Non-invasive, long-term temporisation with a high-performance polymer

As the dentition had already undergone extensive aesthetic and functional changes and the patient was still undergoing growth processes, appropriate treatment planning was not an easy task. After the clinical findings had been evaluated in the laboratory and practice, and all advantages and disadvantages of alternative restorative treatment options had been considered, the patient with his family and the practice team settled upon the following therapy plan:

1. Study wax-up to establish an aesthetic and functional morphology of the teeth;
2. Functional evaluation of the aesthetics by means of a mock-up, using the wax-up as a basis (Fig. 5);
3. Functional evaluation of the situation: transfer of the newly established vertical dimension to a modified Michigan splint;
4. Precision impressions of the uncus teeth;
5. Wax-up digitalisation and fabrication of CAD/CAM-manufactured, long-term temporary restorations using Telio CAD;
6. Try-in and final aesthetic incorporation of non-invasive temporaries.

Preliminary treatment

After the wax-up had been adjusted to meet the envisaged aesthetic criteria, the 12-week splint therapy began, which also served as a functional evaluation phase. The vertical dimension established in the wax-up was accurately transferred to the oral cavity of the patient. During this phase, the patient had the opportunity to become accustomed to the new vertical occlusal height.

Long-term temporisation

Following the functional evaluation phase, both maxillary and mandibular, high-precision impressions of the uncus teeth were taken. The impressions were sent to the laboratory together with a face bow. A centric bite record was taken to ensure an accurate transfer of the occlusal dimension – for this purpose, the Michigan splint was sectioned.

The temporary restorations were fabricated using Telio CAD (A2 shade). The study wax-up, which served as the basis for the CAD/CAM manufacture of the restorations, was digitised.
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This procedure resulted in form-identical, long-term temporaries (Figs. 4a & b).

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