

CO-ORGANIZED EVENT

2<sup>nd</sup> International Conference on **Spine and Spinal Disorders**  
&  
6<sup>th</sup> International Conference on **Neurology and Neuromuscular Diseases**

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**Comparative study for cervical fusion by using cervical cage with or without bone granule**

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**Introduction:** Cervical Anterior Discectomy (CAD) of 42 patients was studied in a period from 2012 to 2014. These patients were divided into two groups: Group A, 26 patients operated by CAD with placement of cage only. Group B, 16 patients operated by CAD with placement of cage and bone granule. Result of both groups regarding fusion rate was compared.

**Method:** Both group underwent average clinical follow up more than 12 months, and result were evaluated according to radiographic evidence of fusion and chi-square test were used to compare fusion of both group, respecting patient age, sex and patient smoking status.

**Result:** The median age of all patients was 46 years old which include 56% male. 23 patients with single level, 13 patients with two levels and six patients with three levels disc disease fusion rate were achieved in single level group (A) 89.1%, group (B) 94.2%, and two levels group (A) 84.6%, group (B) 90.2%, three levels group (A) 66.4% and group (B) 81.5%.

**Conclusion:** Fusion rate is one of several factors that guide surgical decision making. Fusion rate is significantly high in group (B) than group (A). Age, sex and smoking status have no significant difference in both groups.

**Biography**

Mohamed Shaban is currently working at Cairo University as Special Surgeon. He has published many research works.

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**Notes:**