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Manuscript Title:

Treatment of condylar osteophyte in temporomandibular-joint osteoarthritis with the muscle balance occlusal splint and long-term follow-up: a case report

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Abstract:

BACKGROUND: Condylar osteophytes, a remodeling form of temporomandibular-joint osteoarthritis (TMJ OA), mainly manifest as marginal angular outgrowths of the condyle. Previous researchers have advocated surgical removal of condylar osteophytes. Reports on the occlusal splint's effect on TMJ OA patients' joints have mostly focused on treatment with this splint, which can reduce the absorption of the affected condyle and promote repair and regeneration instead. However, the splint's effect on the dissolution of condylar osteophytes has not yet been reported.

CASE SUMMARY: A 68-year-old female patient suffered from occlusal discomfort with left facial pain for 2 years. Cone beam computed tomography showed a rare osteophyte on top of her left condyle. She was finally diagnosed with TMJ OA. Patient refused surgical treatment and received conservative treatment with the muscle balance occlusal splint. The pain experienced by the...

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