

Bittfysiologi

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BITTFYSIOLOGI

Hvordan forebygge, diagnostisere og behandle funksjonsrelaterte problemer i tyggeapparatet (dvs. det stomatognatiske system).

Omfatter lære om ortofunksjon og
dysfunksjon

Munnhulen ortofunksjoner: 1

PASSASJE - INNTAK AV SUBSTANS

- Gape +
- Fange og holde biter +
- Suge +
- Puste, inhalere damp, røyk , o.a. -



+ = protetisk behandling påvirker eller antas å kunne påvirke funksjon

Munnhulen ortofunksjoner:

PASSASJE - INNTAK AV SUBSTANS

- Gape +
- Fange og holde biter +
- Suge +
- Puste, inhalere damp, røyk , o.a. -



- Føleapparat for smak, temperatur, struktur +
- Mekanisk nedbrytning ved biting og tygging +
- Salivasmøring +
- Deteksjon fremmedlegemer/skadelige substanser +



+ = protetisk behandling påvirker eller antas å kunne påvirke funksjon

Munnhulen ortofunksjoner:3

PASSASJE - INNTAK AV SUBSTANS

- Gape +
- Fange og holde biter +
- Suge +
- Puste, inhalere damp, røyk , o.a. -
↓
- Føleapparat for smak, temperatur, struktur +
- Mekanisk nedbrytning ved biting og tygging +
- Salivasmøring +
- Deteksjon av fremmedlegemer/skadelige substanser +
↓
- Spytt -
- Mukosal absorpsjon (eg. snus) -
- Svelge +
- Kaste opp -

Munnhulen ortofunksjoner:4

NEUROFYSIOLOGISKE FUNKSJONER

- Kommunikasjon: Fonetikk, tale, synge +
- Kysse +
- Plystre +
- Sensorisk nytelse +
- Uttrykke emosjonell tilstand +
- Tannpresse +
- Gjespe -
- Nyse, hoste -

+ = protetisk behandling påvirker eller antas å kunne påvirke funksjon

Munnhulen ortofunksjoner:5

INSTRUMENTALE FUNKSJONER

- Blåse -
- Instrumentspilling +
- Transport av komponenter, væske, o.a. +

+ = protetisk behandling påvirker eller antas å kunne påvirke funksjon

The background of the slide is a dense collage of numerous small, white rectangular frames. Each frame contains a silhouette of a group of people, likely a family or a team, standing in a row. The silhouettes are black against a white background within each frame. The frames are arranged in a somewhat chaotic, overlapping pattern across the entire slide, creating a sense of a large, diverse group of people.

Dysfunksjon --→ Pasienter



Pasienter med:

1. Uttalt (patologisk) tannslitasje

- Attrisjon – erosjon – abrasjon er odontologiske kliniske termer
- Fysikalske prosesser kan forklares vha basale tribologiske mekanismer
- Aldri bare én årsak til tannslitasje - alltid multikausalt
- Utviklet mange ulike indekser





Pasienter med:

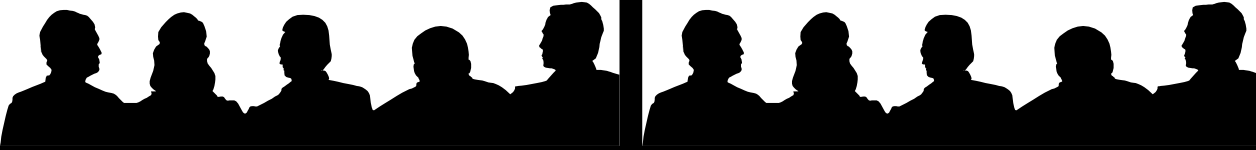
1. Uttalt tannslitasje og/eller
2. Oral dysfunksjon
 - Protetikk?
 - Kjeveortopedi?
 - Medfødt
 - Erhvervet
 - Iatrogen



Oral dysfunksjon kan også være iatrogen forårsaket ...

- (Hel)protetiske konstruksjoner
 - For høye / lave
 - Mangelfull okklusjon / artikulasjon
- Feilkonstruerte bittskinner
- Utstrakt bruk av kompositt plast okklusalt i lateralsegmentene
- Interferenser





Pasienter med:

1. Uttalt tannslitasje og/eller
2. Oral dysfunksjon og/eller
3. Begrenset / asymmetrisk kjevebevegelse
 - I befolkningen har
 - 8% (5-14%) egenrapporterte symptom
 - 7% (4-18%) detekterbare funn
 - "Closed lock" – 4% egenrapportert





Pasienter med:

1. Uttalt tannslitasje og/eller
2. Oral dysfunksjon og/eller
3. Begrenset / asymmetrisk kjevebevegelse og/eller
4. Lyder fra kjeveledd
 - I befolkningen har
 - 19% (6-48%) egenrapporterte symptom
 - 26% (9-50%) detekterbare funn
 - Subjektiv opplevelse





Pasienter med:

1. Uttalt tannslitasje og/eller
2. Oral dysfunksjon og/eller
3. Begrenset / asymmetrisk kjevebevegelse og/eller
4. Lyder fra kjeveledd og/eller
5. Smerter i tyggemuskulatur / kjeveledd
 - I befolkningen har
 - 6% (3-21%) egenrapporterte symptom
 - 4% (2-10%) detekterbare funn
 - 33% (16-64%) v/ palpering tyggemuskler
 - 14% (1-39%) v/ palpering TMJ





Pasienter med:

1. Uttalt tannslitasje og/eller
 2. Oral dysfunksjon og/eller
 3. Begrenset / asymmetrisk kjevebevegelse og/eller
 4. Lyder fra kjeveledd og/eller
 5. Smerter i tyggemuskulatur / kjeveledd
- Tinnitus?
 - Whiplash?
 - Fibromyalgi?
 - Hodepine?
 - Snorkeplager?
 - ÷ "Quality of life" pga bitt?
 - Masseter-hypertrofi?



1. Uttalt tannslitasje
og/eller

2. Oral dysfunksjon
og/eller

3. Begrenset /
asymmetrisk
kjevebevegelse og/eller

= "TMD"

4. Lyder fra kjeveledd
og/eller

(eller "TMF")

5. Smerter i
tyggemuskulatur /
kjeveledd





Ved klinisk undersøkelse finner vi:

- Palpering av tyggemuskler / kjeveledd er ømt, endog gir smerte
- Kan være begrenset/endret bevegelse av mandibula
- Leddlyder ved kondylær bevegelse
 - Krepitasjon / Klikking
- Kan være uttalt tannslitasje, men ikke vanlig





Ved samtale finner vi i tillegg ofte:

- Søvnproblemer
- Mentalt slitne
- Tensjonshodepine
- Smerter (kroniske) andre steder
- Ofte generelt belastet somatisk helse
- Psykiske problemer som depresjon og angst



Hvor mange “TMD pasienter”?



Svar: Mange!

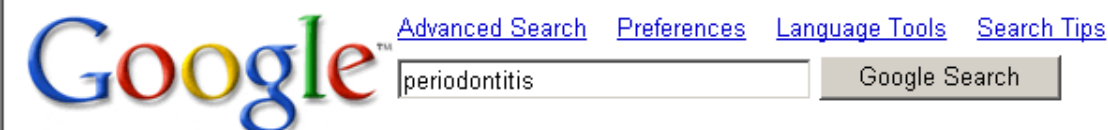
- 75% av befolkningen har >1 klinisk tegn
- 50% av befolkningen har >1 symptom
 - 1/5 kunne trenge en eller annen form for behandling
- 50% har progressive symptomer
- 1/10 av de som behandles er behandlingsresistente
- \$30 milliarder i tapt produktivitet per år
- 550 millioner tapte arbeidsdager per år
- 10 millioner pasienter “behandles” til enhver tid



Hvem vil gjerne ta
hånd om 10
millioner "TMD
pasienter"?



SVAR: Veldig
mange!



Web Images Groups Directory News

Searched the web for **periodontitis**. Results 1 - 10 of about 84,300. Search took 0.16 seconds.

Category: [Health > Dentistry > Education](#)

[MedlinePlus Medical Encyclopedia: Periodontitis](#)

Periodontitis. ... **Periodontitis** occurs when inflammation or infection of the gums (gingivitis) is untreated or treatment is delayed. ...

www.nlm.nih.gov/medlineplus/ency/article/001059.htm - 25k - 20 Feb 2004 - [Cached](#) - [Similar pages](#)

[Common Oral Problems and Prevention for Adults. Your Oral Health ...](#)

Periodontitis (aka periodontal disease, periodontal bone loss, pyorrhea) is an infection of the system of fibers (ie periodontal ligament: PDL) that hold your ...

www.aboutsmiles.org/prevh.htm - 16k - [Cached](#) - [Similar pages](#)

[Periodontitis](#)

... JumpTo: ...

www.tooth.net/info/perioidex.htm - 9k - [Cached](#) - [Similar pages](#)

[Basic Periodontology - Periodontitis](#)

Basic Periodontology. **Periodontitis**. ... Light microscopic image of a bucco-lingual section of tooth and gingiva in a dog with naturally occurring **periodontitis**. ...

oi.odont.ku.dk/basic.periodontology/periodon.html - 5k - 20 Feb 2004 - [Cached](#) - [Similar pages](#)

[Tratamiento gingivitis y periodontitis | Madrid | Tel. 91 4586876 - \[Translate this page \]](#)

Gingivitis y **periodontitis** o piorrea. ... Departamento de Periodoncia de la Clínica

Dental Potosí: Información sobre la gingivitis y la **periodontitis**. ...

Description: Información para pacientes sobre la **periodontitis** y la gingivitis.

Category: [World > Español > Salud > Enfermedades > Dentales](#)

www.periodontitis.net/ - 19k - [Cached](#) - [Similar pages](#)

Sponsored Links

[Danger of Gum Disease](#)

Don't risk tooth loss or worse. Get treated by a periodontist.

www.perio.org

Interest:

[Gum Disease Therapy](#)

Doctor recommended CoQ10 helps prevent and heal gum disease.

www.healthworks2000.com

Interest:

[Periodontitis](#)

Compare Prices at 40,000 Stores. Find the Best Deals at BizRate.com!

BizRate.com

Interest:

[See your message here...](#)



Web Images Groups Directory News

Searched the web for caries Results 1 - 10 of about 187,000. Search took 0.19 seconds.

Category: Health > Dentistry > Children

Karger Publishers

Editor(s): Shellis, RP(Bristol), Current Issue. Latest achievements in the basic science, epidemiology and prevention of dental caries Official Journal of...

content.karger.com/ProdukteDB/produkte.asp?Aktion=JournalHome&ProduktNr=224219 - Similar pages

Karger Publishers

... Color Illustrations References Page Charges Galley Proofs Reprints Electronic Submission Introduction The aim and scope of the journal 'Caries Research' is ...

content.karger.com/ProdukteDB/produkte.asp?Aktion=JournalGuidelines&ProduktNr=224219 - Similar pages

[More results from content.karger.com]

Dental Caries, UCLA School of Dentistry

This tutorial has two components: A learning program on the nature and management of dental caries. ... The nature and management of dental caries. ...

www.dent.ucla.edu/ce/caries/ - 38k - 20 Feb 2004 - Cached - Similar pages

Pediatric Oncall- DENTAL CARIES

DENTAL CARIES. ... For early treatment of dental caries, it is of utmost importance at what age the child gets his first dental checkup. ...

Description: Information on dental caries in children.

Category: Health > Dentistry > Children

www.pediatriconcall.com/forpatients/CommonChild/DentalCaries.asp - 17k - 20 Feb 2004 - Cached - Similar pages

ORCA - European Organisation for Caries Research

Constitution of ORCA:To promote research into dental caries and related matters. ... To promote research into dental caries and related matters. ...

Sponsored Links

Dental Caries?

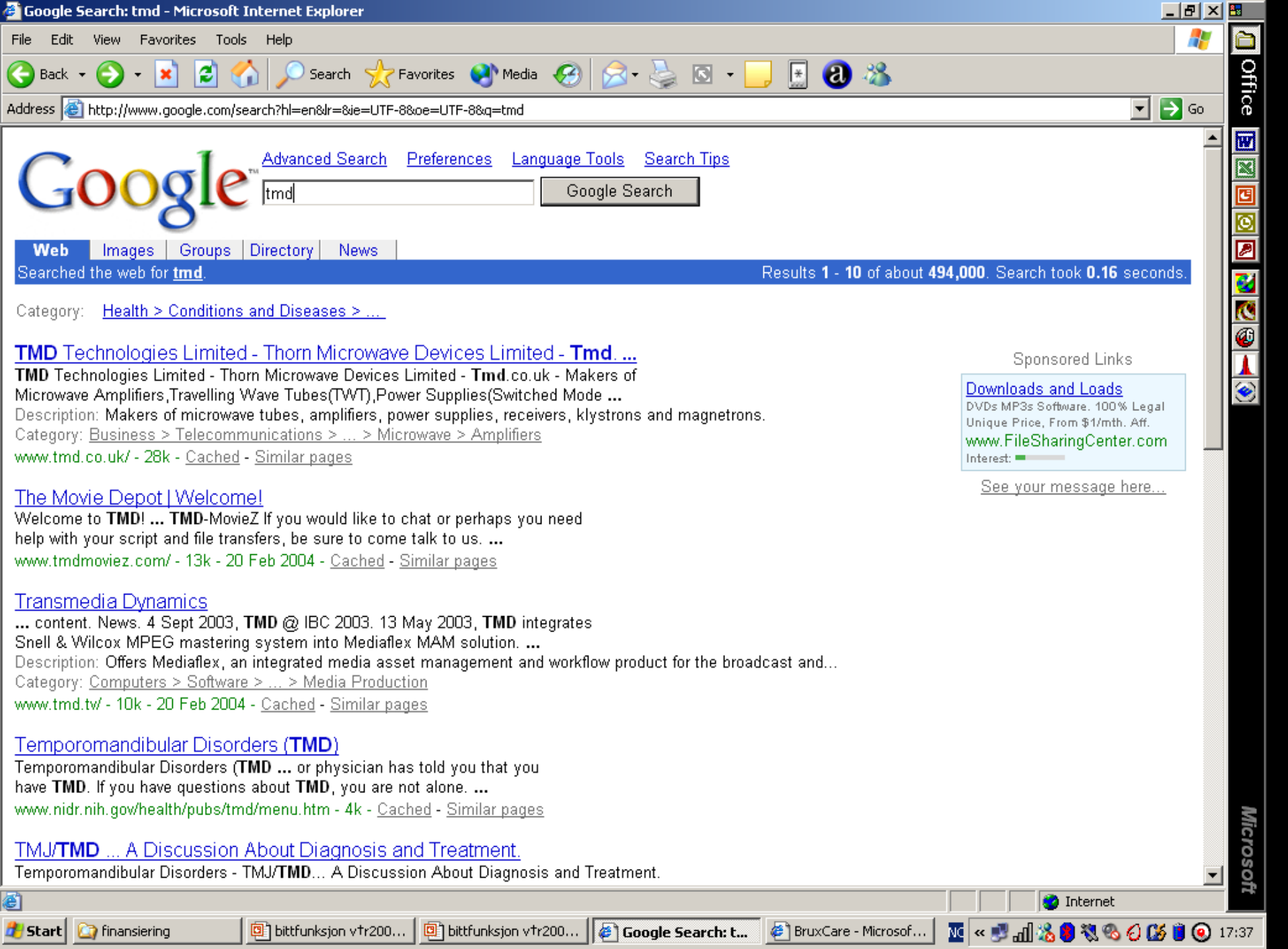
Protect against caries now with Enamel Improving Cream

www.topacal.com

Interest: [progress bar]

See your message here...







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wisdom teeth

Web [Images](#) [Groups](#) [Directory](#) [News](#)

Searched the web for **wisdom teeth**. Results 1 - 10 of about 757,000. Search took 0.18 seconds.

Category: [Health > Dentistry > Oral Surgery](#)

[Wisdom Teeth explained by a specialist maxillofacial surgeon - Mr ...](#)

Wisdom teeth: symptoms, treatment and surgery for impacted and troublesome **wisdom teeth** by a Specialist Maxillofacial Surgeon. Click here to enter site. ...

Description: Symptoms, treatment and surgery of impacted **wisdom teeth**, explained by Gary Sockett, consultant maxillofa...

Category: [Health > Dentistry > Oral Surgery](#)

[www.wisdomteeth.co.uk/](#) - 8k - [Cached](#) - [Similar pages](#)

Sponsored Links

Teeth Gap
Do you want a better looking smile?
Remove your gap for only \$19.95
[www.TeethGap.com](#)
Interest:

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[What are impacted wisdom teeth?](#)

impacted **wisdom teeth** / **wisdom teeth** extractions. ... to post extraction recovery. What are "**wisdom teeth**"? "**Wisdom teeth**" are a type ...

[www.animated-teeth.com/wisdom_teeth/t1_wisdom_tooth.htm](#) - 13k - 20 Feb 2004 - [Cached](#) - [Similar pages](#)

[bad breath, teeth whitening, dental insurance, electric ...](#)

... dental insurance, dental plans, bad breath, cosmetic dentistry, **teeth** whitening, cold sores, canker sores, root canal treatment, **wisdom teeth**, and porcelain ...

Description: Animations supporting patient information on common dental problems and procedures.

Category: [Health > Dentistry > Education](#)

[www.animated-teeth.com/](#) - 19k - 20 Feb 2004 - [Cached](#) - [Similar pages](#)

[[More results from www.animated-teeth.com](#)]

[Wisdom Teeth](#)

Wisdom teeth information. Do you really need to have them removed? If so, what you can expect. ... Advertisement. **Wisdom Teeth** Guide picks. **Wisdom teeth** information. ...

[dentistry.about.com/cs/wisdomteeth/](#) - 21k - [Cached](#) - [Similar pages](#)

[What Are Wisdom Teeth?](#)





teeth whitening Google Search

Web Images Groups Directory News

Searched the web for teeth whitening. Results 1 - 10 of about 811,000. Search took 0.23 seconds.

Teeth Whitening Kits

www.thesmileplace.co.uk Dentist supervised . Only £99.00! The Original UK Online Whitening Co

Sponsored Link

Dental Whitening Systems

www.professionalteethwhitening.com Same systems dentists use direct from our dental lab to your door.

Sponsored Link

Category: Regional > North America > ... > Localities > S > Southlake > Health

At Home Teeth Whitening Systems - Affordable Tooth Bleaching

... Don't micro-manage your teeth whitening gel as if it is made of liquid gold. ... The teeth whitening industry is full of products, procedures and claims. ...

Description: Sells at-home teeth whitening and teeth bleaching systems.

Category: Shopping > Health > Dental > Tooth Whitening

www.athomewhitening.com/ - 61k - 20 Feb 2004 - Cached - Similar pages

Sponsored Links

Confused About Whitening?

Free Article uncovers some common misconceptions of teeth whitening

www.therabreath.com

Interest: [Progress bar]

Teeth Whitening Direct

True Professional System lab makes your trays, 22% gel \$6.20 Ship Free

www.DirectWhite.Com

Interest: [Progress bar]

Save Now, Teeth Whitening

Same system used by Dentists! Order Now, Direct from our Dental Lab.

www.smilerightinc.com

Interest: [Progress bar]

22% Teeth Whitening \$9.95

Ultra White Teeth Whitening Products

Teeth whitening made simple, fast, and affordable. ... Ultra-White Products ©

1999 - 2004 | privacy | order info | my shopping cart Teeth Whitening. ...

Description: Featuring Ultra-white and Daywhite bleaching kits, touch-up gel and custom mouthpieces.

Category: Shopping > Health > Dental > Tooth Whitening

www.ultra-white.com/ - 8k - 20 Feb 2004 - Cached - Similar pages

Professional Teeth Whitening gel / Teeth Bleaching for 1/3 the ...

Research and buy professional teeth whitening gel systems used in cosmetic dentistry. Teeth ... teeth. order teeth whitening supplies. ...

Description: Selection of professional strength carbamide peroxide gels, systems and custom mouthpieces.

Category: Shopping > Health > Dental > Tooth Whitening

www.britewhite.com/ - 13k - Cached - Similar pages




Behandlergruppe1: Fysioterapeuten

fysio.no - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address <http://www.fysio.no/article/search/?SearchText=kjeve&x=7&y=5> Go

 **NORSK FYSIOTERAPEUTFORBUND**  **fysio terapeuten** 

FOR MEDLEMMER **KONTAKT | INNMELDING | PRESSEROM**

 In English **Artikkelsøk**

Søk etter "kjeve" Viser 1-6 av 6 treff

Artikkel:	Publiseringsdato:
Manuell terapi - klinisk behandlingskurs av cervical columna i relasjon til overekstremitet	13.11.2003 09:47
Manuell terapi.Undersøkelse og behandling av cervical,kjeve, thoracal og skulder	12.11.2003 10:55
Manuell terapi- klinisk behandlingskurs av cervicalcolumna i relasjon til overekstremitet	10.12.2002 09:00
Manuell terapi.Undersøkelse og behandling av cervical,kjeve, thoracal og skulder	20.12.2002 09:00
Manuell terapi: Behandling av Cervical, kjeve, thoracal og skulder.	08.12.2002 09:00
Manuell terapi: Behandlingskurs av Cervical, kjeve, thoracal og skulder.	16.02.2004 14:10

Tariff 2004

Organisasjon
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NFF mener
Medlemsnytt
NFF-butikken
Medlemsfordeler
Forsikring

Landsmøtet 2004

Lønn og ansettelse
Privat praksis
Faggrupper
Universitet og høyskole
Spesialistordning
Veiledning
Kurs
Økonomiske interessegrupper
Fondet

Done Internet

Start finansiering bittfunksjon vtr20... bittfunksjon vtr20... fysio.no - Micros... fysio.no - Manuell t... 17:27

Behandlergruppe 2: Kinesiologen

Google Search: kinesiology jaw - Microsoft Internet Explorer

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Address http://www.google.com/search?hl=en&ie=UTF-8&oe=UTF-8&q=kinesiology+jaw&btnG=Google+Search Go

Google [Advanced Search](#) [Preferences](#) [Language Tools](#) [Search Tips](#)

kinesiology jaw Google Search

Web Images Groups Directory News

Searched the web for **kinesiology jaw**. Results 1 - 10 of about 2,500. Search took 0.16 seconds.

[Amazon.com: Books: Applied Kinesiology: Head, Neck and Jaw Pain ...](#)
www.amazon.com/exec/obidos/tg/detail/-/0929721012?v=glance - Similar pages

[kinesiology.nu](#)
... **Jaw** Clicking; Neck Pain. It could be TMJ Disorder! ... The TMJ (temporomandibular joint) is where the mandible (the lower **jaw**) joins the temporal bone of the skuh. ...
www.kinesiology.nu/hdentistry/tmj dysfunction.html - 6k - Cached - Similar pages

[University of Minnesota Expertise Database](#)
... In MG Wade & **JAW** Baker, **Kinesiology**: An introduction to the science and practice of physical activity. Madison, WI: Wm.C. Brown Publishers, pp. 1-11. ...
https://egms.umn.edu/cgi-bin/bioshow/FindSomebody.pl?user=mwade&button=Search - 5k - Cached - Similar pages

[Applied Kinesiology in Dentistry](#)
... We fitted the appliance to bring her **jaw** forward providing support to the ... Upon repeating the evaluation with Applied **Kinesiology** I saw that the weakness ...
www.holisticdentist.com/ Applied%20Kinesiology%20in%20Dentistry.htm - 13k - Cached - Similar pages

[The International Journal of Applied Kinesiology and Kinesiologic ...](#)
... of a thorough, whole body evaluation and treatment using applied **kinesiology's** diagnostic ... by Carl A. Ferreri, DC Part 2 - THE DIGESTIVE **JAW** The digestive **jaw** ...
www.kinmed.com/ak10.html - 18k - Cached - Similar pages

[Charlotte's Living Harmony: Kinesiology](#)
... A **Kinesiology** consultation takes 1 1/2 hours, and will assist you in finding ... scoliosis; sciatica; knocked knees; flat feet; lymphatic drainage; some **jaw** problems. ...
www.users.bigpond.com/charlottes/kinesiology.html - 6k - Cached - Similar pages

Sponsored Links

[Kinesiology Training](#)
Basic and advanced classes for beginners & health professionals
www.USKinesiology.com
Interest: _____

[Kinesiology works - Try](#)
"A Significant Breakthrough"
Alternative Medicine Magazine
www.quantumtouch.com
Interest: _____

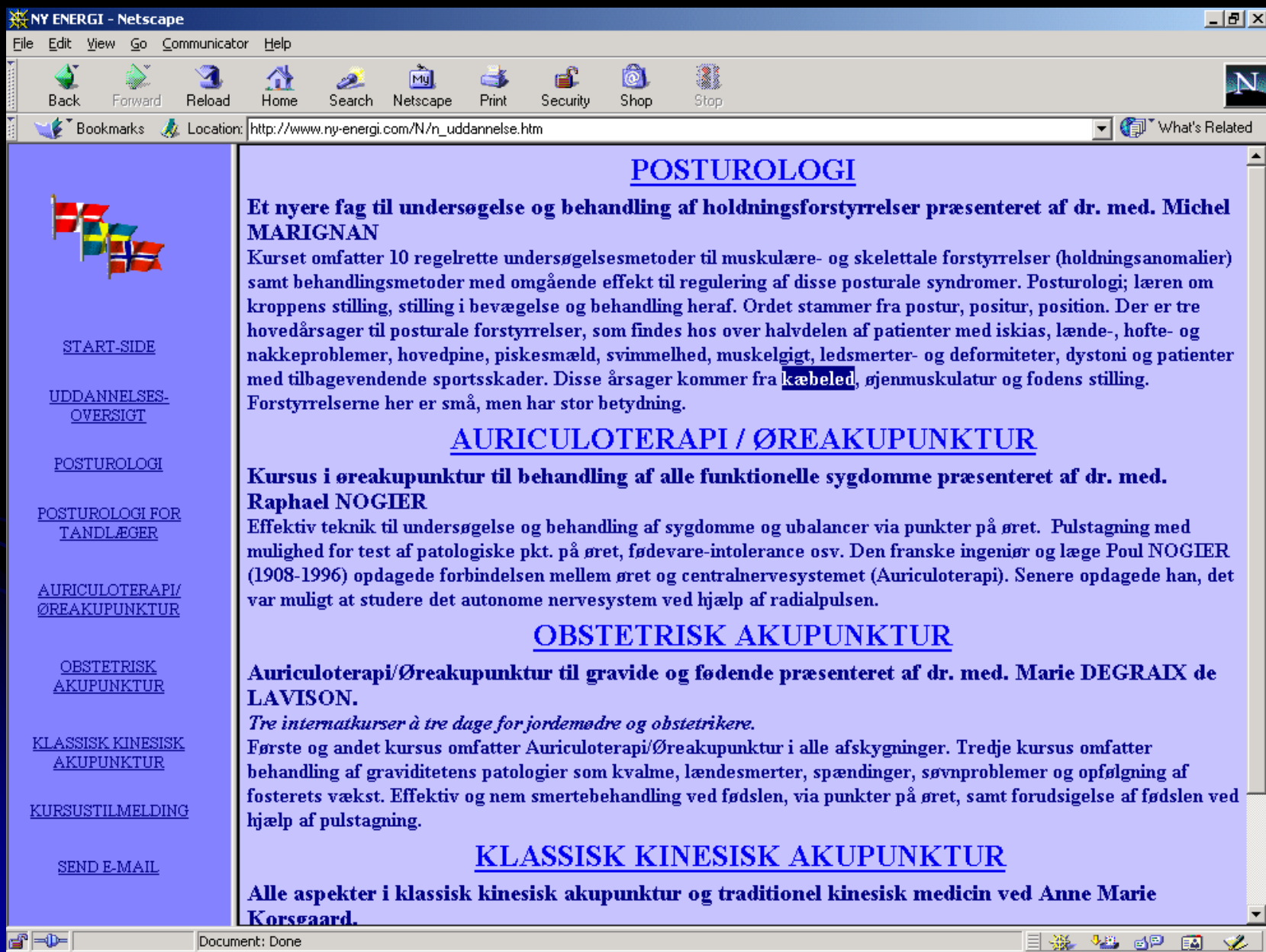
[Beyond Kinesiology](#)
Receiving Love:What stops you?
How can you receive more?
www.mfourman.com
Interest: _____

[See your message here...](#)

Done Internet

Start finansiering bittfunksjon vtr20... bittfunksjon vtr20... Google Search: ki... fysio.no - Manuell t... 17:28

Behandlergruppe 3: posturologen



The screenshot shows a Netscape browser window with the title "NY ENERGI - Netscape". The address bar displays "http://www.ny-energi.com/N/h_uddannelse.htm". The main content area has a light blue background and features several sections of text and links. On the left side, there is a vertical navigation menu with links to "START-SIDE", "UDDANNELSES-OVERSIGT", "POSTUROLOGI", "POSTUROLOGI FOR TANDLÆGER", "AURICULOTERAPI/ØREAKUPUNKTUR", "OBSTETRISK AKUPUNKTUR", "KLASSISK KINESISK AKUPUNKTUR", "KURSUSTILMELDING", and "SEND E-MAIL".

POSTUROLOGI

Et nyere fag til undersøgelse og behandling af holdningsforstyrrelser præsenteret af dr. med. Michel MARIIGNAN

Kurset omfatter 10 regelrette undersøgelsesmetoder til muskulære- og skelettale forstyrrelser (holdningsanomalier) samt behandlingsmetoder med omgående effekt til regulering af disse posturale syndromer. Posturologi; læren om kroppens stilling, stilling i bevægelse og behandling heraf. Ordet stammer fra postur, positur, position. Der er tre hovedårsager til posturale forstyrrelser, som findes hos over halvdelen af patienter med iskias, lænde-, hofte- og nakkeproblemer, hovedpine, piskesmæld, svimmelhed, muskelgigt, ledsmerter- og deformiteter, dystoni og patienter med tilbagevendende sportsskader. Disse årsager kommer fra **kæbeled**, øjenmuskulatur og fødens stilling. Forstyrrelserne her er små, men har stor betydning.

AURICULOTERAPI / ØREAKUPUNKTUR

Kursus i øreakupunktur til behandling af alle funktionelle sygdomme præsenteret af dr. med. Raphael NOGIER

Effektiv teknik til undersøgelse og behandling af sygdomme og ubalancer via punkter på øret. Pulstagning med mulighed for test af patologiske pkt. på øret, fødevarer-intolerance osv. Den franske ingeniør og læge Poul NOGIER (1908-1996) opdagede forbindelsen mellem øret og centralnervesystemet (Auriculoterapi). Senere opdagede han, det var muligt at studere det autonome nervesystem ved hjælp af radialpuls.

OBSTETRISK AKUPUNKTUR

Auriculoterapi/Øreakupunktur til gravide og fødende præsenteret af dr. med. Marie DEGRAIX de LAVISON.

Tre internatkurser à tre dage for jordemødre og obstetrikere.

Første og andet kursus omfatter Auriculoterapi/Øreakupunktur i alle afskygninger. Tredje kursus omfatter behandling af graviditetens patologier som kvalme, lændesmerter, spændinger, søvnproblemer og opfølgning af fosterets vækst. Effektiv og nem smertebehandling ved fødslen, via punkter på øret, samt forudsigelse af fødslen ved hjælp af pulstagning.

KLASSISK KINESISK AKUPUNKTUR

Alle aspekter i klassisk kinesisk akupunktur og traditionel kinesisk medicin ved Anne Marie Korsgaard.

Behandlergruppe 4: Craniosacral-therapeuten

The Upledger Institute, Inc. - Netscape

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CranioSacral Therapy | Mechanical Link | Lymph Drainage Therapy
Visceral Manipulation | Other Therapies

.therapies

CranioSacral Therapy


CST was pioneered and developed by osteopathic physician [John E. Upledger](#) following extensive scientific studies from 1975 to 1983 at Michigan State University, where he served as a clinical researcher and Professor of Biomechanics.

CST is a gentle, hands-on method of evaluating and enhancing the functioning of a physiological body system called the craniosacral system - comprised of the membranes and cerebrospinal fluid that surround and protect the brain and spinal cord.

Using a soft touch generally no greater than 5 grams, or about the weight of a nickel, practitioners release restrictions in the craniosacral system to improve the functioning of the central nervous system.

By complementing the body's natural healing processes, CST is increasingly used as a preventive health measure for its ability to bolster resistance to disease, and is effective for a wide range of medical problems associated with pain and dysfunction, including:

- Migraine Headaches
- Chronic Neck and Back Pain
- Motor-Coordination Impairments
- Colic
- Autism
- Central Nervous System Disorders
- Orthopedic Problems
- Traumatic Brain and Spinal Cord Injuries
- Scoliosis
- Infantile Disorders
- Learning Disabilities
- Chronic Fatigue
- Emotional Difficulties
- Stress and Tension-Related Problems
- Fibromyalgia and other Connective-Tissue Disorders
- [Temporomandibular Joint Syndrome \(TMJ\)](#)
- Neurovascular or Immune Disorders



[John E. Upledger, DO,
OMM](#)

CNN.com.

View Video
dial up: [28.8k](#) | [56k](#)
hi-speed: [100k](#) | [250k](#)

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Document: Done



Behandlergruppe 5a: Tannlegen (?)

Anodyne Bite Restorer Partial - Netscape

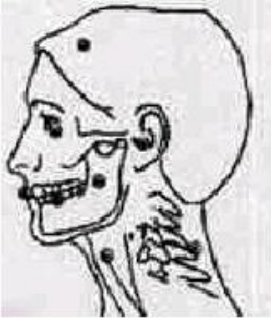
File Edit View Go Communicator Help

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Bookmarks Location: <http://www.johnsdental.com/articles/denture/biterestr.htm> What's Related



This adjustable, TMJ friendly splint is made with Vitallium framework and composite material bonded to the occlusal surfaces, which is kind to opposing teeth



Dentures/Partials

ANODYNE BITE RESTORER

THE LONG TERM PAIN-RELIEVING SPLINT FOR TMD SUFFERERS


Johns Dental Laboratories has long been aware of TMJ syndrome and the related discomfort it causes. The dysfunction of the temporomandibular joint results in stress on muscles, often causing head, neck, shoulder and back pain.

With proper treatment, relief for TMJ pain does exist. The initial use of a bite opening acrylic splint from Johns Dental Laboratories (such as Gelb, Farrar, Mays, Sears, Witzig and others) is recommended to guide the jaws into alignment whenever the wearer occludes. In most cases pain begins to disappear in a remarkably short time. Much of the discomfort vanishes soon after the splint is inserted.

Can adjustments be made?

As changes take place in the joint during treatment, adjustments in the occlusal contacts can be made by grinding and/or adding additional acrylic. Once the new occlusion is firmly established with the acrylic splint, treatment may proceed with a more permanent type of restoration.

Can Bite Restorers work for older patients?



Document: Done

Journal of Oral Rehabilitation 2001 **28**; 732-739

The influence of different jaw positions on the endurance and electromyographic pattern of the biceps brachii muscle in young adults with different occlusal characteristics

VIRGILIO F. FERRARIO*[†], CHIARELLA SFORZA*[†], GRAZIANO SERRAO*,
NICOLA FRAGNITO[†] & GIANPIERO GRASSI[†] *Functional Anatomy Research Center (Farc), *Laboratorio di Anatomia Funzionale dell'Apparato Stomatognatico (LAFAS) and [†]Laboratorio di Anatomia Funzionale dell'Apparato Locomotore (LAFAL), Dipartimento di Anatomia Umana, Facoltà di Medicina e Chirurgia and Facoltà di Scienze Motorie, Università degli Studi, via Mangiagalli, Milano, Italy*

SUMMARY To investigate the hypothesis of a functional coupling between the stomatognathic motor apparatus and the muscles of other body districts, as well as between occlusal conditions and neuromuscular performance, two groups of men (age range 20-26 years), with either normal occlusion (14 men) or malocclusion (15 men), sustained with their dominant arm a dumbbell weighing 80% of their maximum while maintaining different jaw positions: mouth open, without dental contact; mouth close, with light dental contact; maximum volun-

frequency were also computed for 2-s windows, and values as a function of time were interpolated by a linear regression analysis. Data were compared between groups and trials by using a factorial analysis of variance. The malocclusion group subjects could perform the exercise for a longer time span than the normal occlusion individuals ($P < 0.005$). During this endurance time their biceps brachii muscles contracted with different patterns: on average, in the malocclusion group they had a larger EMG amplitude ($P < 0.005$), and a shift of the power

Behandlergruppe 5b: tannlegen (!)

PowerBite Mouthguard - Netscape

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TMJ/Splints

PowerBite Mouthguard



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John Witzig, D.D.S. - noted Authority on all Mouthguards & TMJ treatment - Minneapolis, MN

All mouthguards protect to a certain degree, but there should be more to it than just protecting the teeth. What about protection against concussions, TMJ and neck injuries? How about improving comfort and fit? Can it make breathing easier? Can it increase a players strength and endurance?

These are all added benefits that a PowerBite mouthguard from Johns Dental Laboratories can provide your patients.

Protect teeth, TMJ, Neck and reduces concussions.

The primary reason to get



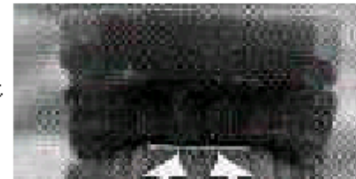
The women's freshman basketball squad at St. Mary of the woods in Indiana took a break from practice to show off their custom PowerBite Mouthguards in matching team colors. Partnering up with local high schools and colleges is a great way to gain exposure in your community and can lead to many referrals.

The PowerBite increases strength and endurance.

In addition to the protection the PowerBite Mouthguard provides, it can also increase strength and endurance and can show a noticeable difference in athletic



A local dentist and certified dental assistant were able to take impressions for the entire women's basketball team in under an hour.



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Behandlergruppe 5c: tannlegen(?!!)

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KLIKK PÅ BILDET FOR SKRIVERVENNLIG VERSJON:



Kjevesleng

Et foredrag av tannlege Gunnhild Gjerde

Først vil jeg gi uttrykk for tilfredshet med at disse sakene endelig blir presentert i fagmiljøet. Desverre er en halvtime alt for kort tid til å belyse disse tingene. Mitt manus var opprinnelig dobbelt så langt - mye stoff er blitt håpløst amputert, og det beklager jeg.

Universitets lektor, Lucy Smith, sa i årets velkomsttale til de nye studentene at studenten må oppøve evnen til kritisk refleksjon og nyskapende tenkning - og det skal vi vel ikke holde opp med etter eksamen - eller - skal kjetterne havne i sementblander'n på ekte mafiavis - igjen. Mine erfaringer med diskusjoner om disse ulykkesskadene er mer eller mindre traumatiske. Kanskje er det blitt posttraumatisk syndrom? Det er et velkjent begrep for disse pasientene. Avisdiskusjonen for et år siden, er et eklatant eksempel på usaklig og uakademisk debatt.

I de over tyve årene jeg har jobbet med disse sakene har jeg møtt en helt utrolig mangel på interesse og vilje til å sette seg inn i det medisinske helhetsbildet og i ulykkespasientens håpløse situasjon.

I primitive stammesamfunn hadde medisinnmennene stor makt med sine fryktinngytende masker og spektakulære seanser med hypnotisk effekt - for å holde folket og opponenter i sjakk.

Vi må huske på at medisinsk prestisje til alle tider har vært den største hindring for medisinske fremskritt.

Hvis jeg ikke hadde blitt innblandet i en kjedekollisjon for over 20 år siden, hadde min vei sikkert blitt annerledes og ikke fullt så spennende. Det tok mange år før jeg fikk kontakt med de rette miljøene.

Etter flere år med kurs og kongresser kom jeg i forbindelse med sjefen for



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Behandlergruppe 5d: tannlegen(?!!!)

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FIKK FEILBEHANDLING:
Fikk fire millioner i tannerstatning

Av [Morten Karlsen](#) 24.11.03 13:27, ny 24.11.03 13:32

I over tre år utførte tannlegen det unødvendige inngrepet på den 51 år gamle kvinnen. I dag er hun 100 prosent arbeidsufør.



I en fersk dom fra Borgarting lagmannsrett får både tannlegen og hans forsikringsselskap seg en på kjeften etter den omfattende feilbehandlingen som startet i 1991.

- Klar feilbehandling
- Klar feilbehandling. Klart uaktsomt, skriver lagmannsretten i dommen, og viser til at plagene kvinnen har hatt etter inngrepene, mest sannsynlig er forårsaket av tannbehandlingen.

- Jeg syntes det er veldig vanskelig og en veldig tøff sak, men jeg er veldig godt fornøyd med dommen, sier den 51 år gamle kvinnen til TV 2 Nettavisen. Hun ønsker ikke å kommentere dommen ytterligere.

I tillegg til at kvinnen blir tilkjent millionerstatning, konkluderer både retten og flere sakkyndige med at inngrepene tannlegen gjorde på kvinnen over en tidsperiode på over tre år, både var unødvendige og forårsaket store kroniske smerter hos kvinnen.

Den 51 år gamle kvinnen ble i retten tilkjent nærmere fire millioner kroner i erstatning og saksomkostninger for inngrepene tannlegen gjorde på henne fra februar 1991 til juni 1994.

- Krever ikke behandling
Ifølge dommen oppsøkte kvinnen tannlegen fordi hun hadde klikking i kjeveleddet. En sakkyndig opplyste under rettssaken at dette er noe som ikke krever behandling og som mellom 50 til 70 prosent av befolkningen opplever i løpet av livet.

- Dette er i utgangspunktet en ufarlig og av og til forbigående tilstand som ikke krever behandling, skriver en annen sakkyndig i sin rapport.

Likevel valgte tannlegen å foreta flere inngrep, blant annet på bakgrunn av anbefalinger fra en amerikansk kjeveortoped.

Nettavisen: Innenriks - Microsoft Internet Explorer

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Store smerter

I retten fortalte kvinnen at hun nærmest ble truet til å ta inngrepene.

- Tannlege (N.N.) satte likevel i gang en omfattende langvarig og irreversibel bittoppbygning under påskudd av at det ellers kunne utvikle seg til låsing av kjevene, kroniske smerter og suppespising resten av livet, heter det i kvinnens anførsel.

Kvinnen sa i retten at hun kort tid etter tannlegens første inngrep opplevde smerter.

En legeerklæring fra 1998 viste at kvinnen opplevde hodepine, svimmelhet, smerter fra øret mot kjeven på begge sider, samt magesmerter og allergi.

I retten la kvinnens advokat ned påstand om nærmere åtte millioner kroner i erstatning. Tannlegens forsikringsselskap, Gjensidige NOR Forsikring, innrømmet i retten at bittoppbyggingen kvinnen fikk i 1994, var feilbehandling.

De viste likevel til at det var uklart hvilke skader som hadde oppstått som en følge av behandlingen og hvilke deler av hennes plager som kunne tilbakeføres til tannbehandlingen.

Praksis i USA
Forsikringsselskapet mener dessuten av feilbehandlingen ikke kan sees på som uaktsomt, fordi behandlingsmetoden på den tiden ble praktisert i USA.

Gjensidige NOR mente også at årsaken til hennes helseplager måtte søkes i hennes tidligere sykehistorie, blant annet en nakkeslengskade hun fikk i 1972.

- Når det gjelder anførselen om at han har truet med suppespising, står påstand mot påstand, skriver forsikringsselskapet i sin anførsel.

Forsikringsselskapet la til slutt ned påstand om at tingrettens frifinnende dom fra mai i fjor ble stadfestet.

Innvilget full uførepensjon
Kvinnen er i dag innvilget full uførepensjon med virkning fra april 1998 og lagmannsretten la i dommen til grunn at kvinnen er 100 prosent arbeidsufør.

Kvinnen ble tilkjent 1,8 millioner kroner i erstatning for lidt inntektstap i perioden 1994 til 2003.

Hun ble også tilkjent en erstatning for fremtidig inntektstap frem til 2019.

I tillegg ble 51-åringen også tilkjent 225.000 kroner i erstatning for tap av pensjon,

National Institutes of Health, USA 1996

Rationale for addressing the issue (!)

- Concern about the safety and efficacy of the care provided to patients med TMD
- Absence of clear, valid, and reliable guidelines for diagnosis
- Dearth of proven rationales for a full range of treatment methods
- Many may attempt therapy with approaches that has not been adequately tested in scientifically based research studies

“NIH Technology assessment Conference on TMD”. 29.4-1.5-1996

The screenshot shows a Netscape browser window with the title "Technology Assessment Statement Overview: Management of Temporomandibular Disorders - Netscape". The address bar shows the URL "http://odp.od.nih.gov/consensus/ta/018/018_intro.htm". The main content area features a header for "State of the Science Statements (formerly known as 'Technology Assessment Statements') NIH Consensus Development Program". A navigation bar includes links for "News and Upcoming Activities", "Consensus Statements", "State of the Science Statements", "About the Consensus Program", "CME Online", and "Search". The main heading is "Management of Temporomandibular Disorders" with the dates "April 29 - May 1, 1996". To the left is a graphic with the letters "T m D" and a stylized illustration of a person's head and neck. Below the graphic is a section titled "Related Conference Materials" with links to "NLM Bibliography", "News Release", and "CME Online". The main text block begins with "Consensus has not been developed across the practicing community regarding which TMD problems should be treated, and when and how they should be treated. The preponderance of the data do not support the superiority of any method of initial management of most TMD problems. The efficacy of most treatment approaches is unknown as most have not been adequately evaluated in long-term studies and virtually none in randomized controlled trials. Although noninvasive therapies are clearly preferred for the vast majority of TMD problems, a small percentage of patients who have persistent and significant pain and dysfunction and for whom more conservative treatment has failed may be considered for surgical intervention. Professional education is needed to ensure the proper..."

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April 29 - May 1, 1996

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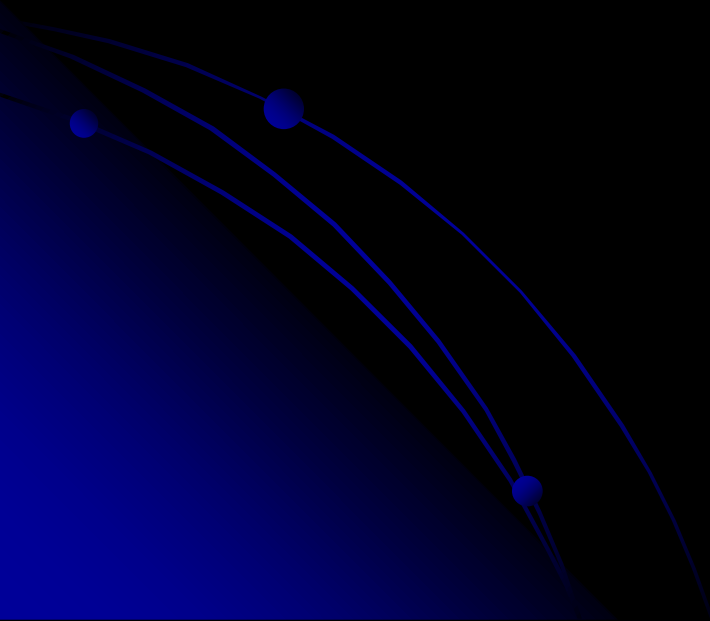
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- Skapte en sterk konflikt mellom “pragmatikerne” og “teoretikerne”.



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 - En serie med protester og brev fra “The Alliance av TMD Practitioners”
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- Flere statements og kronikker med forslag til hvordan veien fremover skulle stakes ut

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TEMPOROMANDIBULAR DISORDERS (TMD)

The AADR recognizes that temporomandibular disorders (TMDs) encompass a group of musculo-skeletal conditions that involve the temporomandibular joint (TMJ) or joints, the masticatory muscles, or both. The consequences of these disorders can lead to difficulties in chewing and other oral function, acute and/or chronic pain, absence from or impairment of work or social interactions, and overall reduction in the quality of life.

Based on the evidence from clinical trials:

- (1) It is recommended that the differential diagnosis of TMDs or related orofacial pain incorporate information obtained from the patient's history, clinical examination, and, when indicated, TMJ or other imaging. The choice of adjunctive procedures should be based upon published, peer-reviewed data showing diagnostic efficacy. Diagnostic tests that may be proven in future scientific reports to show the sensitivity and specificity required to separate normal subjects from TMD patients or to distinguish among TMD subgroups may be useful. Use of unproven adjunctive tests and devices may present risk for clinicians and patients of reaching either false-positive or false-negative diagnoses.
- (2) It is strongly recommended that, unless there are specific and justifiable indications to the contrary, treatment be based on the use of conservative and reversible therapeutic modalities. While no specific therapies have been proven to be uniformly effective, many of the conservative modalities have provided at least palliative relief from symptoms without producing harm.

(adopted 1996)

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1: Cranio 1997 Apr;15(2):170-8 [Related Articles](#), [NEW Books](#), [LinkOut](#)

Guide to evaluation of permanent impairment of the temporomandibular joint. American Academy of Head, Neck and Facial Pain; American Academy of Orofacial Pain; American Academy of Pain Management; American College of Prosthodontists; American Equilibration Society and Society of Occlusal Studies; American Society of Maxillofacial Surgeons; American Society of Temporomandibular Joint Surgeons; International College of Cranio-mandibular Orthopedics; Society for Occlusal Studies.

Phillips DJ Jr, Gelb M, Brown CR, Kinderknecht KE, Neff PA, Kirk WS Jr, Schellhas KP, Biggs JH 3rd, Williams B.

Department of Oral Medicine and Pathology, NYU College of Dentistry, NY 10022, USA.

- Publication Types:
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Temporomandibular problems Interagency Working Group (TMDIWG)

Temporomandibular Disorders Interagency Working Group - Netscape

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THE TEMPOROMANDIBULAR JOINT AND SURROUNDING MUSCLES

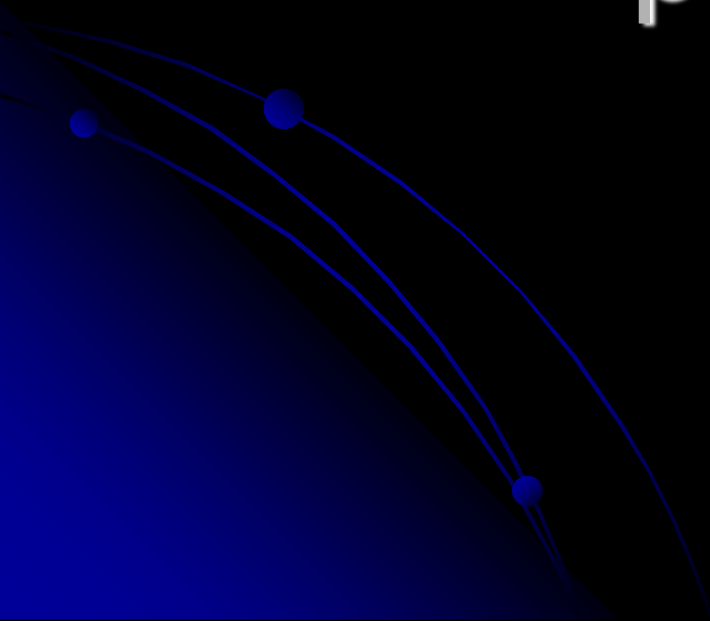
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TEMA: Tannslitasje pasientene







TEMA: Oral Dysfunksjon pasientene



Hva er “oral dysfunksjon”?

1. Hvordan kan man beskrive ortofunksjoner?
2. Hvordan kan man måle effektivitet av ortofunksjoner?
 - Hvordan kan man måle bevegelsen av ortofunksjoner?
 - Er det sammenheng mellom ortofunksjoner og generelle helse?

Mål for tyggeeffektivitet

1. **Masticatory ability**
2. **Masticatory efficiency**
3. Masticatory performance
4. Masticatory effectiveness
5. Chewing efficiency
6. Chewing ability
7. Swallowing threshold: chewing until desire to swallow
8. Swallowing composition: size of bolus swallowed
9. Bite force?

Masticatory ability

- Individual's own assessment
- The linear relationship to age is often confounded by number of teeth.

The correlation seems to be poor to masticatory efficiency:

Masticatory efficiency

- Capacity to reduce food during mastication- often an index is used

Masticatory efficiency

- Trituration as a function of time
- Trituration as a function of number of chewing cycles
 1. Fractional sieving
 2. Dye-saturated particle surface area in solution
 3. Extraction of ingredients from food (i.e. sugar from gum)
- Efficiency correlates with bite force