

The Maltese Dental Journal Depth Depth 2014

Contraction of the local division of the loc



Are your patients' dentures truly clean?

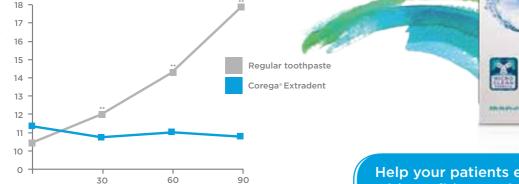
Even visibly clean dentures can have hidden dangers.

The denture surface contains pores in which microorganisms can multiply and thrive.¹Up to 80% of patients use toothpaste to clean their dentures.^{2,3} As dentures are approximately **10x** softer than enamel,⁴ the abrasive nature of toothpaste can create scratches, which may lead to increased microbial colonisation,⁵ resulting in gum irritation or denture malodour for your patients. These inadequate cleaning methods can cause the appearance of your specially made and well-fitting dentures to deteriorate and affect your patients' denture wearing experience and satisfaction.

Corega® Extradent denture cleanser - specially designed for dentures

- Corega[®] Extradent cleanser offers patients the dual benefits of mechanical and chemical cleansing*
- Corega[®] Extradent cleanser is proven to penetrate the biofilm⁺ and kill microorganisms even within hard-to-reach denture surface pores⁶
- Corega[®] Extradent cleanser is non-abrasive⁷ unlike toothpaste, and does not create scratches, which can lead to increased microbial colonisation

Brushing with Corega® Extradent was associated with significant (p<0.005) reduction in depth of abrasion compared with a regular toothpaste



Time in minutes ind, randomised three-period crossover study done on 26 subjects simulating brushing I using toothpaste (Crest cavity protection RDA-95) and Corega® Extradent denture clea clenture prototype. Surface changes observed at baseline, 30, 60 and 90 minutes. Help your patients eat, speak and smile with confidence with the Corega[®] denture adhesives and Corega® Extradent denture cleansing tablets.

* When used as directed; † in vitro single species biofilm after 5 minutes soal

References: 1. Glass RT *et al. J Prosthet Dent.* 2010;103(6):384-389; 2. Marchini L *et al. Gerodontol.* 2004;21:226-228; 3. Barbosa L *et al. Gerodontol.* 2008; 25:99-106; 4. GSK Data on File; Literature review. August 2013; 5. Charman KM *et al. Lett Appl Microbiol.* 2009;48(4):472-477; 6. GSK Data on File; Lux R. 2012; 7. GSK Data on File; L2630368. October 2006.



Offer your patients proven daily protection with Corega® **Extradent denture cleanser**

COREGA

Extradent



By Dr David Muscat

Dear colleagues,

It has been a sweltering summer. I hope you all had a nice break. The cover photo is by Dr Josef Awad - Valletta Panorama.

The DAM is working on prospective hands on courses. The Christmas party is earmarked for the 8th December. A Full day Kerr Endodontics course entitled 'The Simplicity, Durability and Flexibility in Endodontics' is being held in conjunction with the DAM on Friday 29th September at the Hilton. The guest speaker is Dr Anca-Maria Badescu. The DAM is currently negotiating an implant course for its members

A sailing event is also being planned. We are working on a new mobile phone package for our members.

Dr David Muscat B.D.S. (LON)

Editor / Secretary, P.R.O. D.A.M.

Best regards, David



SUNDAY EMERGENCY TREATMENT

Dear Colleagues,

We are currently in the process of preparing for the third cycle of the ANNUAL EMERGENCY SUNDAY LIST OF ATTENDING DENTISTS.

For the unacquainted, a different dentist answers calls on a common line (9906 1800) between 8.30am and 11.30am. Emergency treatment is provided against an additional surcharge of €50.00. An average of 2-3 patients are seen normally and dentists answer the line up to a maximum of 2 Sundays per year. Dentists working in the same practice can have a separate placement if so desired.

> The roster date is randomly drawn up and is binding however dentists can easily exchange dates amongst other participants utilising a **WhatsApp** group.

> The scheme will continue until emergency treatment provision is re introduced at Mater Dei Hospital or the minimum number of participants is not reached.

Dentists interested can simply send their name and mobile number on maltadentalemergency@gmail.com.

Unlike previous years current participants need to reapply.

Daniel Cassar Darien

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ISSN 2076-6181

DENTAL ASSOCIATION OF MALTA

The Professional Centre. Sliema Road, Gzira Tel: 21 312888 Fax: 21 343002 Email: info@dam.com





The latex-free lip and cheek retractor



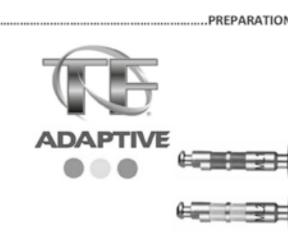
In conjunction with the Dental Association of Malta

Friday 29th September 2017 Date: 8:30 - 17:00hrs Time: Location: Hilton Malta, Portomaso, St.Julian's

<u>"The Simplicity, Durability &</u> **Flexibility in Endodontics**"

Guest Speaker: Dr. Anca-Maria Badescu

On behalf of: Kerr[™] Endodontics





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CURAPROX

INTRODUCTION TO LUMINEERS

From the Lumineers Presentation for certified Lumineers in Malta by Page Technology Ltd By Dr Michael Schneider from Denmat

Curasept ADS[®] – The System combining mouthwash and toothpaste in case of Periodontitis.

- Full effect
- Alcohol free
- Minimum brown discoloration
- No follow-up treatment needed



SWISS PREMIUM ORAL CARE









Continues on page 9.

63

New Sensodyne Rapid Relief ACTS FAST

to help prevent moments like these

Help patients **BEAT SENSITIVITY PAIN FAST**



Reference: 1. Accepted for presentation at IADR 2017, Abstract no: 2631820. 2. GSK Data on File 207211, January 2017. 3. Accepted for pres of the Dentine Hynersensitivity Experience Questionnaire (DHEQ). Poster presented at IADR/AADR/CADR General Session & Exhibition: 201

*With twice-daily brushing

New Sensodyne Rapid Relief is a unique formulation engineered for speed that supports accelerated occlusion of dentine tubules.¹ It provides clinically proven relief in just **60 seconds** after brushing sensitive areas,^{2,3} giving patients long-lasting protection* from sensitivity and its impact on everyday life.^{4,5}

ation at IADR 2017, Abstract no: 2635085. 4. Parkinson CR et al. Am J Dent. 2015 Aug;28(4): 190-196. 5. Baker S et al. Longitudin arch 20-23. Seattle Washington Date of preparation : June 2017. CHMI 7/CHSENO/0032/17

INTRODUCTION TO LUMINEERS

Continues from page 7.



LUMINEERS are fabricated from Strong & Beautiful Cerinate Porcelain - Lumineers are crafted from next-generation Cerinate pressed feldsgathic porcelain neinforced with leacite nano-crystals delivering a highly esthetic product. - Due to its superior strength of 216 MPa, LUMINEERS can be made as thin as a contact lens, allowing placement without significant removal of enamel and without removal of dentin. - Now 30% stronger than the original LUMINEERS.

 Cerinate porcelain exhibits low wear rates against opposing dentition when compared to conventional porcelain.

- Cerinate is the only porcelain backed by over 20 years of evidence-based research.
- Cerinate continues to be made exclusively by DenMat in Santa Maria, CA.

Ideal First Case Indications

- LUMINEERS & all thin veneers are HARDER to place than traditional veneers.
- Dentists unfamiliar with minimally invasive veneer techniques should start with simple cases:
 - Normal Class I bite
 - Lack of wear facets
 - No TMJ symptoms
 - · Good centric relation

Why do so many Dentists still employ traditional prep techniques?

- Old porcelain had to be made thick or it would break. Thanks to better materials, veneers can now be made as thin as 0.3mm.
- Traditional prep was taught in school and at institutes such as LVI.
- · Skepticism about esthetics of min-prep or no-prep veneers.
- Traditional prep techniques are easier than minimal or noprep techniques.
- LUMINEERS address all of these concerns!

Proprietary digital design technology & manufacturing process deliver consistent, predictable results as thin as 0.3mm



Prep Styles and Definitions



TePe Nova Toothbrushes

INTRODUCTION TO LUMINEERS

Continues from page 9.





Handle	Polypropylene (PP). Inlay: Thermoplastic elastomer (
Filaments	Polyamide (PA). The coloured filaments of the tip ind Pink tip - x-soft, Yellow tip - soft, Blue tip - medium TePe Nova Medium has 1450 filaments/TePe Nova So TePe Nova Extra Soft has 2660 filaments.
Neck	Can be angled without heating.
Product features	 Tip for increased accessibility. End-rounded filaments for gentle cleaning.

- Tapered brush-head for improved access.
- Ergonomically designed non-slip handle for secure grip.





(TPE).

dicate the texture:

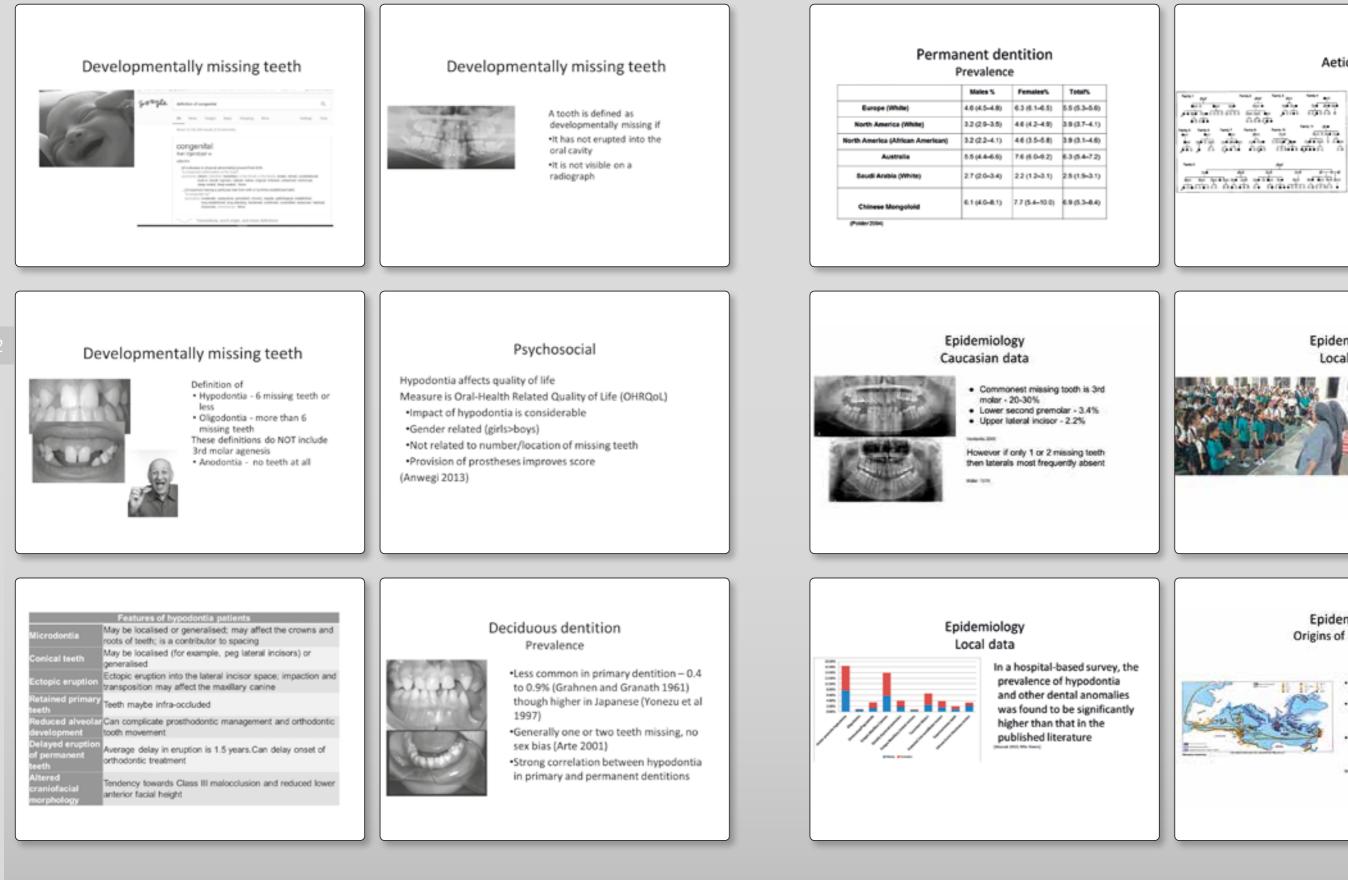
Soft has 1900 filamer







Dr Simon Camilleri PhD MOrth FDS ITI Study Club, Malta – 15 June 2017 Thanks to: Dr Edward Sammut, Dr Mark Diacono and various orthodontic postgraduates at MDH and KCL





- Grahnen (1956) showed that incisor-premolar hypodontia transmission was most likely genetic and transmitted in autosomal dominant fashion
- Arte (2001) Failed to find causative gene

Epidemiology Local data

Survey of 530 schoolchildren in 2003

Results of published studies show:

- High prevalence of lateral incisor hypodontia (>3%)
- High prevalence of ectopic teeth, especially maxillary canines (>5.5%)

Epidemiology Origins of Population

- Origins of population uncertain, possibly Phoenician/Carthaginian
- Islands invaded and left uninhabited by Tunisians about 800 AD, repopulated primarily from Sicily 100 years later
- Disease and slave gathering raids suppressed population growth

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TO BRUSH LIKE YOUR DENTIST RECOMMENDS WITH POSITION DETECTION TECHNOLOGY.



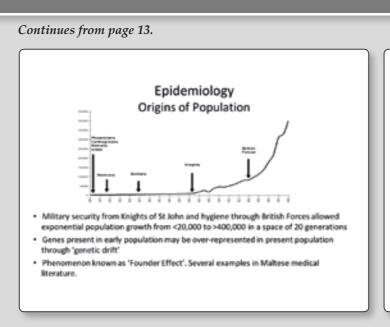
Brush like a Pro.

1 111111111

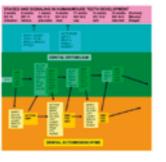


Oral B brought to you by VJ-SALOMONE

DEVELOPMENTALLY MISSING TEETH



Genetics



Dozens if not hundreds of genes directly or indirectly involved in tooth development Dysfunction of any one may result in agenesis

20

TTAL & & A. 1971

Genetics

- Nonsyndromic Autosomal dominant - MSX1
- PAX9
- AXIN2 linked to colorectal
- cancer - WNT10A - found in 30-50% of cases of nonsyndromic tooth
- agenesis Variable expression Variable penetrance

Epidemiology **Origins of Population**

- National Geographic Study in 2004- similarities to Lebanese people
- Cassar et al (2008)- Maltese most similar to Western Scilians
- DiGaetano et al (2008)
- Eastern Sicilians bear some similarities to Greeks
- Western Sicilians carry Phoenician/African genetic markers



Genetics

Syndromic

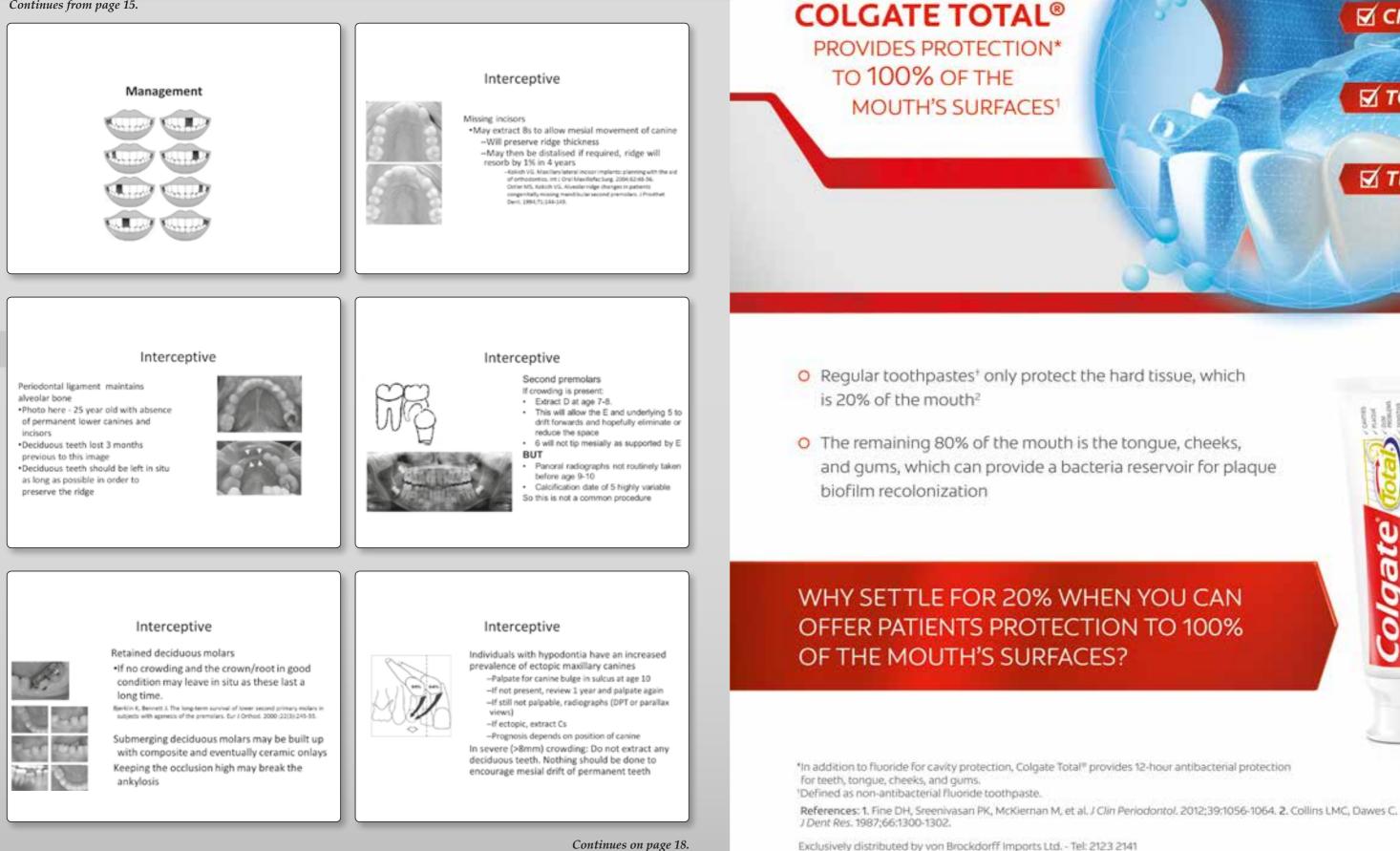
Generally inherited in a recessive pattern Hypohydrotic ectodermal dysplasias

- + EDA EDAR EDARADD genes
- Abnormal development of ectodermal structures including skin hair, nails, teeth, and sweat glands
- · Multiple missing unerupted and and conical teeth
- Severe forms require multidisciplinary specialist treatment

Environmental



Continues from page 15.



Colgate

The Dental Probe

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2017 -



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Autotransplantation

- Placement of premolar teeth in incisor area
- Premolar usually extracted due to crowding -Preferably root % formed but apes still
- open -If apex closed, will require RCT - reduces prognosis
- ·Space must be available or be created .Socket area must have adequate bone
- Extraction must be atraumatic and preserve periodontal ligament

Implants and Growth



Implants and Growth

·Sennerby - showed implants halted development of alveolar

Senseriny, Odmian, Lekholm, Thilander, Tusue machines towards tillaritum implants inserted in jowing jaws. A foliological shuty in the pig. Cliv. Dud implants Res 219(1), 6: 65-35

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 Overbite reduction Space closure/opening Aesthetic considerations Miscellaneous problems



Overbite reduction

- ·Hypodontia cases often have reduced vertical dimensions
- Forward growth rotation makes O8 reduction difficult - and makes prosthesis placement difficult
 - -Biteplanes -Ouring treatment -Ant. Biteplanes/Yurbobites - Must have lower incisors
 - -Retention
- -Curves of Spee -Intermaxillary elastics -Intrusion arches -TADS



Space closure



- Reduced number of teeth anchorage problems Steep cusps/low angle- hinders tooth movement
 - Space closure may be difficult, particularly in Class 1 or Class 3 cases -Intermaxillary elastics -Headgear -TADS

Space closure Aesthetic considerations



Gingival margin heights and neck widths also important in camouflage -Lateral gingival margin lower than that of incisor and canine -That of canine should be equal to incisor

-Premolar neck narrower than canine rotate Adjust bracket positions accordingly



Space closure Aesthetic considerations



- · Ideal position for peg laterals to be built up is slightly closer to central than canine -1/3:2/3
- Distal edge of lateral is curved, therefore more amenable to contouring
- Mesial edge is straighter

Space closure Aesthetic considerations

When replacing a central with a lateral

- Middle of space
- Tip crown distally to allow equal contouring on both sides
- Intrude to allow
- · Equal gingival margin levels · Placement of restorative material
- incisally
- Reduce overbite Result will rarely be 100% due to difference in neck width

Other movements of teeth

Intrusion



- Forced eruption · Unerupted teeth
- Crown lengthening

Retention

Space closure

The less crowding originally, the greater tendency to re-opening of spaces

- -Removable retainer
- -Fixed retainer beware of detachment*, particularly upper arch - 58% within 4 years**
- Anadvertant movement of teeth
- -Combination

**see 7. Assolt. A properties check evaluate intranslater input name service for 2 Orient 2112 54 470–474. **Schecker 5. Ref 5. Upper featurement Angle Debod 2011. 81 (200–103).



Other movements of teeth

·Aligning

-Facilitates prosthesis placement -Improves aesthetics

Uprighting

- -Paralleling of abutments "Space required distal to the tooth to be uprighted?
- *Oprighting by crown movement, root movement or a combination of both?
- "Should extrusion of the tooth be per-with the uprighting procedure?
- Opes the tooth at the other side of the space require any movement?



Teamworking is essential

- Treatment of severe hypodontia-oligodontia--an interdisciplinary concept.Worsaae N1, Jensen BN, Holm B, Holsko J. Int J Oral Maxillofac Surg, 2007 Jun;36(6):473-80. Epub 2007 Apr 12 [Denmark]
- +112 patients with oligodontia, 10 of which had ectodermal dysplasia
- *Base population of 500,000, birth-rate of 6,000 per year
- *Publicly funded but treated in hospital and private practice
- +97% needed orthodontics
- •90% of completed cases required implants to support fixed restorations
- +73% required ridge augmentation, 43% sinus floor augmentation
- +18% nerve transposition, 27% orthognatic surgery

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Continues from page 21.

The Dental Probe

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Communication is essential Orthodontist needs to know: •Position of prosthetic teeth •Spacing requirements •Type of restorations —Temporary —Final Orthodontist will then advise what is feasable Discussion will be required, face to face or electronic	 Implant Treatment in Patients with Severe Hypodontia: A Retrospective Evaluation. Creton M, et al. 2010 JOMFS 68(3):530-8 294 patients with oligodontia or severe hypodontia 44 pts (of which 6 were syndromic) received 214 implants mean age 21.9, mean 9.6 missing teeth Mean observation of 2.9 years Cumulative success of 89.9% at 5 years (mainly early losses) 25/44 pts needed bone augmentation 	 The systematic review mixed overdentures, crowns, bridges, resin retained prostheses Overdentures had a high failure rate FPDs/RRBs had similar survival rates as per expectation (80-99% after 4-15 years).
Which replacement? • Treatment Options • Implants • Conventional pros • Tooth Autotransplants • Preservation of deciduous • Independent Coduced rehabilitations in patients with consentially missing teeth - dental systematic review. Int Journal of Implant Dentistry 2015; 1:10	Implants in younger patients SURVIVAL IS AFFECTED BY AGE •Children <13 years 72.4% •Adolescents 13-18 years 93.0% •Adults >18 years 97.4% [mean 4.6 years follow-up, mixed studies, half retrospective]	



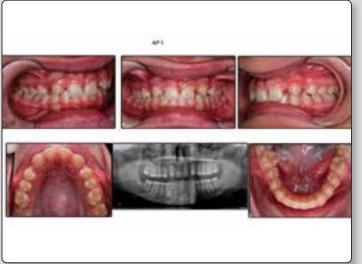
Success Range (44% outlier) 79-96% at 7.6 year followup
 Immature teeth do better than mature teeth
 Premolars (93%) do better than molars (60%) (one study)
 Better pulp and perio conditions if tooth was not moved
 orthodontically (one study)

Several studies showed 100% survival of transplants

Deciduous Teeth

 Six studies collected, reported survival of 86-91% at 12 years of followup

 Many surviving deciduous teeth (12-88%) have root resorption or infra-occlusion





Sept

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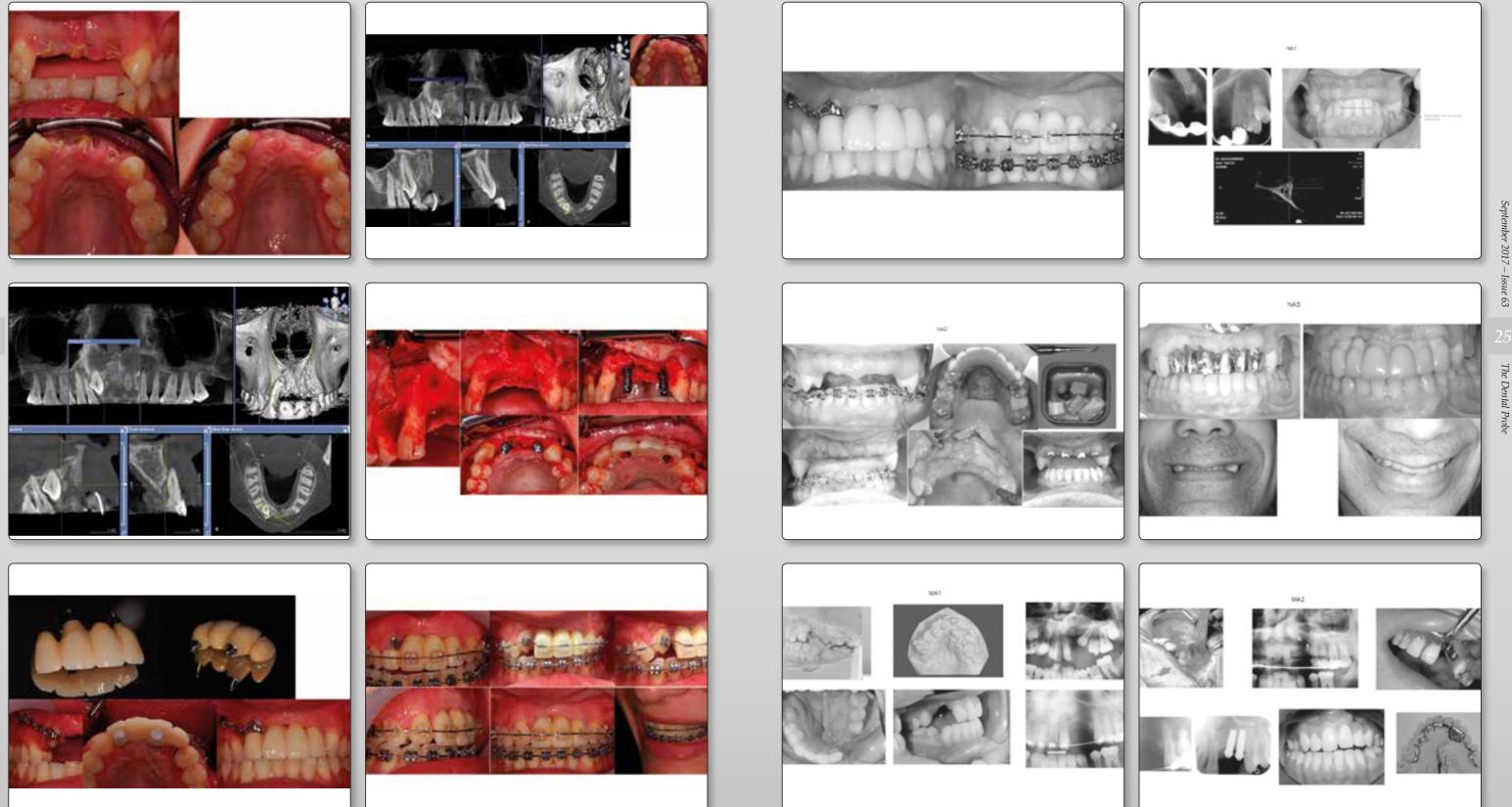
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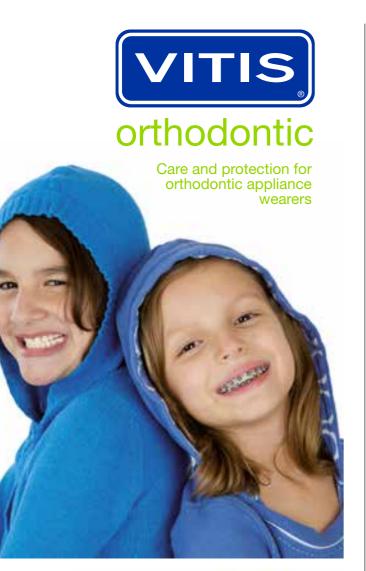
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BENEFITS AND DISCOUNTS FOR MEMBERS OF DAM

MIB has been working closely with DAM by offering its members an extensive and competitive Professional Indemnity cover for over 6 years.

Benefits and Discounts are also being offered to members of the Dentists Association on all their personal insurance requirements namely:

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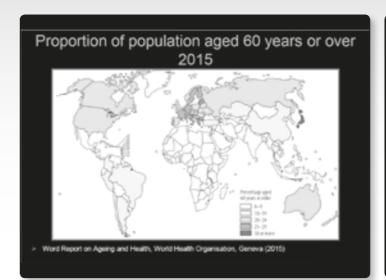
NeO IMPLANT SYSTEM

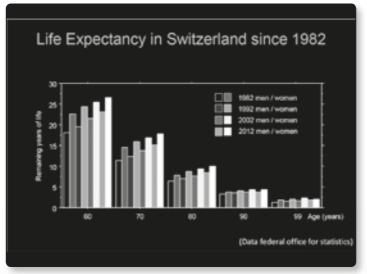
DESIGNED FOR BOTH STANDARD AND DEMANDING SURGICAL PROCEDURES TO PROVIDE RELIABLE, LONG TERM ESTHETIC RESULTS

Turns even the most complex clinical cases into simple ones



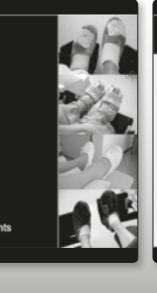
CHALLENGES IN GERIATRIC DENISTRY University of Dentistry, Gerodontology Division, Geneva UOM Lecture at Valletta Campus





Challenges in Dental Care for the Frail Elderly

- > mobility, team of careres, logistics
- communication
- multimorbidity and polypharmacy
- psychological alterations
- intia, Alzh
- motivation legal context
- > physical resistance to dental treatments

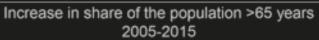


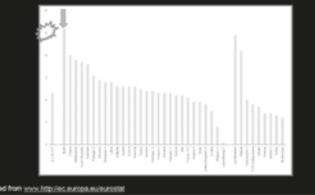
THE NEXT SENSATION by Alpha-Bio Tec.

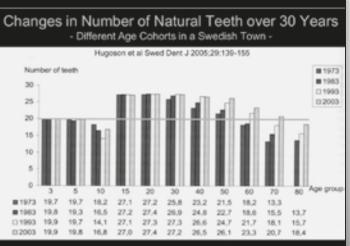










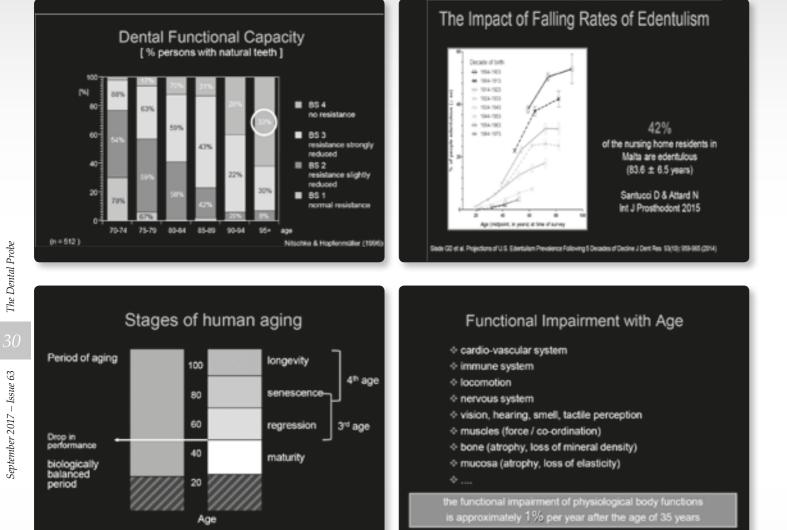


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The Dental Prob

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Changes of the Orofacial System in Old Age

bone	macroscopic histological functional	 atrophy coarse dilatation of the spongiosa mesh bone marrow—fat marrow brittleness
muscles	macroscopic histological	 atrophy fibre diameter -destruction interstitial fat- and connective tissue
	functional	 contractibility↓ stimulus threshold↓ enlarged motor units

Changes of the Orofacial System in Old Age

mucosa	macroscopic	R	epithelium thins out
	histological		pale, silky and mat shine no. of fibroblasts I
		Ľ	collagen fibres † elastic fibres ↓
	functional	1	elasticity 1
		►	mechanical properties I
TM-joint	macroscopic	;	degenerative diseases flattening of articular fossa
	functional	►	freedom of movement
nerves	functional	►	reflexes prolonged

Challenges of full denture wearing in old age



> difficult anatomical conditions

- > diminished motor skills
- > impaired mastication
- > malnutrution
- > often hyposalivation
- > low tactile sensitivity
- > reduced neuroplasticity
- > psycho-social limitations

The Activities of Daily Living

Instrumental ADLs

> Functional mobility

> Bathing and showering

> Dressing

> Self-feeding

Basic ADLs

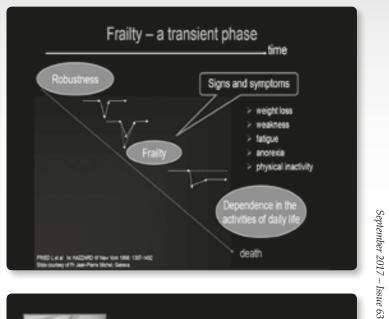
- Personal hygiene and grooming > Toilet hygiene

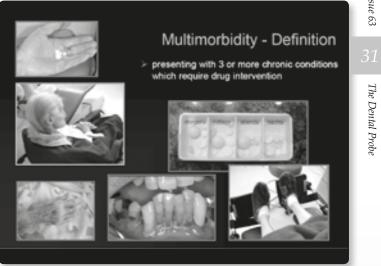
> Housework

- > Preparing meals
- > Taking medication as prescribed
- > Managing money
- Shopping for groceries or clothing > Use of telephone or other form of communication
- > Transportation within the community

Model of social support acquaintance Patient Kahn & Antonucci 1960

The Dental Probe





Self-Reported Well-Being in Old Age

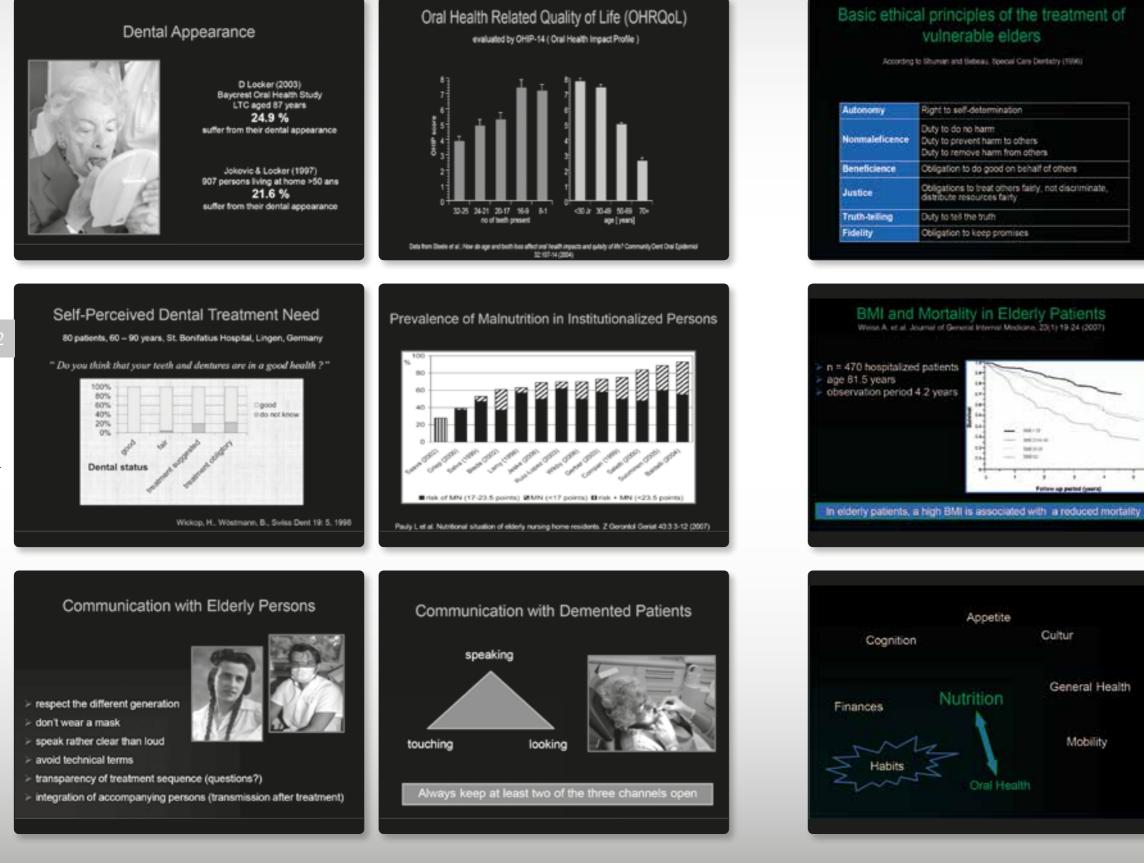
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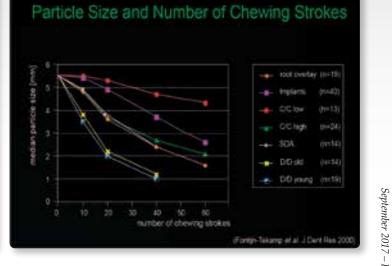


Bione AA, Schwartz JE, Broderick JE, Deaton A A snapshot of the age dishibution of psychologic well-being in the United States. Proc Natl Acad. Sic USA 2010 107(22) 9665-90

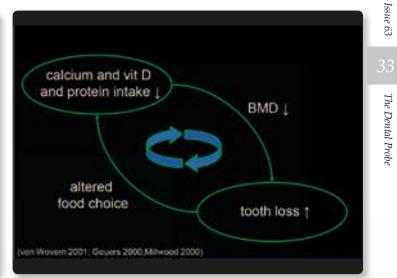
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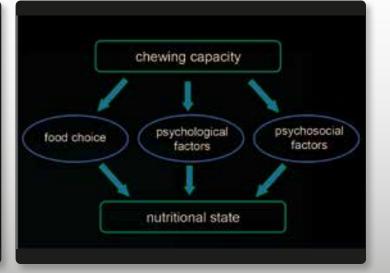
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September





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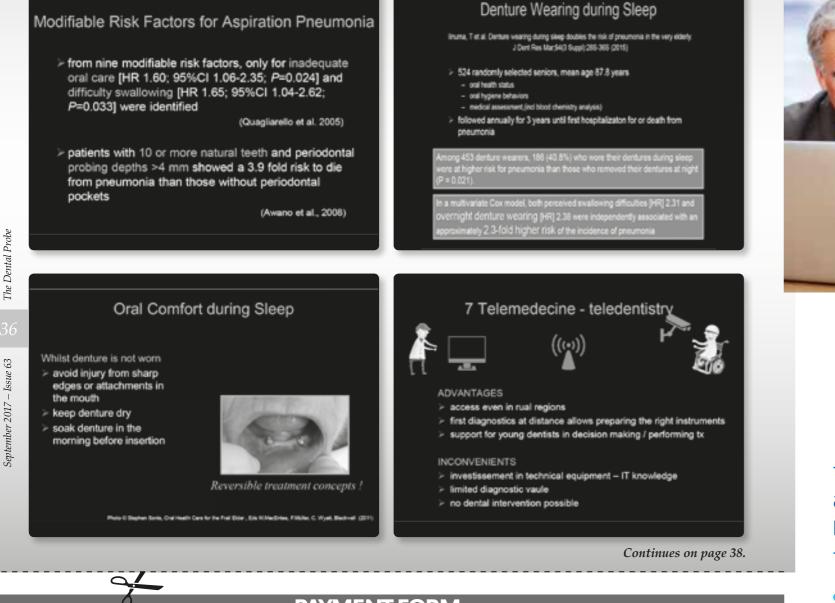


- Relative Risk (RR) 0.30 to 0.61
- Number Needed to Treat (NNT) from 9 to 15

Approximately 1 in 10 cases of death from pneumonia in institutionalised elderly may be prevented by improving oral hygiene

Spigron et al. Journal of the American Genatric Society 58: 2124-2130 (2008)

Continues from page 35.



PAYMENT FORM

Please cut out this section and send with a cheque for 50 euro payable to Dental Association of Malta for your 2017 DAM membership - the best 50 euro investment ever!

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The Treasurer, Dr Noel Manche, The Dental Association Of Malta Federation Of Professional Associations, Sliema Road, Gzira.

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- LONG LASTING PROTECTION by eliminating bacteria responsible for bad breath.

SUNSTAR



ALL DAY LONG

GUM

H-100-

G-U-M

GUM



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e-DENT project 2014	Public He	ealth	
ploted by Noolas Graudeau University of Montpellier		Processo	A DESCRIPTION OF A DESC
in France	displacement of patient	+/	
> aims to include LTC residents	financial investissement		
	logistics (complexity		
	working conditions		
District to one in California and Soldier rand	quality of care / intervertions		
 Projet #-DRVT: Selection (subcombine) and (1996) 4, Subsymmet Research to Networkshife (se Research to Europeaners an Televisiajering of 31/2 jun 2014 p. 01.08) 	infection control		

Potential Barriers for Dental Care

- reduced mobility of the patients
- expenses out of own pocket
- reluctance of dentists to deliver care for the elderly.
- inadequate knowledge in Gerodontology
- inadequate working conditions / Dental facilities in LTCs and at domicile.
- shift in priorities of elderly multi-morbid patients.

D. L.B. L		auga la C		Destates
HUD:IC H	leaith is	sues in C	reusing	: Dentistry

oncepts for Dental Care

- > increase awareness of health policy makers, dentists, health professionals and patients
- > identify barriers for utilisation of dental care
- reduce administration
- > provide adequate equipment for dental care at home or LTC
- undergraduate teaching
- structured post-graduate training

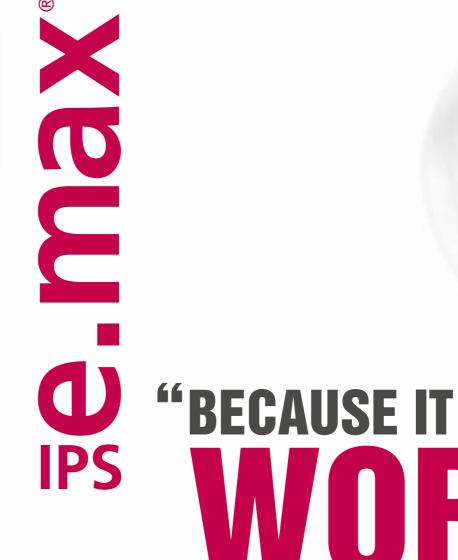
Demands from Health Policy Makers

- recognize of dentistry as part of medicine
- > integrate oral health in every general prevention campaign
- strengthen interdisciplinary approaches
- add gerodontology to the dental, medical and nursing curriculum
- allocate sufficient funds for (oral) health care



Oral Health Model of the SSGS





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Spitex nursing personnel

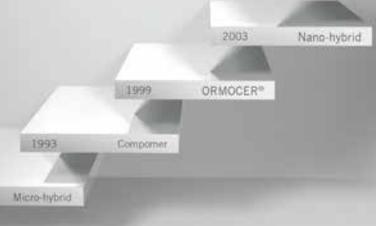
- nursing personnel
- LTC management
- consulting physicians
- Universities
- health authorities

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*in comparison to all conventional restorative composities







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