in 72 cases only surgical decompression done and other 55 cases were treated by surgical decompression and stabilization. Significant neurological improvement observed in the both groups of patients. Only one patient failed to improve neurologically. Two patients developed resistant to first line anti-tubercular drugs and one patient showed hardware failure.

**Conclusion:** Early surgical intervention is optimum mode of treatment. Surgery without instrumentation is the preferred option in developing country like Bangladesh.

**Speaker Biography**

Shafiul Alam is Associate Professor of Department of Neurosurgery at National Institute of Neurosciences & Hospital, Dhaka, Bangladesh. He has completed his MBBS from Rangpur Medical College, Bangladesh; FCPS Surgery from Bangladesh College of Surgeons & Physicians and MS in Neurosurgery from Dhaka University, Bangladesh. He has 13 National and 2 International publications. He has also served as Joint Secretary, Bangladesh Society of Neurosurgeons; Executive member, Neurospine Society of Bangladesh; Trained in Neuroendoscopy, Japan; Advanced training in Spine, India; Advanced training in Gamma Knife Neurosurgery, Singapore.

e: dr\_chapal@hotmail.com



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