

the

143RD 
CHICAGO DENTAL SOCIETY

MIDWINTER MEETING

The respected leader in scientific dental meetings

SCIENTIFIC PROGRAM: FEBRUARY 21 - 24, 2008

EXHIBIT DATES: FEBRUARY 22 - 24, 2008

#### COURSE F10 OVERDENTURES: THE EASY ENTRANCE INTO IMPLANT TREATMENT RICHARD E. JONES, DDS, MSD THURSDAY, FEBRUARY 21, 2008

**DISCLAIMER:** This work, audio recordings and the accompanying handout, are the intellectual property of the clinician, and permission has been granted to the Chicago Dental Society, its members, successors and assigns, for the unrestricted, absolute, perpetual, worldwide right to distribute solely as an educational material at the scientific program being presented at the 2008 Midwinter Meeting. Permission has been granted for this work to be shared for non-commercial education purposes only. No other use, including reproduction, retransmission in any form or by any means or editing of the information may be made without the written permission of the author. The Chicago Dental Society does not assume any responsibility or liability for the content, accuracy, or compliance with applicable laws, and the Chicago Dental Society shall not be sued for any claim involving the distribution of this work.

# CHICAGO DENTAL SOCIETY MIDWINTER MEETING COURSE EVALUATION

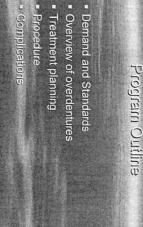
SPEAKER:	DATE:		7
SUBJECT:	NUMBER OF ATTENI	DEES:	
PLEASE RATE YOUR SPEAKER AS TO:  SUBJECT SELECTED	Fair Poor		
	200	00	
MEETING YOUR EXPECTATIONS	2 2	00	
4 4	2	0 0	
DELIVERY	222	000	
APPROPRIATE AUDIOVISUALS	222	000	
OVERALL EVALUATION OF THE PROGRAM	2	0	
SHOULD THIS SPEAKER BE INVITED FOR FUTURE MEETINGS? YES NO			
WHAT TOPICS INTEREST YOU FOR THE FUTURE?			
COMMENTS (use reverse if you need additional space):			
NAME (REQUESTED BUT NOT REQUIRED—PLEASE PRINT):			

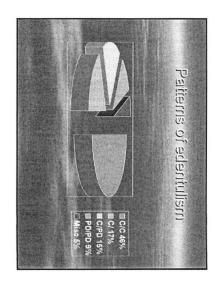
Spansored by the preferred provider GE Healthcare Financial Services of financing for members of the Chicago Dental Society

DO NOT FOLD CARD. FOR CDS PERMANENT FILES.

RETURN EVALUATION CARD TO: Chicago Dental Society Aloysius F. Kleszynski, DDS 401 N. Michigan Ave., Suite 200 Chicago, IL 60611-5585







# STANDARD of CARE

- McGill University Consensus Symposium on Overdentures, May, 2002
   There is now overwhelming evidence that a two-implant overdenture should become the
- There is now overwhelming evidence that a two-implant overdenture should become the first choice of treatment for the edentulous mandible
- Ethics requires the presentation of the implant option to all patients with lower dentures

#### Implant Overdentures he Standard of Care for Edentulous Pati

The Standard of Care for Edentulous Patients
J.S. Feine, G.E. Carlsson, Ountessence

Complete upper & lower dentures reduce

- biting force to 20%

  Complete upper denture with lower implant overdenture restore chewing efficiency (by
- Nutrition is enhanced in several ways

blood nutrients) to 95%

# Overview of Overdentures

- They preserve bone
- Tooth supported have a poor prognosis and low function
- Implant supported restore function at a high level
- Enhance retention, stability and fit
- DECREASE PO ADJUSTMENTS

# Overview of Overdentures

- Saves money over 10 years-good long term investment-fewer remakes
- Denture adhesive costs \$500 million/year
- Increased patient satisfaction (with you)
- No decay, no perio, no endo
- Avoids compromising other teeth Increased self-esteem

# Overview of Overdentures

- Surgery is easy
- Location can be compromised
- Angulation can be compromised (40°?) This is not a goal & creates problems
- Shorter than short implants can be used

# Overview of Overdentures

Occlusion and fit are more critical poorly constructed prosthesis Implants do not compensate for a

A good treatment plan is critical

### Quality of Life

Why should you treatment plan overdentures?

- Does anyone place a value on quality of
- Who's quality of life is more valuable, your kids, yours, your mother's, or your grandmother's?

 Provides new support Conservative Standard of care

Consumer demand

Smart business

### TREATMENT PLANNING THE MANDIBLE

- You must start with an excellent denture situation (likely remake C/C)
- Two implants are all you need
- Between the mental foramen
- You might plan for the possibility of additional fixtures for a fixed treatmen
- BARS ARE FOR DRINKING, \$\$\$, and screwing the patient (in general)

#### Bars are for drinking Lyndon Cooper, UNC

- For malposed implants
- For the maxilla maybe
- There is no evidence to suggest an advantage in splinting to other implants or teeth in the mandible
- Costly, hygiene is difficult, tissue Passive fit is essential hyperplasia is very common
- Requires excessive space within the acrylic

#### TREATMENT PLANNING THE MANDIBLE

- Three or more implants create complex rotational paths and maintenance issues
- Locator attachments last for 60,000 cycles
- ERAs last for 8500 cycles
- O rings are for plumbers
- Metal wears metal

# Imm tissue height is ideal

#### TREATMENT PLANNING उठा उठा

the questionable dentition

for distal extension support

adverse fixture location

## TREATMENT PLANNING THE MANDIBLE

- A panoramic study works well for most
- Medical review (Fosamax and impending
- Anatomical review
- An implant stent is a necessary part of the restorative treatment plan

#### TREATMENT PLANNING THE MAXILLA

- It's not a very good place to start
- There are no good studies about the efficacy of maxillary overdentures
- Don't expect good longterm success with two implants

 Four well placed implants will not be as successful as a fixed treatment on six

## PROCEDURE

- 1. Exam, medical review, study casts
- Panoramic radiograph with markers (on a better than average denture) to locate the foramen. Use foil strips, SS balls, etc
- Treatment plan
- 4. Case presentation

## What about fees?

- You will save a great deal of time on POs
- /C fee + hardware + stent + 3 mos post surg adj – PO
- Restorative fees should be "pending abutment evaluation"
- You can always give a refund

## Case Presentation

- DISCUSS VALUE FIRST
- Enhanced chewing, stability and comfort
- Preserves irreplaceable bone
- Most lower overdentures pay for them selves in less than 10 years; fewer relines and remakes
- Place a value on quality of life (the tooth fairy story helps)

#### Spin Selling Neil Rackham

Situation (no teeth)

Problem (no support/retention)
Implication of the problem (toss)

bone/function/comfort)

Need (support/root replacement)

preservation of treatment money)

Payoff (quality of life,

## PROCEDURE

5. Specially coordination The state of art is the restoratively driven implant. This places the responsibility on the restorative dentist to coordinate patient, laboratory and surgical needs

# Who drives the treatment?

- The surgery should be restoratively driven
- Surgeons should not be put in the position of designing the restoration, the implant location, or fabricating the stent.

  It is difficult to maintain accurate position.
- It is difficult to maintain accurate position when doing freehand surgery and surgeons do not make dentures.
- They will help with the biologic factors, bone factors, med hx, healing, etc

## PROCEDURE

• 6 Implant needs: How many? How wide? How long? What surface? What platform? What attachment do you want to use?

## Biomechanics

- Removable prostheses move
- Movement causes wear
- Soft tissue adaptation must be mucostatic to protect the implants & attachments
- The mandible flexes (avoid additional Complex rotational axis create problems

implants distal to the premolars)

## Biomechanics

Length:10-15mm

Two will make the 95% of previous denture

How many implants do you need?

Do you want an easy and cheap to or not?

wearers ecstatic and only has one fulcrum

Three can create problems with the center

Four (6 julcrums) and would be better

attachment or implant.

treated with a fixed bridge.

- Bone quality is important

- Diameter is more important than length

## Implant surface is significant Smoking (≥1 pk/d) is a problem

#### or implant location Stent Design

- Alveo-5mm for virgin patient (Locator
- Crest of ridge Axis of implant to be within mandible requires 2.5 mm)

Duplicate denture with 2mm holes for

Incorporate hardware within the acrylic

7. Stent Design

Did you need an alveo?

casual surgeons or

baseplate with SS sleeves for casual

holes for the most experienced who

remember what // & ⊥ means

- Hardware to be within denture base
- ≥ 5mm medial to mental foramer
- Consider arch curvature
- Consider adding future implants for fixed tx.

## Stent fabrication

- 1. Mark the ridge crest on the cast
- Mark implant position
- Set surveyor tilt for angle of bone
- Drill dimples
   Set SHP bur with SS sleeve
- 6. Attach to resin baseplate
- 8. Remove & replace SS sleeve

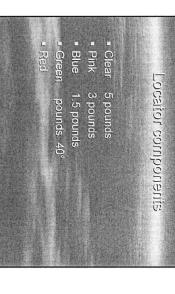
#### 5

## Surgery Post surgical adjustment PROCEDURE

#### Hygiene instructions: brush & gauze Ream out denture: 2-3mm of space Soft liner (Coesoft) Reline at 3 mos PO @ 1 wk, 1 mo, ■ Prophylaxis q 3 mos the first year 24-48 hours Start new /OC at 2 mos, torque @ delivery Post surgical Adjustment



#### 4. Insert impression analogue & pour 3. Impression-rigid material 2. Place impression coping on abutment Process overdenture Deliver abutment Focator brocedure



■ The lab work is no better than your

12. Laboratory

treatment plan, fixture placement, directions

The best lab can't make a silk purse out of a

sows ear.

and casts.

# Impression or "clinical pickup"

- Easier
- Less risk
- More accurate

Cheaper (if it works)

Quicker

 Usually needs a reline anyway

attach/tissue relation

Requires less skill and

# 12.

- PIP and occlusal adjustment
- Remove black processing piece with HOOK
- Start with the Pink Locator or select

# Deliver prosthesis

- according to patient needs

# <u>ر</u> دن ا PO adjustments & Recare

- You may need to change attachment @ PO
- Prophylaxis every 3-12 months
- Annual recare with new attachment.
- Evaluate for annual reline
- Evaluate tooth wear and occlusal change
- Tap on attachment
- Medical history update

## COMPLICATIONS

- Soft tissue health
- Lack of retention
- Fracture of denture base
- Wear of components (poor placement)
- Bone loss: vertical or horizontal Loosening of components

#### SUMMARY

- Implanit retained mandibular overdentures are the STANDARD of CARE. Complete lower dentures and partial dentures replacing all posteriors are doomed.
- A multidisciplinary team with lab & surgeon is more essential than with other txs
- Locators make for ease and success.
- Overdentures require maintenance.

#### SUMMARY

- Maxillary overdentures are controversial and lack evidence base
- Bars are for drinking
- O rings are for plumbers
- Metal wears metal
- It is the responsibility of the restorative lentist to guide the treatment plan and

fixture position