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Hybrid cervical anterior , stand alone cage and metal on metal disc replacement, is it restore sagittal parameter – Three Years Follow Up

Didik Librianto¹, Ifran Saleh²

¹*Fatmawati Hospital, Orthopaedic spine, jakarta, Indonesia*

²*faculty of med univ indonesia, Orthopaedic, jakarta, Indonesia*

Background: Combination of acdf (stand alone cage) and CDR, is already well known procedure in treating multilevel cervical disc disease (CDD). The aim maintaining motion , strict indication, and reduced medical cost. Restore sagittal cervical parameter while deciding the choice of implant is important to get good sagittal balance

Research question: Because numbers of cases using hybrid fixation to treat multilevel CDD. Is it give good result in restoring cervical sagittal parameter

Design and Methods: A retrospective study was conducted in 139 procedure of Hybrid anterior cervical procedure procedure with stand alone cage and CDR metal on metal (MOM) in 2009-2021 with 3 years post op follow up.

Results: The result of procedure cervical lordosis was restore in sagittal parameter and was neck pain. Clinical outcome was good. After surgery, 99,3 % restore cervical lordosis (CL) among 89 pts who is preop CL is below normal. CSVA preoperative was more than 4 cm in 8,7 % pts, and restore in 99%. Post op VAS neck pain 99 %, 0-1/10 , ODI and SF 36 is good. After Three years follow up in 2 cases the cdr metal on metal is subsidence embedded in lower end plate and loosening the lordosis and reduces CL and ODI and SF 36

Discussion: The using hybrid fixation in retrospective study has shown good result. Cervical lordosis who is not preoperative was corrected with placement of stand alone cage and CDR. The decreasing of cervical lordosis in 3 years of follow up happened in 2 cases, is caused by subsidence of CDR and create local kyphotic and reduce odi and sf 36 as quality of life measurement in 3 years follow up