

***„For my patients
who need
eXtra care!“***



A new vision

For better dentistry

DENTSPLY

New challenges

New patient profile

- **Demographic changes**
- **Socio-economic changes**
- **Changing nutritional habits**

Specific treatment challenges

- **Prevention**
- **Nutrition advice**
- **Course of treatment**
- **Special requirements of filling materials***

* There is a need for Extra Care. Fluoride releasing and buffering glass fillers are an established and interesting approach...
Prof. Dr. Michael J. Noack, Quintessenz 2006;57(5):459

Patients, who need eXtra care



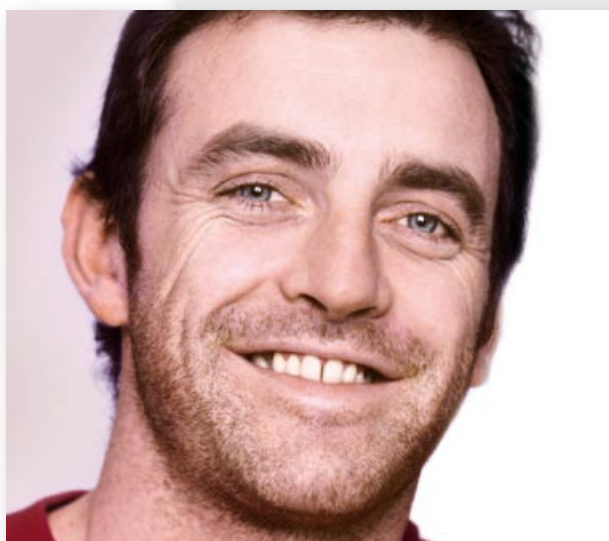
Children



Teenagers

***“20% of all patients account for
80% of caries treatment!”***

(Drury et al., J Dent Res 1996)



Adults with high risk of caries



Elderly patients

01 Children



■ Parents with high expectations

- ☐ Low compliance
- ☐ Isthmus fracture risk
- ☐ Oral hygiene
- ☐ Nutrition causing caries



Longevity of occlusally-stressed restorations in posterior primary teeth

Type of restoration	Annual failure rate (%)
Amalgam	0 - 35.3
GIC ART	2 - 29.1
GIC conv.	0 - 25.8
Composite	0 - 15
Steel-Crown	0 - 14
Compomer	0 - 11

Hickel R et al. (2005). Longevity of occlusally-stressed restorations in posterior primary teeth. Am J Dent 18:3;198-211.

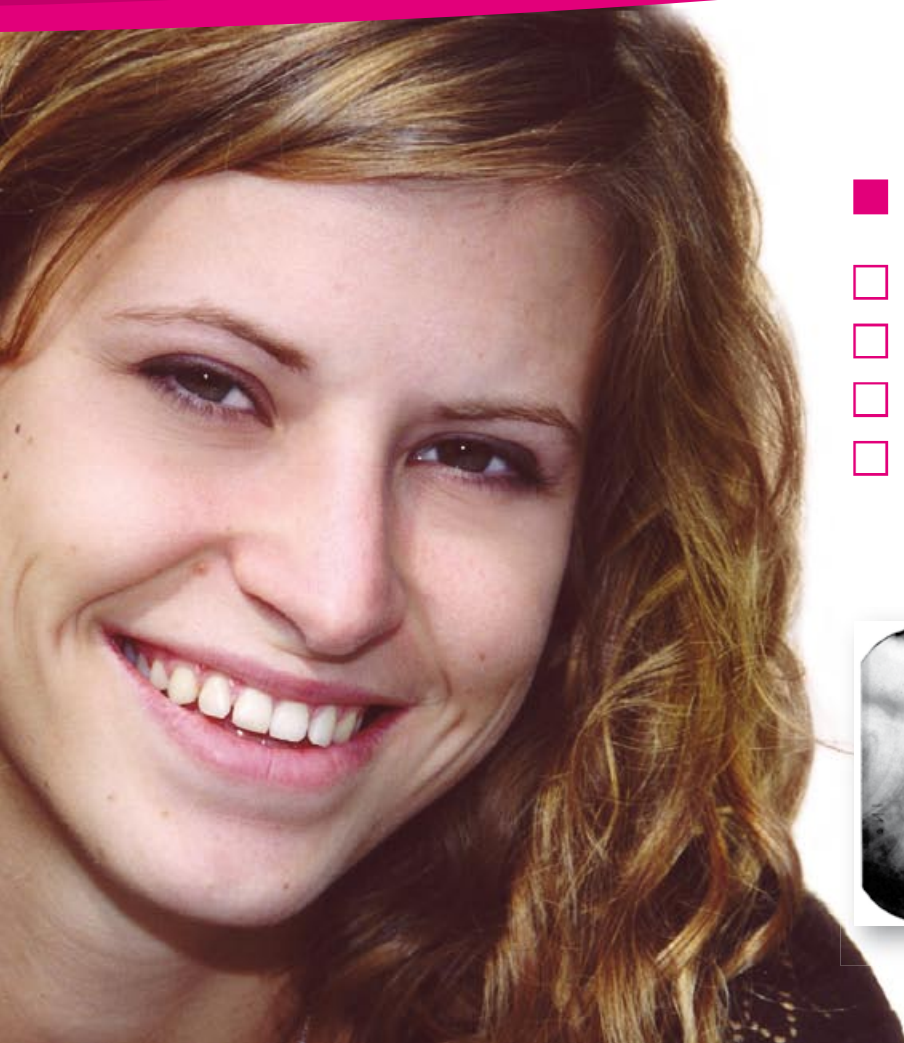
Prof. Dr. Norbert Krämer

University of Erlangen

"The latest findings indicate that over 50% of 6 year-olds have untreated carious deciduous teeth. The success rate of compomers in treating the primary dentition means that they can be effectively used to considerably improve the standard of oral hygiene in children and for the early treatment of carious lesions."

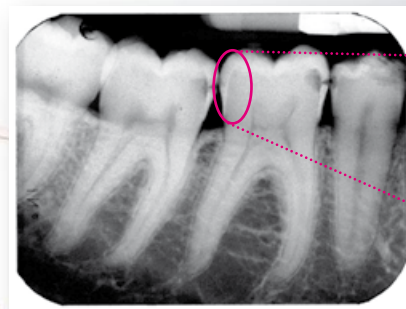
DZW (dental weekly journal, Germany, week 26, 2005)

02 Teenagers

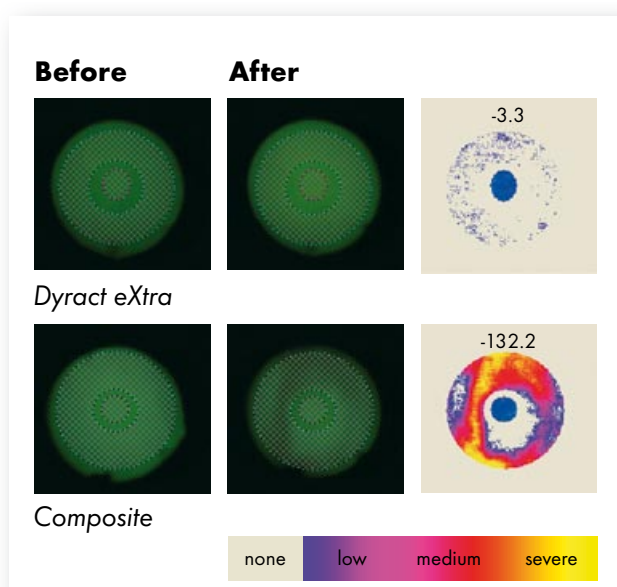


■ Multiple primary lesions

- ☐ Secondary caries
- ☐ Aesthetic requirements
- ☐ Oral hygiene
- ☐ Nutrition causing caries



Caries preventing effect for approximal contacts demonstrated



Prof. Dr. Thomas Attin

University of Zurich

"During the study we observed significantly greater caries formation on opposing surfaces - i.e. on the simulated approximal surfaces of adjacent teeth - with the non-fluoride releasing filling materials than with Dyract® eXtra. (...) The effect we observed was especially prevalent in subjects with higher caries activity. It would be logical therefore if I as a dentist treated high risk caries patients with fillings from fluoride releasing filling materials."

DZW (dental weekly journal, Germany, week 36, 2007)

03 Adults with high risk of caries

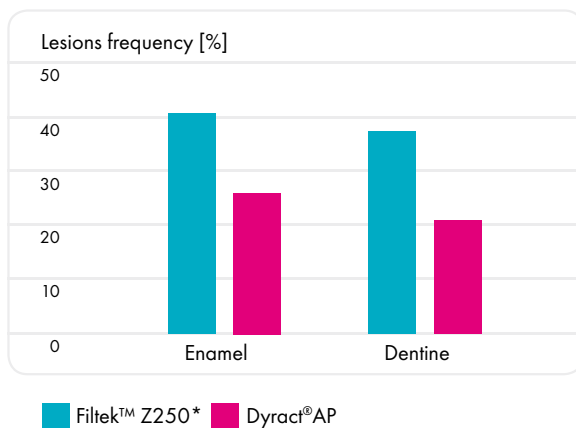


■ Multiple lesions

- Secondary caries
- Oral hygiene
- Nutrition causing caries



Reduction of secondary caries



Hicks J et. al., Compomer materials and secondary caries formations, Am J Dent, 2000

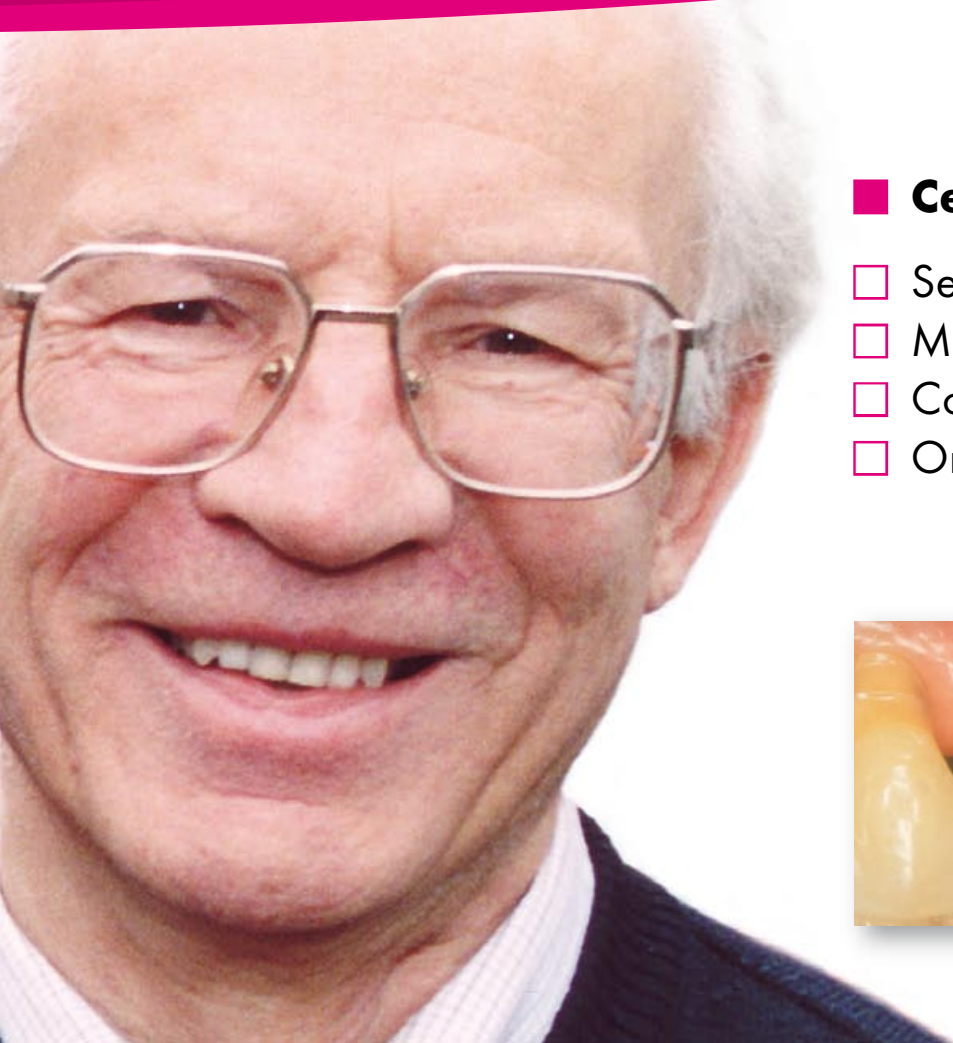
Prof. Dr. Thomas Attin

University of Zurich

"Dentists have made compomers an established material in their practice: they required a basic filling material that was not silver but still protected against caries to the same extent as glass ionomers and at the same time, was much more stable than these cements."

DZW (dental weekly journal, Germany, week 24, 2005)

04 Elderly patients

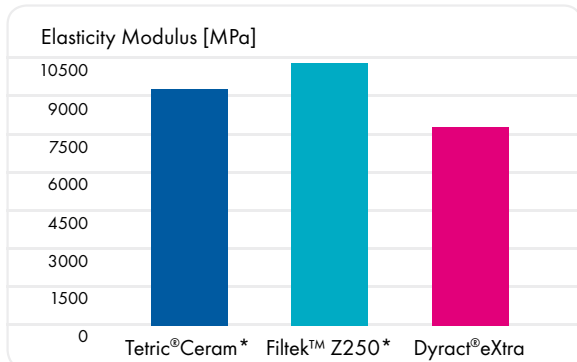


■ Cervical lesions

- ☐ Secondary caries
- ☐ Mouth dryness
- ☐ Compromised general health
- ☐ Oral hygiene



Appropriate flexibility due to low E-Modulus



(Data on file)

Prof. Dr. R. Hickel/PD Dr. Dr. M. Folwaczny
University of Munich

"For the treatment of carious and non-carious cervical lesions, compomers revealed the best clinical results."

Operative Dentistry Supplement 6, 2001, 177-190

* Tetric Ceram® (Ivoclar Vivadent) and Filtek™ Z250 (3M ESPE) are not registered trademarks of DENTSPLY International, Inc.

	Especially important for ...				Results from ...		
	Children	Teenagers	Adults with high risk of caries	Elderly patients	Glass Ionomers	Composites	Dyract eXtra
Long term Fluoride release + Buffer capacity	✓	✓	✓	✓	+	-	+
Longevity	✓	✓	✓	✓	-	+	+
Aesthetic		✓	✓		-	+	○
Material flexibility due to a low E-Modulus				✓	-	-	+
Xerostomia (Mouth dryness)				✓	-	+	+
Time-saving treatment	✓			✓	+	-	+



DENTSPLY DeTrey GmbH
 De-Trey-Str. 1
 78467 Konstanz
 GERMANY
www.dentsply.de/extracare
 Phone +49 (0) 75 31 5 83-0

DENTSPLY Limited
 Hamm Moor Lane
 Addlestone, Weybridge
 Surrey KT15 2SE
 UNITED KINGDOM
 Phone +44 (0) 19 32 85 34 22 (Restorative)

For better dentistry

DENTSPLY