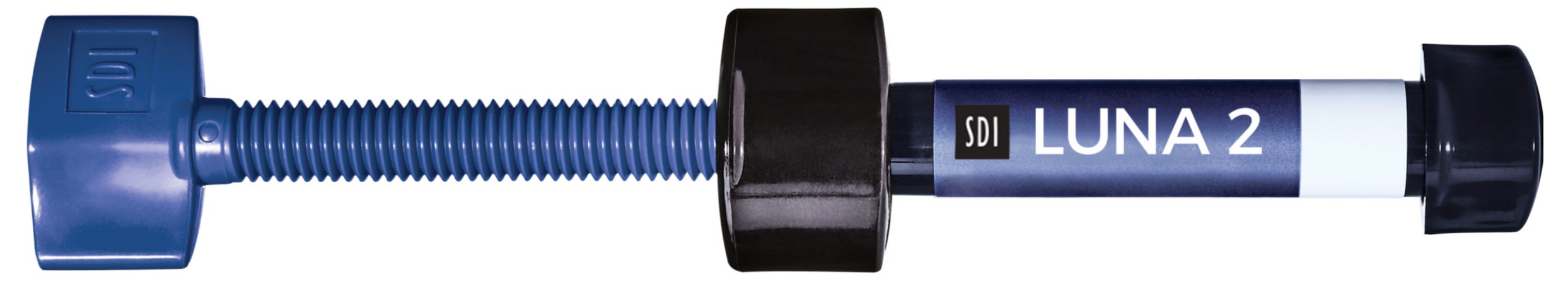


HANDLING AND AESTHETICS OF LUNA 2: A BLIND STUDY

OBJECTIVES

To assess the handling and aesthetic properties of universal composite restorative material Luna 2 (SDI Ltd., Bayswater, Australia) compared to market-leading universal composites.

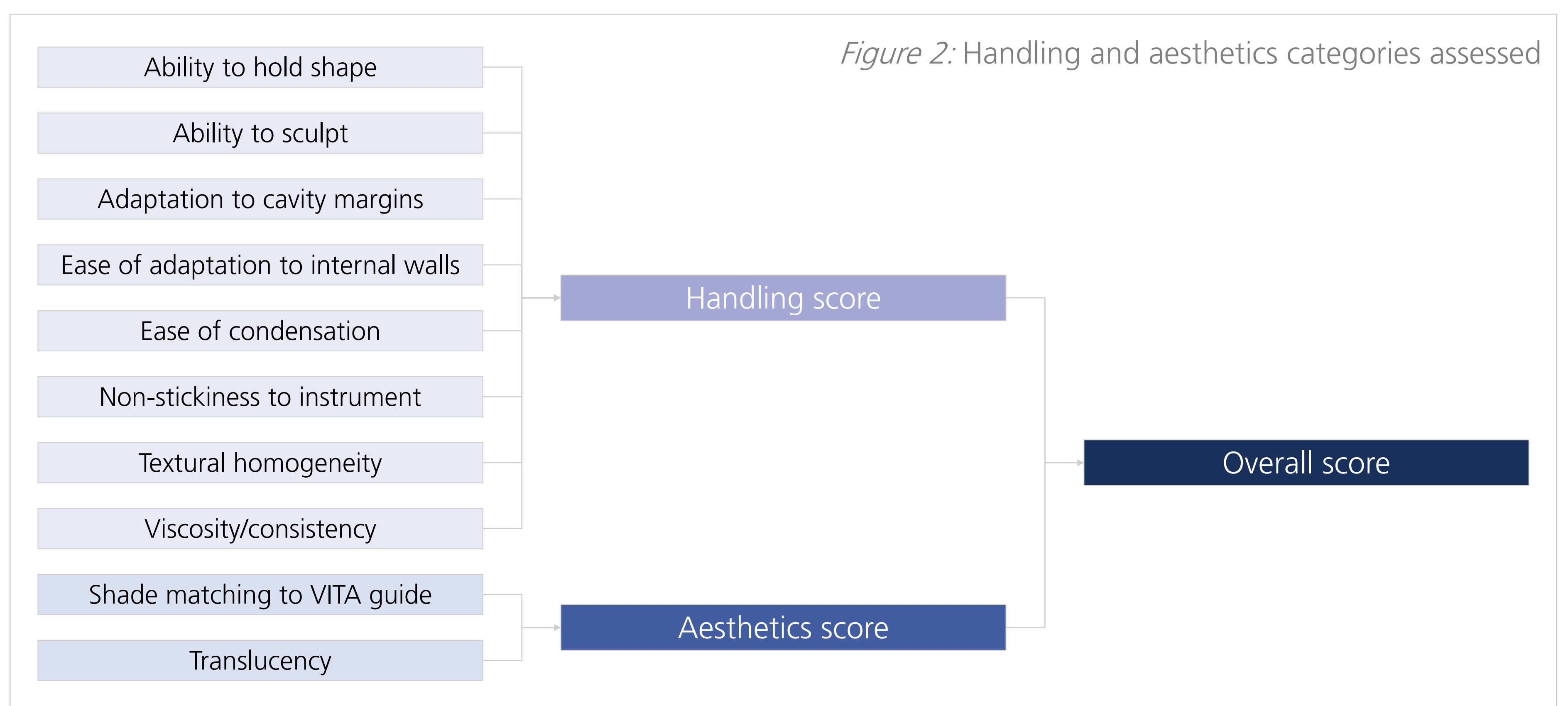


EXPERIMENTAL METHODS

Table 1: Products evaluated

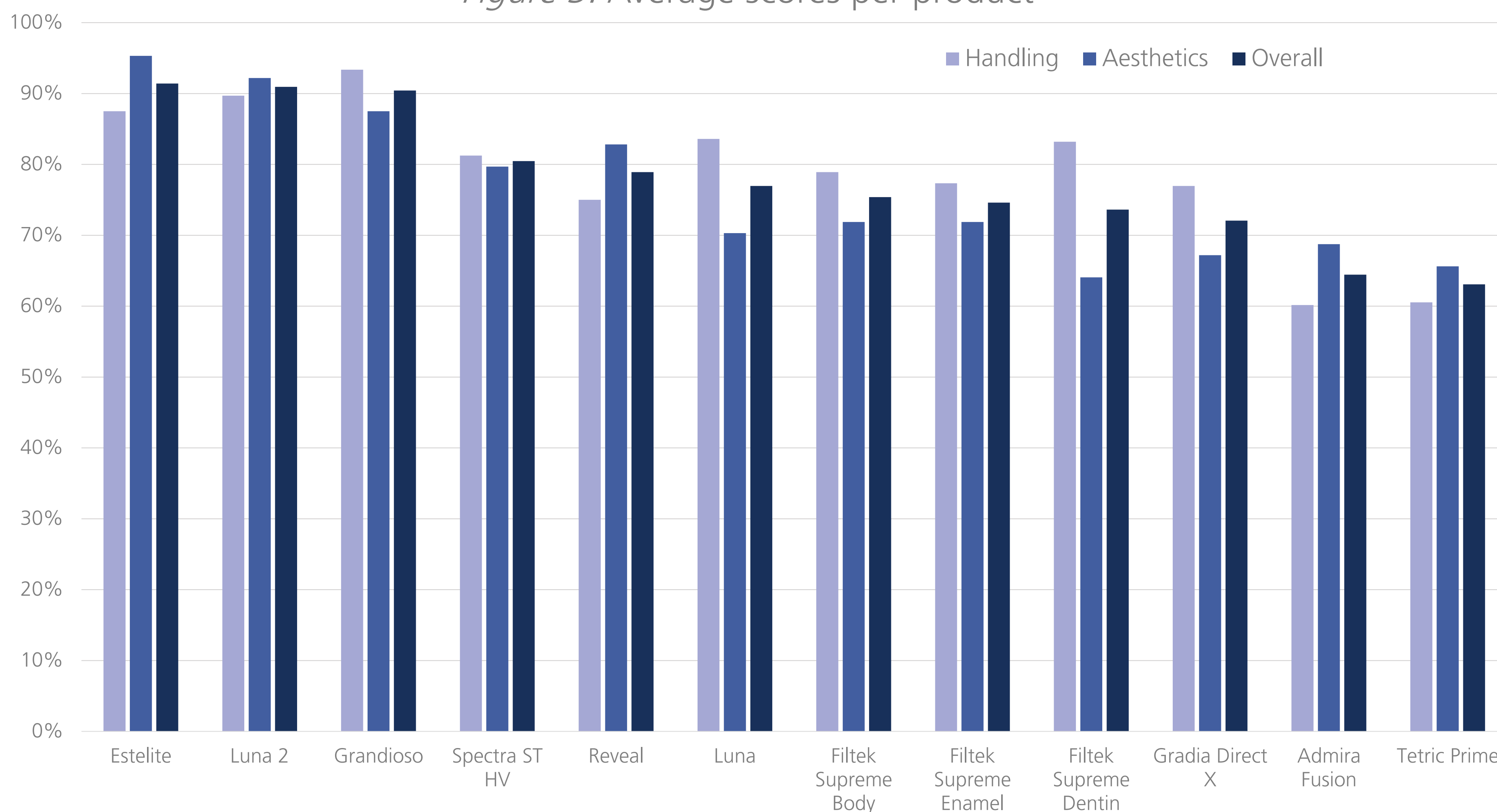
Manufacturer	3M			BISCO	Dentsply	GC Dental	Ivoclar	SDI Ltd.		Tokuyama	VOCO	
	St. Paul, USA			Schaumburg, USA	Konstanz, Germany	Tokyo, Japan	Schaan, Liechtenstein	Bayswater, Australia		Tokyo, Japan	Cuxhaven, Germany	
Product	Filtek Supreme Body	Filtek Supreme Enamel	Filtek Supreme Dentin	Reveal	Spectra ST HV	Gradia Direct X	Tetric Prime	Luna 2	Luna	Estelite	Grandioso	Admira Fusion
Shade	A2	EA2	DA2	A2	A2	A3	A2	A2	A2	A1	A2	A2
Image												

Twelve universal composite products from 8 dental manufacturers (Table 1) were assessed in a blind bench test. Dental professionals (n=8) were asked to rate each product's handling and aesthetics (Figure 2) between 1 (poor) and 4 (excellent). Data were analysed to determine an average as a percentage of the maximum score for handling, aesthetics, and overall. Overall performance was calculated as a 50-50 weighting of the average handling and aesthetics scores.



RESULTS AND DISCUSSION

Figure 3: Average scores per product



The average handling, aesthetic and overall product scores are shown in order of descending overall score (Figure 3). Luna 2 was rated as the second highest scoring product in both handling (89.7%) and aesthetics (92.2%), and overall (90.9%).

Luna 2 scored highest of all tested composite products in "non-stickiness to instrument" (93.8%) and "shade matching to VITA guide" (96.9%). In all other categories, Luna 2 was ranked within the top 3 products.

CONCLUSION

Luna 2 was rated second overall and scored highest in "non-stickiness to instrument" and "shade matching to VITA guide" categories. This demonstrates the consistently high performance of Luna 2 in multiple aspects of handling and aesthetics compared to market-leading universal composite restorative materials.