

SCIENTIFIC REPORT

Twinky Star – 1-year clinical study

VOCO GmbH, Knowledge Communication Department

Anton-Flettner-Str. 1-3
27472 Cuxhaven, Germany

Tel.: +49 (0)4721-719-1111
Fax: +49 (0)4721-719-109

info@voco.de
www.voco.com



VOCO offers an alternative to tooth-shaded treatment with Twinky Star, the coloured filling material. The quality of such restorations was examined in a 1-year clinical study at the University of Ankara (Turkey). [1]

As a coloured compomer with glitter effect, Twinky Star is a popular filling material, especially in paediatric dentistry. Compomers significantly outperform glass ionomer cements in stability, which are likewise frequently used in paediatric dentistry. This represents a considerable advantage in restoring posterior teeth. Furthermore, compomers also release fluoride; a property that contributes to the support of prophylaxis with children and adolescents. The high stability of compomers, especially in Twinky Star, was analysed in the study presented here. The treatment of Class II cavities examined here placed the highest demands on the stability of the filling material used.

Clinical study

80 total fillings were placed in 36 children (18 male and 18 female, average age: 7.3 years) to treat Class II cavities. The cavities were treated with Twinky Star in different colours after the application of the adhesive system Futurabond NR. 77 of these fillings could be examined again after 12 months. The restorations were rated according to the modified criteria of the US Public Health Service.[2] The results of this study are summarised in Figure 1. Only three fillings had to be exchanged after 12 months.

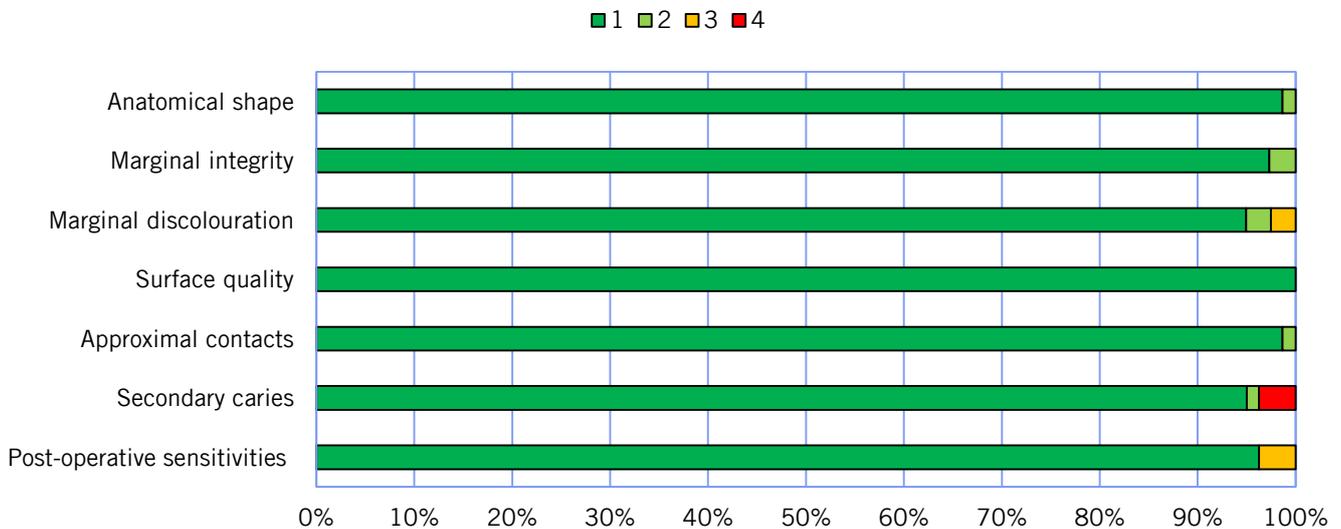


Figure 1: Results of the clinical expert opinion after 12 months of wear

In addition to examining the clinical appearance of the placed fillings, the choice of colour by the patients is additionally interesting. It was shown that the boys favoured the colour blue, while the colour pink was exclusively selected by girls in this study. The colours lemon and silver were also popular. The total distribution is shown in Figure 2.

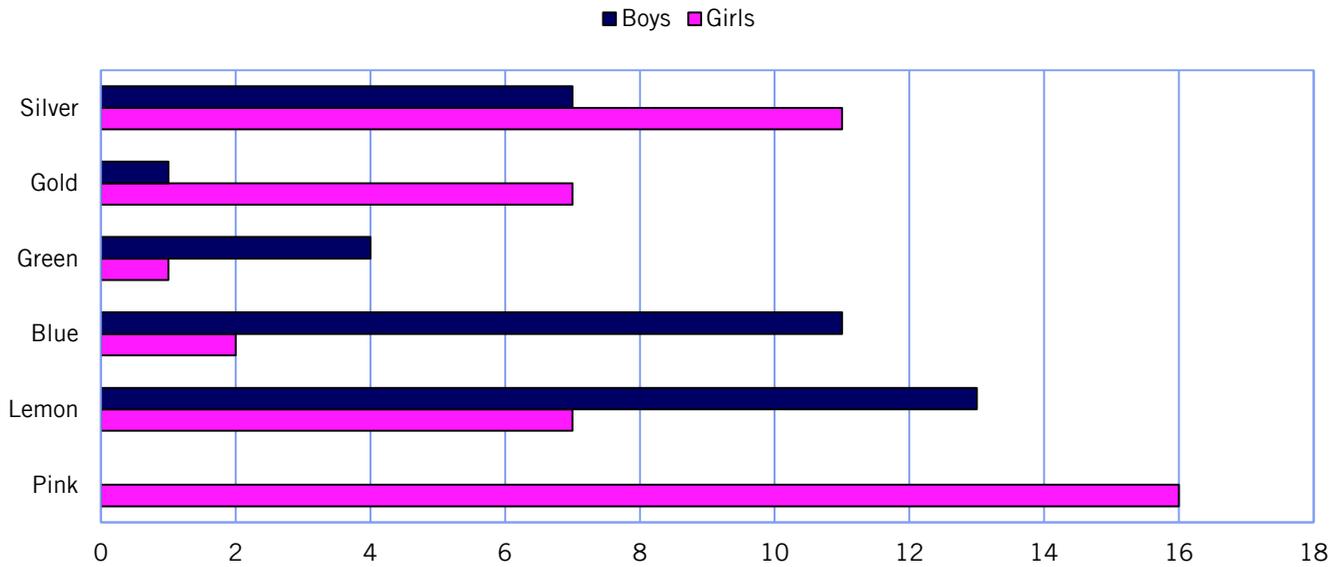


Figure 2: Distribution of the selected colour according to sex

Conclusion: Twinky Star fillings exhibit excellent results in Class II cavities after 12 months of wear.

[1] A. A. Oba, I. S. Sönmez, S. Sari, *Med. Princ. Pract.* **2009**, *8*, 31-34.

[2] G. Ryge, *Int. Dent. J.* **1980**, *30*, 347-358.