

Kariesepidemiologi

*Karies - et
samfunnshelseproblem?*

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Hvilken betydning har
karies i et
samfunnshelseperspektiv?

Hvilken betydning har
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samfunnshelseperspektiv?

Norge ??!!

Hvilken betydning har
karies i et
samfunnshelseperspektiv?

■ WHO - World Health
Organization



Home Page

WHO Oral Health Country/Area Profile Programme

Department of Noncommunicable Diseases Surveillance/Oral Health

WHO Collaborating Centre, Faculty of Odontology, Malmö, Sweden

· The objective of CAPP - the WHO Oral Health Country/Area Profile Programme -
is to present global information on dental diseases and oral health services ·

About & Help

- [About CAPP and Supporting Partners](#)
- [Help and Practical Hints to Navigate CAPP](#)
- [Methods and Indices](#)

Main CAPP pages

- [Oral Health Profiles for Countries Listed in Alphabetical Order](#)
- [Oral Health Profiles for Countries Listed According to WHO Regions](#)
- [Significant Caries Index](#) (selected countries)
- [Tobacco & Oral diseases](#)
- [Information on Oral Diseases](#)
- [Periodontal Conditions \(Japan Server\)](#)

Links

- [WHO HQ Geneva](#)
- [WHO Oral Health Programme \(ORH\) Geneva](#)
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Projects & Reports

- [WHO Global Projects on](#)


Messages

- [Messages and News Related to](#)

Hvilken betydning har
karies i et
samfunnshelseperspektiv?

- WHO - World Health Organization
- Verdensbanken

Verdensbanken – global helse; fremtidsprosjeksjoner

THE WORLD BANK GROUP A World Free of Poverty  HOME

HNPStats

Human Development Network **Development Data Group**

HNPStats includes the following tables:

- [HNP At A Glance](#)
- [Data - comparative tables](#)
- [Demographic projections](#)
- [Lending data](#)
- [HNP-Poverty Data](#)
- [HNP Portfolio](#)

Burden of disease

- [DALYS](#)
- [Deaths](#)


Time Series Data

- [Data - query](#)

HNP Stats, short for Health, Nutrition, and Population Statistics, is a component of the Knowledge Management System of the World Bank's Human Development Network. HNP Stats offers country data sheets showing summary indicators for health status, health determinants, and health finance.



HEALTH, NUTRITION, AND POPULATION
THE WORLD BANK

You need MS Excel 97 or Excel Viewer to view and/or save the Excel files. If you do not have MS Excel 97, you can click this  to download Excel Viewer.

[HNP Home Page](#) | [Education](#) | [Social Protection](#) | [Development Data Group](#)

JavaScript error: Type 'javascript:' into Location for details


Verdensbanken – global helse; fremtidsprosjeksjoner

DALYS - the disability-adjusted life-year.

Makes it possible to estimate the burden of major diseases, injuries, and risk factors.

Hvilken betydning har karies i et samfunnshelseperspektiv?

- WHO - World Health Organization
- Verdensbankens helse, kost og
populasjonsstatistikk
- FDI - Federation Dentaire International

The FDI Organisation	FDI World Dental Press		Global Dental Aid & Aid Organization	The Dental Industry
FDI Members & Association Partners	FDI Congress and Education & Dental Events Calendar		Global Dental Information	Professional Resources

FDI World Dental Federation

Site search, professional resources

[Professional Resour](#)

[Guidelines database](#)

[Dental journals on WWW](#)

[Continuing education courses](#)

[Inquiries - Dental Science](#)

[Emerging technologies](#)

epidemiology_research

Year	Original title	Type	Country	Source	Publish	Authors	http	ISDN	topic
2001	Methodische Empfehlungen und Forschungsbedarf in der oralen Epidemiologi. [Recommended methodology and research needs in oral epidemiology]	Review/Guidelines	Germany/Deutschland	DGZMK, Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde. Arbeitskreises Epidemiologie und Public Health in der DGZMK	Dtsch Zahnärztl Z 2001; 56: 403-14				epidemiology standards
2001	Index system for caries epidemiology and treatment	ongoing project	International	FDI Commission project 99-06	Project in progress	Reich E	Project details		caries-pub epidemiology
2000	Oral Health in America: A Report of the Surgeon General	Review	USA	NIH, National Institutes of Health	NIH Publication No 00-4713	Satcher D	Surgeon General		epidemiology fluoride caries-pub tobacco cancer perio-pub
1999	Definitionen wichtiger und häufig gebrauchter Begriffe [Definitions of important and commonly used terms]	Guidelines	Germany/Deutschland	DGZMK, Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde		Peters S, Geurtsen W	DGZMK, Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde		evidence
1997	Evidence-Based Dental Care	Statement	USA	American Public Health Association			American Public Health Association		evidence
1997	Ethnicity, aging, and oral health outcomes: findings from the ICS-II USA research locations	Proceedings	International	IADR, International Association for Dental Research	Adv Dent Res 1997; 11: 200-300	Andersen RM, Davidson PL	IADR		gerodontics access epidemiology
1997	Oral Health Surveys: Basic methods. 4th edition (replace 3rd ed. 1987)	Guidelines	International	WHO, World Health Organisation	Geneva: WHO		Contact: WHO	9241544937	epidemiology standards
1996	Epidemiologische Studien [Epidemiological studies]	Guidelines/Statement	Germany/Deutschland	DGZMK, Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde. Arbeitskreises Epidemiologie und Public Health in der DGZMK		Reich E	DGZMK, Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde		epidemiology standards
1996	Position paper: epidemiology of periodontal disease	Review	USA	American Academy of Periodontology, Research, science and therapy committee	J Periodontol 1996; 67: 935-45				periodontics epidemiology

Hvilke trender kan observeres internasjonalt?

- ✓ Flere fattige enn rike har karies
- ✓ Flere fattige enn rike har ubehandlet karies
- ✓ Barn med ubehandlet karies er relatert til familieøkonomi og til etnisk gruppe
- ✓ Karies er redusert i den vestlige verden og sterkt økende i de fleste andre land
- ✓ Sammenheng mellom kariesprevalens i befolkningen og hvordan tannpleiesystemet er organisert nasjonalt er usikker

Hvilken betydning har
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“Dental caries is one of the most
common diseases among 5- to 17- year
olds*”

Caries	59%
Asthma	11%
Hay fever	8%
Chronic bronchitis	4%

*The Surgeon General. *Oral Health in America*, 1999 p87.

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- FDI - Federation Dentaire International

USA:

- CDC - Center for Disease Control

Center for Disease Control

Oral Health Resources - Microsoft Internet Explorer

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National Center for Chronic Disease Prevention and Health Promotion
Oral Health Resources
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Oral Health RESOURCES

ORAL HEALTH RESOURCES

Browse by Topic

- [Adults](#)
- [Children](#)
- [Infection Control](#)
- [Water Fluoridation](#)
- [More ...](#)

Resource Library


- [Fact Sheets](#)
- [Journal Articles](#)
- [MMWRs](#)
- [Press Releases](#)
- [More ...](#)

Guidelines and Recommendations
For clinicians and public health professionals


Data Systems


- [MWF](#)
- [NOHSS](#)
- [Oral Health Maps](#)
- [Synopsis](#)
- [WFRS](#)
Login Required


State-by-State Reports
Cooperative agreements and initiatives by state

Expanded State Information
[State-by-State Reports](#)
including new information on [Oral Health Plans](#), [Cooperative Agreement Recipients](#), and other state-based initiatives. 


See [My Water's Fluoride](#) and [Oral Health Maps](#) for up-to-date information on the fluoride content of water in 19 participating states. More data available in [Data Systems](#).

Infrastructure Development Tools
[Oral Health Infrastructure Development Tools](#) and [Appendices for Program Announcement 03022](#). 


Device Evaluation Forms
See the new [Sample Screening and Device Evaluation Forms](#) for safer dental devices. 

Brush Up on Healthy Teeth
A health education campaign including a [Brush Up Quiz for Parents](#), [Tip Sheet](#), and [Poster](#). 


PRESS RELEASE

10/30/02 
[CDC Web Site Now Provides Information on Community Water Fluoridation](#)
Two new data systems go online.
More [press releases](#).

PRESS RELEASE

9/23/02 
[Needlestick Prevention Resource Shares Lessons Learned](#)
Information for protecting employees from the risk of job-related needlesticks.
More [press releases](#).

PRESS RELEASE

8/26/02 
[Task Force Releases Recommendations](#)
Dental sealant programs and water fluoridation are strongly recommended.

Internet

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- WHO - World Health Organization
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- FDI - Federation Dentaire International

USA:

- CDC - Center for Disease Control
- NIDCR - National Institute of Dental & Craniofacial Research

NIDCR National Institute of Dental and Craniofacial Research

Improving the Nation's Oral Health

NATIONAL INSTITUTES OF HEALTH

Health Information | Research | Funding | News & Reports | Clinical Trials | About NIDCR

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- [Oral Health Information Index](#)
- [Order Publications](#)
- [Finding Dental Care](#)
- [NOHIC: Special Care Resources](#)
- [Kids and Teachers](#)
- [Statistics and Data](#)
- [Other Resources](#)

Clinical Trials

- [Understanding Clinical Trials](#)
- [NIDCR Studies Seeking Patients](#)
- [Other NIH Studies](#)
- [Clinical Trials Education Tools](#)
- [Information for Investigators](#)

News & Reports

- [Press Releases](#)
- [Media: The Inside Scoop](#)
- [E-Newsletter](#)
- [Research Digest](#)
- [Calendar of Events](#)
- [Reports](#)

Funding for Research and Training

- [Funding Announcements](#)
- [Funding Mechanisms](#)
- [Research Supplements](#)
- [Grant Application and Review Process](#)
- [Clinical Trials](#)
- [Training](#)
- [Funding to U.S. Schools](#)

Research

- [Long Range Research Opportunities](#)
- [Research Sponsored by NIDCR](#)
- [Research Conducted at NIDCR](#)
- [International Activities](#)
- [Technology Transfer](#)
- [Research Resources](#)

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- [Mission Statement](#)
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- [Council and Committees](#)
- [Organization](#)
- [Staff Directory](#)
- [Job Openings](#)

Highlights

- [First National Conference on Dentistry's Role in Bioterrorism](#)
- [First Meeting of Salivary Diagnostics Group](#)
- [NIDCR/CDC Dental, Oral and Craniofacial Data Resource Center](#)
- [Long-Range Research Opportunities](#)
- [Oral Health in America: Report of the Surgeon General](#)
- [Health Disparities](#)

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Image in banner: magnified fluoride crystal

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Samfunnsøkonomisk gevinst

Forebyggelsen av tannhelsesykdom har resultert i en estimert akkumulert samfunnsgevinst på ca. 360 milliarder norske kroner i løpet av de siste 40 årene i USA.

National Institute of Dental & Craniofacial Research, Natl. Inst.Health. J Dent Res 2000; 79: 893-904.


NIH: Consensus Development Conference on Diagnosis and Management of Dental Caries Throughout Life

UM Library: NIH: Consensus Development Conference on Diagnosis and Management of Dental Caries - Microsoft Internet Explorer

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Address <http://www.lib.umich.edu/dentlib/nihcdc/agenda.html> Go Alexa Site Info Ranking: 47,690 Related Links Search Links

 **NIH CDC on Caries**
UNIVERSITY LIBRARY - Dentistry Library

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NIH: Consensus Development Conference on Diagnosis and Management of Dental Caries Throughout Life: Agenda

[Monday 3/26](#) | [Tuesday 3/27](#) | [Wednesday 3/28](#)

Monday, March 26, 2001

8:30 *Welcome and Introduction*
Dushanka V. Kleinman, D.D.S., M.Sc.D., Deputy Director, National Institute of Dental and Craniofacial Research, National Institutes of Health

Welcome and Charge to Panel
Barry Kramer, M.D. Director, Office of Medical Applications of Research, Office of Director, National Institutes of Health

Purpose of Conference/Issues
Michael C. Alfano, D.M.D., Ph.D., Panel Chair, Dean, New York University College of Dentistry

9:00 *Dental Caries in the Second Millennium* [[Abstract](#) | [Slides](#) (PDF: 258K)]
Amid I. Ismail, B.D.S., M.P.H., Dr.P.H., Professor, School of Dentistry, University of Michigan

I. Methods for Reviewing the Evidence

9:15 *Methods Employed for RTI/UNC Systematic Reviews* [[Abstract](#) | [Report Summary](#) (AHRQ) | [Full Report](#) (AHRQ)]
James Bader, D.D.S., M.P.H., Research Professor, Sheps Center for Health Services and

Done Internet

National Institutes of Health - Videosekvenser om kariologi

The screenshot shows a Microsoft Internet Explorer browser window displaying the NIH VideoCasting website. The address bar shows the URL <http://videocast.nih.gov/PastEvents.asp>. The page title is "NIH VideoCasting: Past Events". The main content area shows search results for the query "dental dentistry". The search results are as follows:

- Search Results: "dental dentistry"**
Returned 9 record(s)
- A FIBRONECTIN-FAK SIGNALING AXIS: HOW SPECIAL IS IT?**
Wednesday, April 19, 2000
Author/Sponsor: Caroline Damsky, Ph.D. Professor and Vice Chair, Department of Stomatology School of Dentistry, UCSF
Total Running Time: 00:51:10
Bandwidth: 146 Kbps
This is a work of the United States Government. No copyright exists on this material. It may be disseminated freely.
- Craniofacial Research Open Session**
Thursday, September 21, 2000
Author/Sponsor: Larry Tabak, DDS, Ph.D. National Institute of Dental and Craniofacial Research National Institutes of Health
Total Running Time: 05:17:02
Bandwidth: 33 Kbps
This is a work of the United States Government. No copyright exists on this material. It may be disseminated freely.
- FACING THE NEW MILLENNIUM**
Monday, October 10, 1999
Author/Sponsor: Sponsored by the National Institute of Dental & Craniofacial Research
Total Running Time: 04:48:31

NIH Consensus
Development Conference
on Diagnosis and
Management of Dental
Caries Throughout Life

DAG 1

DAG 2

DAG 3

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Norge ??!!

Hensikter med kariesepidemiologi

1. Studere trender i oral helse og sykdom over tid
2. Reallokering av forebyggende tiltak
3. Evaluering av programmer
4. Kartlegging av behandlingsbehov
5. Oral helse på dagsorden

Kariesepidemiologiske data i Norge gjennom 20 år

- Barn og ungdom
- Rekrutter
- Voksne
- Institusjon /eldre

Hensikter med kariesepidemiologi

1. Studere trender i oral helse og sykdom over tid
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Kariesepidemiologiske studier i Norge 1982-2002

■ Barn og ungdom

- Helsedirektoratet årsmeldinger 5, 12, 18år: 1984 - 2002
- Ole Haugejorden
- Fr Ramm von der Fehr
- Jan M Birkeland
- Nina Wang 1990-2000

1. Studere trender i oral helse og sykdom over tid
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Kariesepidemiologiske studier i Norge 1982-2002

■ Rekrutter

- Birkeland/Asmyhr/Grytten 1994

■ Voksne

- Trøndelag. 1983 (Bærum ea. Helsetilsynet)
 - 1994 (Schuller/Holst 1998 – 2001)
- Oslo. Berset/Bjertness/Eriksen/Hansen 1977 – 1992

■ Eldre

- Heløe / Holst / Rise 1984 – 1988
- Axell 2001/2002

■ Institusjon

- Ambjørnsen/Jokstad 1986-1996

Karies i Norge – vi vet at

- Karies er blitt kraftig redusert i de siste 30 årene
- Karies er fortsatt relatert til geografi og levekår – det eksisterer ulike risikogrupper
 - » Immigrantbakgrunn, utdanningsnivå, leskedrikk, sukkerinntak,
- Mest vanlig er fissurkaries;
 - glattflate- og fortannskaries er nesten borte;
 - sekundærkaries er en viktig faktor

Hvordan manipulere med tall?

- Antall tenner ekstrahert pga karies e.g. pr 100 barn
- DMFTsekundærkaries?
- Antall fyllte tannflater (FS)
- Flater fylt per individ per år
- Andel barn/individer uten kaviteter
- dmft
- Kalibrering og diagnostikk??!!

Kariesutvikling i Norge

DMFT hos 12- og 18-åringer



Karieserfaring
35- åringer i
Oslo

1963

21.6 DMFT
68.2 DMFS
48.4 FS
15.7 FT
3.2 DT
2.8 MT

1993

14.8 DMFT
40.9 DMFS
34.1 FS
13.1 FT
0.7 DT
1 MT

Eldre i institusjon

	1993	1980	P*
	n=112	n=38	
Dental treatment (DMFT)	22.9	25.7	.001
Missing teeth (MT)	16.3	20.0	.01
Filled teeth (FT)		5.1	3.6
	.16		
Decayed teeth (DT)	1.8	2.1	.35
Remaining roots (RR)	0.8	1.6	.04

* Mann-WhitneyU-test

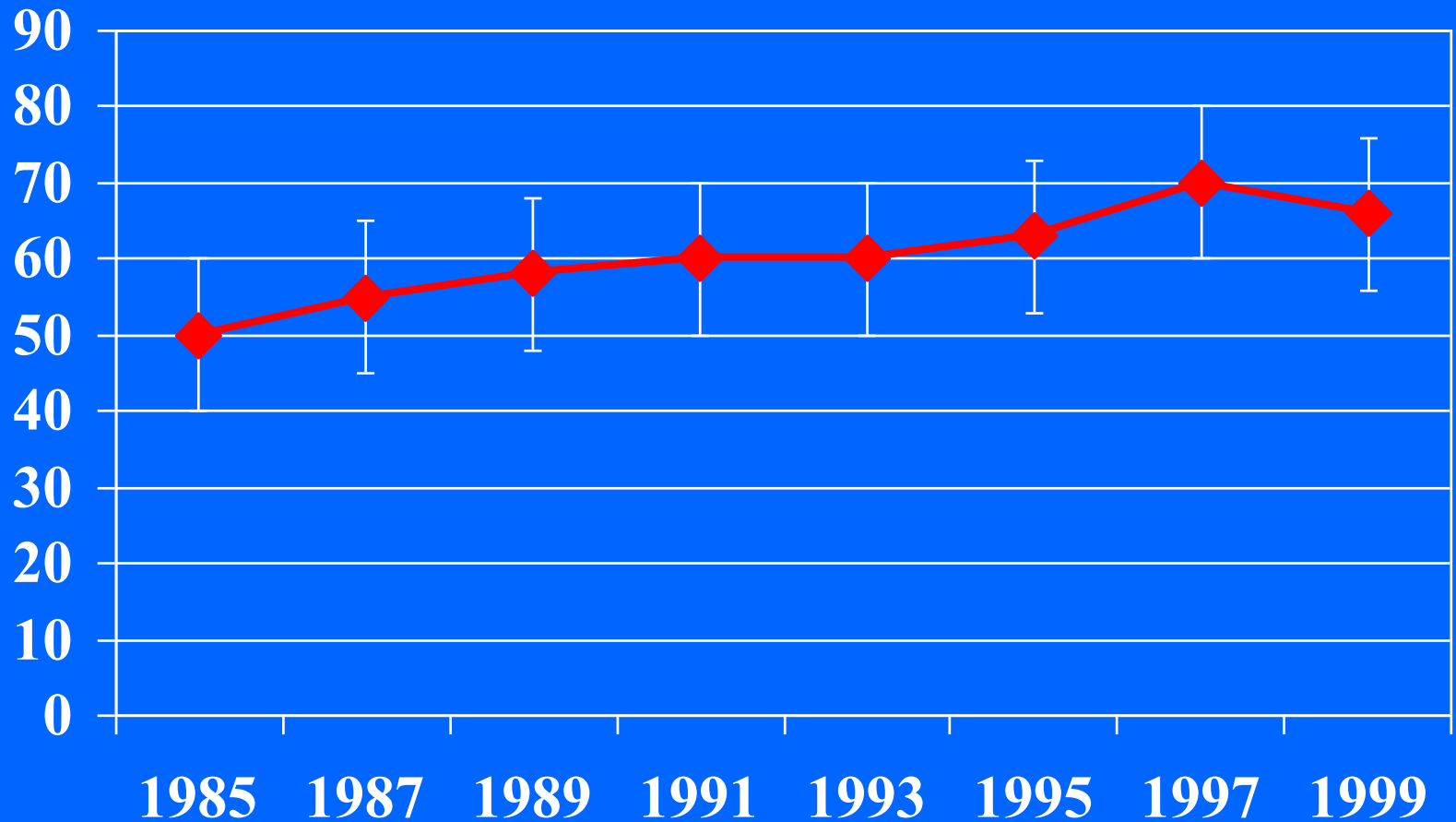
Jokstad A, Ambjørnsen E, Eide KE. Oral health in institutionalized elderly people in 1993 compared to in 1980. *Acta Odontologica Scandinavica*, 1996; 54: 303 - 308.

Hva kan avdekkes - hos enkeltindivider?

- Karies opptrer symmetrisk
- Forekomst varierer i munnhulen:
 - ukj6 > okj6 > ukj7 > okj7 ---> ukjinc
- Utviklingsmønsteret avhenger av flate
- Fordelingsmønstre er typisk (nabotenner)

Kariesutvikling i Norge

Prosentandel med dmft=0 hos 5-åringer



Karies i Norge – vi vet ikke

- Hvilke tiltak som er mest hensiktsmessig som forebyggende tiltak på populasjonsnivå
 - Program - Fluor? Kosthold? Hygiene?
 - Personell
- Hvor stort behandlingsbehovet er blant prioritert klientell
- Om karies nå er økende blant barn og ungdom