

DET ODONTOLOGISKE FAKULTET

Sekretariatet Postboks 1142, Blindern 0317 Oslo

Besøksadresse: Geitmyrsveien 69

16. November 1999

CLINICAL FACULTY SEMINARS "KLINISKE FELLESSEMINAR"

Wednesday November 24th, 16.30 - 18.30 Aud. 2, Geitmyrsveien 69

EVIDENCE-BASED DENTISTRY

"Clinical studies on guided tissue regeneration(GTR), are the guidelines and recommendations scientifically based?"

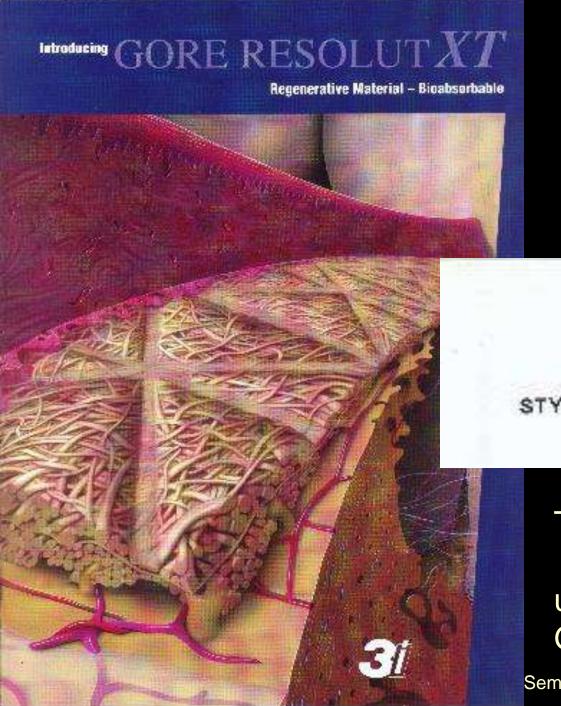
Coordinator: Stip. Asbjørn Jokstad, UiO

All postgraduate candidates and other interested faculty members are welcome

Coffee will be served

Clinical studies on GTR techniques, are they science-based?

Asbjørn Jokstad Institute of Clinical Dentistry University of Oslo



The commercial pressure on the dental profession has been marked during the last 10 years





STYRET VÆVS REGENERATION

There is a concern that SHUKDSV VRPH used in the advertising for GTR can be questioned...

Seminar

A Jokstad

BioMend* The proven, absorbable membrane. Fully absorbed to 8 weeks. When it comes to regeneration of lost tissue, BioMend is your best choice for aiding in healing up to 8 weeks. BioMend is completely absorbable, biocompatible, and provides excellent handling characteristics.

Biogbsorbable Eliminates second stage surgery for membrane removal, reducing

Cell-Occlusive Prevents epitretal migration and maintains space for periodorital ligament

3-D Matrix Album integration of connective:

Tisaue flaps and passage of essential nutri-

ents, reducing the likelihood of membrane

Wound Stabilization Helps stabilize and

maintain blood stot in the defect apace.

exposure and ginglyst recession.

wound fraums and surgical chair time.

and bone regeneration.

THE COLLAGEN Advantage

Derived from bosine Achilles tendan, one of the purest sources of Type I collagen available.

Data from clinical trials demonstrated no immune or sensitivity reactions, (Other types of membranes containing PGA and PLA degrade directly to acids and have been asaccasted with an inflammatory response,")

CLINICAL Advantage

Predictability of Results Stigs insect at least 4 weeks, functioning as a barrier during the critical period of wound healing: Killy absorbed 6 wasks post-op.









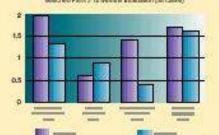
HANDLING Advantages

Superior Handling Platter but not slippery when hydrated; contoens easily to detect

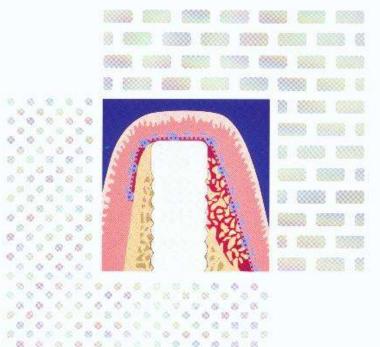
Prodictable Placement Non-Inside and sulurable can be easily modified and posi-

Reduced Contamination Risk Sterio templates allow pre-shaping, membrane need only be placed in the defect alte ance. reducing confamination risk.

BioMond: Vs. Gore-Tex- Periodontal Material Forcation Defects: Modred Prime 12 Months Excludion (IR cause)



A new concept in guided bone regeneration



Several commercial companies are active, with Gore, Guidor, and Calcitek being the biggest actors.







GORE-TEX* REGENERATIVE MATERIAL

TRANSGINGIVAL CONFIGURATIONS



Geistlich* Biomaterials

System for Periodontal Tissue Regeneration







A partially occlusive poetion motor's the competing tission and maintains a space in i can occur.



ions are for applications involving a structure on real imports, that extends through the he oral environment. Transgrigival

ve an opea insurostructure "collar" designed. rowth of connective tissue and inhibit the pithelines through a phenomenon known as



SCHOOL SECT













Ill month minns

The well-established system for natural bone regeneration, Bio-Oss® and Bio-Gide®, has been expanded to include a system for periodontal tissue regeneration: the PERIO-System, which uses Bio-Oss® COLLAGEN and Bio-Gide® PERIO. Many years of clinical experience and international scientific study trials provide proof of its compatibility for use in periodontal indications.







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Skandinavisk verdensnyhet i behandlingen av tannkjøttsykdommen periodontitt

Skandinuvisk forskning har resultert i et gjennombrund i benandlingen av skader forårsaket av periodontitt. infeksjonssykdommen som rømmer over 50% av atte voksne nordmene.



Figure GUNDORGA NAME. DROPE DIVING PERMANEN Deciparizanto y servicino. av menemene in higher owner more let industries. com affatter great/consistants ting av varingsmober til Stri den sported Appeal Chemisters along partons Signer Integration recent og Abhasen doducies are solpatrickly on background Albert Calculation of the Calculation (Calculation) NSW GUNDON STONESSON delenatement GTR related only a kinether og effektivner, og kinsome a 1900 en GTR produktetike i et flortet caropetske lend same USA of Chinada

Gooder All-har six aniskingsakhonasanna prodokojenovake; ng strucenik maskenideriarweeter i Sasskaulm og svensketer i dog en 40 parsoner. I tillinge har bedriften er frenkningssenner i Gelenang der i alt. 10 klim die torstone arbeider med sacranniapers GTR leaunger.

Periodontitt - en folkesykdom

Periodontal syludam er i dag via mest vaulige bakterielle intisspencestokan. Til men for at nordmenn, generalle tanabebe er meric forteches de akte 10 år for not can 50% av alle vakore. personical periodication is an other action forms. Studies typicar pillutings 14% or alle presenter has sykdemanen i så afsorlig grad a de treasur helsandling his speciation Periodonii.

Den tye behandlingste eller Guided Taxag Re sic betaggebes er der og stylkler arkrektene tion into all transless der der er blitt ødelagt. rought stall pd date for cos sengram.

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Review papers are in some cases modified to make the topic appealing WR WKH 'WDUJHW' Swedish(left) or Norwegian (right) dentists.

Guided Tissue Regeneration - MESH Definition (1992):

The repopulating of the periodontium, after treatment for periodontal disease. Repopulation is achieved by guiding the periodontal ligament progenitor cells to reproduce in the desired location by blocking contact of epithelial and gingival connective tissues with the root during healing. This blocking is accomplished by using synthetic membranes or collagen membranes.

Emdogain- publication review (n=31)

- 1997: 3 1998: 18 1999: 4
- Case report / series
 11 papers
- Reviews9 papers
- Clinical trials4 papers
 - 3 RCT (10), (16), (33)
 - 1 Cohort study (107-33)
- In vitro studies3 papers
- Animal studies 3 papers
- Meeting abstract1 paper

Key words; Millipara filter - new attachment - periodonical ligament - wound nealing Agespted for publication May 21, 1981

New attachment following surgical treatment of human periodontal disease

STURE NYMAN*, JAN LINDHE*, THORKED KARRING** AND HARALO RYLANDER*

*Department of Periodontology, Faculty of Odontology, University of Gothenburg, Gothenburg, Sweden, and
**Department of Periodontology, Royal Dental College, Aarhus, Denmark

Abstract. The present experiment was undertaken to test the hypothesis that new connective tissue attachment may form on a previously periodontitis involved root surface provided cells originating from the periodontal ligament are enabled to repopulate the root surface during healing.

A mandibular incisor with advanced periodontal disease of long standing (the distance between the cemento-ename) junction and the alveolar bone crest was 9 mm) was subjected to periodontal surgery using a technique which during healing prevented the dentogingival epithelium and the gingival connective tissue from reaching contact with the curetted root surface. Preference was hereby given to the periodontal ligament cells to repopulate the previously diseased root surface. After 3 months of healing a block biopsy containing the incisor and surrounding tissue was sampled. The histological analysis revealed that new comentum with inserting principal libers had formed on the previously diseased root surface. This new attachment extended in coronal direction to a level 5 mm coronal to the alveolar bone crest. This finding suggests that new attachment can be achieved by cells originating from the periodontal ligament and demonstrates that the concept that the periodontitis affected root surface is a major preventive factor for new attachment is invalid.