

Aesthetics

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‘The term aesthetic means pertaining to beauty or to the improvement of appearance and this is often a prime goal of the clinician and patient when replacing missing teeth in anterior maxilla’
Kumar et al., 2014 p.612

Whilst more complicated procedures like implants require intense planning not just for the surgical intervention (placement of the implant) but to ensure the correct materials are chosen for their aesthetic values to ensure the appliance isn’t rejected (Kumar et al., 2014), arguably this could be applied for ‘simpler’ procedures.

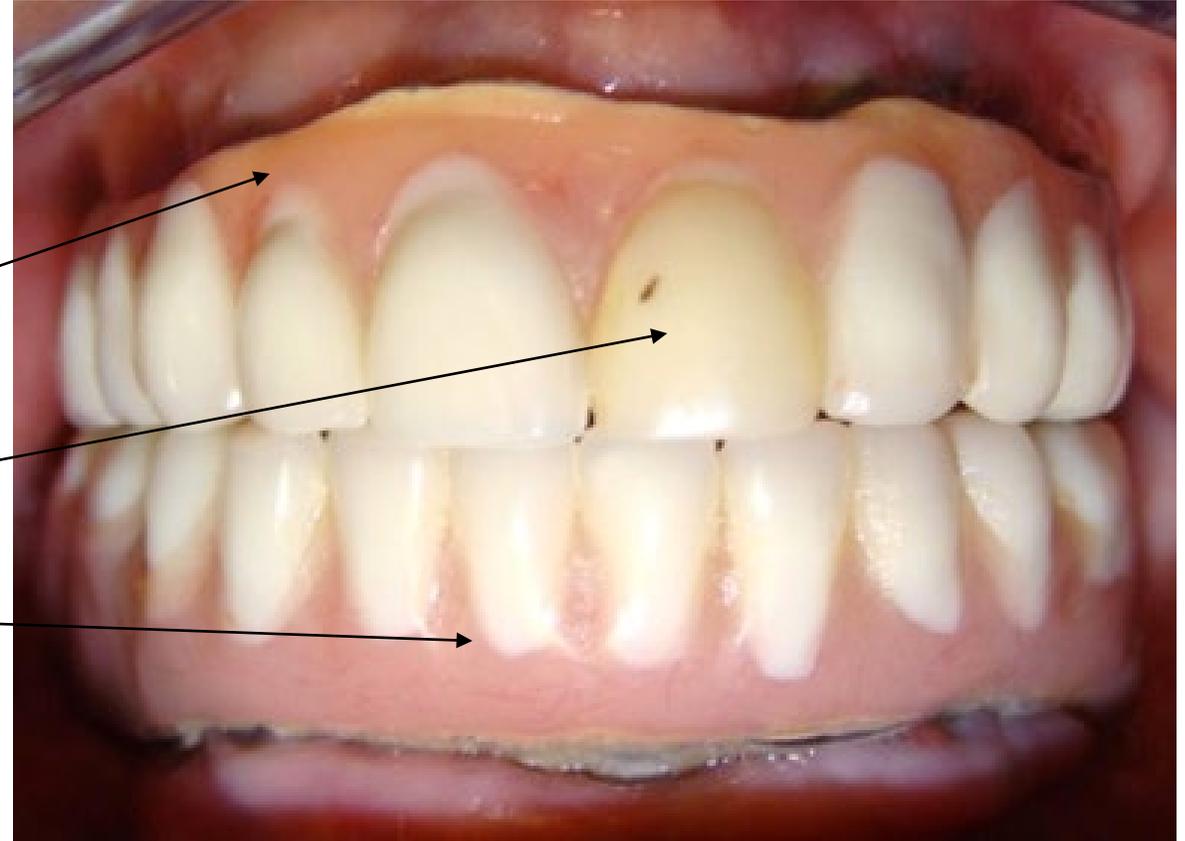


← Implants visible
Grey Hue →
Elongated crown length



Whilst this is a complex case as an implant retained denture some fundamental issues with basic aesthetics

- Yellowing of acrylic
- Different shades of dentition
- Lack of gingival margins/
flattened dentition (due to
excessive pumicing?)





Highly visible
metallic and
acrylic
components



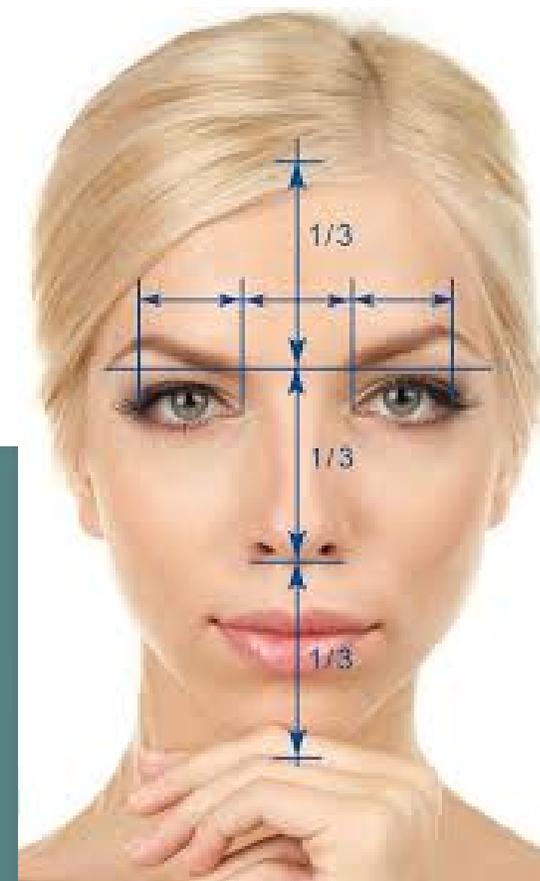
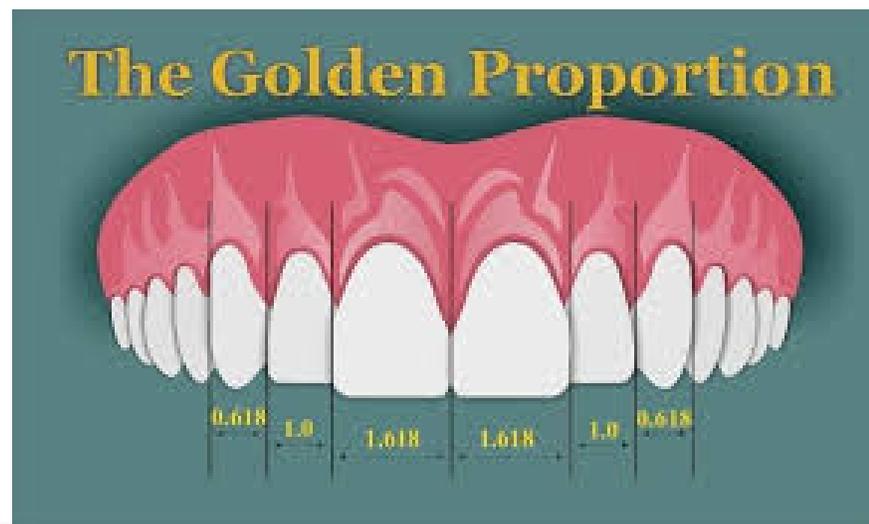
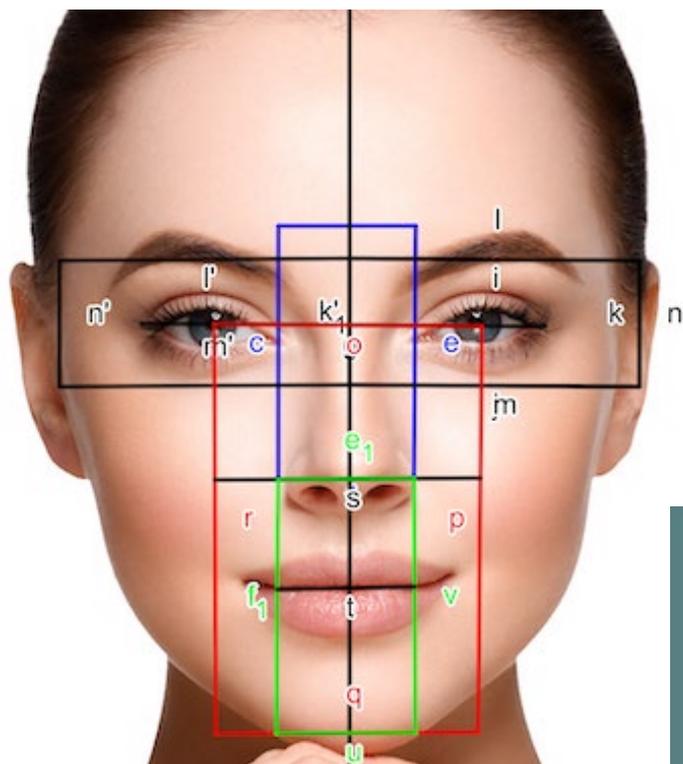
Ideal aesthetics?

Golden proportion/ratio: this is apparent in nature and used with the ratio of 1.618:1. this is used to calculate the 'correct' dimensions of the anterior dentition when viewed from the front.

However, studies conducted found various proportions on the general population, whilst the golden proportion is 'ideal' the majority of people don't fall into that category

Additionally other factors may influence, colour and shape of the teeth as well as the shape of the dental arch.

Also cultural, sociodemographic and individual preferences can impact (Aldegheishem et al., 2019).





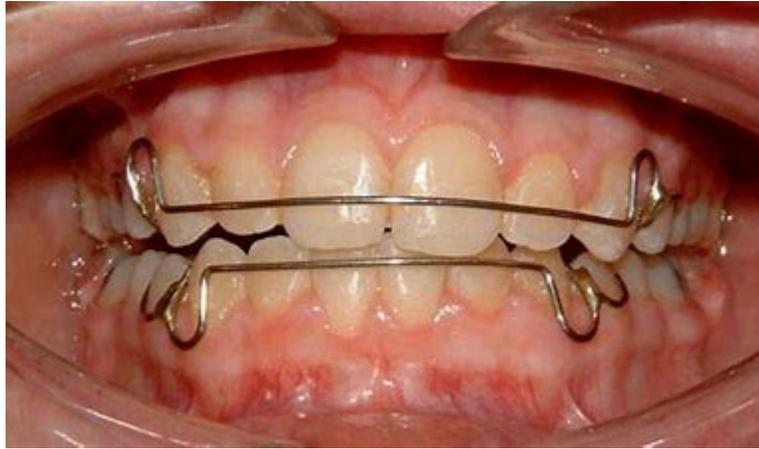
Left is a metal ceramic crown with a visible metal cervical area and short crown length

Right- patient likely to have undertaken a whitening treatment (though may be light reflection) an all ceramic crown has been used to replace the metal ceramic

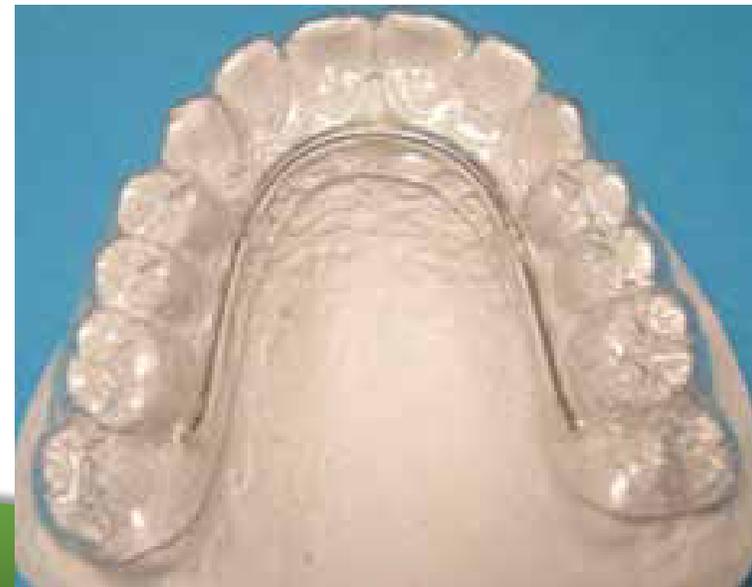


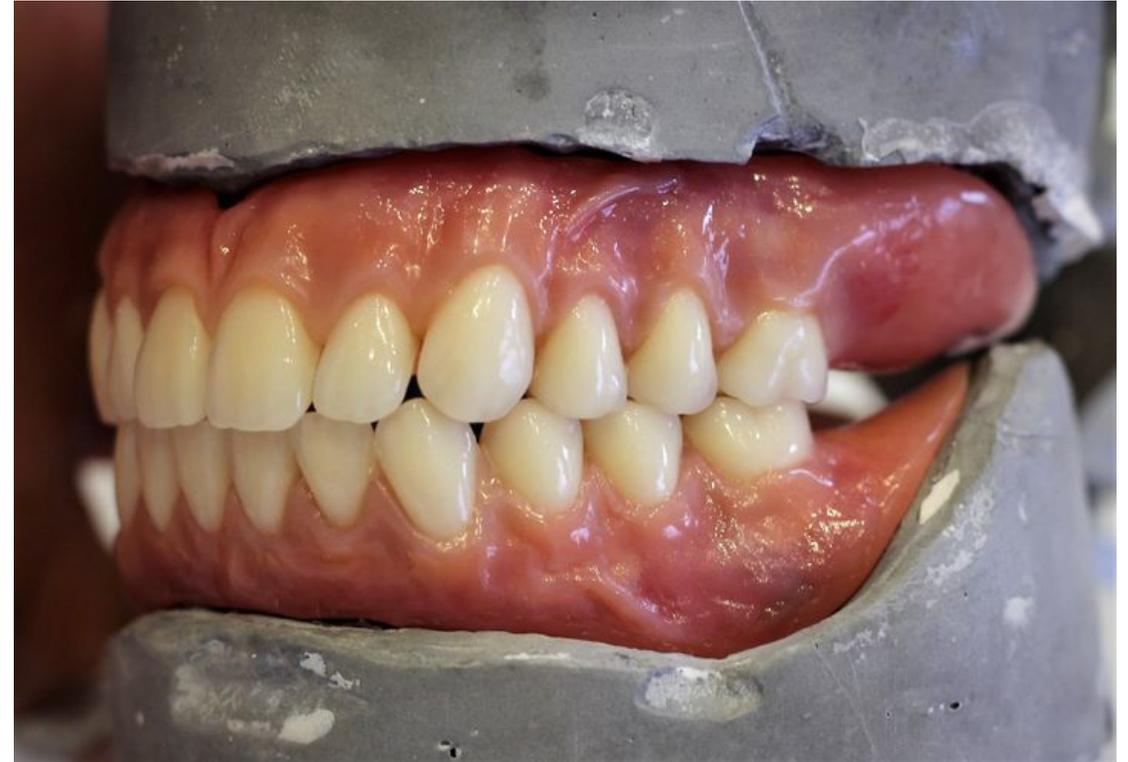
Whilst these are off different patients and there are some general aesthetic issues overall, some patients would prefer PEEK (CAD-CAM milled material) for the dentine coloured clasps





Metal visible on the mandible and maxilla Hawley-comparison to bonded retainer where it sits on the lingual or palatal aspect of the dentition and not visible or a vacuum formed retainer which is a clear material.





Examples of high end work-

Crown: shade matching (to include internal staining) with surface characterisation

Denture: includes contour and stippling with anatomy (fraenum's) with the addition of internal staining to mimic natural changes in shade of the mucosa. (denture Claire O'Brien)

Alhanoof Aldegheishem, Ambreen Azam, Ebtissam Al-Madi, Lujain Abu-khalaf, Bashayer Bani Ali, Lamyia Anweigi (2019), Golden proportion evaluation in maxillary anterior teeth amongst Saudi population in Riyadh, *The Saudi Dental Journal*, 31 (3), pp. 322-329.

Kumar, M. S. A., Pal, M. G. A. K., Mittal, M. M, and Rajesh, P. (2014) Achieving aesthetics in deficient anterior maxillary ridge with a modified screw retained prosthesis for Kennedy's Class III situation, *Medical Journal Armed Forces India*. 71, pp 612-615 <http://dx.doi.org/10.1016/j.mjafi.2014.04.006>



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