

PROSTHODONTICS

1st year - January 2011

Why should I learn anything
about Prosthodontics?

Asbjørn Jokstad
Head, Prosthodontics

1. Why should I learn anything about Prosthodontics?

Because you may become competent to predictably treat patients with these conditions:



2. What are the common characteristics of these individuals' condition?



Loss of:

Morphology

Function

Neuro-physiology mechanisms

3. What characterizes the individuals with these conditions?



How do each individual cope with their condition? →

Who becomes a patient?

Why?

What are their expectations for improvement?

4. What may have caused the condition?

Wear



Friction

External (“abrasion”)

Internal (“attrition”)

Chemical (“corrosion/erosion”)

External (Diet)

Internal (e.g. GERD)

4. What may have caused the condition?

Wear

Single space

- Congenital
- Trauma
- Caries
- Periodontitis



4. What may have caused the condition?

Wear

Single space

Partial Dentate

Congenital

Trauma

Caries

Periodontitis



4. What may have caused the condition?

Wear

Single space

Partial Dentate

Edentulous jaw

Caries?

Socio-economic

Disuse atrophy



4. What may have caused the condition?

Wear

Single space

Partial Dentate

Edentulous jaw

Terminal dentition

Caries

Periodontitis

Oral Health

Negligence



4. What may have caused the condition?

Wear

Single space

Partial Dentate

Edentulous jaw

Terminal dentition

Extensive tissue loss

Trauma

Cancer

Primary

Secondary



4. What may have caused the condition?

Wear

Single space

Partial Dentate

Edentulous jaw

Terminal dentition

Extensive tissue loss

Congenital

Oligodontia

Cleft Lip/Palate

Amelogenesis Imp.

Dentinogenesis Imp.

Osteogenesis Imp.

Ectodermal dysplasia

+++



5. A holistic approach to patient care

Wear
Single space
Partial Dentate
Edentulous jaw
Terminal dentition
Extensive tissue loss
Congenital



1. SITUATION: What is the patient's problem?
2. CAUSE: What is at the root of the patient's problem?
Active Disease?
Consequences of a disease?
3. PROCESS: How can the patient's problem be solved?
4. RESULT: To what extent has the patient's problem been solved?
5. PROGNOSIS: How can the patient prevent future problems?

5. A holistic approach to patient care

Wear
Single space
Partial Dentate
Edentulous jaw
Terminal dentition
Extensive tissue loss
Congenital



1. **SITUATION:** What is the patient's problem?
2. **CAUSE:** What is at the root of the patient's problem?
Active Disease?
Consequences of a disease?
3. **PROCESS:** How can the patient's problem be solved?
4. **RESULT:** To what extent has the patient's problem been solved?
5. **PROGNOSIS:** How can the patient prevent future problems?

6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear



Tissue-retained
Tooth / teeth-



6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear
Single

Tissue-retained
Tooth / teeth-



Implant-retained



6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear
Single space

Partial Dentate



Tissue-retained

Tooth / teeth-

Mucosa-

Tooth/teeth + mucosa-

Implant-retained

(Implant+tooth-)



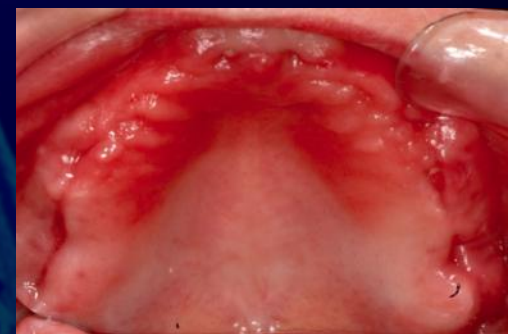
6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear
Single space
Partial Dentate
Edentulous jaw
Terminal dentition

Tissue-retained

Mucosa-

(Implant-retained
Implant+mucosa)



6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear

Single space

Partial Dentate

Edentulous jaw

Terminal dentition

***Extensive
tissue loss***

Tissue-retained

Tooth / teeth-

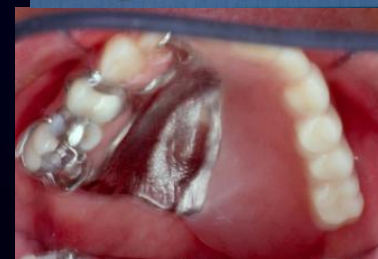
Mucosa-

Tooth/teeth + mucosa-

Implant-retained

Implant+tissue-

(Implant+tooth-)



6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear
Single space
Partial Dentate
Edentulous jaw
Terminal dentition
Extensive tissue loss

Congenital

Tissue-retained

Tooth / teeth-

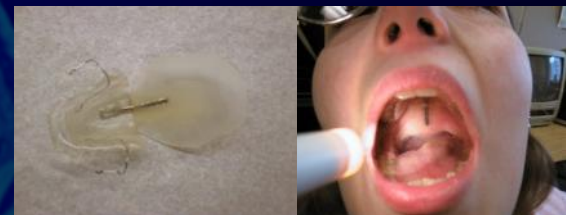
Mucosa-

Tooth/teeth + mucosa-

Implant-retained

Implant+tissue-

(Implant+tooth-)



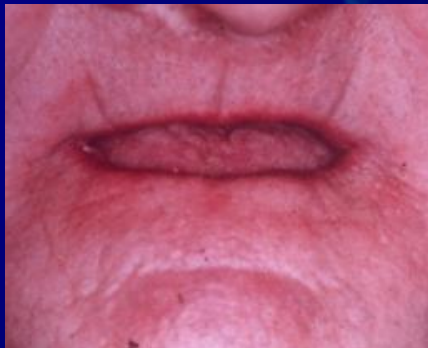
6. PROCESS: How can the patient's problem be solved by a prosthetic solution?

Wear

Single space

Partial Dentate

Edentulous jaw



Tissue-retained



Mucosa-



Implant-retained

















Implant+mucosa-



Summary – 1st year prosthodontics

7. A selection of procedures forming a sequence for fabricating a mucosa/implant-retained dental prosthesis
6. The perceived/real problem of a patient with an edentulous jaw may be alleviated with a mucosa/implant-retained prosthesis
5. What may have caused the patient's condition needs to be addressed before commencing prosthodontic care
4. How each individual cope with their condition determines whether a perceived or real need for a prosthesis arise
3. Loss of hard or soft tissues is associated with morphology changes, changed function and neurophysiology mechanism
2. Prosthodontic care constitutes (1) appraisal of the patient's individual situation and cause(s), (2) the prosthesis fabrication process, (3) evaluation of the result and (4) - prognosis
1. Prosthodontic teaching objective is to make you competent to predictably treat patients with acquired or congenitally missing loss of hard or soft tissues

Sequence of procedures for fabricating a full mucosa-retained dental prosthesis; a “denture”

	Clinic session 1	Prescription/ Laboratory Session 1	Clinic session 2	Prescription/ Laboratory Session 2	Clinic session 3 (/++)	Prescription /Laboratory Session 3	Clinic session 4	Prescription / Laboratory Session 4	Clinic session 5	Prescription/ Laboratory Session 5	Clinic session 6 (/++)
Full Dental Prosthesis	00 Pre-prosthetic Care	04 Pouring and trimming of stone cast	06 Verify laboratory work	09 Trimmed master cast	11 Verify laboratory work	17  Articulator selection & mounting	19 Verify laboratory work	22 Posterior tooth setup 	23 Verify laboratory work	26 Denture processing and completion 	27 Verify laboratory work 
“Denture” 42e.1	01 Treatment Planning 	05  Impression tray 	07  Bordermold and impressions	10 Occlusal rims on base	12 Occlusal rims customized	18 Anterior teeth setup	20 Intra-oral verification		24  Intra-oral verification		28.  Intraoral check 
Click here to see flowchart in vertical view (.pdf)	02 Tray selection and impression		08 Disinfection		13 Facebow registration		21 Disinfection		25 Disinfection		29  Patient advise oral hygiene
	03 Disinfection				14 Maxillo-mandibular relations index						30  Adjustment appointment
					15 Planning of prosthesis design , including shade and mold Material choice						+ + Possible Session
					16 Disinfection						31  Possible discomfort

Sequence of procedures for fabricating a full mucosa-retained dental prosthesis; a “denture”

	Clinic session 1	Prescription/ Laboratory Session 1	Clinic session 2	Prescription/ Laboratory Session 2	Clinic session 3 (/++)	Prescription /Laboratory Session 3	Clinic session 4	Prescription / Laboratory Session 4	Clinic session 5	Prescription/ Laboratory Session 5	Clinic session 6 (/++)
Full Dental Prosthesis	00 Pre- prosthetic Care	04 Pouring and trimming of stone cast	06 Verify laboratory work	09 Trimmed master cast	11 Verify laboratory work	17 Articulator selection & mounting	19 Verify laboratory work	22 Posterior tooth setup	23 Verify laboratory work	26 Denture processing and completion	27 Verify laboratory work
“Denture” 42e.1	01 Treatment Planning	05 Impression tray	07 Border mold and impressions	10 Occlusal rims on base	12 Occlusal rims customized	18 Anterior teeth setup	20 Intra- oral verification		24 Intra- oral verification		28. Intraoral check
Click here to see flowchart in vertical view (.pdf)	02 Tray selection and impression		08 Disinfection		13 Facebow registration		21 Disinfection		25 Disinfection		29 Patient advise oral hygiene
	03 Disinfection				14 Maxillo- mandibular relations index						30 Adjustment appointment
					15 Planning of prosthesis design , including shade and mold						+ + Possible Session
					Material choice						31 Possible discomfort
					16 Disinfection						

PROCESS: Lectures & Laboratory exercises

Hasan Alkumru (DIR)

+

Raymond Bucoy

Marilou Calansingin

Joseph Fava

Eszter Ganss

Reena Garcha

Eva Kiss

Chistiana Martine

Romeo Paculanan

Emilio Raimondo

Maurice Taylor

Brent Winnett

