

# Benedikt Syndrome

Benedikt [syndrome](#) is caused by a rare type of brain [damage](#) to the [red nucleus](#) and nearby locations. Clinically, it presents as ipsilateral [oculomotor nerve palsy](#) and specific contralateral [involuntary movement](#). These involuntary movements may affect activities of daily living (ADLs) in affected patients. We treated a case of Benedikt syndrome associated with neck clipping of a ruptured basilar-superior cerebellar artery aneurysm. A 66-year-old female patient was admitted to our department with headache. Initial computed tomography imaging and angiography showed subarachnoid hemorrhage and left basilar-superior cerebellar artery aneurysm. We performed neck clipping of the aneurysm. Immediately after the surgery, left oculomotor nerve palsy occurred. Right involuntary movement gradually developed from the fifth day after the surgery. Postoperative magnetic resonance imaging (MRI) showed an infarction around the left red nucleus. This specific involuntary movement significantly impaired the ADLs of the patient and persisted for two months. From three months after the surgery, it gradually improved. One and a half years after the surgery, the ADLs of the patient improved notably. It is important to preserve perforators in the treatment of distal basilar artery aneurysm. However, while ischemia of the red nucleus (e.g., due to perforator damage) may cause specific involuntary movements, they could recover spontaneously after a period of months.

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