Cases of Maxillary Sinusitis Caused by Dental Implants
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Introduction
In recent years, dental implant therapy has been widely performed in clinical settings to improve esthetics and mastication disorders due to tooth loss by embedding such artificial materials as titanium and BioCelum into the jawbone. However, the number of cases where an implant caused maxillary sinusitis and was forced to be removed is also increasing. The presenters therefore clinically investigated implant-induced maxillary sinusitis.

Subject
Subjects were 32 patients with 33 cases of maxillary sinusitis caused by a dental implant who were treated in the presenters’ department between 1973 and 2005.

Result
1. Gender and Age: The 32 patients comprised 12 men and 20 women. Mean age was 53.8 years. (Fig.1)
2. Implants Type: Sinusitis was caused by an Osseo integrated implant in 23 cases, a subperiosteal implant in 7 cases and an end osseous implant in 1 case. (Table 1, Fig. 2-6)
3. Duration from implant surgery to onset of maxillary sinusitis: Mean duration was 36.3 months (range, 1 month to 12 years).
4. Treatment Methods: Therapy comprised implant removal, Caldwell-Luc procedure and fistula closure in 11 cases, implant removal and fistula closure in 8 cases, implant removal and Caldwell-Luc procedure in 3 cases, implant removal and conservative therapy in 9 cases, and conservative therapy alone 2 cases. (Table 2)

Case presentation

Case 1
Chief Complaint: yellow rhinorrhea
Diagnosis: (r) maxillary sinusitis
Treatment: removal implant and fistula closure

Case 2
Chief Complaint: left otalgia
left facial swelling
Diagnosis: osteomyelitis of mandible
Treatment: removal implant and sequestrectomy

Discussion & Conclusions
1. Many patients were women, as dental implants improve both mastication and esthetics.
2. In the treatment of maxillary sinusitis caused by a dental implant, the basic strategy was based on the Caldwell-Luc procedure.
3. For prevention, through anatomical and morphological examination of the maxilla and proper selection of materials and procedures matching each patient are important.