Options for dentures

Justin Stewart looks at what's new in the world of denture teeth

Every time I go to Dental Showcase or talk to sales representatives, I always hear about the 'latest and greatest' new crown material, or new companies with the patent for the latest new idea. In comparison, materials relating to dentures don't seem to have changed much over the years.

However, I am happy to report that there is a new denture tooth that, in my mind, is significantly different from the rest of the teeth on the market and should be of interest to dentists wanting to give their patients a choice. In the same way that we might offer the patient two or three options for an anterior crown, why don't we give patients different options for denture teeth?

Candulor products

There are two new products from a dental manufacturer called Candulor. The first is a nano-filled composite (NFC) tooth; it is based on a urethane dimethylacrylate matrix with organic filler. Abrasion measurements taken at different universities (Innsbruck and Regensburg, both in Germany) show significantly better abrasion values than other acrylic teeth. The tooth also has a particular natural brilliance; its main properties are outstanding resistance to abrasion, plaque resistance, color and oral stability. Its natural transparency and translucency create an opalescent cusp, which, in many ways, looks like a ceramic material. The tooth is laminated, being a four-layer tooth, and the neck is made of PMMA, giving a good bond to the denture based acrylic, which, for example, is arguably a potential downside of using porcelain teeth.

Candulor has an interesting occlusal set-up where it follows the idea of the condyle sitting in the glenoid fossa and they try to reproduce this in the teeth they manufacture. This creates a mortar and pestle effect with the cusp of one arch lying in the bowl like fossa of the opposing arch tooth. Although there are differing views around the best denture occlusion, most of us who do a lot of work in this field would argue that we are looking for balanced occlusion with minimal interferences in lateral excursions.

Good marketing

Overall, Candulor seems to have hit on a great idea of being able to provide harder teeth and a really good occlusal arrangement. Candulor also have a gum-staining kit, and in my view, one of the best things about Candulor is that it has great visual marketing aids for dentists and patients. If you're trying to inspire your dental technician to do really good work, it is helpful to begin with the end in mind, and Candulor has produced maps of where the staining should be placed to produce the most natural gum effects. These maps show where the soft, medium and strong colours should all be placed. When experienced, the technicians can very quickly carry out gum staining at the denture processing stage.

For more information about trying the NFC teeth or gum staining kits, contact Metrodent on 01484 466 715.

About the author

Justin Stewart was the first qualified Biofunctional Prosthetic System (BPS) dentist in the UK. He is a member of the American Prosthodontic Society and the British Society for the Study of Prosthetic Dentistry. Dr Stewart is dedicated to resolving denture-related problems through teaching and training. For further information, please email Justin Stewart at enquiries@thedentureclinic.co.uk.