

## **Surgery For Arnold Chiari Malformation Associated With Syringomyelia**

**Sri Maliawan**, Wisnu Wardana, Wayan Niriyana, Tjokorda Gde Bagus Mahadewa

*Dept. of Neurosurgery, Faculty of Medicine , Sanglah General Hospital, Udayana University Denpasar Bali Indonesia.*

Foramen magnum decompression in 18 patients with syringomyelia associated with type I Chiari malformations, 17 adults (age range 30-45 years old) and 1 pediatric (12 years). Bony of foramen magnum including C1 were decompress combined with the removal of dura mater and preserving arachnoids, and Dural graf were performed in 17 adult patients, and one pediatric patient just removal of the outer layer of dura mater. Postoperative follow-up after 1-8 years neurological symptoms and signs improved in 15 of 17 patients and were unchanged in two patients. Post-operative magnetic resonance imaging after surgery show a decrease in the size of the Syrinx or a disappearance of the Syrinx. One of pediatric patient neurological symptoms was improved. Foramen magnum decompression, by this technic reveal all patients neurologically improve none of the patient shows deterioration. All procedure preserving arachnoid layer and for pediatric almost just bony decompression.

Key words: Foramen magnum decompression, Chiari type one, syringomyelia, preserving arachnoid