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Title: Selection of surgical procedures for basilar invagination with atlantoaxial dislocation

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## **ACCEPTED MANUSCRIPT**

### Selection of Surgical Procedures for Basilar Invagination

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2	with Atlantoaxial Dislocation
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15	ABSTRACT:
16	BACKGROUND CONTEXT: BI is a malformation of craniovertebral junction
17	(CVJ). However, surgical procedures on basilar invagination (BI) with atlantoaxial
18	dislocation (AAD) remain controversial.
19	PURPOSE: This research aimed to investigate the selection of surgical procedures
20	and its significance in the surgical treatment for patients with BI and AAD.
21	STUDY DESIGN: This was a retrospective study.
22	PATIENT SAMPLE: This study enrolled thirty-three patients who were diagnosed
23	with BI and AAD and were followed up for at least six months.
24	OUTCOME MEASURE: All of the patients were assessed to observe neurological
25	recovery in terms of Japanese Orthopaedic Association Scores (JOA) and Odom's
26	criteria, and X-ray, MRI, or CT scanning were used to determine reduction,
27	compression, bone graft, and internal fixation before and after operation.
28	METHODS: Thirty-three patients who suffered from BI with AAD were treated in

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