

The history of materials health and social care essay



12: The patient had a history of an acute sinusitis attack 6 weeks ago.

Maxillary sinus floor was augmented by means of internal technique in the first molar region on the left side using 0.5 gr xenograft (BioOss®, Geistlich Sons Ltd) and an implant in a diameter of 4.1x12 mm (ITI®, Straumann) was placed (Figure 2). No complications occurred during the surgical procedure.

Four weeks after the surgery, the patient had pain on the region of the implant inserted with the internal lifting procedure. Clinical examination showed postnasal drip, swelling and hyperemia on the operated side. Full opaque appearance of left maxillary sinus on the panoramic radiograph confirmed the acute maxillary sinusitis. Finally, the implant was extracted and a purulent fluid was drained from the implant socket. A new implant in a diameter of 4.1x12 mm (ITI®, Straumann) was inserted to the canine region

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1. The patient was treated with an autogenous onlay corticocancellous bone graft, harvested from the iliac crest, affixed to the anterior maxilla, and placed through a labial vestibular incision. Six months later, three Brånemark implants (Nobelpharma AB, Gothenburg, Sweden) were placed in the anterior maxilla. Two months after implant placement, one of the implants had been expelled through the nose upon sneezing. A panoramic radiograph revealed that only one of the three implants remained in the surgical site. In addition to the expelled implant, another implant had been dislodged into the right maxillary sinus². A 67-year-old woman presented to the OMFS Clinic requesting a consultation regarding failure of maxillary implants previously placed by her private dentist. Approximately 1 year prior to her presentation, she had undergone placement of two implants on each side of the posterior

maxilla. Immediately after implant placement, pain in the right maxillary area developed. The right maxillary implants were removed, along with a significant amount of bone, resulting in an oroantral fistula, which was surgically closed. The extent of the defects in the bony floor and the lateral wall of the right maxillary sinus precluded the possibility for further bone grafting¹³. Eight patient histories illustrating maxillary sinus-related complications, such as pain, infection, implant migration, and bone loss associated with maxillary endosseous implant reconstruction, are reported herein. The patient was treated with bilateral sinus-lift procedures with autogenous iliac-crest bone grafts in preparation for subsequent endosseous implant placement. Six months later, endosseous implants were placed in the maxilla bilaterally, and in the left mandible (Fig 3b). Following placement of the implants, the patient developed pain and swelling in the right maxilla. Radiographic evaluation revealed that the implants appeared to have a bony interface with no evidence of bone resorption. The local vestibular swelling responded to antibiotic therapy; however, the patient developed persistent pain and tenderness with signs of chronic infection. Consultation with an otolaryngologist was obtained. In an exploratory Caldwell-Luc surgical procedure, the implants appeared covered by bone and were clinically osseointegrated. A 1.5-cm, sphere-shaped foreign-body mass composed of a black material was curetted from the maxillary sinus. The inflamed contiguous mucosal lining was removed as well. The pathology and microbiology reports of the removed material were consistent with aspergillosis (Fig 3c), which is sensitive to amphotericin B. The patient

was JOMI on CD-ROM, 1995 Apr (451-461): Maxillary Sinus Complications

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with amphotericin B and then orally with itraconazole 100 mg per day for 6 weeks. To date, the pain and discomfort have not resolved, and the patient has had two more exploratory surgical procedures demonstrating no signs of acute infection. The implants are stable and appear to be covered with bone and osseointegrated, clinically and radiographically. A bone scan (technetium-99m diphosphate) revealed an area of increased activity in the right maxilla. However, a white blood cell gallium scan (Ga67) indicated a noninflammatory process in the right maxilla. At the request of other consulting physicians, the right maxillary implants were removed. The pain has not been resolved and it has been diagnosed as being neurogenic in origin. 4, 5.... as like other cases. 6. A 66-year-old woman with a history of fibromyositis and muscle amplification syndrome, for which she was taking prednisone 5 mg every other day, had 10- and 7-mm Brånemark screw-type implants placed in the left posterior atrophic maxilla (Fig 6). Six months after implant placement, only the more anterior implant had integrated, while the posterior implant required removal. Three months later, another implant, 10 mm in length, was placed more anterior to the failed implant. This implant had penetrated the floor of the maxillary sinus but did not produce any sinus symptomatology. Six months later, this implant was uncovered, and during the attempt at abutment connection, the implant was dislodged into the maxillary sinus. The implant was retrieved through the implant-preparation site and did not require a Caldwell-Luc approach for retrieval. The wound was closed primarily and healed uneventfully 7.... nothing special 8. bilateral maxillary sinus-elevation surgery was performed with augmentation using an autogenous tibial bone graft (Fig 8b). Suppurative drainage 3 weeks postoperatively was detected in the maxillary ridge. The culture report revealed *Escherichia coli*.
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Treatment with oral amoxicillin with clavulanate potassium was initiated, but the infection persisted. Surgical debridement and removal of the bone graft from the left maxillary sinus was required¹⁵. Four grams of bone graft material (irradiated cancellous particulate allograft bone; Rocky Mountain Tissue Bank) was placed into the sinus lift cavity. A collagen membrane (Conform, Ace Surgical Supply, Brockton, MA) was placed over the lateral aspect of the bone window. The flap was replaced, and 4.0 nonresorbable suture material (Cytoplast PTFE; Osteogenics Biomedical, Lubbock, TX) was used to stabilize the flap. This patient was prescribed 150 mg clindamycin four times per day for 10 days and 0.75 mg dexamethasone four times per day for 6 days. The patient started these medications one day before surgery. Two weeks after the surgery, the patient reported pain and discomfort, with drainage from his nasal cavity on the operative side. Yellow mucus discharge from the right nostril was cultured in standard transport media. A mixture of aerobic and anaerobic bacteria was noted. The patient was prescribed clindamycin 300 mg along with metronidazole 250 mg to reduce the possibility of having an anaerobic bacterial infection. The patient showed no improvement, and he was then prescribed tetracycline 500 mg, for 10 days. On the second day of taking tetracycline (21 days after the surgery), the patient reported swelling in the right maxillary sinus area. There was also pain on palpation, malaise, and fever. After several weeks, the intraoral soft tissue stoma had closed. Under local anesthesia, a full-thickness flap was reflected over the right maxillary sinus wall, and access was made through the previous lateral window. Findings included showed frank pus accumulation and unattached bone grafting material. The area was curetted and irrigated with saline. Suturing was done

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using a 3.0 PTFE with interrupted technique. The otolaryngologist performed an endoscopic examination under general anesthesia (Fig. 3). Findings were consistent with stenosis of the right maxillary sinus ostium (Fig. 4). Balloon catheterization and widening of the ostium were completed (Fig. 5). Cultures were taken during the surgery, and the sinus was examined using a fiberoptic probe. These cultures had shown presence of *Prevotella* species and were identified as *Prevotella melaninogenica*. The base of the Schneiderian membrane on the other hand appeared intact. No other abnormalities were noted. The patient did improve after the procedure and was less symptomatic. Two months later, the patient developed copious clear mucus discharge from the right nasal cavity and also noted tenderness of the right maxillary sinus. In addition, he reported intermittent blockage of the right nasal airway and difficulty with air flow through the right nasal passage. Under local anesthesia, the oral and maxillofacial surgeon elevated a full thickness mucoperiosteal flap over the right lateral aspect of the maxilla. The previous lateral window was used to gain access into the base of the sinus. The window was enlarged, and a thorough curettage of the graft material was done. Multiple sinus polyps and grafts material attached to the thickened Schneiderian membrane were removed (Fig. 6). The sinus was thoroughly irrigated. The patient showed remarkable improvement (Fig. 7) and was symptom free on a 1-year follow-up.

16. Discussion
17. literature review...
discussion
18. discussion with ENT prospect.... clinical study.. very good....
Have to do correction on poster. no cases reported for failure
19. Twenty-six of the total 34 implants inserted failed, of which 7 were displaced into the sinus. All patients had maxillary sinusitis, and 2 also had an inflammation of other paranasal sinuses. Ten patients presented with an oroantral fistula.

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Review of the files of the referring practitioner revealed the preoperative presence of chronic maxillary sinusitis in 4 patients and an odontogenic cyst in 1. Caldwell-Luc operation served as the definitive surgical treatment. 20 n 21. normal article 22. The implants placed in the augmented sinus were clinically healthy and the implant-supported restorations had been functioning successfully at 17 months after initial loading. Unexpectedly, the patient visited the dental clinic with the chief complaints of pain on biting in the upper right 2nd premolar (#15) since he had eaten hard food 3 days earlier. The #15 tooth was diagnosed as cracked and endodontic therapy was required. During endodontic therapy, a CT scan was taken to locate the buccal canal of the tooth. Peri-implant radiolucency in the apical portion of the implant placed in the augmented maxillary sinus was found by accident in the CT scan although a conventional (panoramic) radiograph revealed no signs of peri-implant radiolucency (Fig. 9). This was after a healing period of 32 months since sinus augmentation. The fortuitously discovered radiolucent portion can be described as incomplete bone formation or bone cavity in the augmented maxillary sinus. Nevertheless, the dental implants that were placed in the grafted sinus had been functioning well after prosthetic loading for more than 60 months and no enlargement of the bone cavity was found in follow-up radiographic views (Fig. 10). The patient has had no subjective symptoms such as discomfort or pain in the #16i and 17i area and has been receiving follow-up care on a regular basis. 24. A 43-year-old white man came to our private practice office with a chief complaint of a mucosal trauma on the left posterior maxillary region caused by the prosthetic rehabilitation of movable overstructure, placed and loaded on dental implants 8 years ago. A careful clinical examination showed

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the disappearance of an abutment on the posterior left side of the maxilla and the absence of the implant from the same area, though the housing on the overdenture was clearly seen. The conventional panoramic and Water's radiograph revealed migration of the dental implant into the left maxillary sinus. After the raise of an atraumatic buccal full-thickness flap and the implant was detected under direct vision and removed with forceps through the osseous window of the osteotomy. The histologic examination showed no inflammatory signs connected to the migrated implant. The pathogenesis of migration of an implant into the maxillary sinus is difficult to explain, but 3 probable mechanisms include the changes in intrasinal and nasal air pressure, an autoimmune reaction to the implant causing peri-implant bone destruction and compromising the osseointegration, and a bone resorption produced by an incorrect distribution of occlusal forces. Treatment modalities for removal of a migrated dental implant initially included the conventional Caldwell-Luc (C-L) procedure.

1627. A 52-year-old woman was referred to us with a displaced dental implant in her left maxillary sinus. The left cheek had started to swell and serous discharge had developed from the implant site a month before. She presented with pain in the cheek and a postnasal drip. Computed tomography (CT) of the paranasal sinuses showed a 1 cm metallic foreign body, which was thought to be the dental implant (Fig. 1). Under local anaesthesia we approached it endoscopically through the middle meatus of the nasal cavity.

28. A 45-year-old systemically healthy female patient was referred to us with a displaced oral implant in her sphenoidal recess. The patient had undergone an implant placement procedure 15 days back for the substitution of the left upper first molar with a screw-type oral implant. Despite the absence of symptoms, it was decided to

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remove the implant, to prevent potential obstruction or infectious complications of the sphenoid sinus. Under general anesthesia with orotracheal intubation, the patient underwent endoscopic removal of the displaced implant via a transnasal approach²⁹. A 44-year-old female presented with a two-day history of unilateral facial pain and a puffy left malar region. Two weeks before she had three osseointegrated implants screwed into the left upper alveolus by her dentist for future use with a permanent dental plate as described by Branemark et al. (1977). Her upper alveolus had remained tender since insertion of the implants and on examination was erythematous and swollen with no sign of the implants. There was pus filling her left nasal cavity. Occipito-mental and lateral sinus X-rays (Figs. 1, 2) showed an opaque left maxillary antrum containing two dislodged implants. An orthopantomogram (Fig. 3) showed the third implant in place but complete loss of upper alveolar bone laterally where the other two implants had been inserted. The three implants were removed via a sublabial antrostomy with an extended buccal mucosal flap, the infected bone of the upper alveolus was curetted and an intranasal antrostomy was fashioned. A mixed culture of Haemolytic Streptococci group F and mixed anaerobes was grown from the aspirated pus; 30. 26 patients presented with displaced implants in the maxillary sinuses. 1 patient presented with an implant that was originally displaced in the maxillary sinus, but due to delay in treatment, underwent spontaneous migration toward the sphenoid sinus and penetrated its ostium.