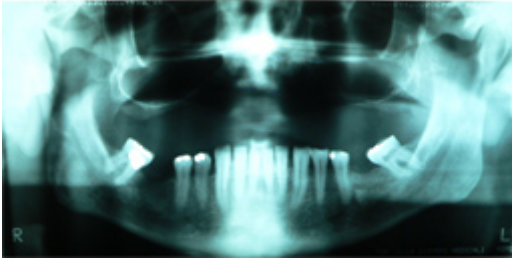


Full Reconstruction

Upper Jaw



Male Patient

Age at time of surgery: 58

Patient had been edentulous for the last 30 years. Patient had only one to two millimeters of bone on the alveolus (bone above skeletal plate).

This patient's ongoing capacity to wear a conventional denture had become severely compromised by a dramatic resorption of supporting bone over the last thirty years.

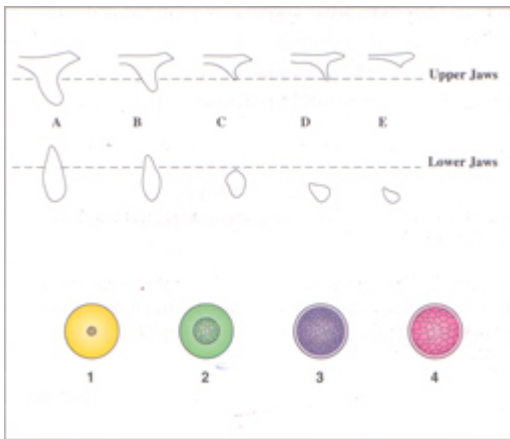


Fig. 1. Shape groups A-E and quality groups 1-4, according to the classification proposed by Lekholm & Zarb (1985).

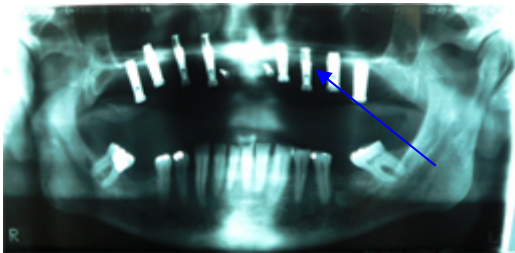
One of the patient's main risk factors was the possibility of a fracture of the plate bone forming the floor of the maxillary sinus. He had developed significant issues both with retention and cosmetics of his full upper denture.

The patient is most definitely shape "E" on the Lekholm & Zarb bone classification.

Patient was in good general health and a non-smoker.

Full Reconstruction

Upper Jaw



Treatment

Patient was referred to a maxillofacial surgeon who used bone from the patient's hip to perform a bilateral sinus lift (fill the maxillary sinus spaces with graft bone from the patient's own hip) and a block bone graft to perform a bilateral nasal lift. This

is a block of bone to rebuild bone below the nasal floor and in this case was held on by titanium screws during the healing phase. The bone block was obtained from the cranium.

Six months healing was allowed for bone graft healing prior to the placement of eight Brånemark System dental implants. The graft bone was a soft type three / type four bone.

As there is a fifteen to twenty percent implant failure rate in maxillary graft bone we have placed two extra fixtures over and above the usual six fixtures normally required to support a full maxillary hybrid prosthesis.

One right-side fixture did fail at second stage, which was eight months after placement.

The patient was ultimately issued with a full hybrid prosthesis supported by seven implants.

Fees

Hospital admission and bone grafting came to \$8,000.00.

Implant placement and prosthesis came to \$20,000.00.

This case was completed in 2003.

A contemporary case would add two to three thousand dollars extra.



Showing abutments prior to taking impressions.



Showing prosthesis in place.

Abutments are screwed into the implants.

Full Reconstruction

Upper Jaw

Patient Outcome

Picture Coming Soon...

With the patient's prosthesis gum fitted he reports no problems with speech or phonetics.

He now presents a successful oral rehabilitation, having presented as someone whose oral function would have become progressively debilitated.

His restored bone support will be retained by functional loading of his bone integrated titanium implants.

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