

Caries experience and care in Germany: results of the 6th German Oral Health Study (DMS • 6). Online Appendix

AUTHORS

Prof. Dr. A. Rainer Jordan, Institut der Deutschen Zahnärzte (IDZ)
 Prof. Dr. Hendrik Meyer-Lueckel, University of Bern
 Dr. Kathrin Kuhr, Institut der Deutschen Zahnärzte (IDZ)
 Dominic Sasunna, Institut der Deutschen Zahnärzte (IDZ)
 Prof. Dr. Katrin Bekes, Medical University of Vienna
 Prof. Dr. Ulrich Schiffner, University Medical Center Hamburg- Eppendorf (UKE)

ABSTRACT

Objectives: One goal of the 6th German Oral Health Study (DMS • 6) was to survey the caries experience and care for caries in a representative cross-sectional study across Germany.

Method and materials: Using almost the same methodology as the previous studies DMS III (1997) to V (2014), data were collected on caries experience (including dmft/DMFT, root caries) in the three standard World Health Organization age groups (12-year-olds, 35- to 44-year-olds, and 65- to 74-year-olds) as well as among 8- and 9-year-olds.

Results: The caries experience expressed as dmft/DMFT in 8- and 9-year-olds was 1.4 teeth, 59.9% were caries-free; the DMFT among 12-year-olds was 0.5 teeth, with 77.6% caries-free. There was a significant decrease in caries-related restorations among 35- to 44-year-olds, with DMFT being 8.3 teeth. The group of 65- to 74-year-olds had a DMFT of 17.6 teeth, which was mainly due to higher tooth retention; 5.0% were edentulous. The prevalence of root caries was 13.8% among 35- to 44-year-olds and 59.1% among 65- to 74-year-olds.

Conclusions: The various oral health measures taken over recent decades seem to continue to have a positive impact in terms of reduced caries experience. Nevertheless, it appears that the maximum has been reached among 12-year-olds; however, within this group there continues to be a strong polarization of dental caries in adolescents from families with a low education status and a comparatively high treatment need for the primary teeth. The social gradient in tooth decay and tooth loss extends over the entire life span. The DMS • 6 study, being representative of the oral epidemiology of the population, shows the sustainability of successful prevention measures for caries in all age groups and education groups in Germany. At the same time, social inequalities persist. From a socio-medical perspective, it would make sense to align future prevention strategies specifically to the lifeworld of groups and communities that have not yet been reached.

KEYWORDS: cross-sectional studies, deciduous tooth, dental care, dental caries, dentists, DMS 6, root caries

Table of contents

Table A1.1: Caries experience and care in younger children (8- and 9-year-olds), by gender and education group 3

Table A1.2: Caries experience in primary and permanent teeth in younger children (8- and 9-year-olds)..... 4

Authors 5

Impressum 6

Appendix 1

Table A1.1: Caries experience and care in younger children (8- and 9-year-olds), by gender and education group

	Gender		Education group		
	Male	Female	Low	Medium	High
No. of participants (n)	365	327	54	352	282
Caries-free (prevalence, dmft/DMFT = 0)	57.0% (51.8; 62.0)	62.9% (57.7; 67.9)	41.2% (31.7; 51.9)	59.5% (53.9; 64.8)	66.2% (60.4; 71.2)
dmft/DMFT	1.6 (1.3; 1.9)	1.2 (0.9; 1.4)	2.4 (1.8; 3.1)	1.6 (1.3; 1.9)	0.8 (0.6; 1.0)
dt/DT	0.4 (0.2; 0.5)	0.3 (0.2; 0.5)	0.4 (0.2; 0.6)	0.5 (0.3; 0.7)	0.2 (0.1; 0.2)
mt/MT	0.3 (0.2; 0.5)	0.2 (0.1; 0.2)	0.8 (0.5; 1.1)	0.2 (0.1; 0.3)	0.1 (0.0; 0.1)
ft/FT	0.9 (0.7; 1.1)	0.7 (0.5; 0.8)	1.3 (0.9; 1.6)	0.9 (0.7; 1.0)	0.5 (0.4; 0.7)
Degree of restoration of coronal caries (%)	72.2 (65.6; 78.8)	70.8 (63.9; 77.7)	80.5 (70.6; 90.3)	67.9 (60.9; 75.0)	71.1 (62.5; 79.6)
Primary teeth crowns (prevalence)	3.2% (1.6; 5.3)	2.3% (1.1; 4.4)	3.7% (1.0; 8.7)	3.8% (2.1; 6.4)	1.4% (0.5; 3.2)
Number of primary teeth crowns, if ≥ 1 primary tooth crown	1.4 (1.0; 1.7)	1.5 (0.3; 2.6)	1.0 (1.0; 1.0)	1.5 (1.0; 2.1)	1.4 (0.0; 3.9)

Data are presented as unweighted numbers (n) and weighted percentages or weighted means (with 95% confidence intervals) for younger children with valid information on dmft/DMFT. Indexes written in lowercase letters refer to the primary dentition.

DMFT, decayed, missing, filled teeth; DT, decayed teeth; FT, filled teeth; MT, missing teeth.

Table A1.2: Caries experience in primary and permanent teeth in younger children (8- and 9-year-olds)

	8- and 9-year-olds
No. of participants (n)	692
Primary dentition	
dmft	1.3 (1.1; 1.4)
dt	0.3 (0.3; 0.4)
mt	0.2 (0.2; 0.3)
ft	0.7 (0.6; 0.8)
dmfs	3.0 (2.6; 3.5)
ds	0.6 (0.4; 0.8)
ms	1.2 (0.8; 1.5)
fs	1.2 (1.0; 1.5)
Permanent dentition	
DMFT	0.1 (0.1; 0.2)
DT	0.0 (0.0; 0.0)
MT	0.0 (0.0; 0.0)
FT	0.1 (0.1; 0.1)
DMFS	0.2 (0.1; 0.3)
DS	0.0 (0.0; 0.0)
MS	0.1 (0.0; 0.1)
FS	0.1 (0.1; 0.2)
Whole dentition	
dmft/DMFT	1.4 (1.2; 1.6)
dt/DT	0.4 (0.3; 0.4)
mt/MT	0.3 (0.2; 0.3)
ft/FT	0.8 (0.7; 0.9)
dmfs/DMFS	3.2 (2.7; 3.7)
ds/DS	0.6 (0.4; 0.8)
ms/MS	1.2 (0.9; 1.6)
fs/FS	1.3 (1.1; 1.6)

Data are presented as unweighted numbers (n) and weighted means (with 95% confidence intervals). Indexes written in lowercase letters refer to the primary dentition. Permanent dentition refers to 24 teeth (2 molars excluded). DMFS, decayed, missing, filled tooth surfaces; DMFT, decayed, missing, filled teeth; DS, decayed tooth surfaces; FS, filled tooth surfaces; MS, missing tooth surfaces; DT, decayed teeth; FT, filled teeth; MT, missing teeth.

AUTHORS

Prof. Dr. med. dent. A. Rainer Jordan, MSc

Institut der Deutschen Zahnärzte (IDZ), Cologne,
Germany

Prof. Dr. med. dent. Hendrik Meyer-Lueckel, MPH

Department for Operative, Preventive and
Pediatric Dentistry, Executive Director of the zmk
bern (Dental School of Bern), University of Bern,
Bern, Switzerland

Dr. rer. medic. Kathrin Kuhr

Institut der Deutschen Zahnärzte (IDZ), Cologne,
Germany

Dominic Sasunna

Institut der Deutschen Zahnärzte (IDZ), Cologne,
Germany

Prof. Dr. med. dent. Katrin Bekes, MME

Department of Paediatric Dentistry, University
Clinic of Dentistry, Medical University of Vienna,
Vienna, Austria

Prof. Dr. med. dent. Ulrich Schiffner

Department of Periodontics, Preventive and
Restorative Dentistry, Center for Dental and Oral
Medicine, University Medical Center Hamburg-
Eppendorf, Hamburg, Germany

CITATION

Jordan, A. R., Meyer-Lückel, H., Kuhr, K., Sasunna, D., Bekes, K., Schiffner, U.: Caries experience and care in Germany: results of the 6th German Oral Health Study (DMS • 6). Online Appendix. Zahnmed Forsch Versorg 2025, 5: 4, <http://dx.doi.org/10.23786/2025-5-4>

PUBLICATION DATE

17.03.2025

IMPRESSUM

ZAHNMEDIZIN, FORSCHUNG UND VERSORGUNG

Das Online-Journal des Instituts der Deutschen Zahnärzte (IDZ)



ISSN

0931-9816

PUBLISHER

Institute of German Dentists (Institut der Deutschen Zahnärzte (IDZ)),

Universitätsstraße 73, 50931 Cologne

Funded by

German Dental Association (Bundeszahnärztekammer – Arbeitsgemeinschaft der deutschen Zahnärztekammern e. V. (BZÄK))

and National Association of Statutory Health Insurance Dentists (Kassenzahnärztliche Bundesvereinigung K. d. ö. R.)

EDITORIAL OFFICE

Prof. Dr. A. Rainer Jordan

Institute of German Dentists

Universitätsstraße 73

50931 Cologne

Phone: +49 221 4001-142

Fax: +49 221 4001-152

Web: www.idz.institute

E-Mail: dms6@idz.institute