

# *PROSTHODONTICS*

*IDAPP- January 2011*

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Prosthodontics – perspectives of  
the University of Toronto

Asbjørn Jokstad, DDS, Dr. Odont.  
Professor and Head, Prosthodontics

# IDAPP Prosthodontics Course

Component of total IDAPP program has been specified by Faculty. Each component of the program has been accredited by CDAC.

Consists of a didactic and a laboratory part

Didactic format: Whole class interactive response system → small group allocation by responses and seminars → whole class seminar

Course responsible:

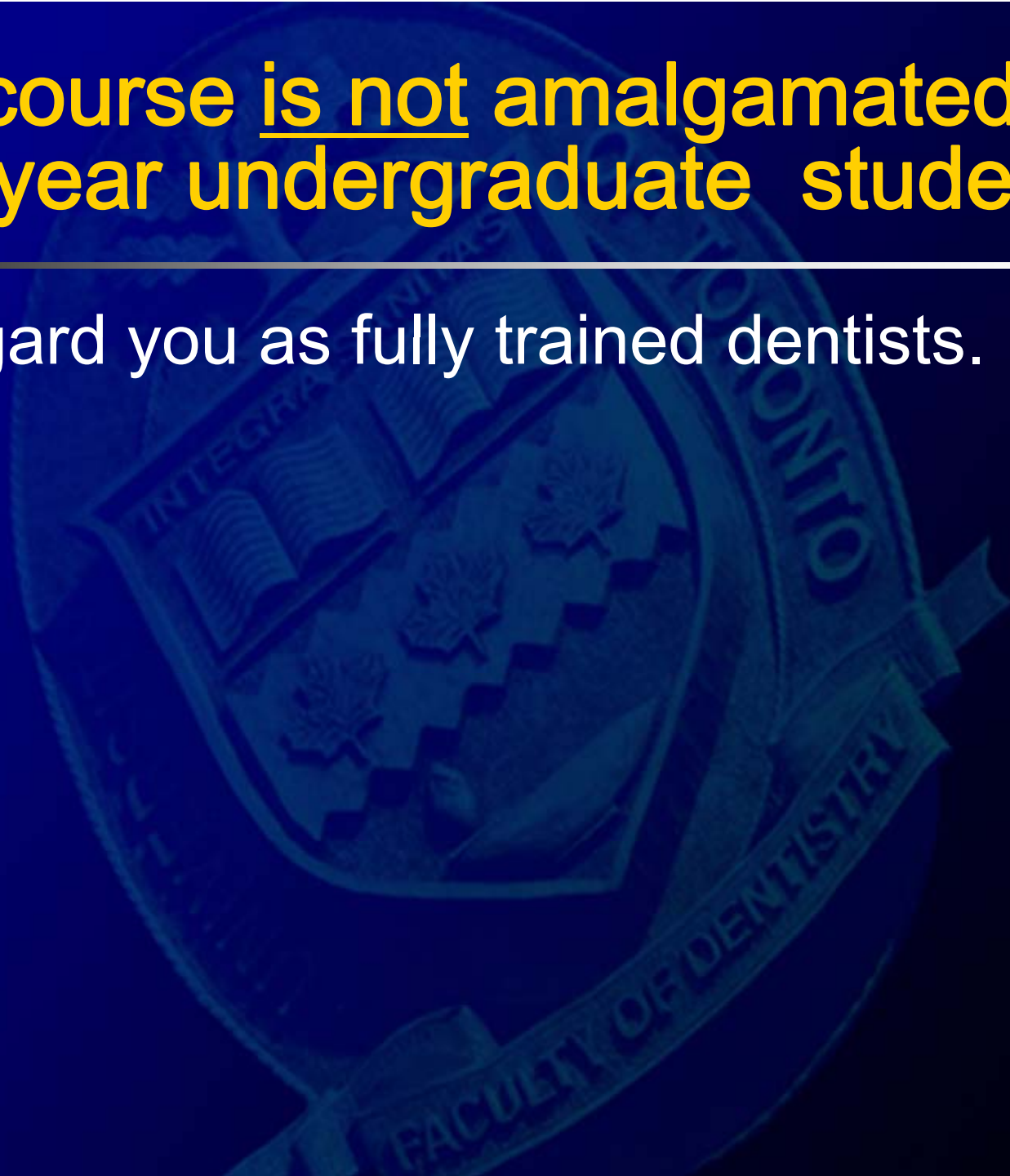
Drs Mark Lin & Romeo Paculanan +

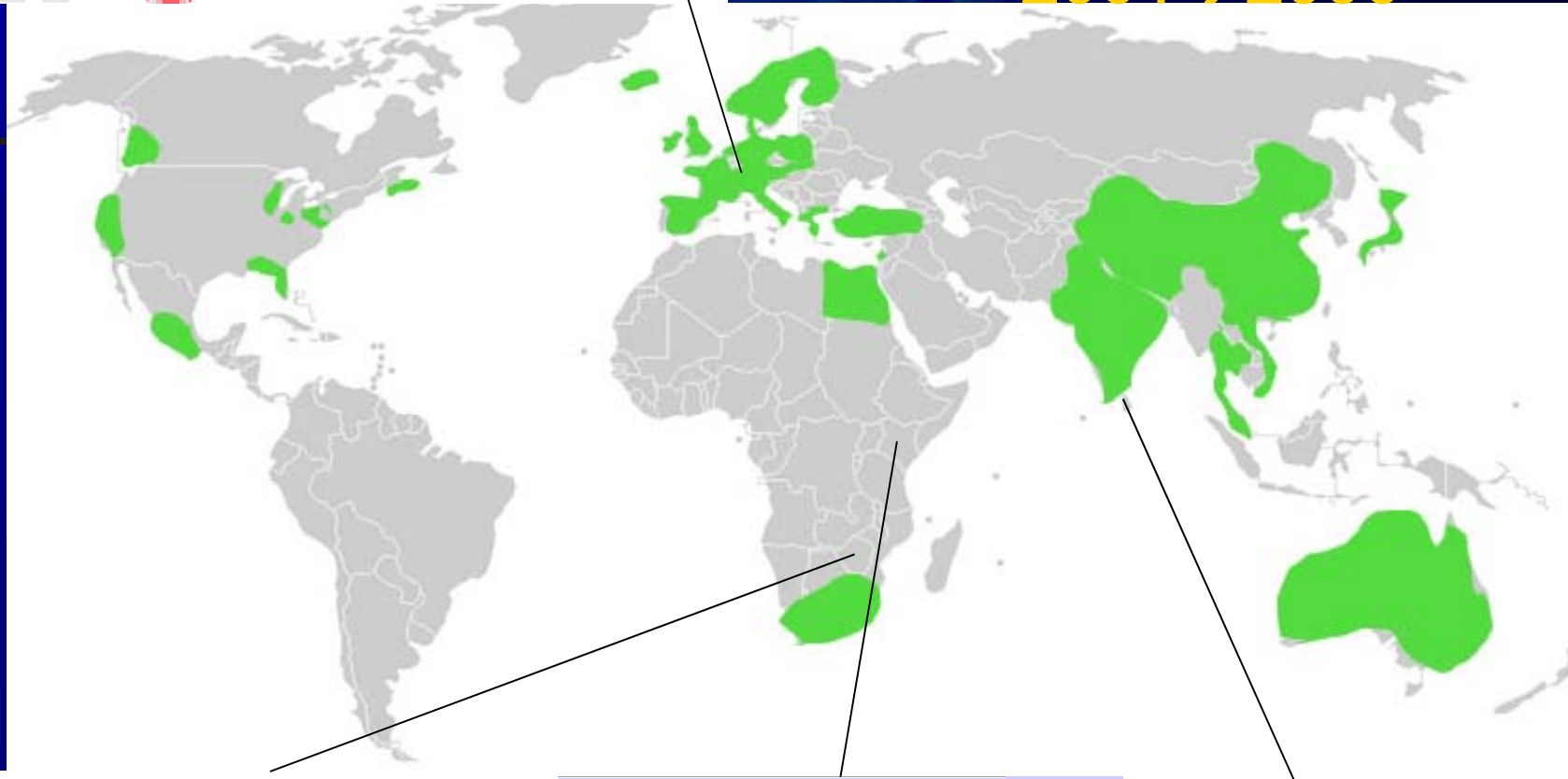
Drs Randa Diwan & Mohammed Zahran

This course is not amalgamated with  
2<sup>nd</sup> year undergraduate students

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- We regard you as fully trained dentists.





 **ZIMBABWE DENTAL ASSOCIATION (ZiDA)**

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**Principal Objects of the Zimbabwe Dental Association**

**Summary of the oral health services in Zimbabwe**


**Rules and regulations to practice as an oral health service provider in Zimbabwe**

**Zimbabwe Dental Association Contact Persons**

**Studying dentistry in Zimbabwe**

**ZiDA Annual General Meeting (AGM)/Continuing Education Week**

**National Oral Health Week**

 **KENYA DENTAL ASSOCIATION (KDA)**

Kenya Dental Association  
P.O.Box 20059  
00200 City Square  
Nairobi  
Kenya

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**NEWS**

**History**

**Principal KDA Officers - 2004/2005**

**Important Kenyan Dental Personalities**

**Forthcoming events**

**Links**

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**History**

- 1.The KDA is 27 years old
- 2.KDA is a member of FDI
- 3.KDA is a member of APSEA (Association of Professional Societies of East Africa)
- 4.KDA participates in IADR East and Southern Africa Division activities
- 5 There is 1 Kenyan Dental School at the University of Nairobi which is 31 years old and offers undergraduate training and residency programs in Pediatric Dentistry and Oral and Maxillofacial Surgery.
- 5.KDA Official quarterly publication is the - African Journal of Oral Health Sciences

[Council](#)   [History](#)   [Branch Associations](#)   [Sub Committees](#)  
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**SRI LANKA DENTAL ASSOCIATION**



**Address:**  
275/75, Professional Centre  
Buddhaloka Mawatha  
Colombo, 7  
Sri Lanka

**Telephone / Fax - 94-1-595147**

**E-Mail: [info@sri Lanka.dental.association.lk](mailto:info@sri Lanka.dental.association.lk)**

# This course is not amalgamated with 2<sup>nd</sup> year undergraduate students

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- We regard you as fully trained dentists
- Your real or perceived learning needs are not congruent with the novices'



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- We regard you as fully trained dentists
- Your real or perceived learning needs are not congruent with the novices'
- We aim to maintain your professional self-assurance while recognizing a potential lack of familiarity with the framework for the practice of prosthodontics in Canada
- **We will strive to individualize your learning needs by the active use of an auditorium response system**

# The framework for the practice of prosthodontics in Canada

Competency to predictably treat patients with these conditions:



No reliable statistics indicating prevalence in populations or subpopulations in Ontario or Canada



# The common characteristics of these individuals' condition



Loss of:  
Morphology  
Function  
Neuro-physiology mechanisms

Nothing particular to  
Ontario / Canada

# 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?

Socio-cultural  
determinants



# Considerations relative to the condition

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## *Wear*

Etiology?:

Friction

External (“abrasion”)

Internal (“attrition”)

Chemical (“corrosion/erosion”)

External (Diet)

Internal (e.g. GERD)



Nothing particular to  
Ontario / Canada

# Considerations relative to the condition

*Wear*

***Single space***

Etiology?:

Trauma

Caries / Periodontitis



Nothing particular to  
Ontario / Canada



# Considerations relative to the condition

*Wear*

*Single space*

***Partial Dentate***

Etiology?:

Trauma

Caries/ Periodontitis



Nothing particular to  
Ontario / Canada

# Considerations relative to the condition

*Wear*

*Single space*

*Partial Dentate*

***Edentulous jaw***

Etiology?

Socio-cultural  
association

Denturism

Disuse atrophy





# Considerations relative to the condition

---

*Wear*

*Single space*

*Partial Dentate*

*Edentulous jaw*

***Terminal dentition***

Etiology?

Socio-cultural  
association

Caries/Periodontitis

Oral Health

Negligence



# Considerations relative to the condition

---

*Wear*

*Single space*

*Partial Dentate*

*Edentulous jaw*

*Terminal dentition*

***Extensive tissue loss***

Etiology?:

Trauma

Cancer



Partial funding of  
specialist care in  
Ontario / Canada



# Considerations relative to 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

+++



Partial funding of  
specialist care in  
Ontario / Canada

# A holistic approach to patient care

1. SITUATION: What is the patient's problem?

*Wear*

*Single space*

*Partial Dentate*

*Edentulous jaw*

*Terminal dentition*

*Extensive tissue loss*

*Congenital*



## Choice of technical solution ?



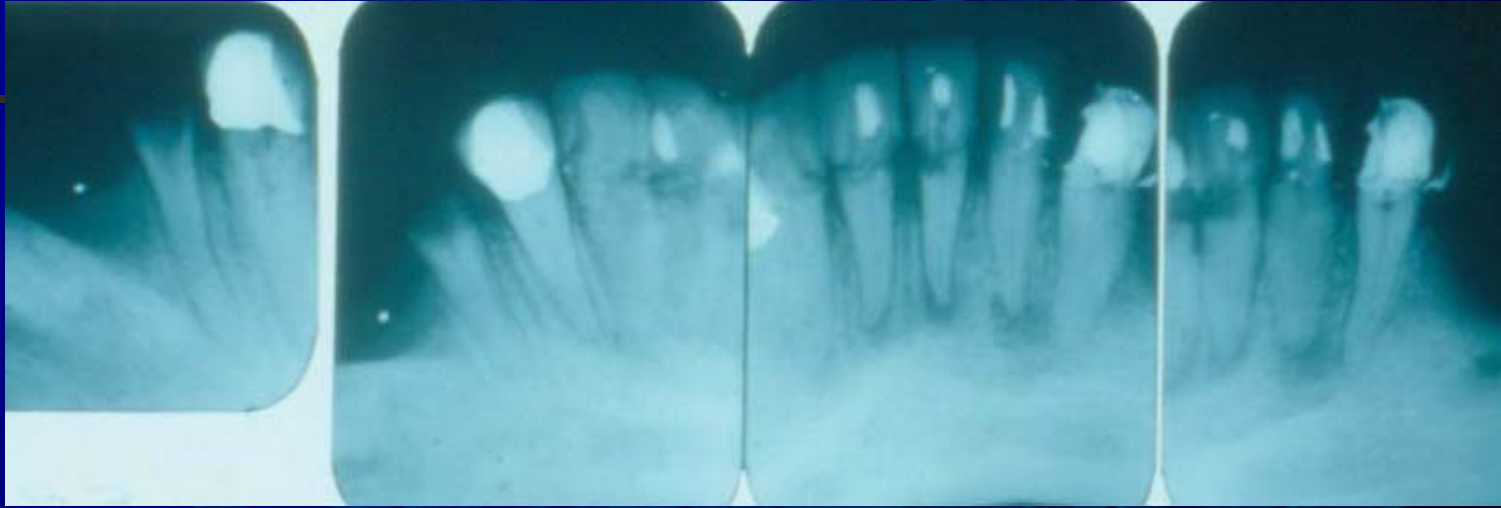
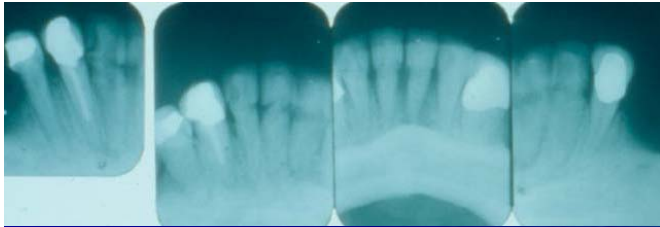
76 yrs  
Dry mouth  
Caries

?

- A. Restorative only, no prostho
- B. Cast partial denture +/- crowns
- C. Fixed bridge
- D. Implant retained prosthesis
- E. Other



## Choice of technical solution ?



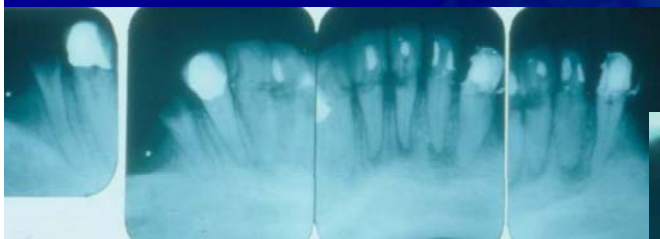
?

76 yrs + 2  
Dry mouth  
Caries

- A. Restorative only, no prostho
- B. Cast partial denture +/- crowns
- C. Fixed bridge
- D. Implant retained prosthesis
- E. Other



## Choice of technical solution ?

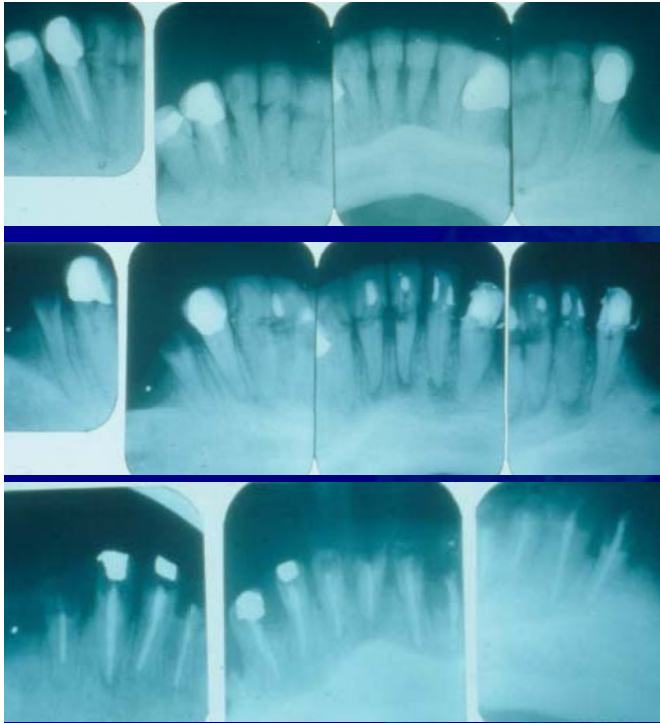


76 yrs + 2 + 1.5  
Dry mouth  
Caries

?

- A. Restorative only, no prostho
- B. Cast partial denture +/- crowns
- C. Fixed bridge
- D. Implant retained prosthesis
- E. Other

## Choice of technical solution ?



76 yrs + 2 + 1.5 + 1  
Dry mouth  
Caries

?

- A. Restorative only, no prostho
- B. Cast partial denture +/- crowns
- C. Fixed bridge
- D. Implant retained prosthesis
- E. Other

**Choice of technical solution  
≠ Patient management!**



**+ <1 year**

**Doing the right thing vs.  
Doing the thing right**



# 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?





# A holistic approach to patient care

*Wear*  
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1. **SITUATION:** What is the patient's problem?
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Consequences of a disease?
3. **PROCESS:** How can the patient's problem be solved?



# A holistic approach to patient care

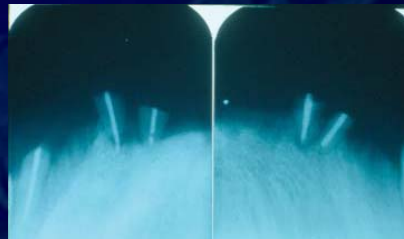
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2. **CAUSE:** What is at the root of the patient's problem?  
Active Disease?  
Consequences of a disease?
3. **PROCESS:** How can the patient's problem be solved?
4. **RESULT:** To what extent has the patient's problem been solved?



## Treatment planning - take-home message

Educating the patient how to avoid future oral disease (and treatment) is a component in all patient care.





# A holistic approach to patient care

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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?





# PROCESS: Most common prosthetic solutions in Canada

*Wear*

Tissue-retained  
Tooth / teeth-



# PROCESS: Most common prosthetic solutions in Canada

*Wear*  
**Single**



Tissue-retained  
Tooth / teeth-



Implant-retained



*Inlay-bridge*  
*Gold Veneer*





# PROCESS: Most common prosthetic solutions in Canada

*Wear  
Single space*

***Partial Dentate***



Tissue-retained

Tooth / teeth-

Mucosa-

Tooth/teeth + mucosa-

Implant-retained

(Implant+tooth-)





# PROCESS: Most common prosthetic solutions in Canada

*Wear*  
*Single space*  
*Partial Dentate*

***Edentulous jaw***



Tissue-retained



Mucosa-



Implant-retained



Implant+mucosa-



# PROCESS: Most common prosthetic solutions in Canada

*Wear*  
*Single space*  
*Partial Dentate*  
*Edentulous jaw*  
***Terminal***  
***dentition***

Tissue-retained

Mucosa-

(Implant-retained  
Implant+mucosa)





# PROCESS: Most common prosthetic solutions in Canada

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***Extensive  
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Implant+tissue-

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# PROCESS: Most common prosthetic solutions in Canada

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











Implant-retained

Implant+tissue-

(Implant+tooth-)



# Sequences of procedures for fabricating dental prosthesis, example

	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	<a href="#">04 Pouring and trimming of stone cast</a>	06 Verify laboratory work	09 Trimmed master cast	11 Verify laboratory work	17  Articulator selection & mounting	19 Verify laboratory work	<a href="#">22 Posterior tooth setup</a> 	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 	29  Patient advise oral hygiene	30  Adjustment appointment  + + Possible Session  31  Possible discomfort
<a href="#">Click here to see flowchart in vertical view (.pdf)</a>	<a href="#">02 Tray selection and impression</a>		<a href="#">08 Disinfection</a>		13 Facebow registration		<a href="#">21 Disinfection</a>		<a href="#">25 Disinfection</a>		
	<a href="#">03 Disinfection</a>				14 Maxillo- mandibular relations index						
					15 Planning of prosthesis design , including shade and mold  <a href="#">Material choice</a>						
					<a href="#">16 Disinfection</a>						

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Resource site for undergraduate students

**Announcements**  
**WELCOME TO PROSTHODONTICS!** 5/12/2010 10:41 AM  
by Asbjorn Jokstad

**ENTER WEBSITE**  
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