

Advanced Dental Procedures

To prepare the Alaska Dental Health Aide to provide advanced dental procedures, the following topics are included:

- Dental Anatomy and Occlusion
- Tooth Anatomy Reference
- Periodontal Disease Process
- Caries Disease Process
- Dental Charting
- Patient Record Documentation
- Dental Instruments and Equipment
- Ergonomics
- Handling and Sterilization of Instruments
- Disinfection of the Operatory



Chapter 1

Dental Anatomy and Occlusion



Notes

Overview

This chapter focuses on the form and shape of teeth. Each tooth has characteristics that will identify whether it is a left or right tooth or if it is an incisor or premolar. Knowledge about dental anatomy is important when charting teeth if there are missing teeth and when mounting radiographs. It is helpful when selecting temporary crowns, stainless steel crowns, and selecting rubber dam clamps. It is critical when restoring teeth to their original form and shape.

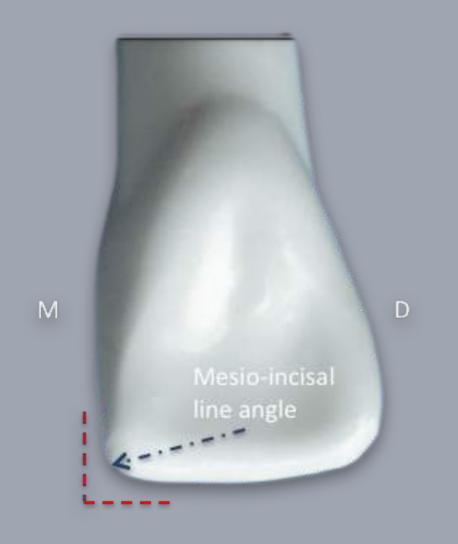
Learning Objectives:

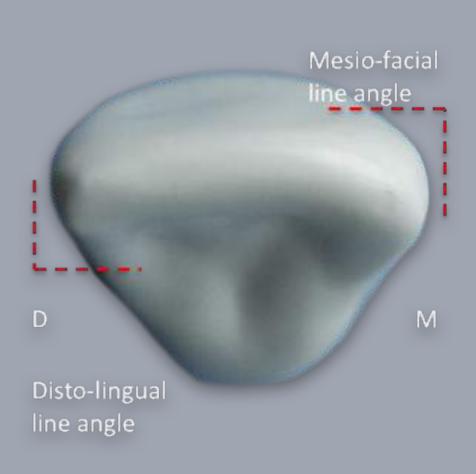
- Identify line and point angles.
- Describe and identify common tooth elevations, ridges, depressions, and grooves.
- Describe embrasure spaces, contact points, heights of contour.
- Explain basic concepts of occlusion: working cusps, non-working cusps, maximum intercuspation, and excursive movements.

Notes

Line Angles

- The junction line where two tooth surfaces meet.
 - Ex: Mesio-facial, Disto-facial, Disto-lingual, Mesio-lingual

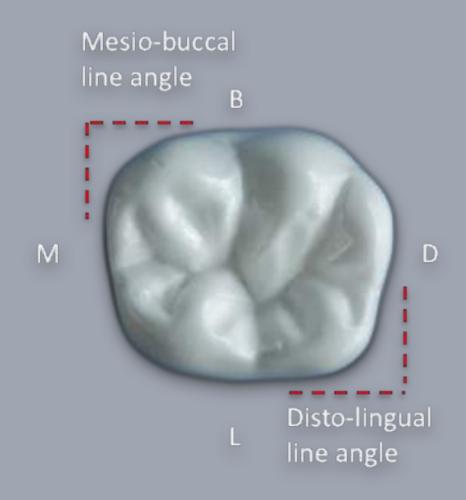


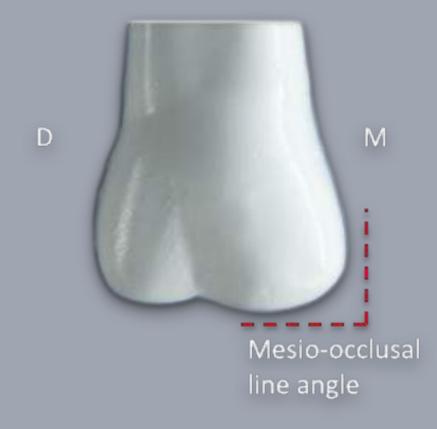


Notes

Line Angles

Posterior teeth will all be similar

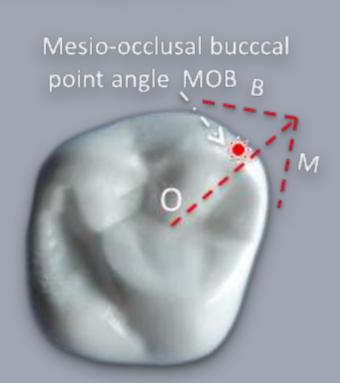


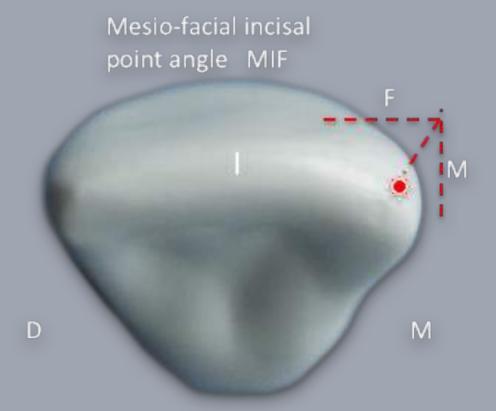


Notes

Point Angles

- The junction where three tooth surfaces meet at a single point.
 - Ex: MOB, MIF, DIL

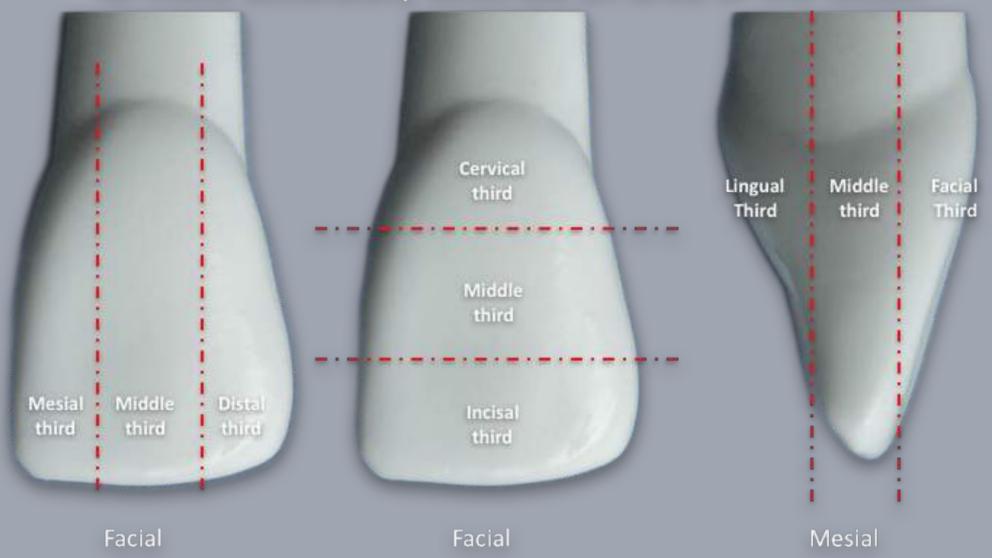




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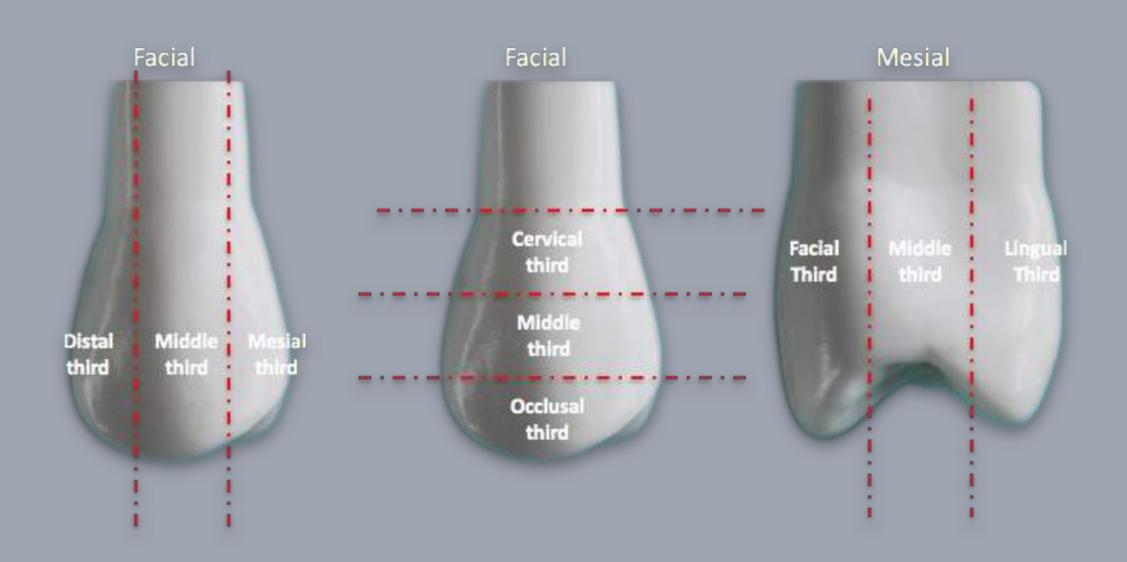
Division of Thirds

• The crown of the tooth can be divided into thirds to more accurately describe an area of the tooth.



Notes

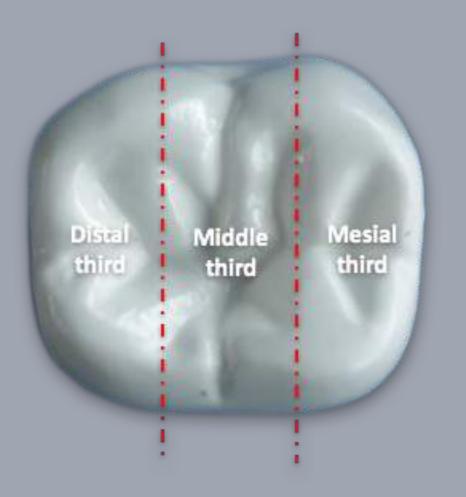
Division of Thirds

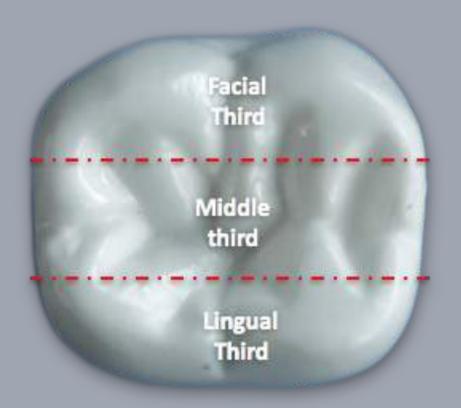


Notes

Division of Thirds

Occlusal View





Elevations & Ridges

Notes

Elevations and Ridges

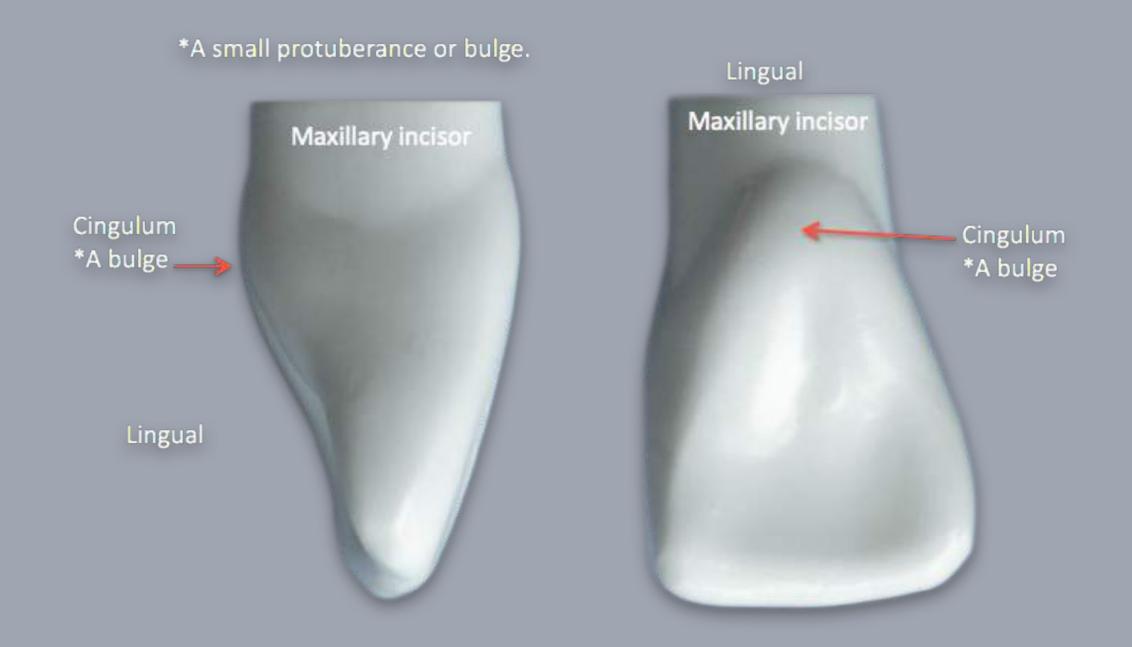
- Cusps: formed from developmental lobes
- Mamelons:
 - Found on newly erupted incisors
 - Raised elevations or small tubercles
 - Usually worn off during mastication

Cingulum: a small protuberance found on the lingual surfaces of anterior teeth

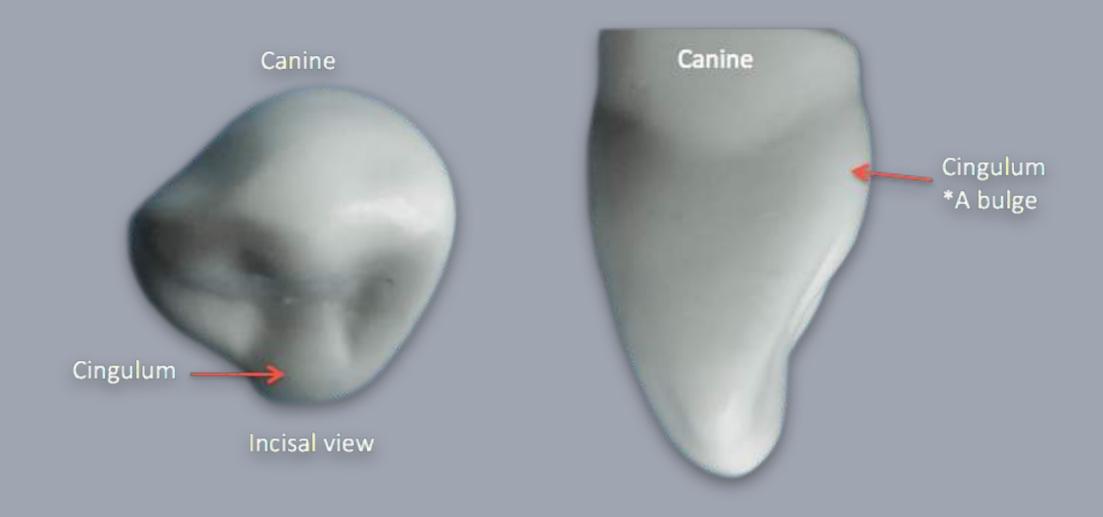
Ridges: found on anterior and posterior teeth adjacent to fossae

- Marginal ridges
- Cusp ridges
- Triangular ridges
- Transverse ridges
- Oblique ridges

Cingulum



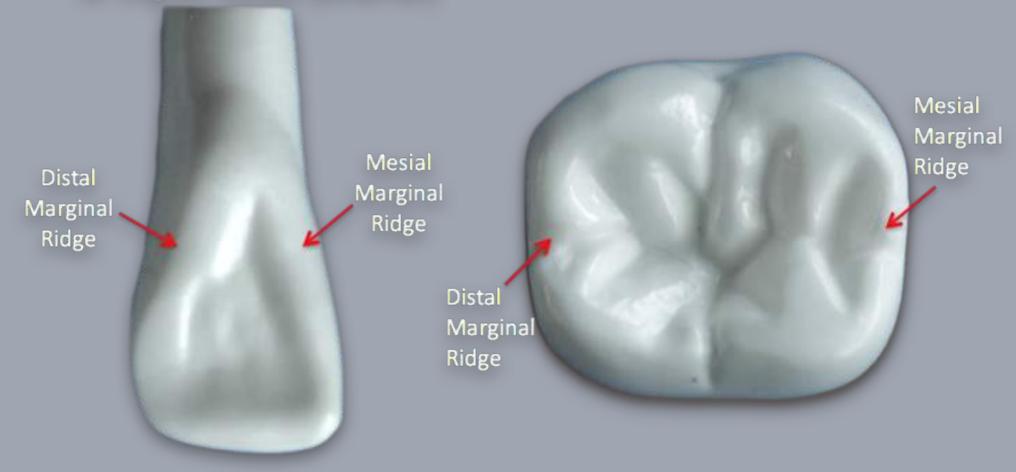
Cingulum



Notes

Marginal Ridges

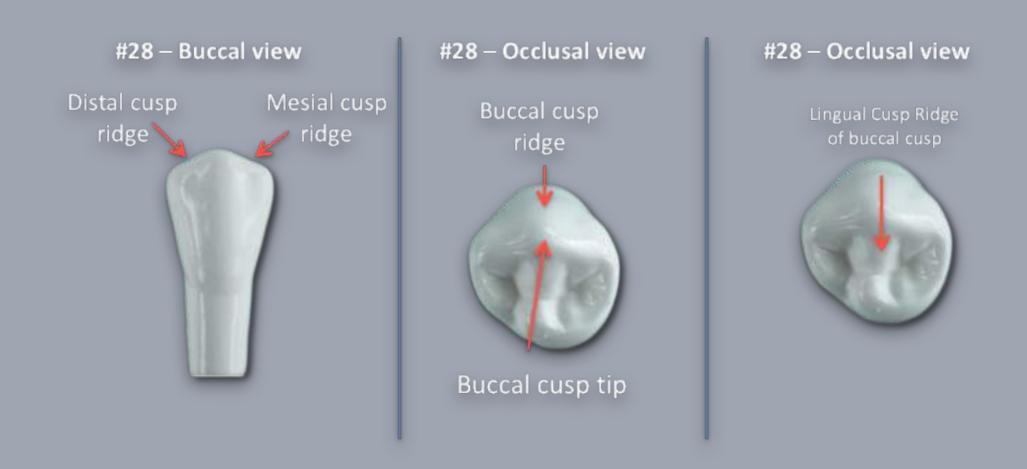
- *Named by its location: Mesial or Distal
- Adjacent to occlusal fossae/pits (posterior)
 or lingual fossae (anterior)



Notes

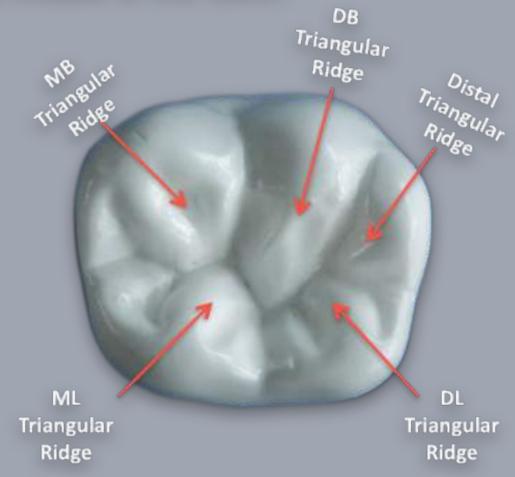
Cusp Ridges

- Linear prominences that converge towards the cusp tip
- Named by its location: Buccal cusp ridges and lingual cusp ridges
 - Each cusp has 4 cusp ridges: mesial, distal, buccal, and lingual



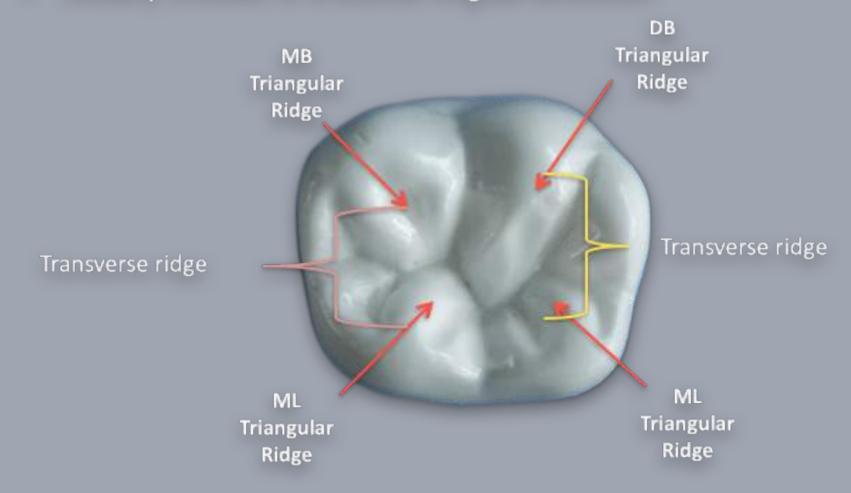
Triangular Ridges

- Located on each major posterior cusp
- Extends from the cusp tip toward the depression located in the facial-lingual middle of the tooth



Transverse Ridges

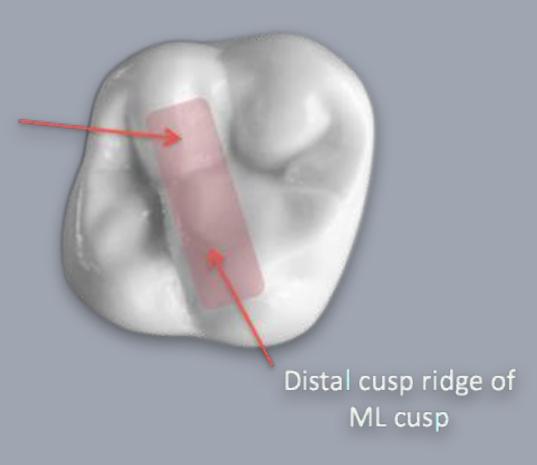
- The ridge that forms when a triangular ridge from buccal cusp joins the triangular cusp from a lingual cusp
- Usually crosses in a buccal-lingual direction



Oblique Ridge

Unique to Maxillay molars

Triangular
Ridge of DB cusp



Notes

Depressions

Central Sulcus

• (the central groove)

Fossae

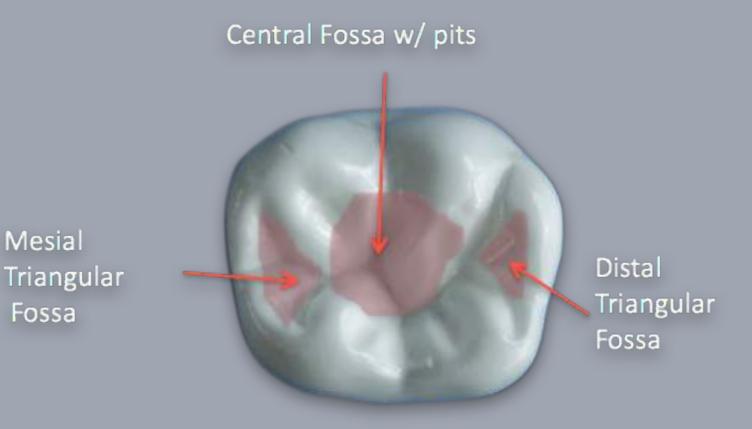
- A small depression that is usually found between marginal ridges of both anterior and posterior teeth
 - Central or Lingual
 - Triangular

Pits

Usually found at the deepest portions of fossae

Notes

Depressions



Notes

Grooves

Developmental

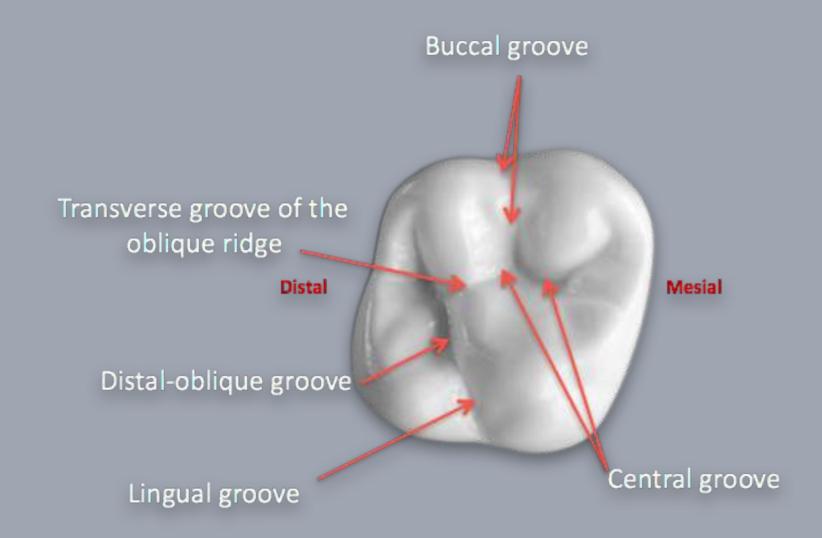
- Major sharply defined linear grooves that separate cusps
 - Central
 - Buccal
 - Lingual
 - Fossa development grooves

Supplemental

• Small, irregular, extra grooves

Notes

Grooves



Heights of Contour

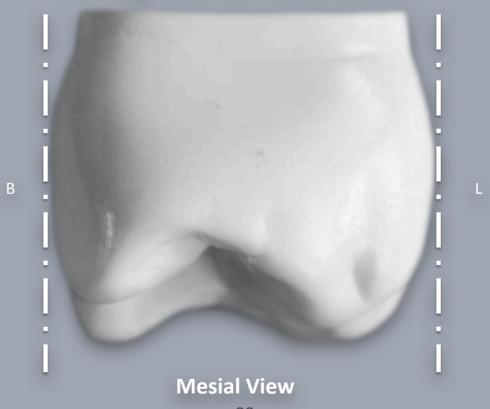
Notes

Heights of Contour (Crest of Curvature)

- The shape and curvature of the greatest dimension on the facial and lingual surfaces.
- Usually located in the cervical or middle third of a tooth.
- Help divert food and debris over the surfaces of a tooth and away from the free gingival margin and sulcus.

Natural convexities that must be reproduced when restoring a tooth

Heights of Contour



Contact Points/Areas

Notes

Contact Points/Areas (proximal height of contour)

- Where two teeth contact each other proximally
- Stabilize the dental arch and anchor teeth
- Prevent food from being packed between teeth
- Must be recreated when restoring a tooth

Anterior Tooth Proximal Contacts

- Usually centered facio-lingually
- Usually at the incisal third or junction of incisal and middle thirds inciso-gingivally

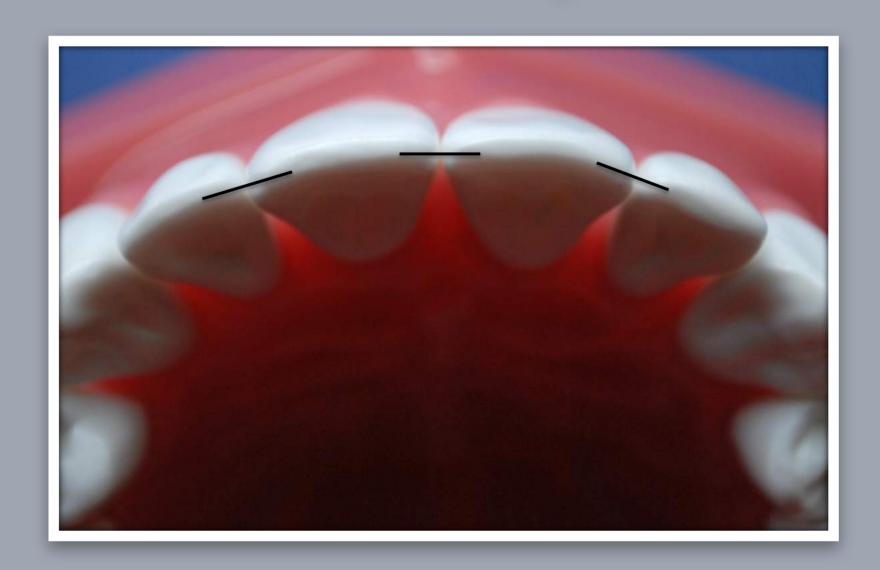
Posterior Tooth Proximal Contacts

- Usually located more buccal when viewed from the occlusal
- Usually located in the middle third of the tooth when viewed occlusal-gingivally

Notes

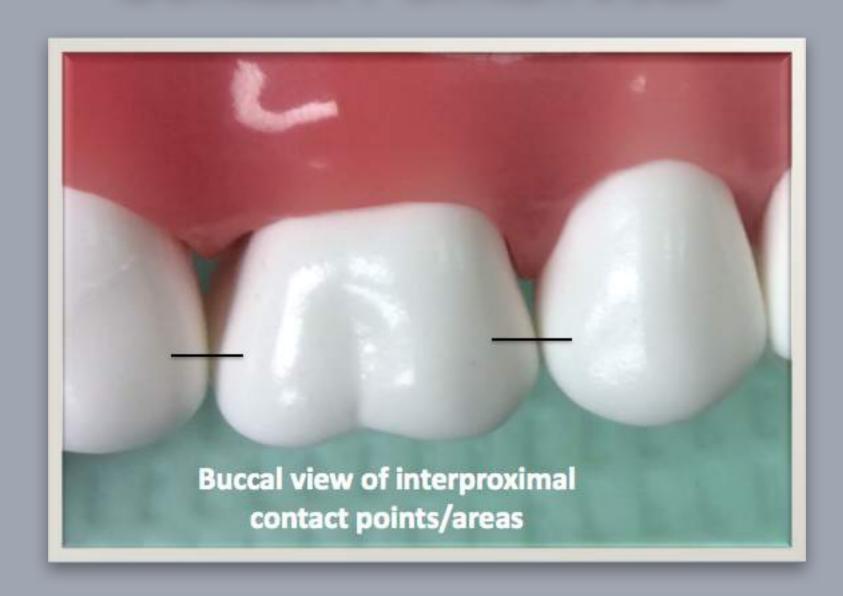


Notes



Dental Anatomy

Notes



Notes



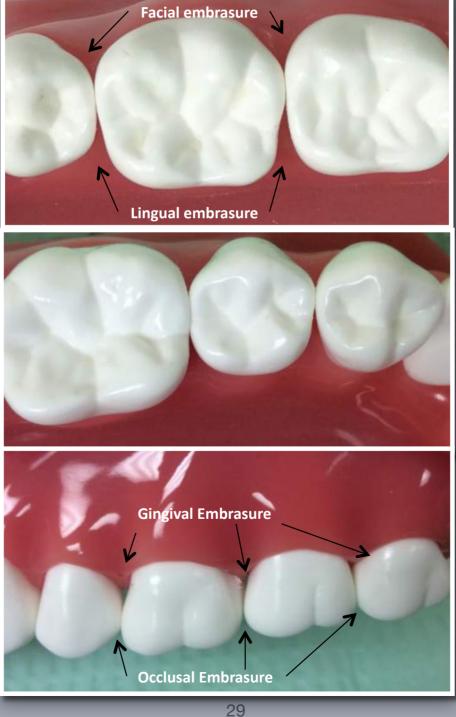
Embrasure Spaces

Notes

Embrasure Spaces

- Triangular areas that surround contact points/areas
 - Buccal
 - Lingual
 - Occlusal
 - Gingival (interproximal space)
- Provide a spillway for food during chewing
- Prevent food from being forced through the contact area
- Help allow the teeth to be more "self-cleaning"
- Important when restoring teeth to prevent food impaction, future decay or periodontal disease

Posterior Embrasure Spaces

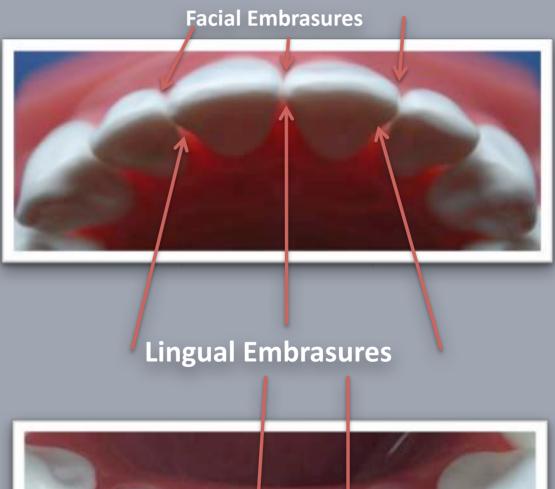


Anterior Embrasure Spaces



Incisal Embrasures







Terms to Know

Notes



Balancing or non-working cusps:

The cusps that do not occlude with the opposing teeth during centric occlusion or maximum intercuspation. Remember B.U.L.L. (Buccal upper, lingual lower)



Canine Guidance:

Occlusion in which the occlusal contacts of the canine teeth cause the <u>posterior teeth to disclude or separate during lateral or excursive movements.</u>



Lateral or excursive movements:

Shifting of the mandible and mandibular teeth to the right or left (lateral) against the maxillary the teeth.



Mandibular working cusps:

The buccal cusps. They occlude or contact with the fossae and marginal ridges of maxillary teeth. Remember B.L.L.U. (Buccal lower, lingual upper)



Maxillary working cusps:

The lingual cusps. They occlude or contact with the fossae and marginal ridges of mandibular teeth.

Notes



Maximum intercuspation:

The maximum contact of the teeth while biting the teeth together. Cusp to Fossa relationship.



Occlusion:

The way the teeth "fit," together. The way the occlusal and incisal surfaces of maxillary and mandibular teeth contact each other or move against each other.



Protrusive movements:

Shifting of the mandible and mandibular teeth forward against and past the maxillary teeth.



Working Cusps:

Also known as Functional Cusps. They are the cusps that contact when the patient bites into their habitual or "normal bite."

Notes

Principles of Occlusion









Maximum intercuspation

Notes

Principles of Occlusion

Vertical overlap



Horizontal overlap



The maxillary buccal and facial cusps vertically and horizontally overlap the mandibular teeth

Maximum intercuspation

Notes

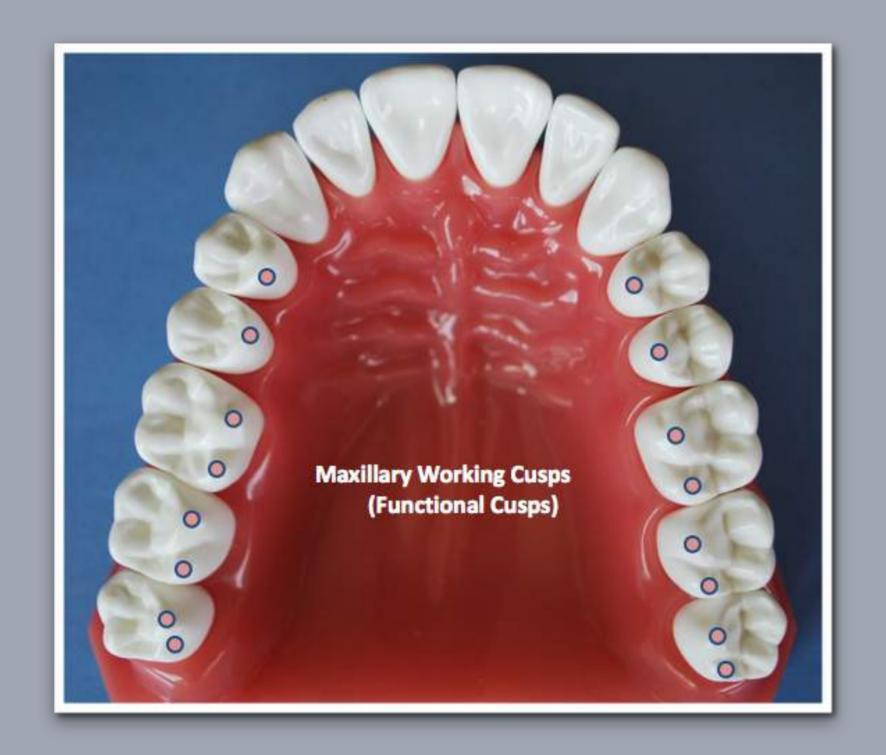
Principles of Occlusion

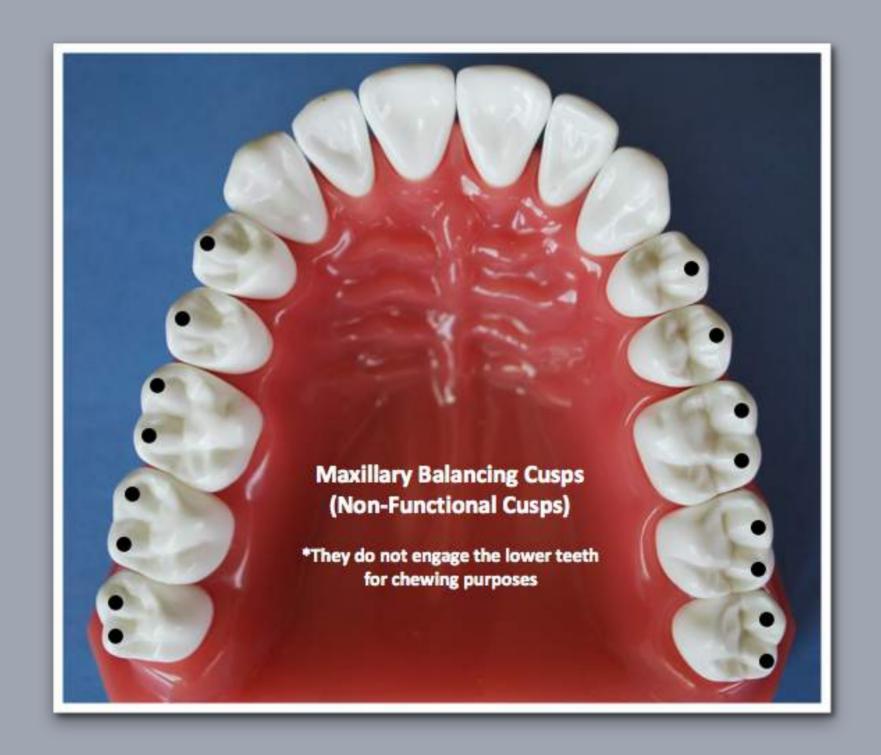
The maxillary buccal (non-working) cusps occupy the embrasure spaces and groove spaces of the mandibular teeth

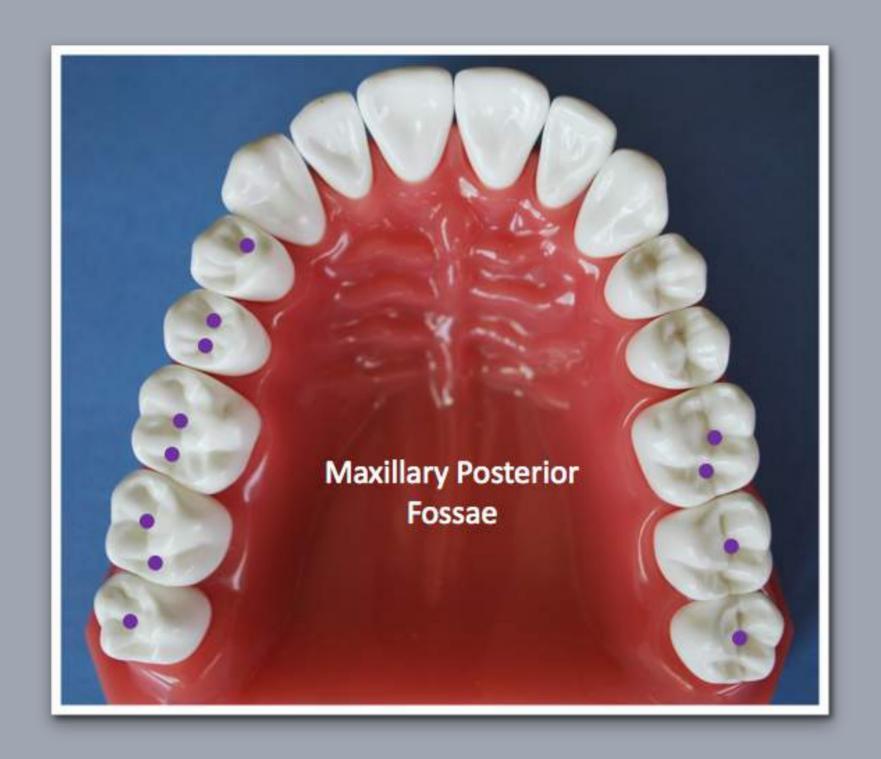




Maximum intercuspation













Notes

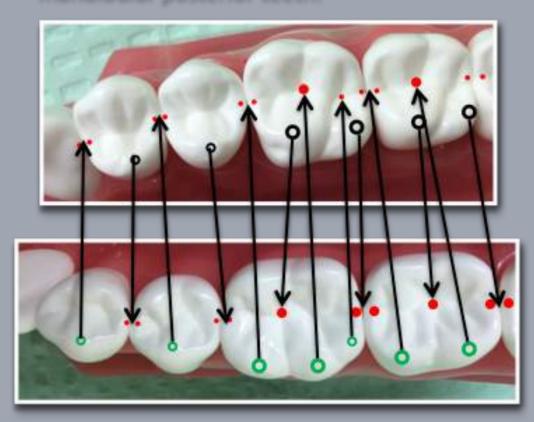
Cusp to fossa relationship



Notes

Principles of Occlusion

Maxillary lingual cusps o occlude with marginal ridges o and central fossa of mandibular posterior teeth.

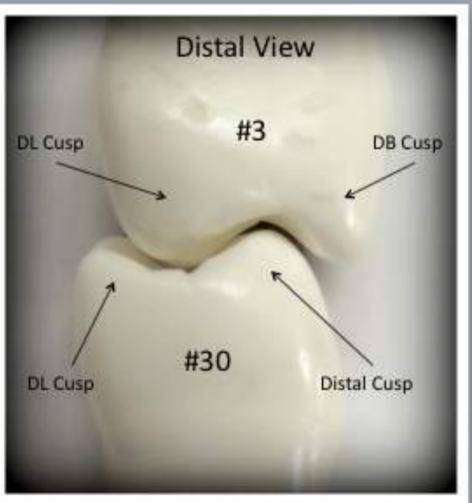


Mandibular buccal cusps occlude with marginal ridges and central fossa

(Distal cusp of mandibular 1st molar occludes with distal fossa) of maxillary posterior teeth.

Notes



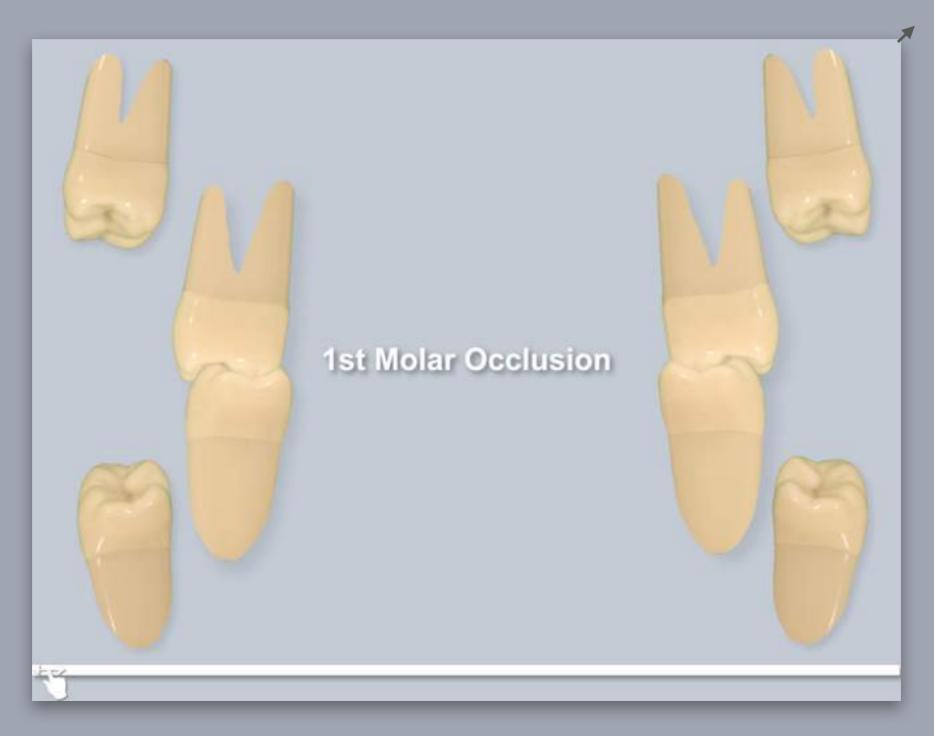


Maxillary 1st Molar – MB cusp aligning with MB groove of Mandibular 1st Molar.

Maxillary 1st Molar – DL cusp aligning with distal marginal ridge of Mandibular 1st Molar

Distal View #3 **DL** Cusp DB Cusp DL Cusp Lateral or Excursive movement #30 Distal Cusp

Slider 1.1 Occlusion Notes



Notes

Tips For Checking Occlusion When Restoring Teeth

- Check central occlusion or maximum intercuspation first.
- Are there heavy or improper contacts in maximum intercuspation?
- Are the articulating paper markings where they should be? If not, adjust areas.
- Is the contact too heavy? Compare the markings on adjacent teeth.
- Check occlusion during lateral or excursive movements. You do not want contacts or "marks" during lateral
 movements unless multiple teeth in the same arch are similar. Remove or reduce those areas to make similar
 to adjacent teeth.
- Are maxillary buccal cusps in the embrasure space or in the groove spaces?
- Is there appropriate horizontal and vertical overlap?

Notes

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Dental Anatomy Reference

Jason R. Price, DDS

This reference contains illustrations that are helpful when restoring teeth with amalgam or composite restorations.



Notes

Maxillary Incisors



Notes

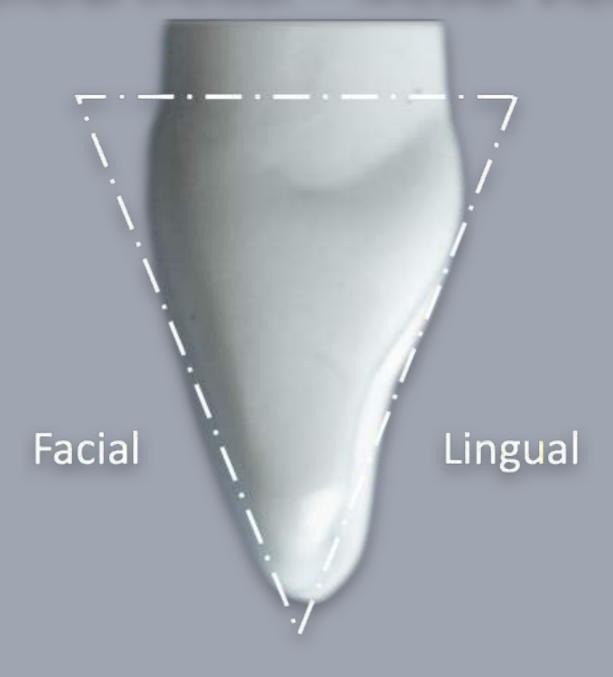
Central Incisor

Distal



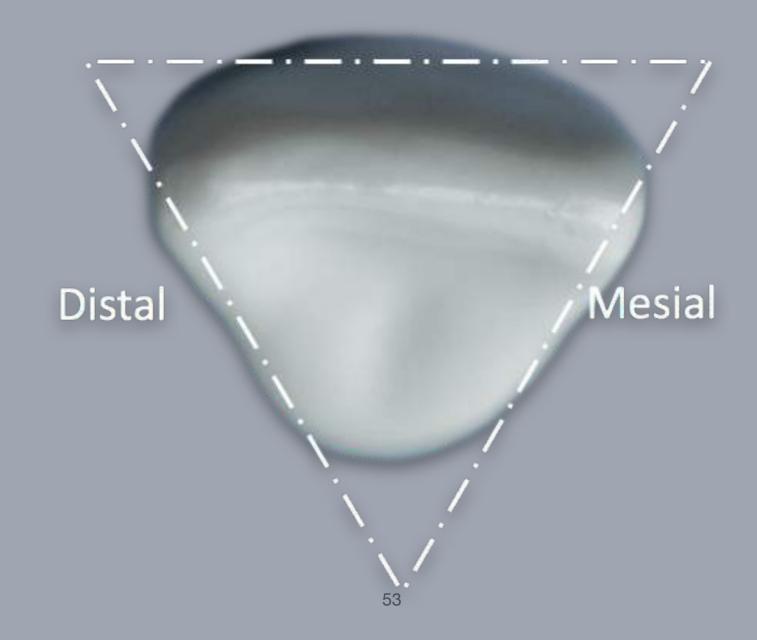
Mesial

Central Incisor – Mesial View



^{*}Also referred to as a shovel shape.

Central Incisor – Incisal View



Central Incisor

Notes

Slightly more curved Distal



Relatively straight Mesial

Central Incisor

Notes





Mesial

Contact points are in the incisal 1/3

Central Incisors



Central Incisor – Mesial View

Notes

*Heights of Contour

Facial

Lingual

Central Incisor – Distal View

Notes

*Heights of Contour

Lingual

Facial

Central Incisor – Distal View

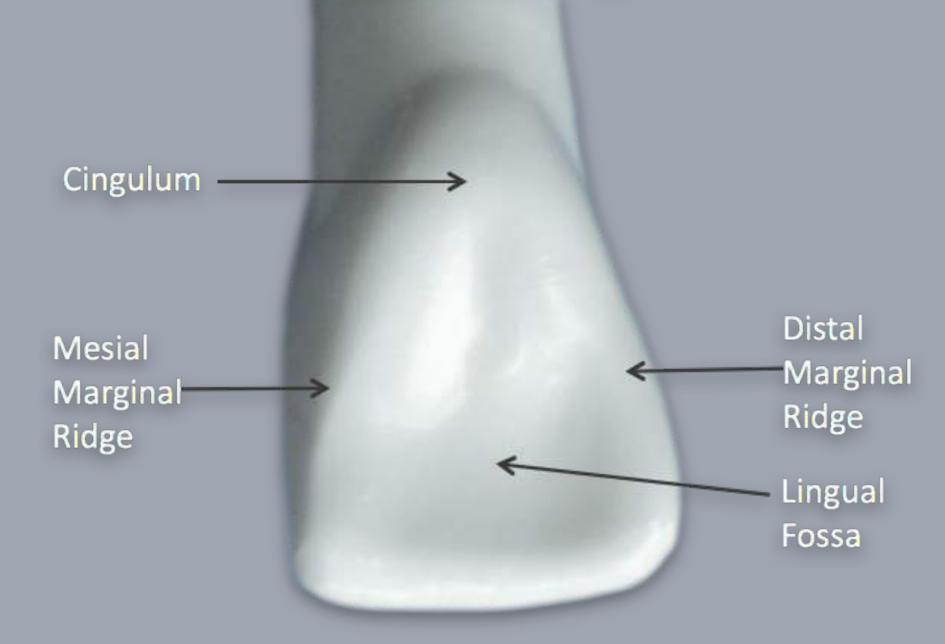
Notes

Cingulum *A bulge ---->

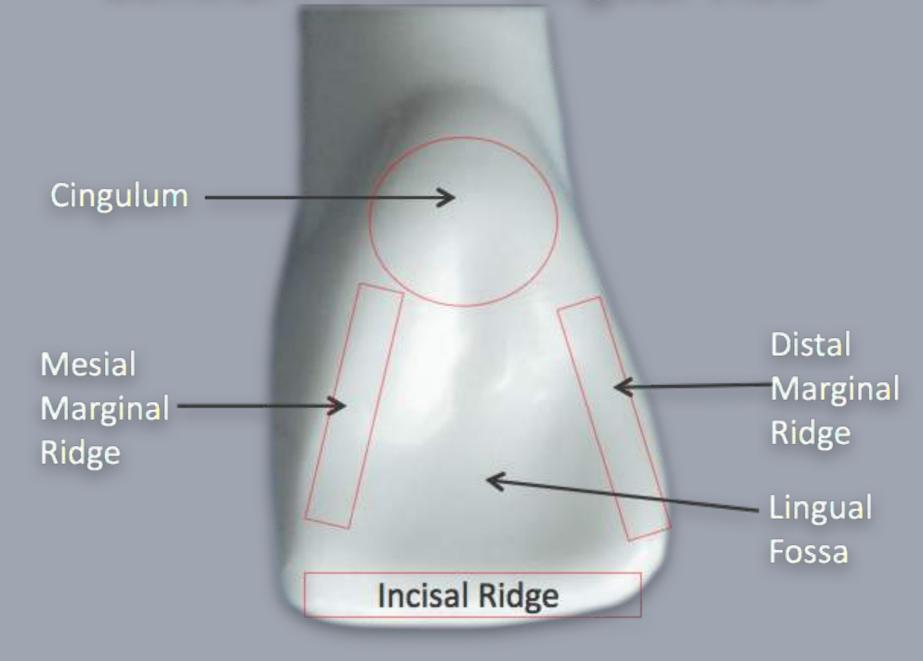
Lingual

Facial

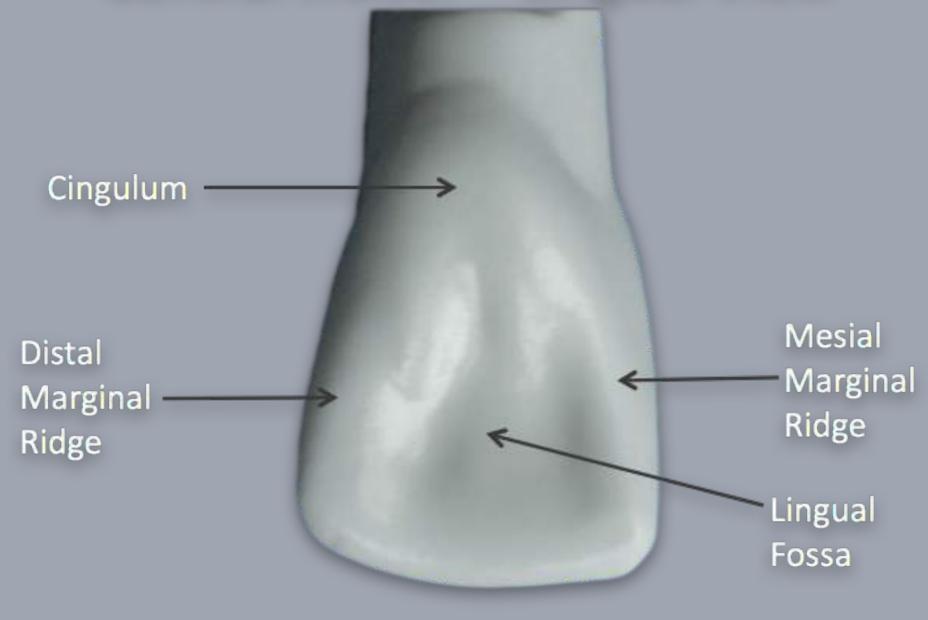
Central Incisor – Lingual View



Central Incisor – Lingual View

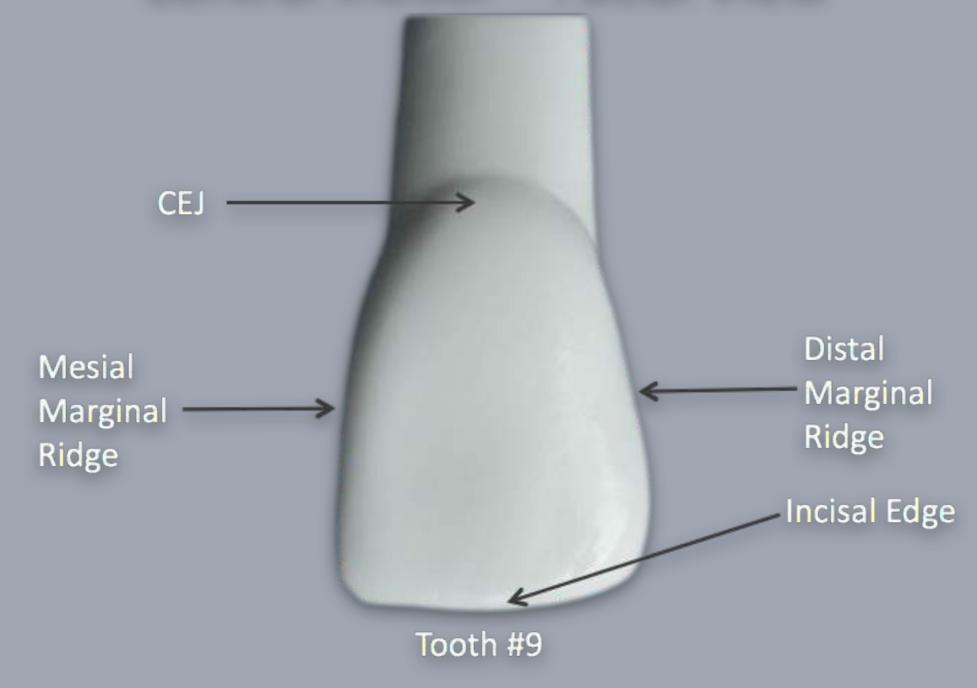


Central Incisor – Lingual View

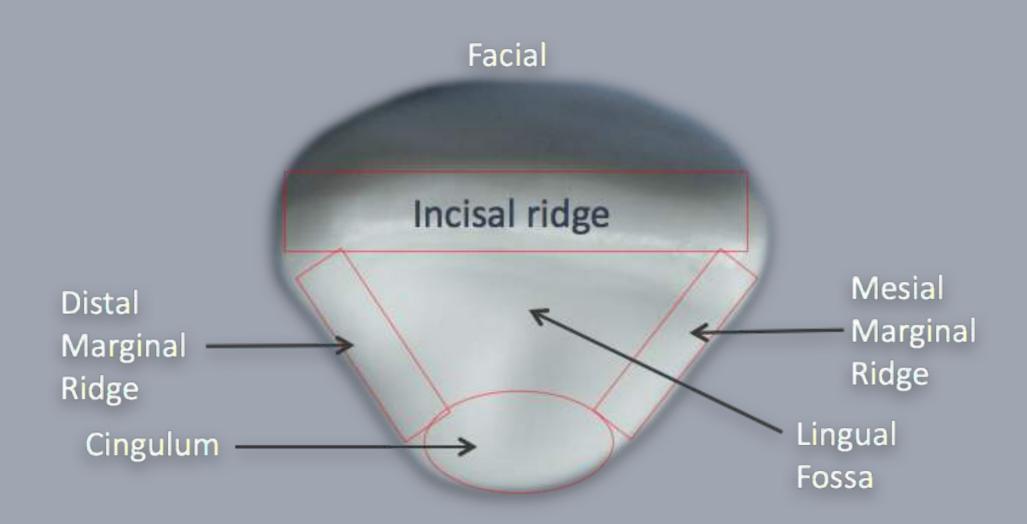


Tooth #9

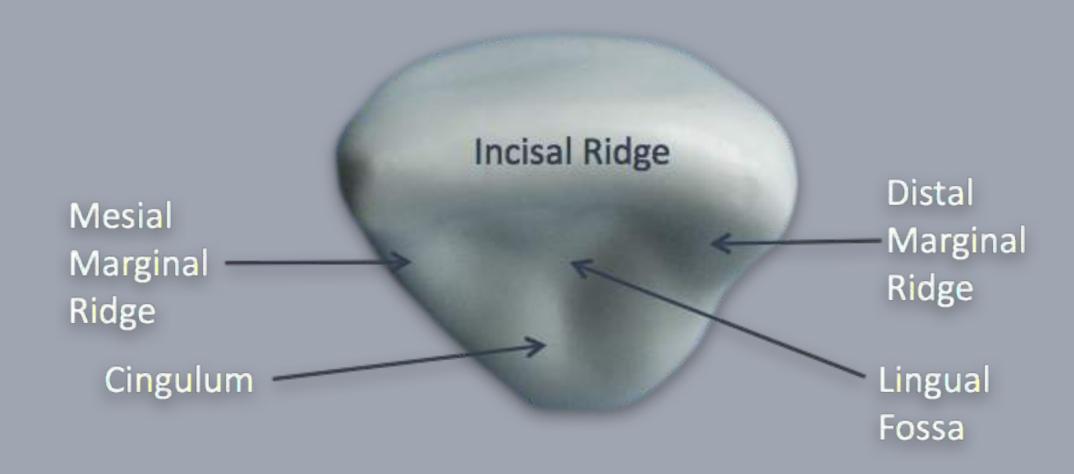
Central Incisor – Facial View



Central Incisor – Incisal View



Central Incisor – Incisal View



Central Incisor
Incisal view of contact points and embrasures



Notes

Central Incisor



Central Incisor
Lingual view of contact points and embrasures



Notes

Lateral Incisors



Notes

Lateral Incisors

Similar in shape to central incisors

Smaller in size

More rounded angles



Notes

Lateral Incisors

Deeper Fossa – Gives more definition to marginal ridges and cingulum area.





Notes

Lateral Incisors

Incisal Views

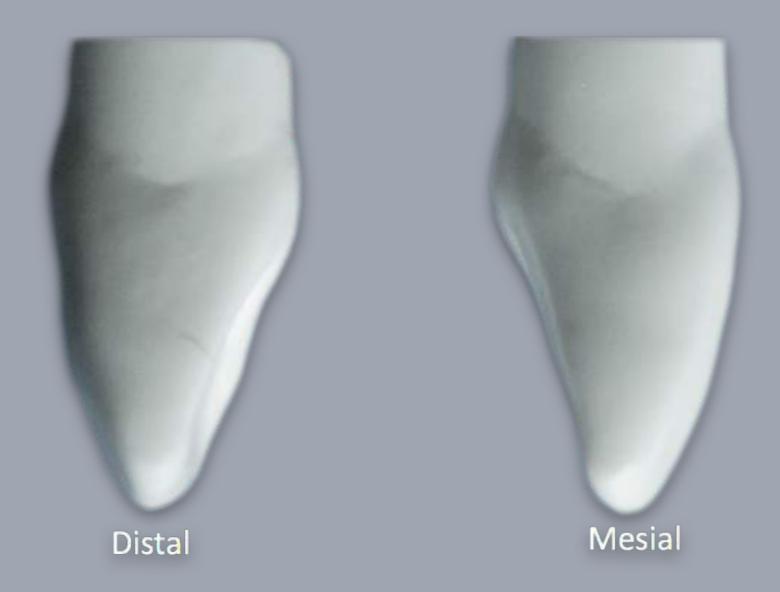




^{*}Notice how defined the ridges, cingulum, and fossae are.

Notes

Lateral Incisors – Proximal View



Notes

Lateral Incisors

Contact Points & Embrasure Spaces



Notes

Lateral Incisors Contact Points & Embrasure Spaces



Notes

Mandibular Incisors



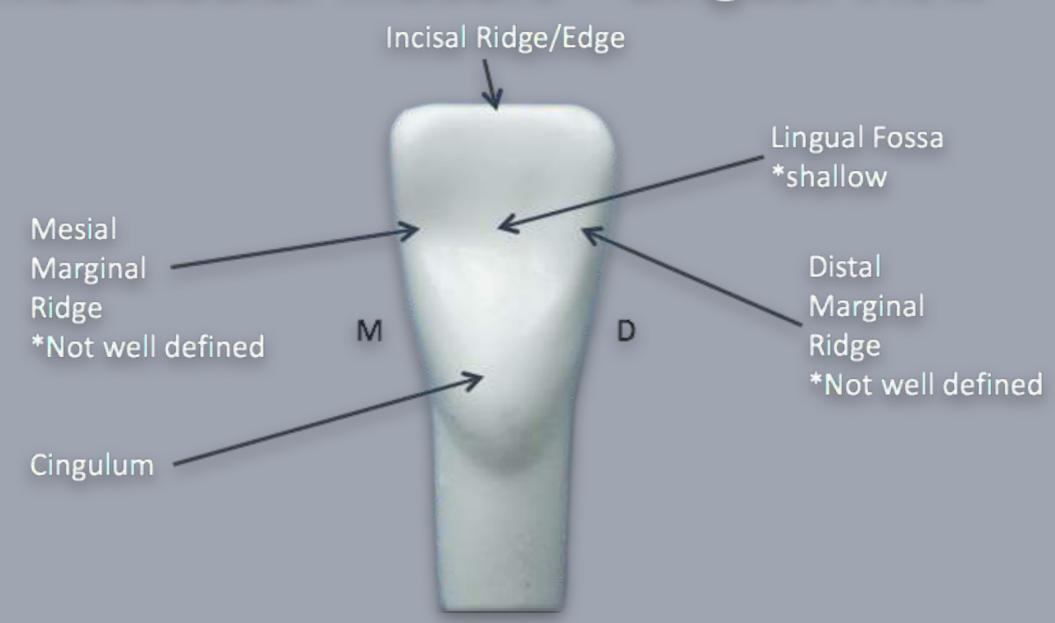
Notes

Mandibular Incisors – Facial View



Notes

Mandibular Incisors – Lingual View



Notes

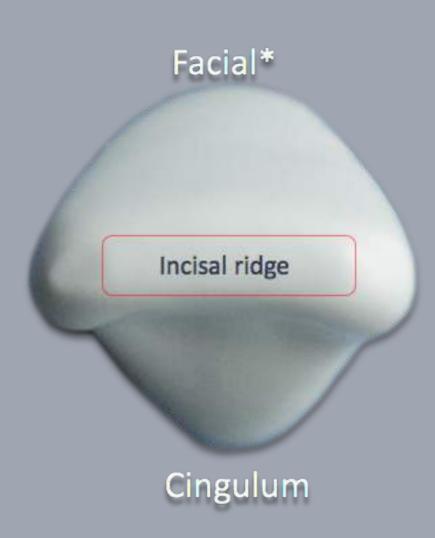
Mandibular Incisors



*Note the curvature

Notes

Mandibular Incisors

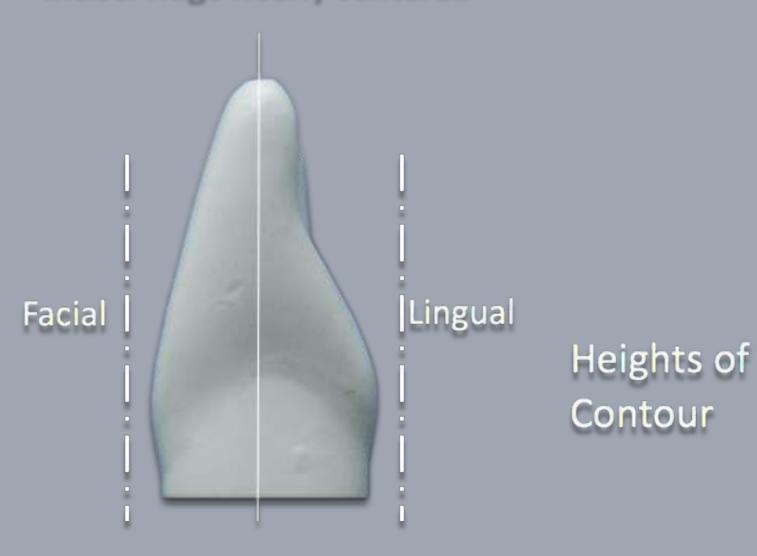


*Note the curvature

Notes

Mandibular Incisors

Incisal ridge nearly centered



Notes

Mandibular Incisors — Facial View



Heights of Contour

Notes

Mandibular Incisors – Lateral Incisor



Distal

Notes

Mandibular Incisors – Lateral Incisor

- *Similar shape to central
- *Slightly more rounded
- *Often slightly larger

Mesial



Distal

Notes

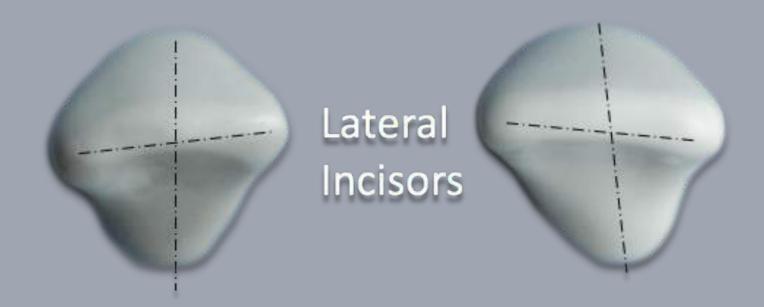
Mandibular Incisors – Lingual View



Notes

Mandibular Incisors

Rotated or "twisted," appearance from incisal view



The incisal ridge tapers angles to the lingual towards the distal aspect of the tooth

Mandibular Incisors – Proximal View

Notes



Notes

Mandibular Incisors

Contact points & embrasure spaces



Notes

Mandibular Incisors

Contact points & embrasure spaces



Notes

Mandibular Incisors

Contact points & embrasure spaces



Notes

Canine Teeth

Maxillary Right Canine



Notes

Canine Teeth

Pentagonal shape from buccal view



Notes

Canine Teeth

Prominent, sharp buccal cusp

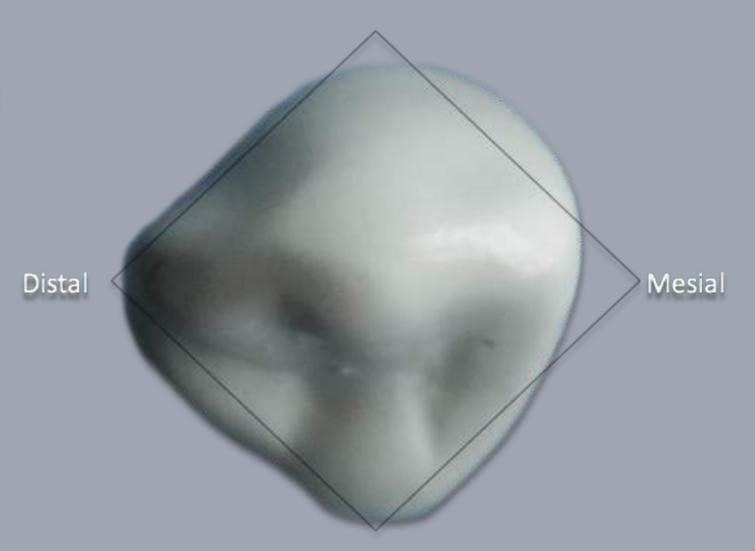


Notes

Canine Teeth

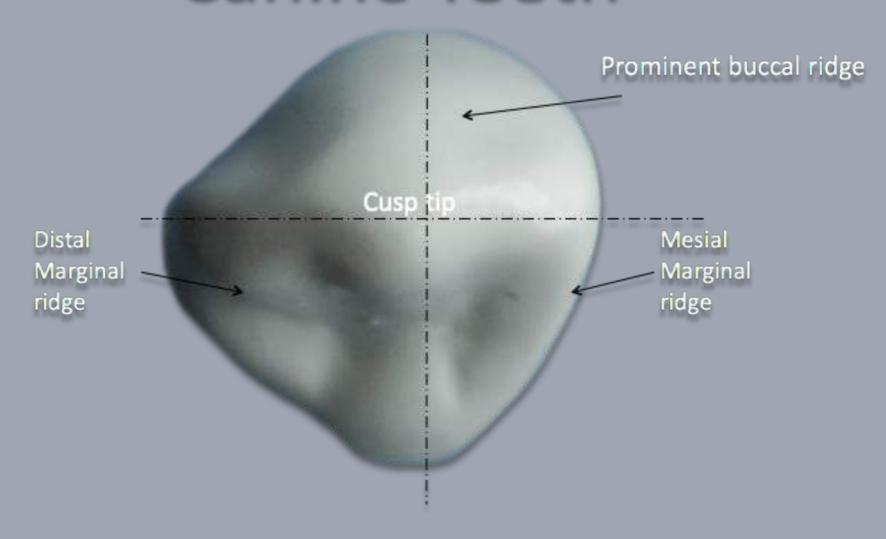
Triangular in shape

From incisal view



Notes

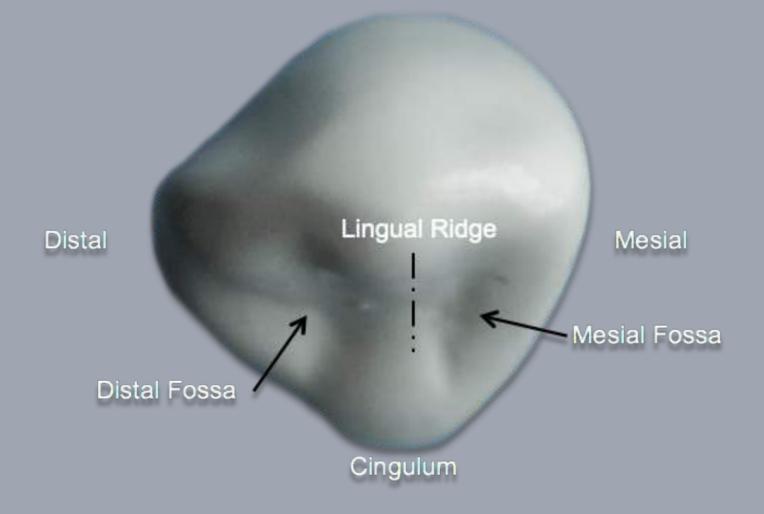
Canine Teeth



Incisal View

Notes

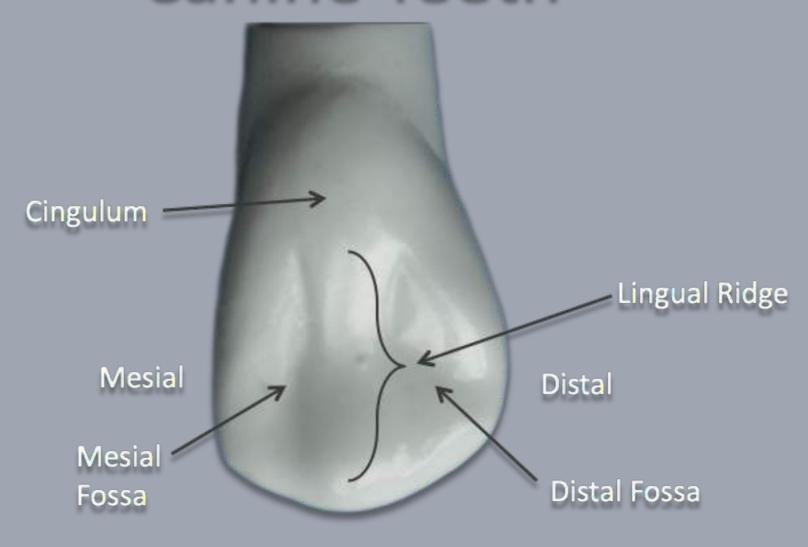
Canine Teeth



Incisal View

Notes

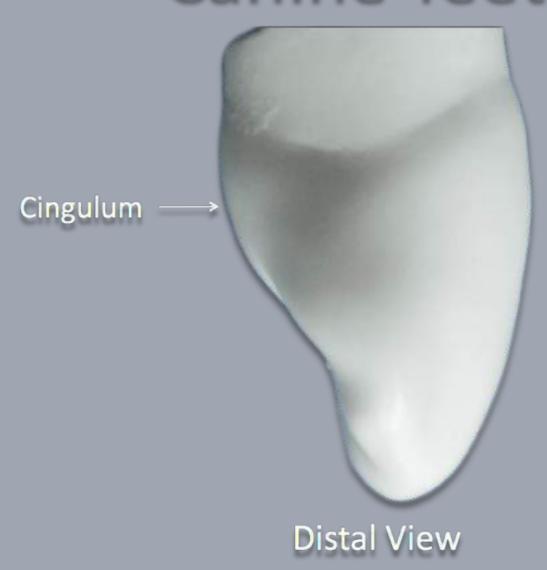
Canine Teeth



Lingual View

Notes

Canine Teeth



Notes

Canine Teeth



Mesial View

Notes

Canine Teeth

Maxillary distal contact and embrasure space



Notes

Canine Teeth

Maxillary mesial contact and embrasure space



Notes

Canine Teeth

Maxillary mesial contact and embrasure space



Notes

Canine Teeth

Mandibular Canine



Tooth #22

Notes

Canine Teeth

Similar to maxillary

Canines

More shallow

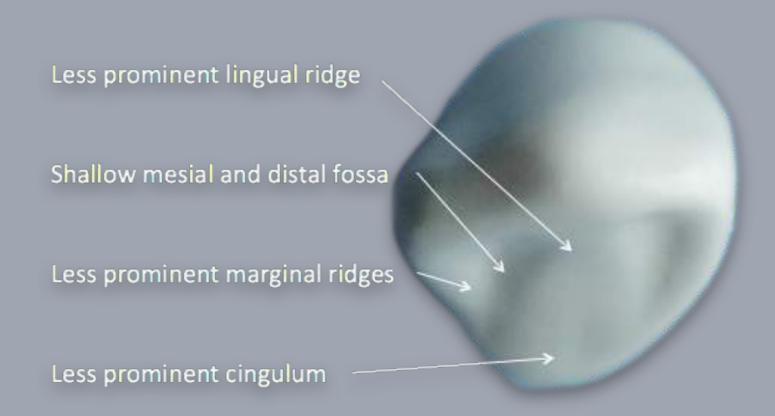
lingual anatomy



Lingual

Notes

Canine Teeth



Notes

Canine Teeth - Mesial View

#27



Notes

Canine Teeth - Facial view

#27



Notes

Canine Teeth - Lingual view

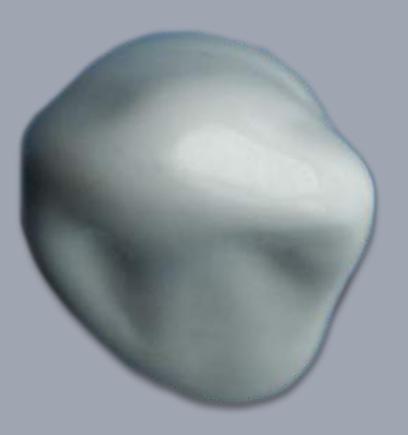
#27



Notes

Canine Teeth - Incisal View

#27



Notes

Canine Teeth



Notes

Canine Teeth



Notes

Canine Teeth



Notes

Canine Teeth



Notes

Canine Teeth



Notes

Maxillary Premolars







 Maxillary 1st premolar is usually slightly larger than the maxillary 2nd premolar

Notes





Notes





Notes

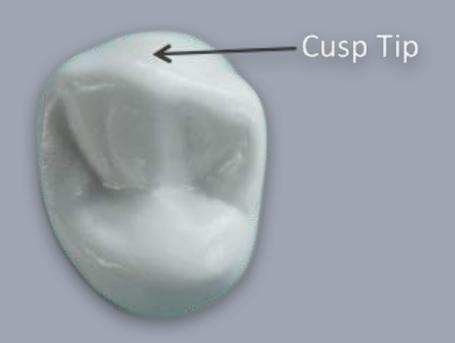




Notes

Maxillary 1st Premolar

Prominent Buccal ridge



Notes

Pentagonal in Shape

Buccal View



Notes

Sharp Buccal Cusp

- The buccal cusp is long with a pointed tip.
- Resembles the cusp of a canine.



Notes

Maxillary 1st Premolar

• Trapezoidal shape from mesial or distal

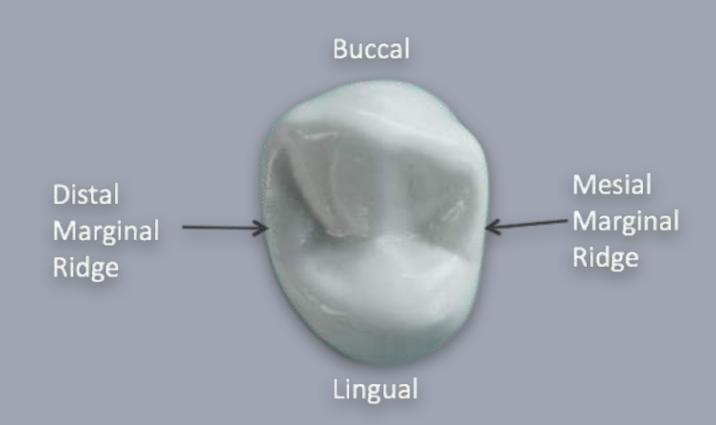


Notes

- Hexagonal shape from the occlusal view.
- Narrows towards the lingual

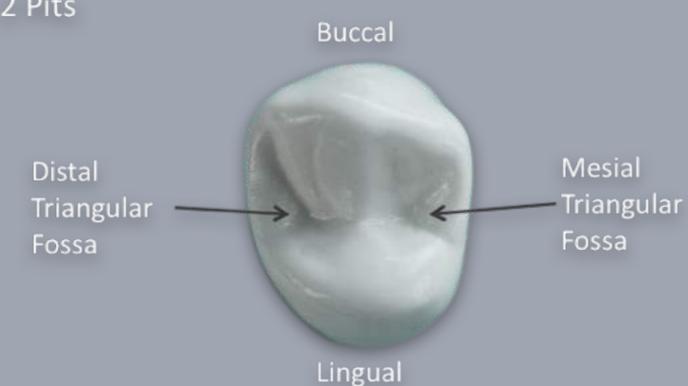


Notes

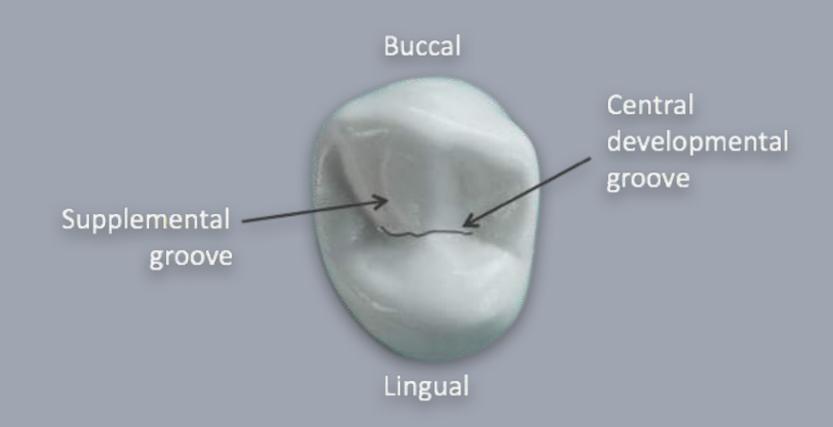


Notes

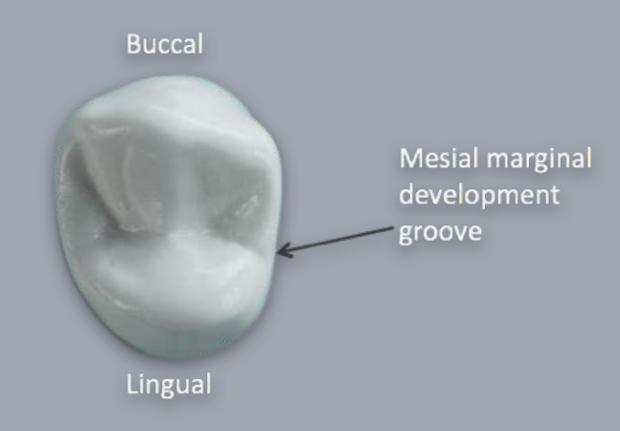
- 2 Fossae
- 2 Pits



Notes

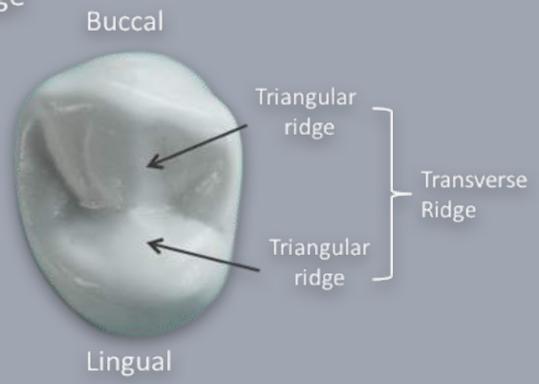


Notes



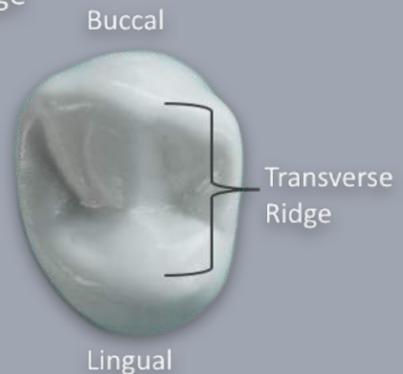
Notes

- 2 Triangular ridges
- 1 Transverse ridge



Notes

- 2 Triangular ridges
- 1 Transverse ridge



Notes

Maxillary 1st Premolar

Facial and lingual heights of contour



Notes

- Lingual cusp is shorter and smaller.
- Both cusps are visible from the lingual view



Lingual aspect

Notes

Maxillary 1st Premolar
Contact points & embrasure spaces



Notes





Notes



Notes



Notes

Maxillary 2nd Premolar

- Very similar in size & shape to the 1st premolar
- A few minor differences



Notes

Maxillary 2nd Premolar

- Usually slightly smaller in size
- Less prominent Buccal ridge



Notes

Maxillary 2nd Premolar

- Central groove is shorter
- More supplementary grooves (spider-like).

Notes

Maxillary 2nd Premolar

 More rounded buccal cusp



Notes

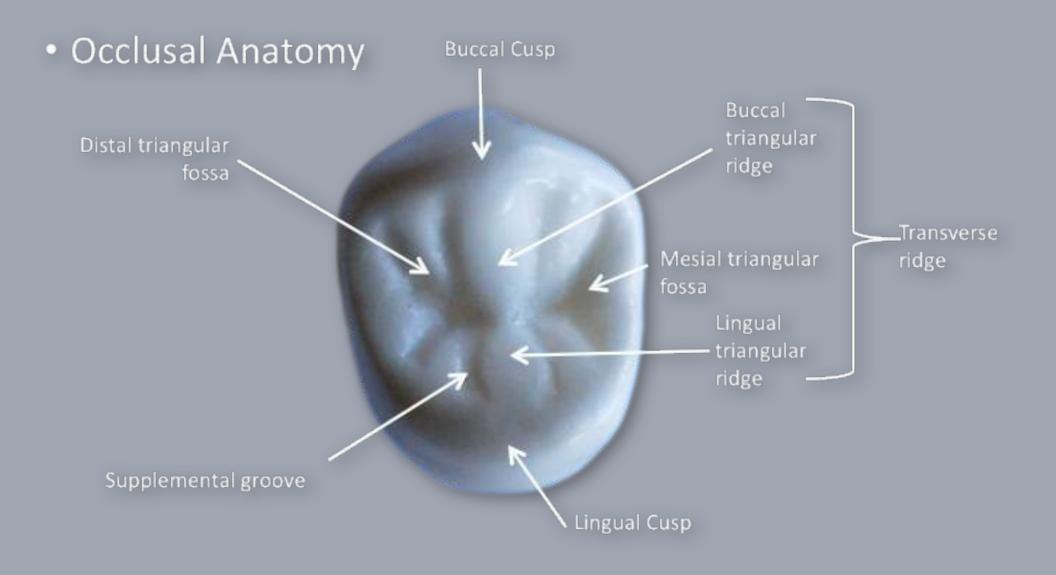
Maxillary 2nd Premolar

• Buccal and lingual cusps more equal in height



Notes

Maxillary right 2nd Premolar



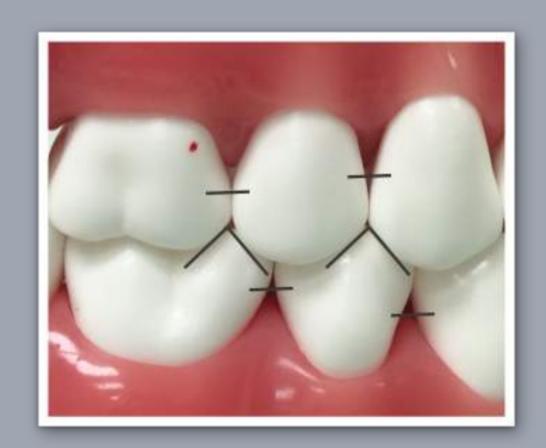
Notes

Maxillary 2nd Premolar Contact points & embrasure spaces



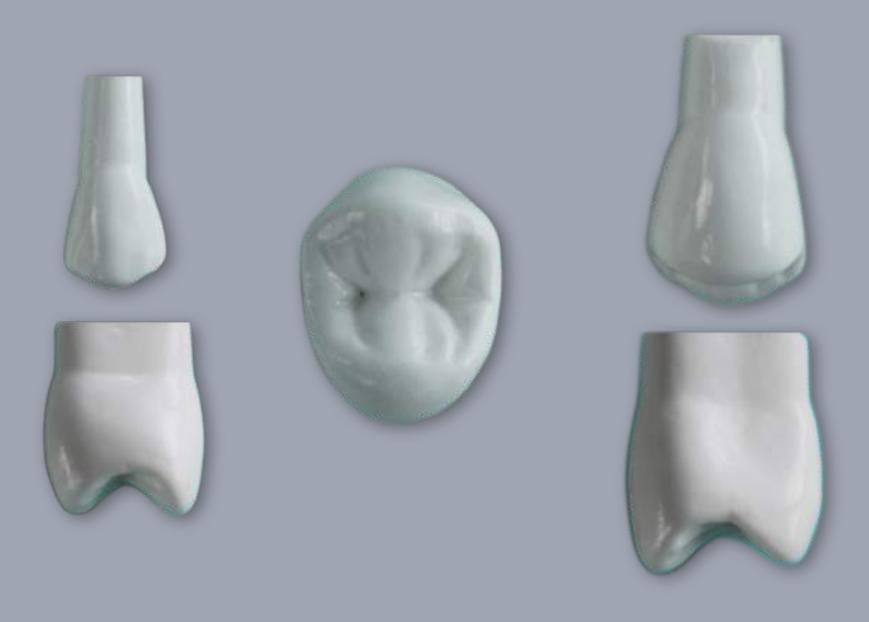
Notes

Maxillary 2nd Premolar Contact points & embrasure spaces



Notes

Maxillary 2nd Premolar



Notes

Mandibular 1st Premolar



#21

Notes

Mandibular 1st Premolar

Buccal View



Notes

Pentagonal Shaped from a Buccal View



Notes

Lingual View



Notes

Proximal View

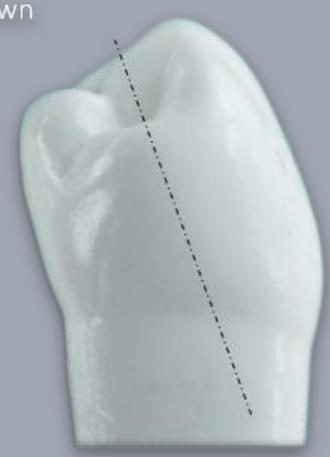
- Rhomboidal shaped
- Note the "tilt," or angulation of the crown of the tooth.



Notes

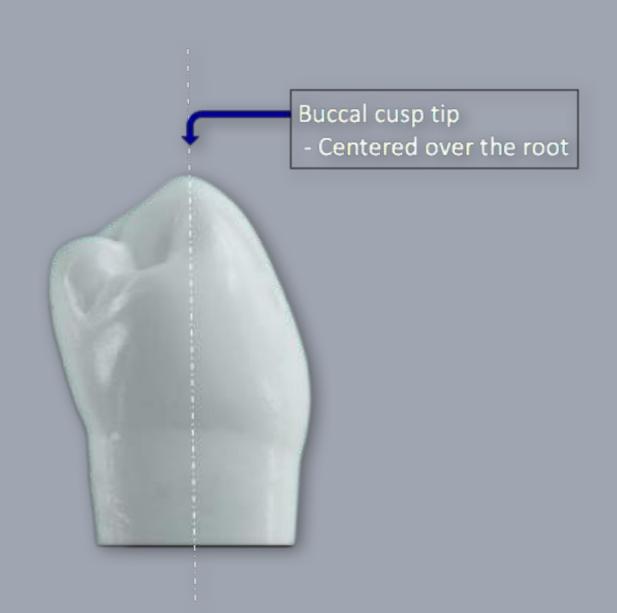
Mesial View

Angulation of the crown



Notes

Mesial View



Notes

Distal View



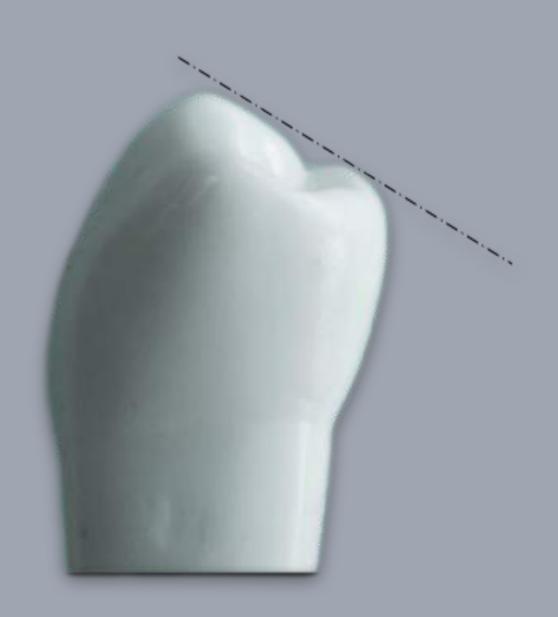
Notes

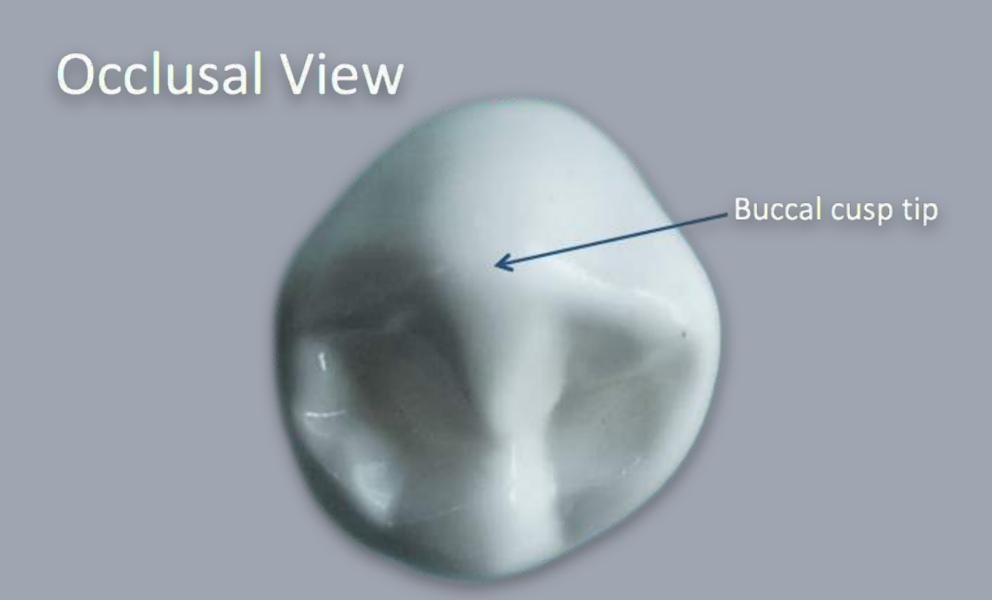
Mandibular 1st Premolar

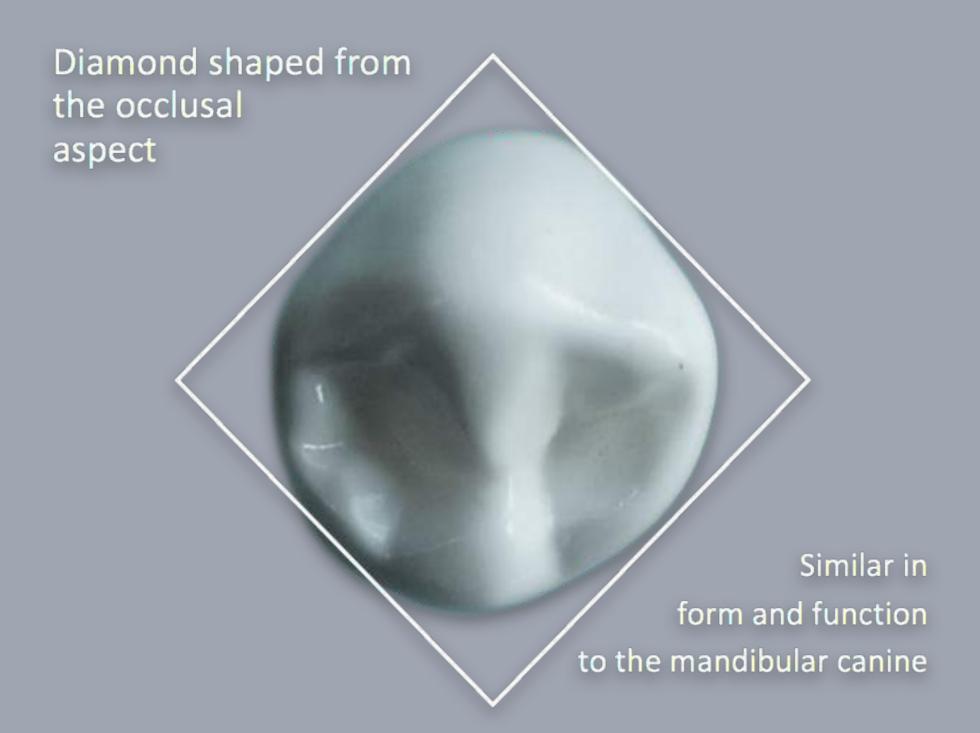
*Very short, non-functional Lingual cusp

Notes

Distal View

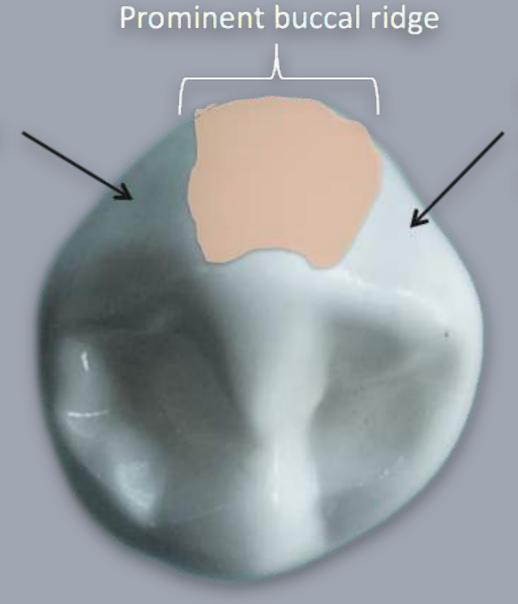






Notes

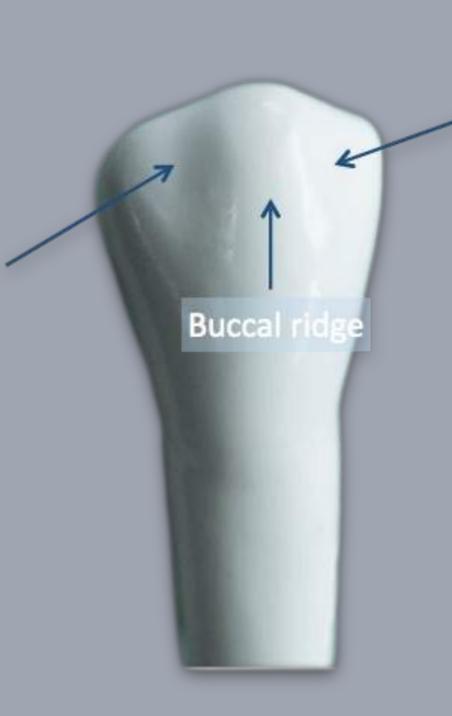
Distobuccal Developmental depression



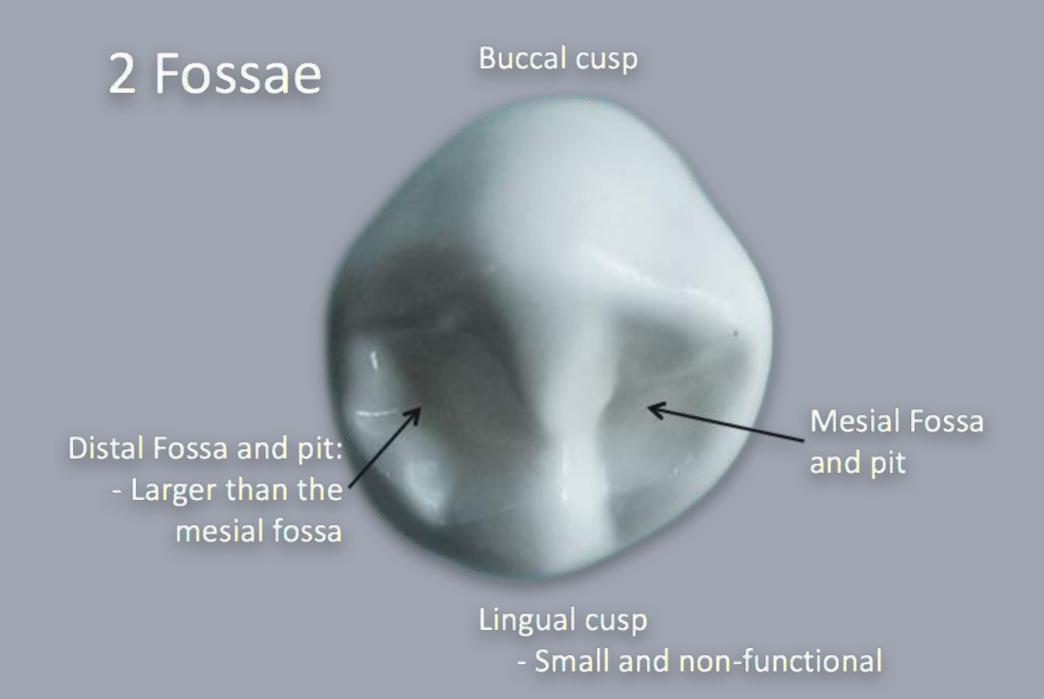
Mesiobuccal developmental depression

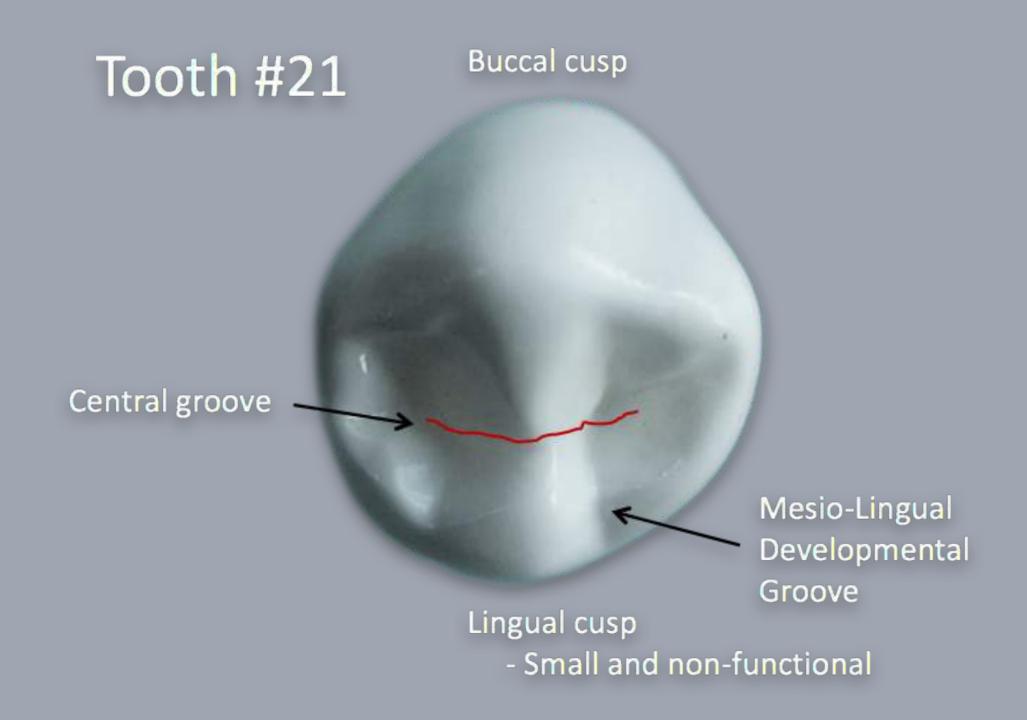
Notes

Mesiobuccal developmental depression



Distobuccal developmental depression

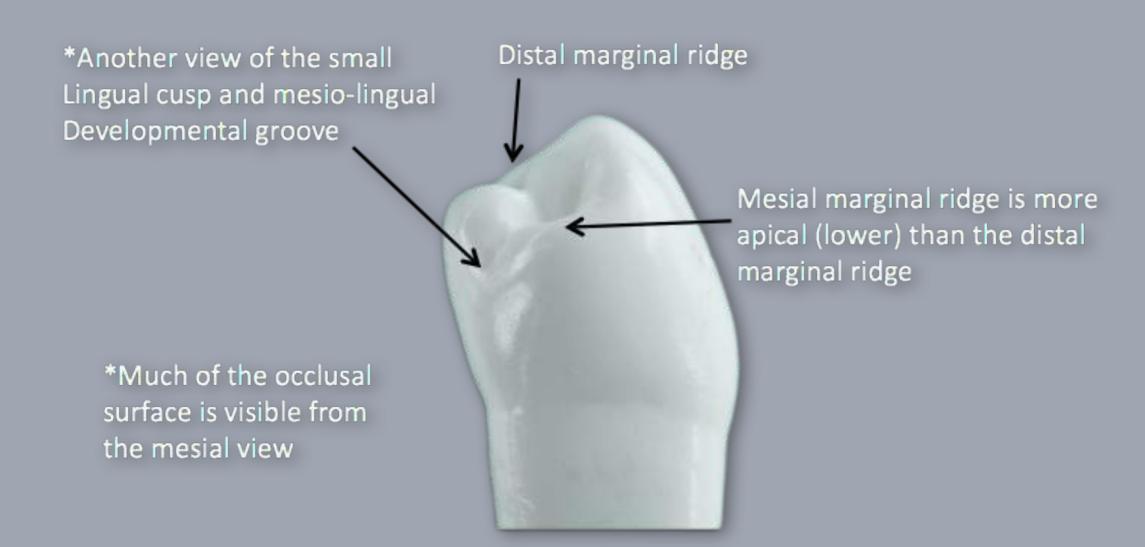




- Short, non-functional lingual cusp
- Mesio-lingual developmental groove

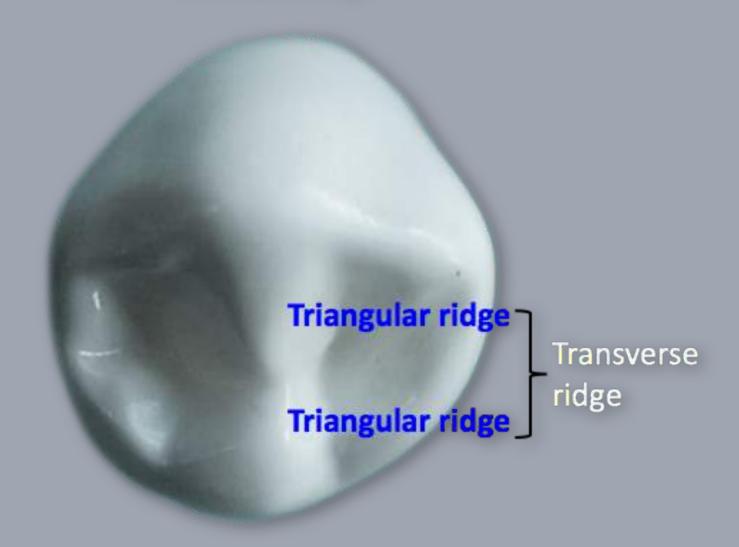
Notes

Mesial View



Notes

Buccal cusp



Lingual cusp

Notes

Buccal cusp



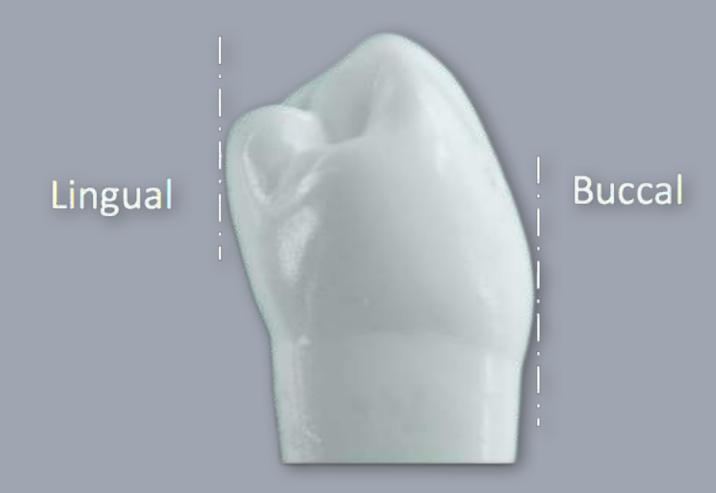
Lingual cusp

Notes

Heights of Contour

Notes

Heights of Contour



Notes

Interproximal Contacts

Mesial interproximal contact is more cervical (lower) than the distal interproximal contact

Unique to the mandibular first premolars



Notes

Interproximal Contacts



Notes

Mandibular Right 1st Premolar





Notes

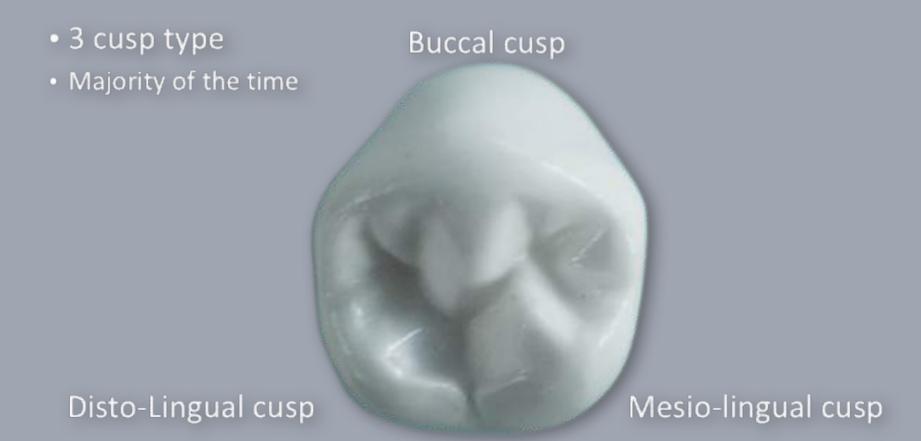
Mandibular Left 2nd Premolar

• #20



Notes

Mandibular Left 2nd Premolar



Notes

Mandibular Left 2nd Premolar

- Occlusal View
- Pentagonal in Shape
- More square towards the lingual



Notes

Mandibular Left 2nd Premolar

• More rounded buccal cusp than the 1st premolar



Notes

Mandibular Left 2nd Premolar

• Trapezoidal in shape, or....



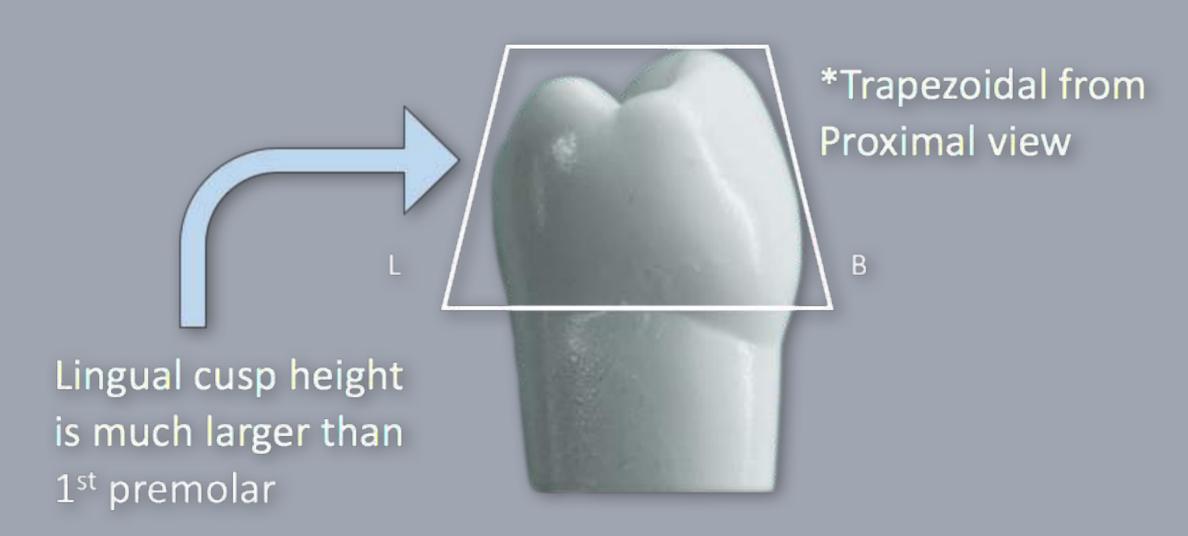
Notes

Mandibular Left 2nd Premolar

• ...Pentagonal in shape

Notes

Mandibular Left 2nd Premolar



Notes

Mandibular left 2nd Premolar



Notes

Mandibular Left 2nd Premolar



Notes

Mandibular Left 2nd Premolar

Buccal cusp

3 cusp type
*Y-shape cusp &
groove anatomy

Cusp tip

Disto-Lingual cusp

Mesio-lingual cusp

Notes

Mandibular Left 2nd Premolar

Buccal cusp



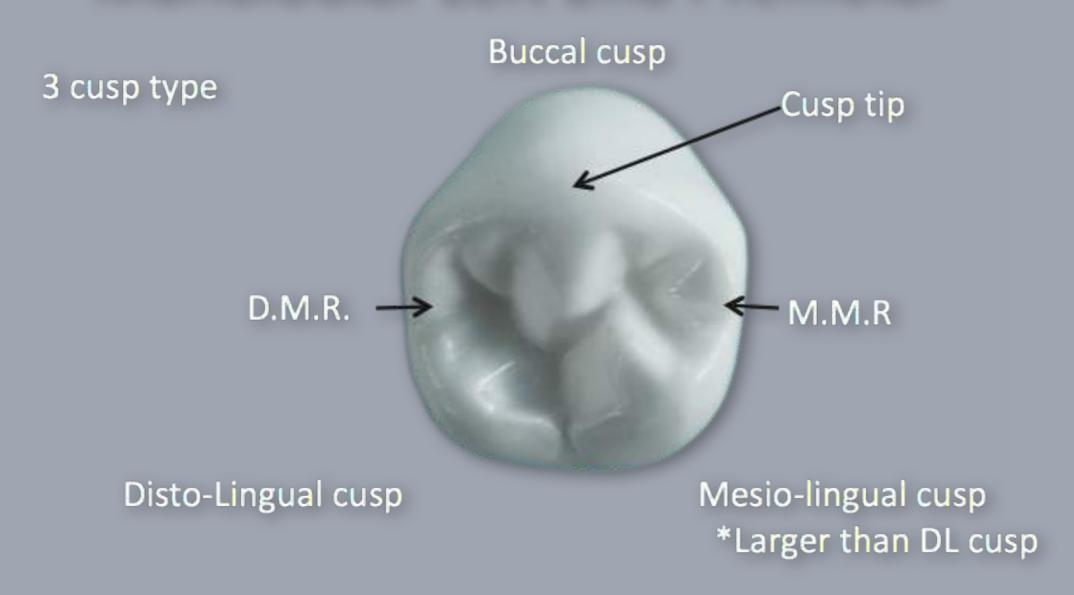
Disto-Lingual cusp

Mesio-lingual cusp

Y shaped

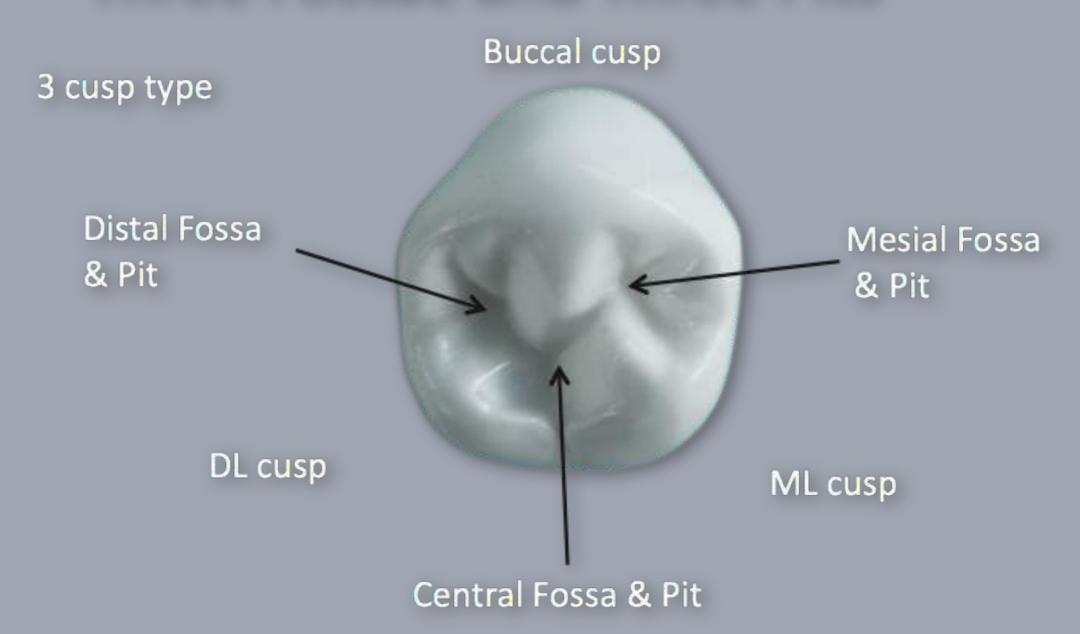
Notes

Mandibular Left 2nd Premolar



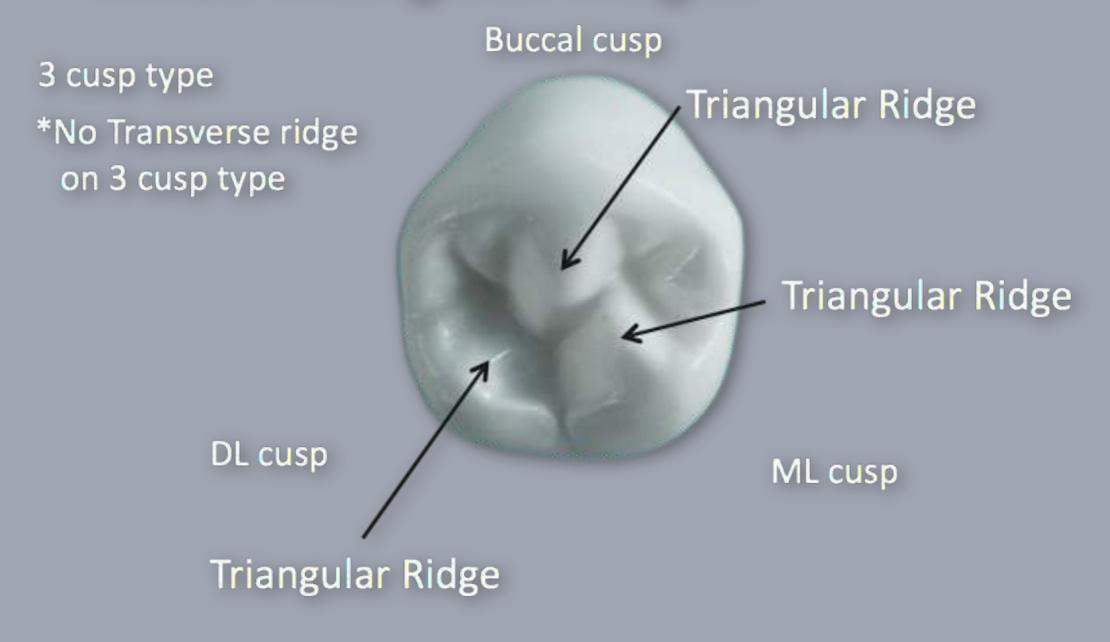
Notes

Three Fossae and Three Pits



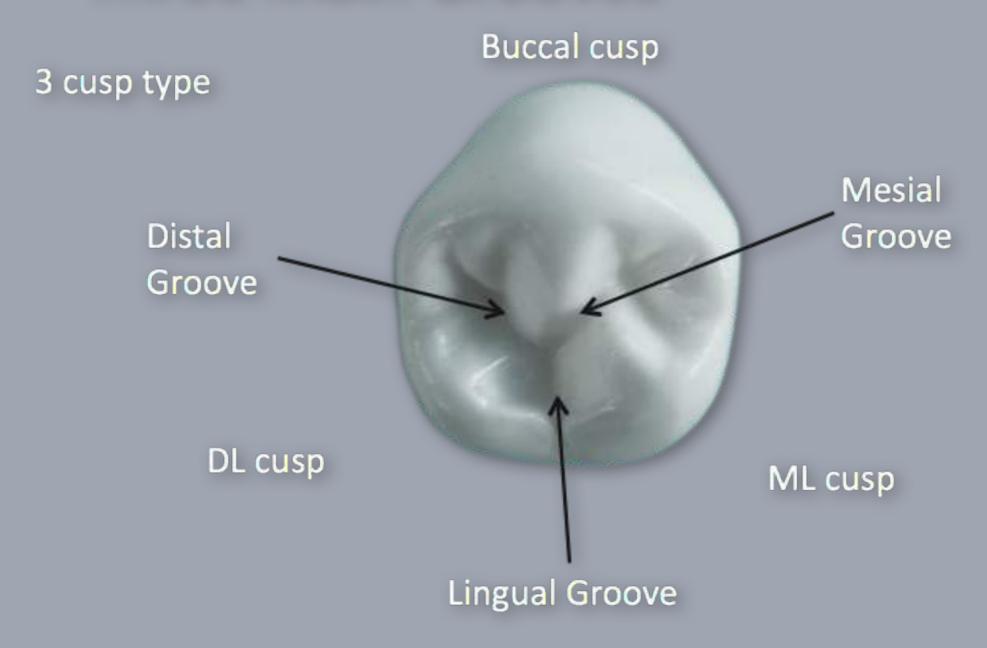
Notes

Three Triangular Ridges



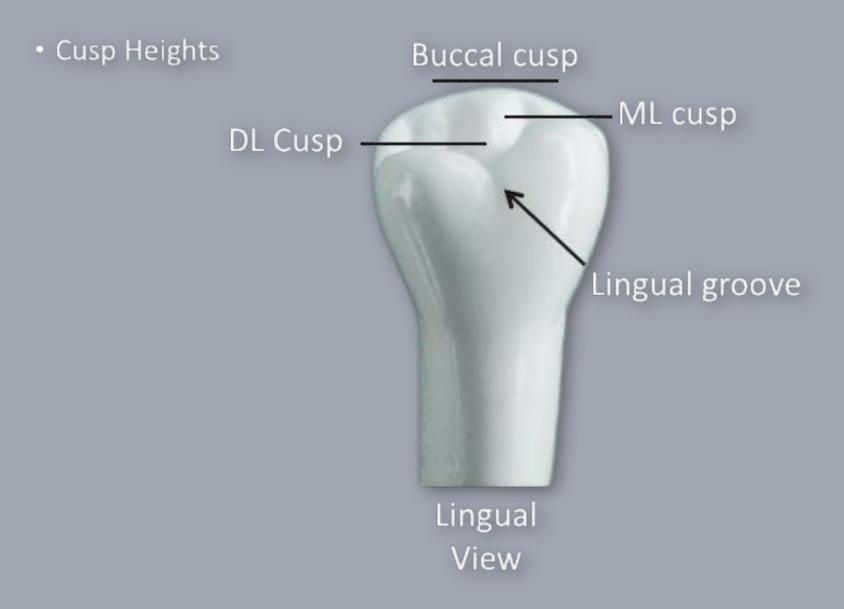
Notes

Three Main Grooves



Notes

Mandibular Left 2nd Premolar



Notes

Mandibular Left 2nd Premolar



Notes

Mandibular Right 2nd Premolar



Notes

Mandibular Left 2nd Premolar Contact points & embrasure spaces



Notes

Mandibular Left 2nd Premolar Contact points & embrasure spaces



Notes

Maxillary 1st Molar



#3

Notes







Notes

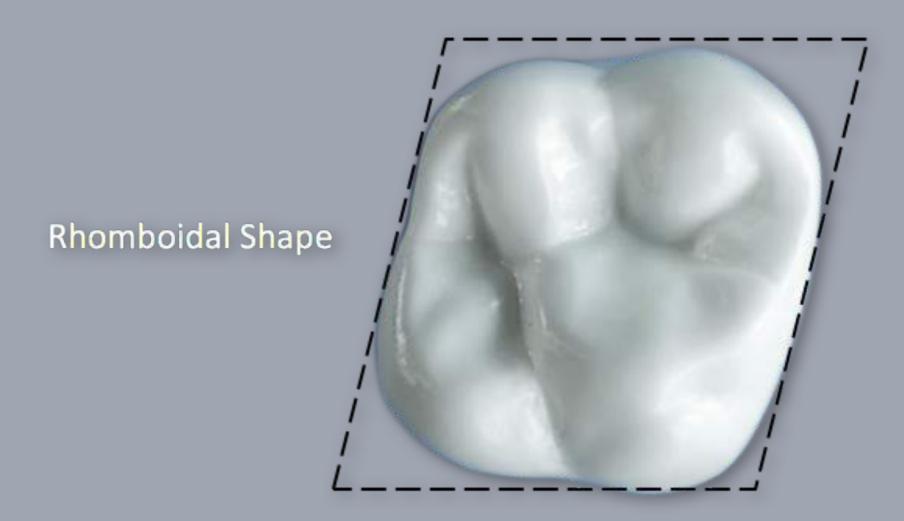
Maxillary 1st Molar

- •The "cornerstone," tooth in the maxillary arch.
- Complex crown anatomy.
- •Form and function are very important



Notes

Maxillary 1st Molar

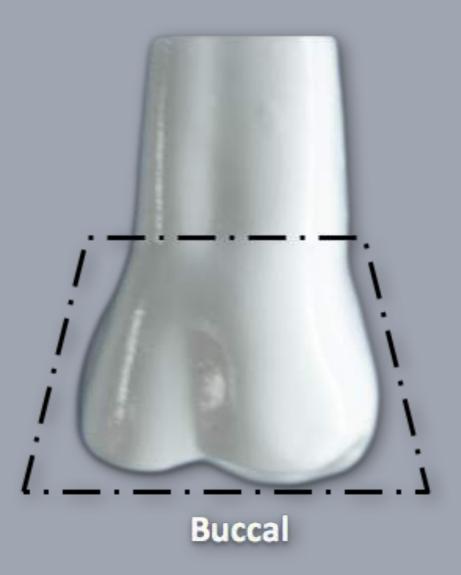


Occlusal View

Notes

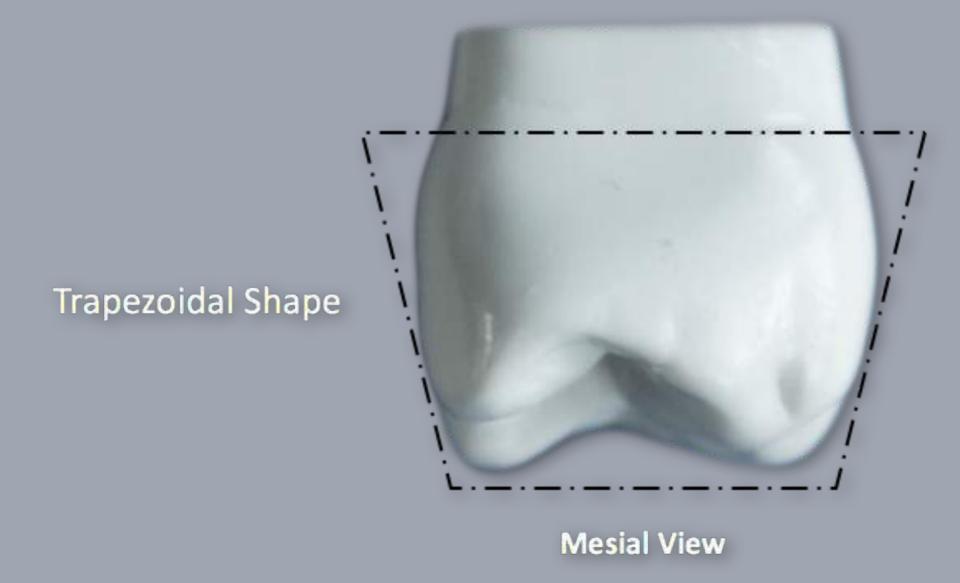
Maxillary 1st Molar

Trapezoidal Shape

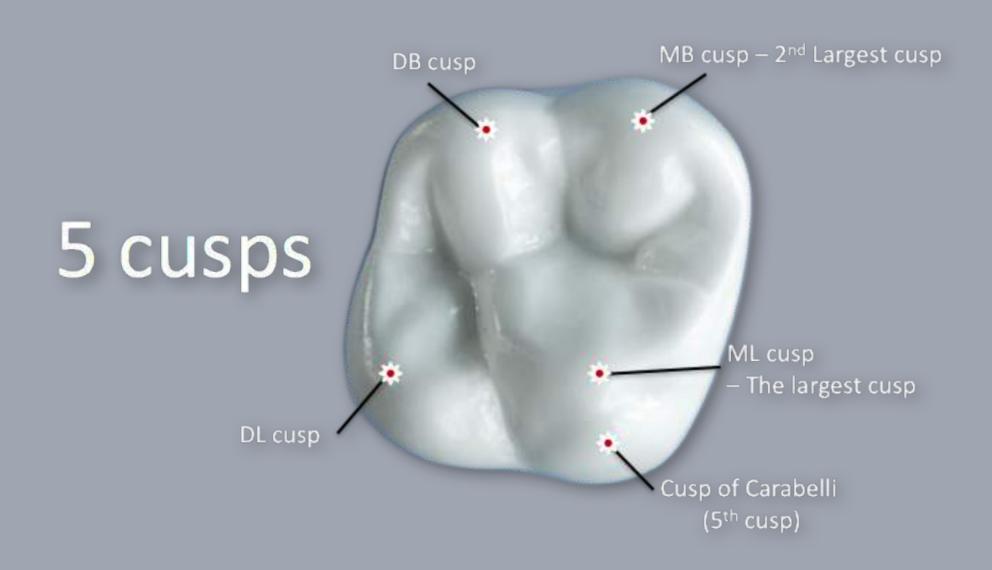


Notes

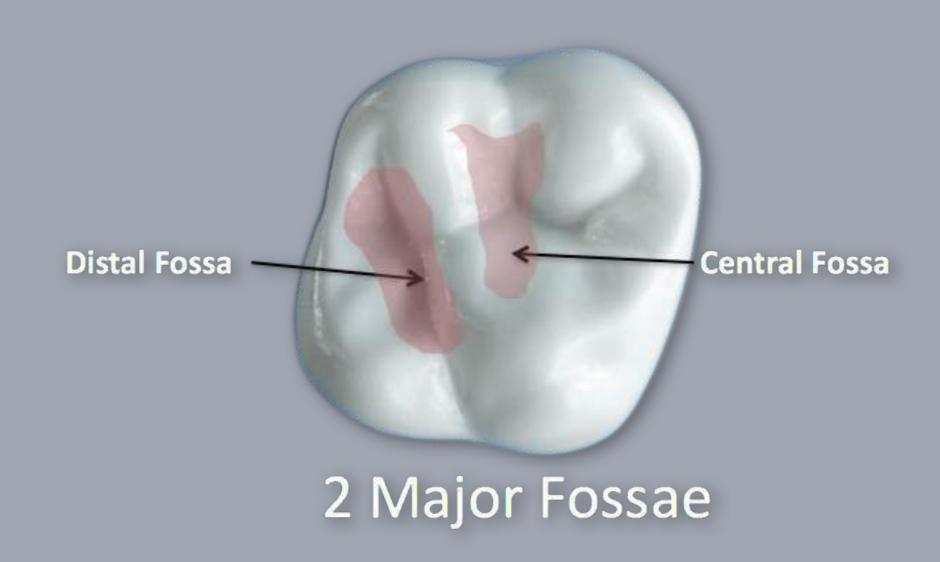
Maxillary 1st Molar



Notes



Notes



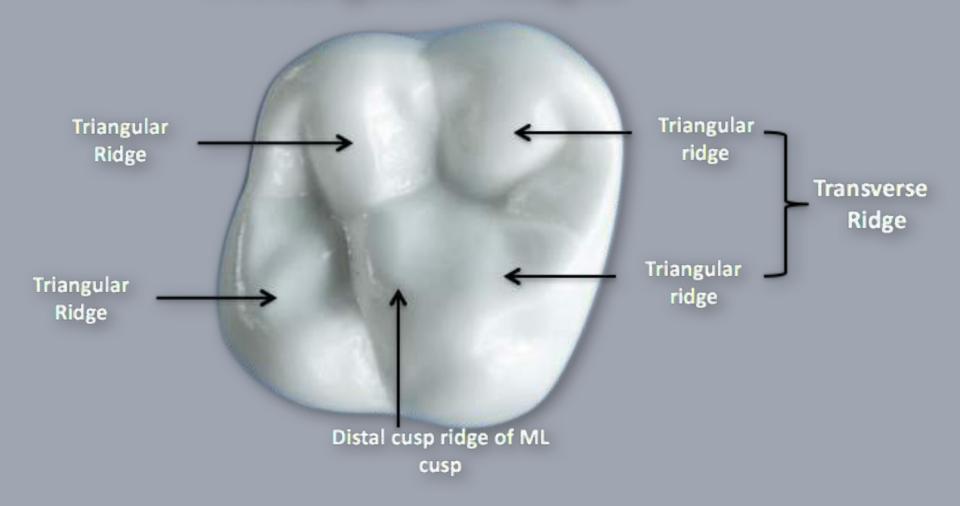
Notes



Notes

Maxillary 1st Molar

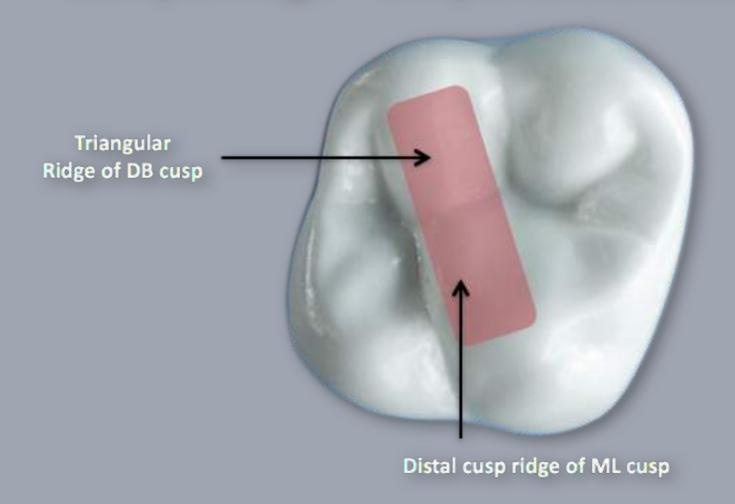
4 Triangular Ridges



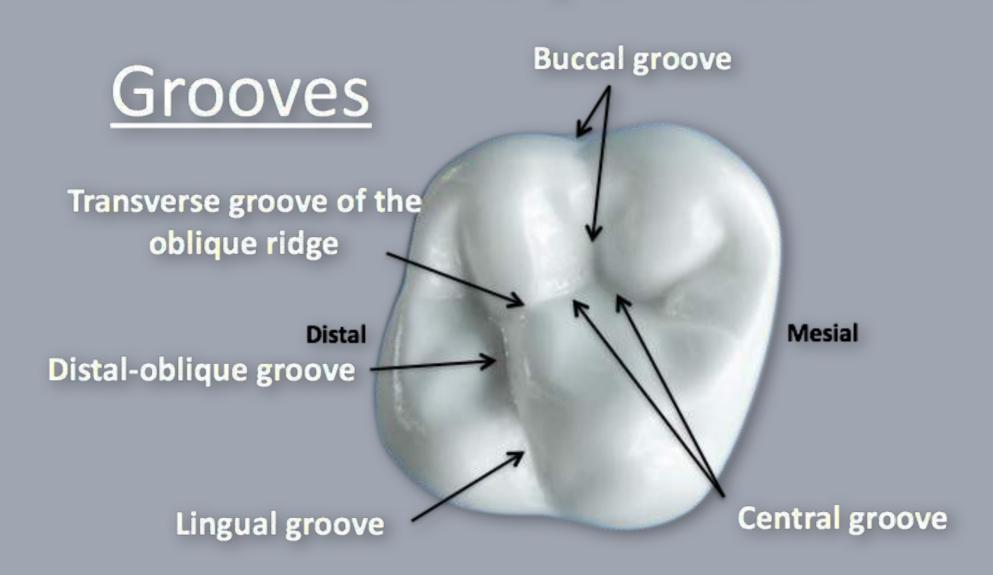
Notes

Maxillary 1st Molar

-Oblique Ridge – Unique to the maxillary molars



Notes

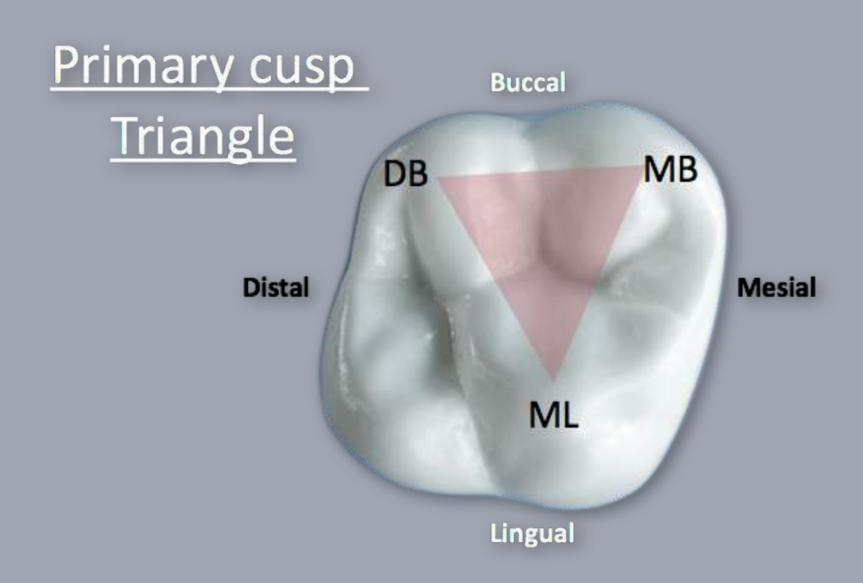


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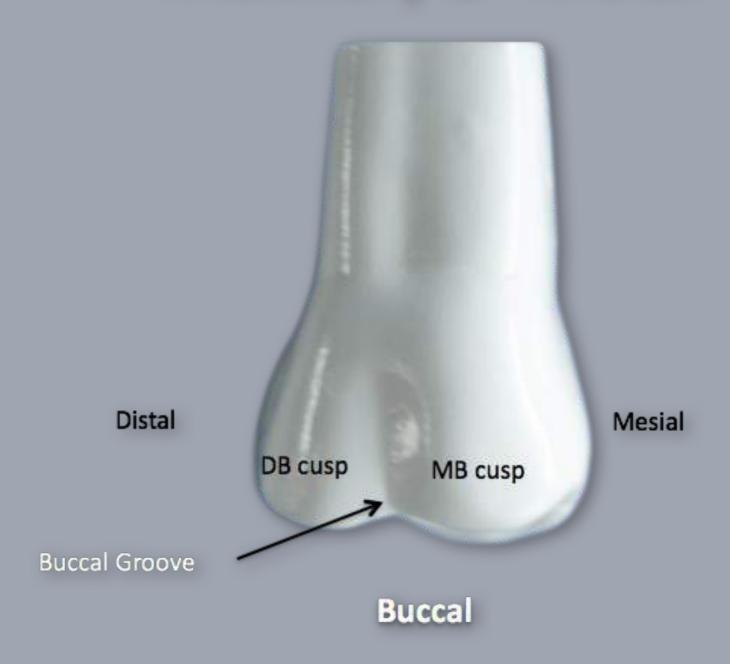


Occlusal View

Notes

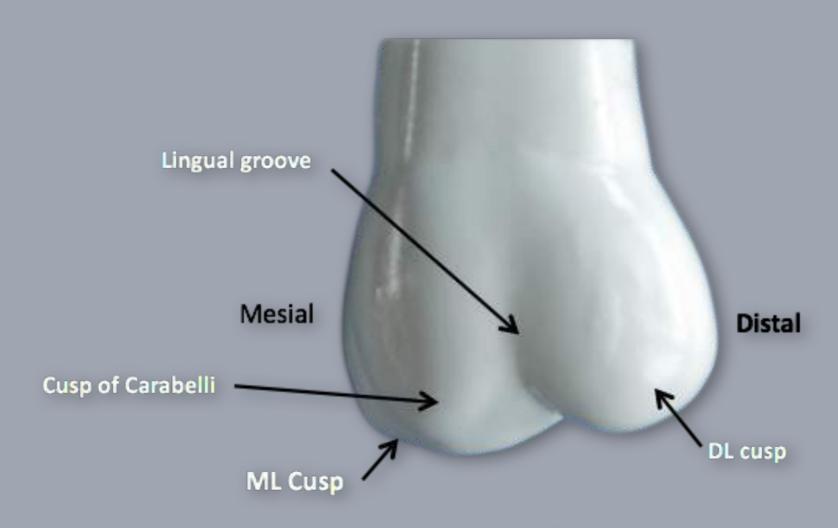


Notes



Notes

Maxillary 1st Molar



Lingual View

Notes

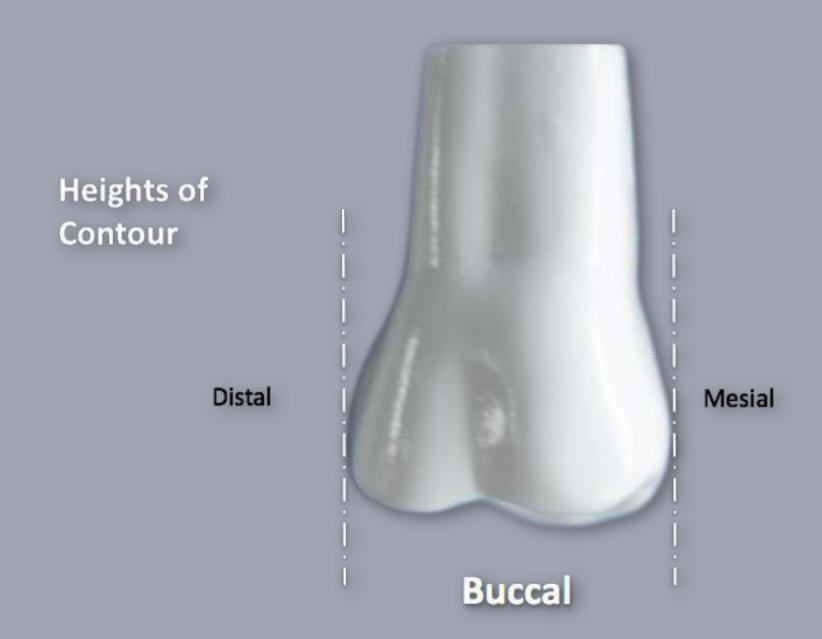
Maxillary 1st Molar

Heights of Contour

B

Mesial View

Notes



Notes

Maxillary 1st Molar











Notes

Maxillary 1st Molar

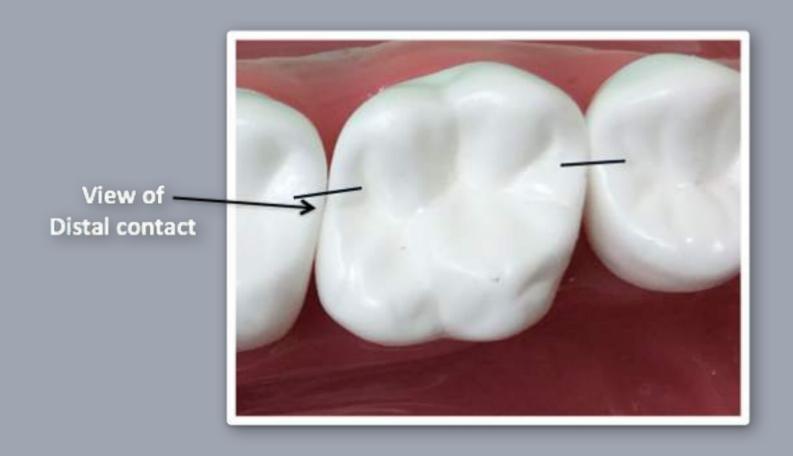




Interproximal Contacts & Embrasure spaces

Notes

Maxillary 1st Molar



Notes



Notes

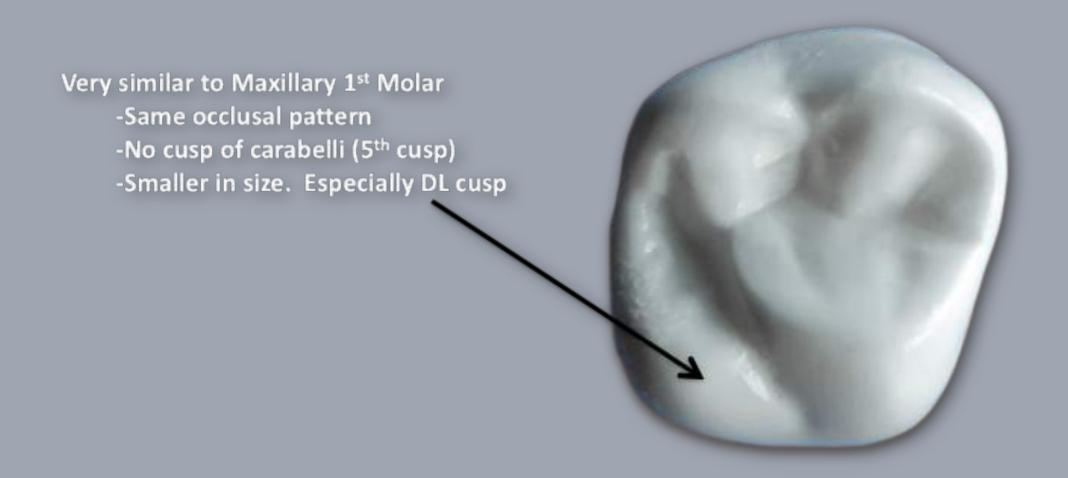
Maxillary 2nd Molar

Tooth #2



Notes

Maxillary 2nd Molar



Notes

Maxillary 1st/2nd Molars

Tooth #2



Tooth #3



Notes

Mandibular Molars









Notes



Notes

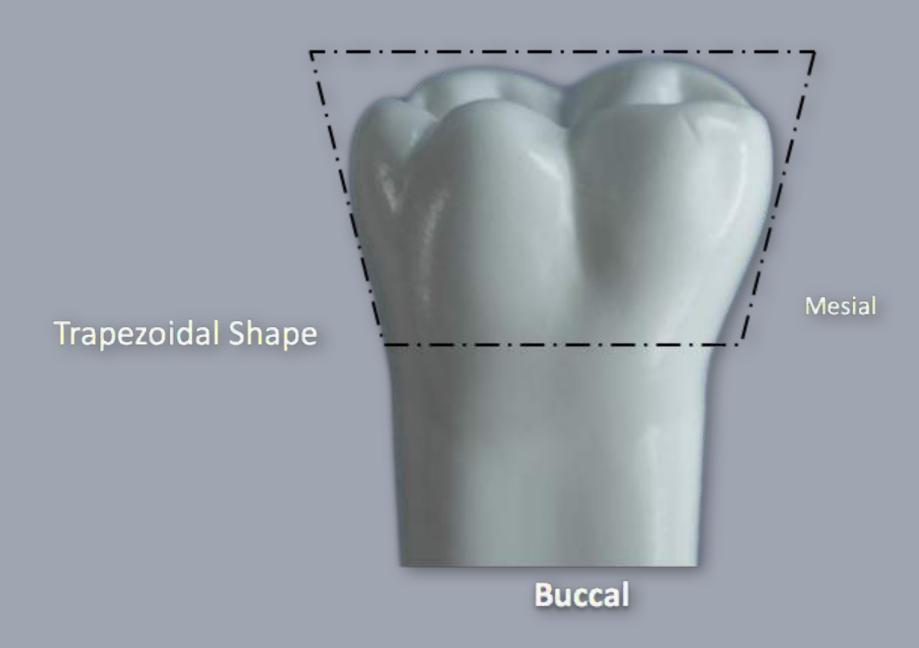
Mandibular 1st Molar

Rectangular Shape
*Can also be
pentagonal

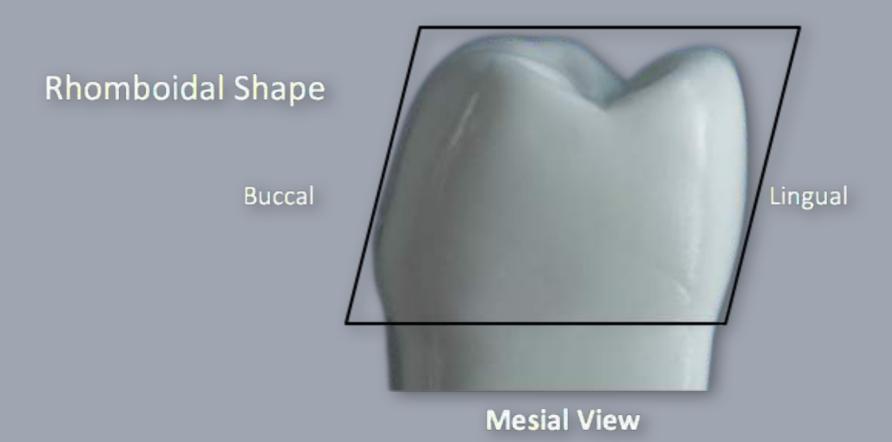


Occlusal View

Notes



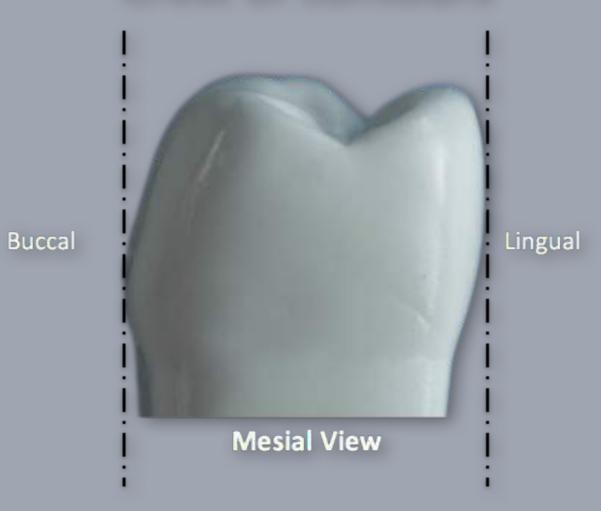
Notes



Notes

Mandibular 1st Molar

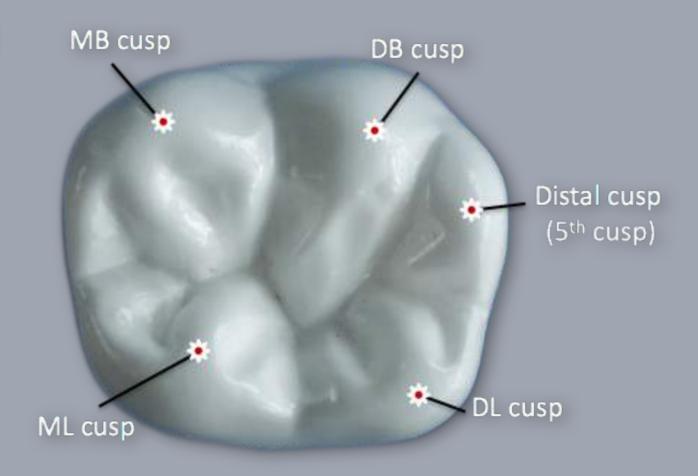
Crest of contours



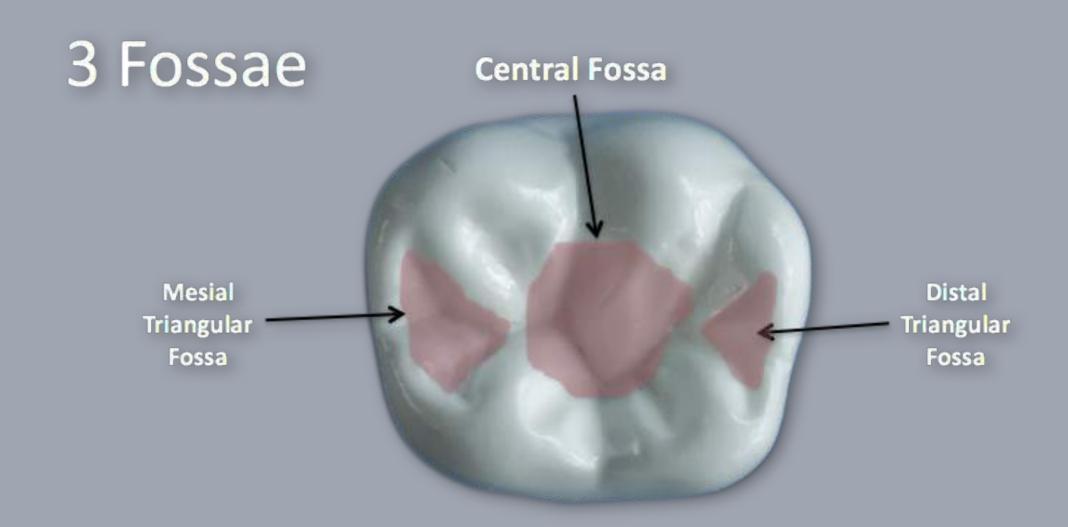
Notes

Mandibular 1st Molar

5 cusps



Notes

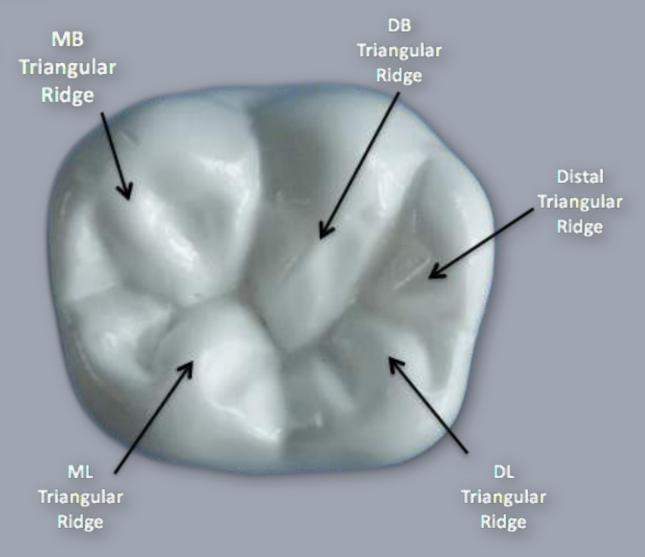


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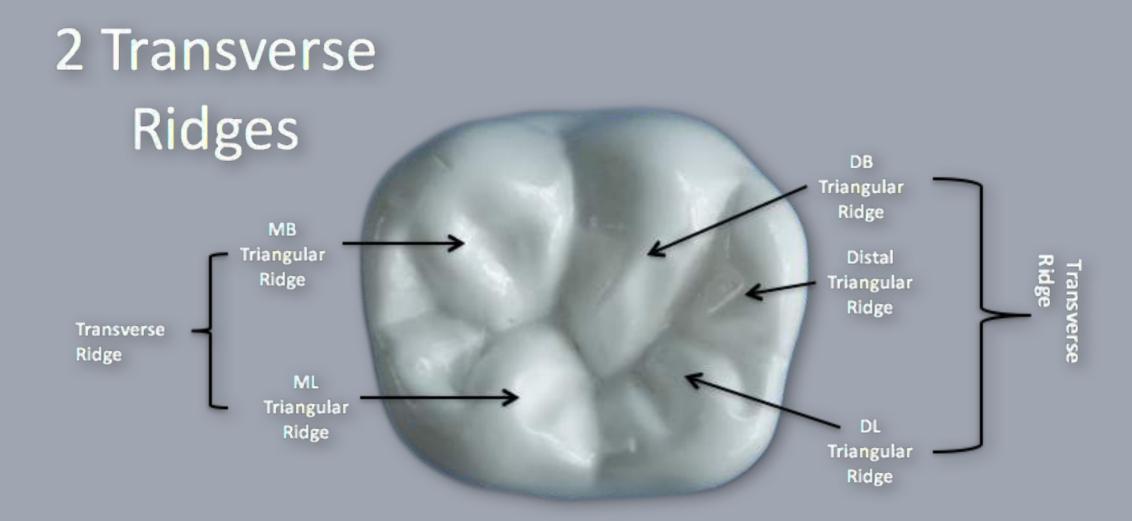
Mandibular 1st Molar

5 Triangular

Ridges



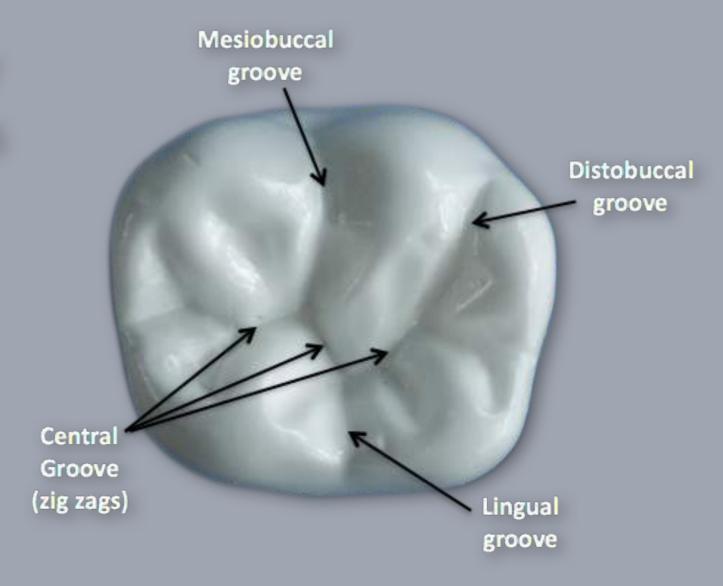
Notes



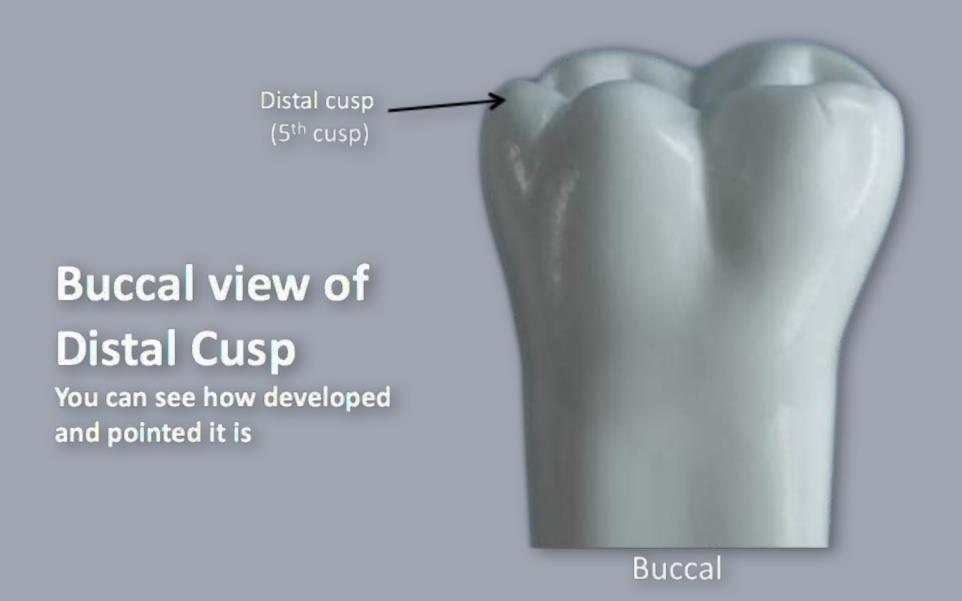
Notes

Mandibular 1st Molar

4 Major Grooves



Notes



Notes

Mandibular 1st Molar

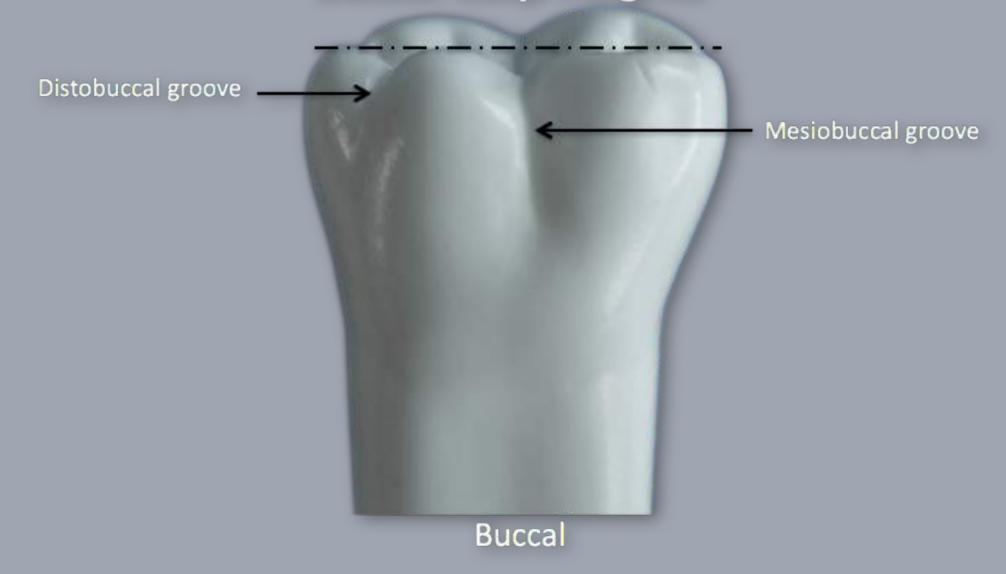
Can usually see all 5 cusps from the buccal view



Notes

Mandibular 1st Molar

Buccal Cusp Heights



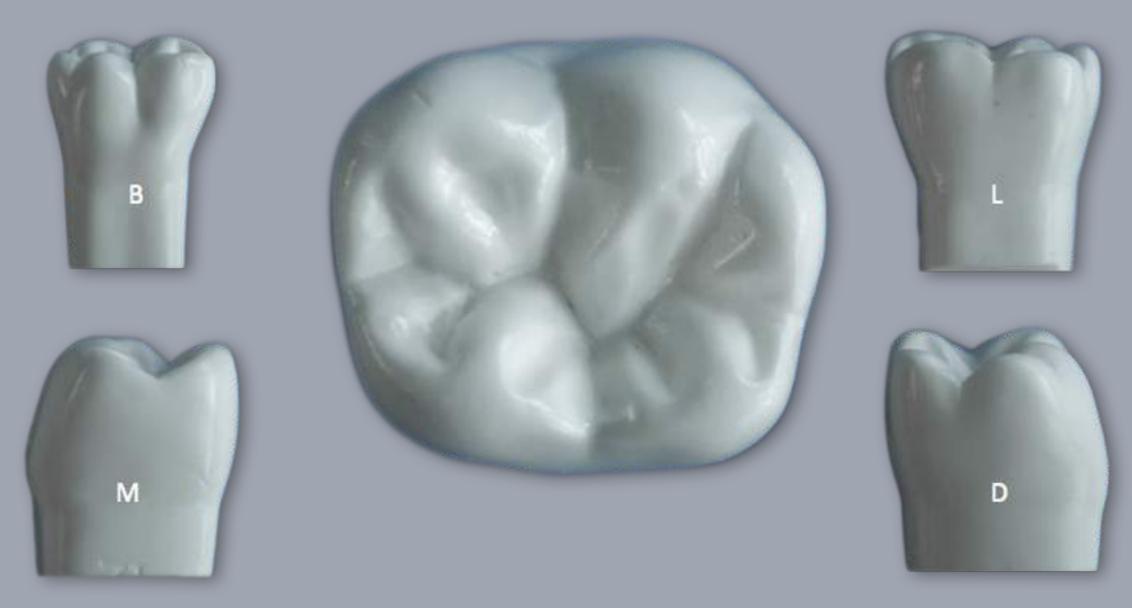
Notes



Notes



Notes



Notes



Proximal Contact Areas & Embrasure Spaces

Notes

Mandibular 1st Molar



Proximal Contact Areas & Embrasure Spaces

Notes

Mandibular Left 1st Molar



Notes

Mandibular 2nd Molar

- Usually smaller in size than the 1st Molar
- No Distal Cusp (5th cusp)



#18

Notes



*Square or rectangular in shape



Trapezoidal from buccal/lingual

Notes

Mandibular 2nd Molar

All 4 cusp heights are nearly equal



D

Notes

Mandibular 2nd Molar

*The occlusal groove scheme is a cross or "+" sign

В M

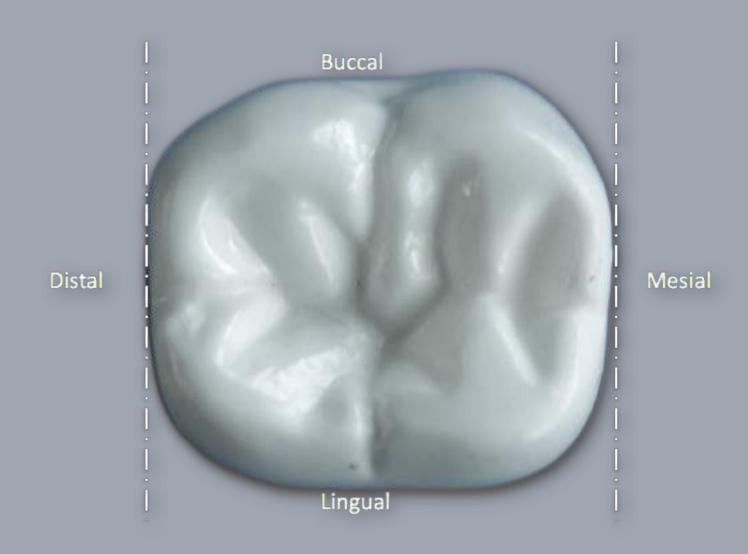
Heights of

Contour

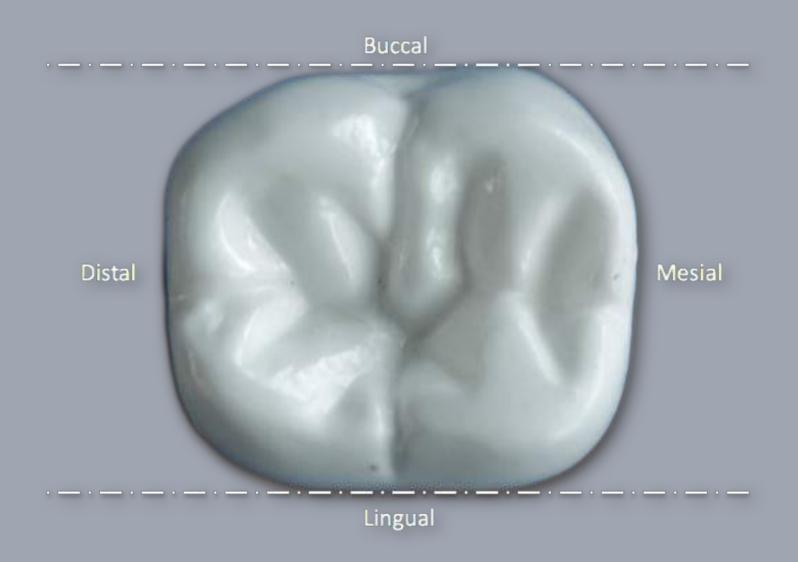
Notes



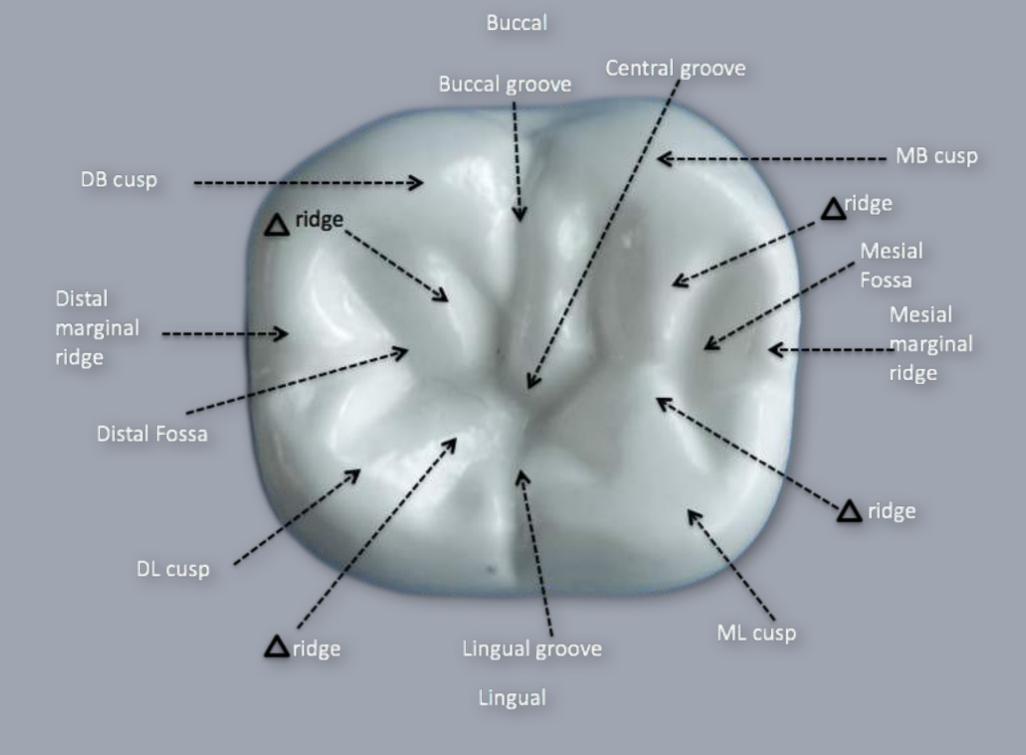
Notes



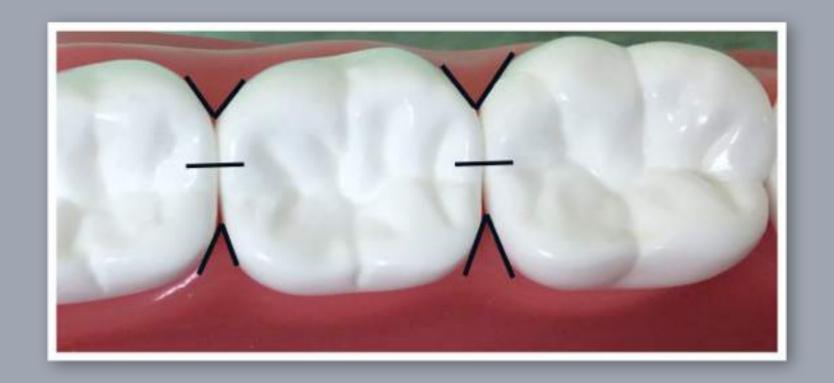
Notes



Notes



Notes



Contact points & embrasure spaces

Notes

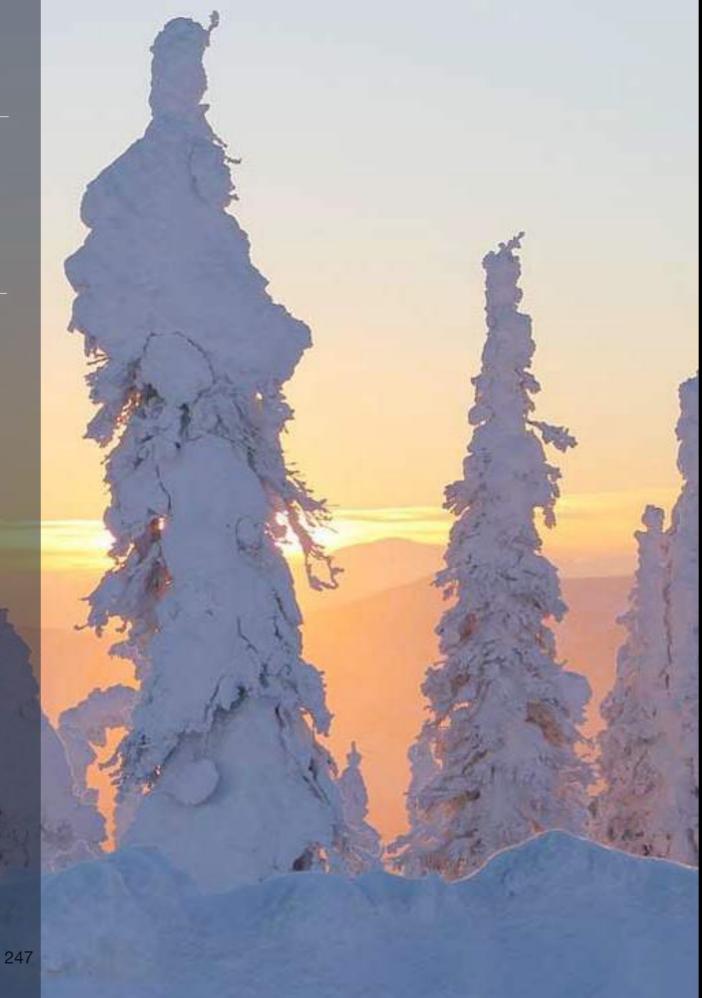


Contact points & embrasure spaces

Notes

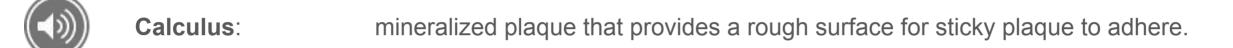


Contact points & embrasure spaces



Introduction to Periodontal Disease Terms to Know







Gingival recession: as periodontal disease progresses, the gingiva may recede, leaving portions of the roots of teeth exposed below the cementoenamel junction (CEJ).

Gingivitis: a bacterial infection that is confined to the gingiva. It is reversible.

Mobility: movement

Periapical: the area surrounding the end of the tooth root.



Periodontal: supporting and surrounding tissues around the tooth.



Periodontal disease: inflammatory process of the gingival tissues and/or periodontal membrane of

the teeth, resulting in an abnormally deep gingival sulcus, possibly producing

periodontal pockets and loss of supporting alveolar bone.



Periodontal pocket: indicates the presence of an abnormal depth of the gingival sulcus where the

gingival tissue contacts the tooth. A normal sulcus measures 3mm or less.



Periodontitis: a bacterial infection, with inflammation of the periodontium including the

gingiva, periodontal ligament, bone, and cementum. Loss of attachment and

tissue is irreversible.



Periodontium: tissues comprising gingival, cementum, periodontal ligament, and alveolar

bone that attaches, nourishes and supports the tooth.



Plaque: a soft sticky substance that accumulates on teeth composed largely of

bacteria and bacterial by-products. Plaque is the primary cause of gingival

inflammation and most other types of periodontal diseases.



Prophylaxis: commonly referred to as prophy or cleaning. It is the technical term for the removal of

plaque, calculus and stain from tooth structures. It is intended to control local irritant

factors.



Recession: areas where the gingiva has moved away from the crown of a tooth.



Stippling or stippled: textured surface of gingiva similar to the surface of an orange.



Subgingival calculus: forms on root surfaces below the gingival margin and can extend into periodontal

pockets.



Sulcus: the natural space found between the tooth and the gum tissue; sulcular refers to the

sulcus.



Supragingival calculus: found above the margin of the gingiva.

Periodontal Probing Terms to Know



Calculus:

mineralized plaque that provides a rough surface for sticky plaque to adhere.



Cementoenamel junction (CEJ): the area of a tooth where the cementum and enamel meet.



Cementum:

hard connective tissue covering the outer surface of a tooth root.



Clinical crown:

that portion of a tooth not covered by tissues.



Coronal:

refers to the crown of a tooth.



CPI:

Community Periodontal Index (CPI, formerly called the Community

Periodontal Index of Treatment Needs or CPITN) was created in 1978 by the World Health Organization (WHO) to provide a global standard for screening

periodontal disease in populations.



Periodontal:

supporting and surrounding tissues around the tooth.



Periodontal charting:

documentation of periodontal probing depth for six areas on each tooth, notation of tooth mobility, and other clinical periodontal findings which are measured, recorded, and monitored over time.



Periodontal disease:

inflammatory process of the gingival tissues and/or periodontal membrane of the teeth, resulting in an abnormally deep gingival sulcus, possibly producing periodontal pockets and loss of supporting alveolar bone.



Periodontal pocket:

indicates the presence of an abnormal depth of the gingival sulcus where the gingival tissue contacts the tooth. A normal sulcus measures 3mm or less.



Periodontal probe:

instrument used to locate and measure the depth of periodontal pockets. The tip is blunt or rounded and has markings in millimeters to measure the depth of the sulcus.



PSR:

Periodontal Screening and Recording index documents periodontal conditions prior to diagnosis and treatment.



Quadrant:

one of the four equal sections into which the dental arches can be divided; begins at the midline of the arch and extends distally to the last tooth.



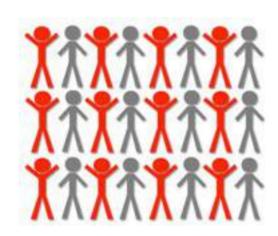
Sextant:

one of the six relatively equal sections into which a dental arch can be divided, for example: tooth numbers 1-5; 6-11; 12-16; 17-21;22-27;28-32. Used for recording the CPI or PSR.

Prevalence

One out of every two American adults aged 30 and over has periodontal disease, according to recent findings from the Centers for Disease Control and Prevention (CDC). A study titled *Prevalence of Periodontitis in Adults in the United States: 2009 and 2010* estimates that 47.2 percent, or 64.7 million American adults, have mild, moderate or severe periodontitis, the more advanced form of periodontal disease. In adults 65 and older, prevalence rates increase to 70.1 percent.

The findings also indicate disparities among certain segments of the U.S. population. Periodontal disease is higher in men than women (56.4 percent vs. 38.4 percent). Current smokers (64.2 percent) had a much higher prevalence of



severe periodontitis. This is consistent with the 2004 *Surgeon General's Report on the Health Consequences of Smoking,* which infers a causal relationship between smoking and periodontitis. Other segments with high prevalence rates include those living below the federal poverty level (65.4 percent), and those with less than a high school education (66.9 percent).



Causes

Bacteria in the mouth infect tissue surrounding the tooth, causing inflammation around the tooth leading to periodontal disease. When bacteria stay on the teeth long enough, they form a film called plaque, which eventually hardens to tartar, also called calculus. Tartar build-up can spread below the gum line, which makes the teeth harder to clean. Then, only a dental health professional can remove the tartar and stop the periodontal disease process.

Prevention and Treatment

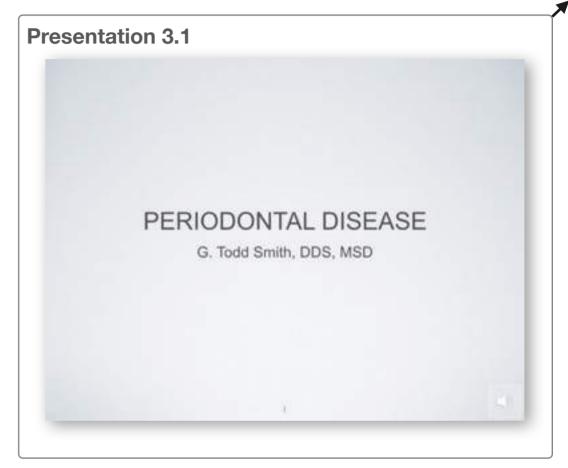
According to the American Academy of Periodontology the best ways to prevent periodontal disease are to avoid smoking, maintain control of diabetes, have regular dental cleanings, and practice good oral hygiene.

Overview

- Periodontal diseases are mainly the results of infections and inflammation of the gums and bone that surround and support the teeth.
- In its early stage, called gingivitis, the gums can become swollen and red, and they may bleed.
- In its more serious form, called periodontitis, the gums can pull away from the tooth, bone can be lost, and the teeth may loosen or even fall out.

Gingivitis





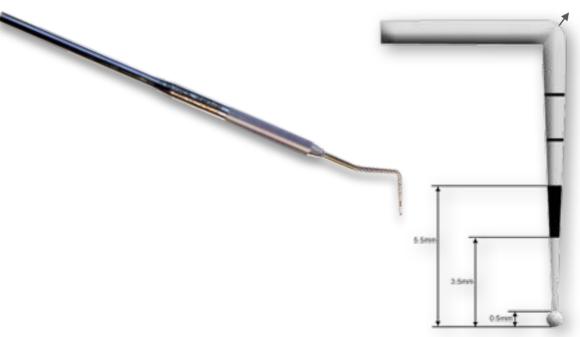


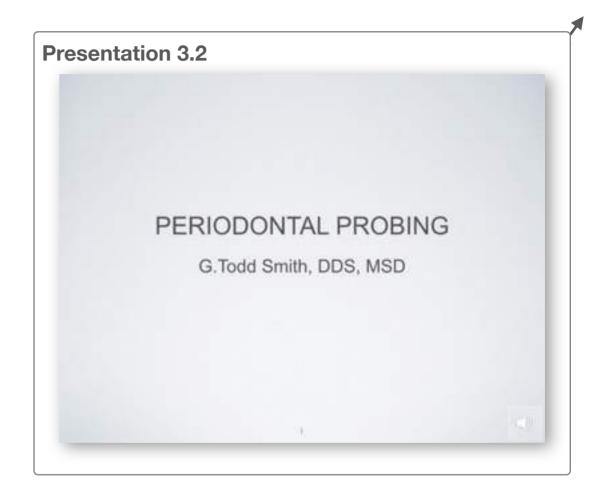


Note Pad

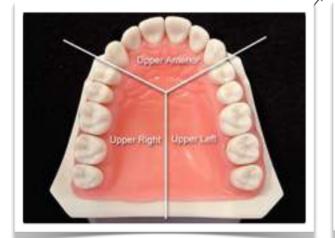
Periodontal Disease Process

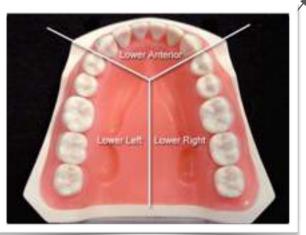






Sextants















Probing Technique

- Keep the tip of the probe against the tooth surface (parallel).
- Walk (bob) the tip of the probe around the tooth and into the sulcus until it meets resistance at the base of the pocket.
- Do not remove the probe from the sulcus when walking around a tooth.
- When probing the interproximal surfaces of the tooth, slant the probe slightly allowing the tip to reach under the contact into the sulcus.
- It is important to measure around the entire tooth circumference as measurements can vary in just a small space.
- Correct probing technique is necessary to gather accurate information.

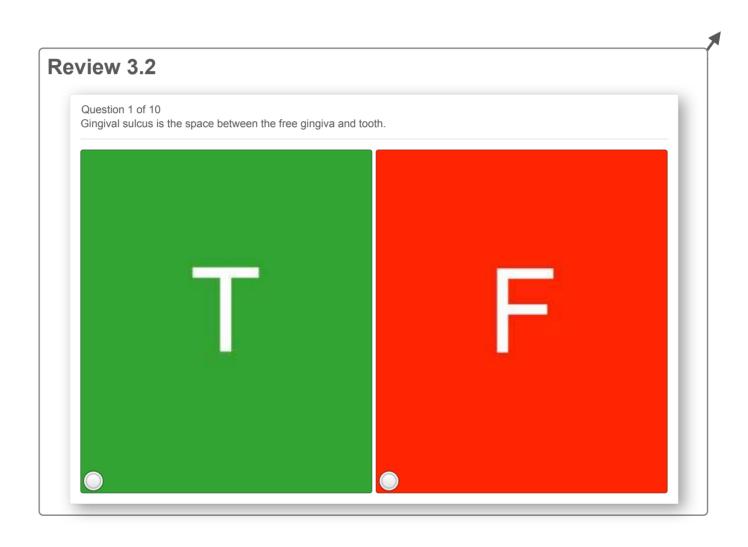
Slider 3.1 Periodontal Probing



Click to view then drag the finger to view animation

Flash Cards 3.1





Review 3.3 Click to take the quiz

QUIZ

Learning Objectives

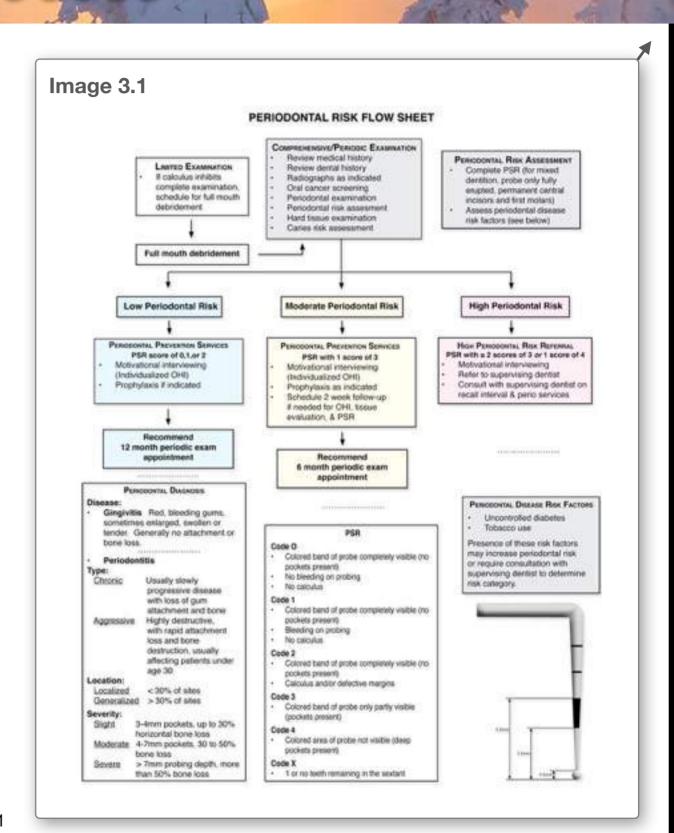
- Explain 0-1-2-3-4-X PSR Codes
- Describe periodontal treatment flow for patients who are in the low, moderate or high risk categories

Putting It All Together

By following the steps outlined in the Periodontal Risk Flow Sheet you should now be able to arrive at a PSR Code and Risk Category for your patients. With this information you will be able to determine a treatment plan and course of action.

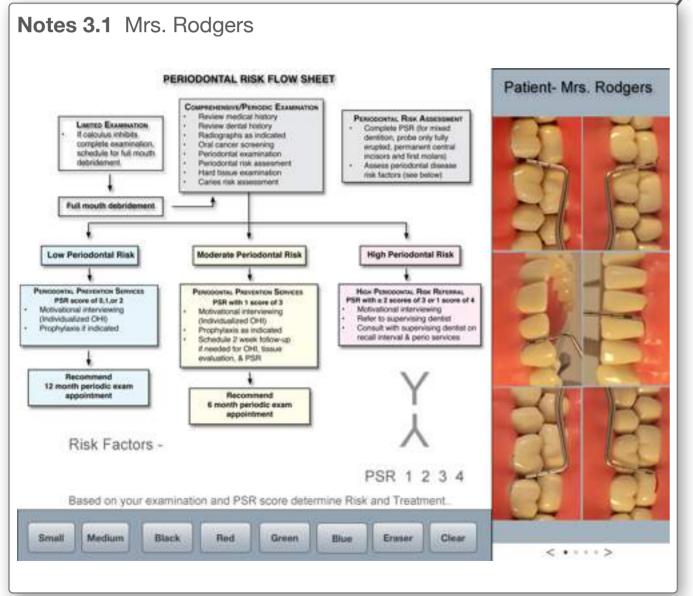
Study the logic of the flow sheet and in the pages that follow work through 3 sample patients that have differing risks and needs.



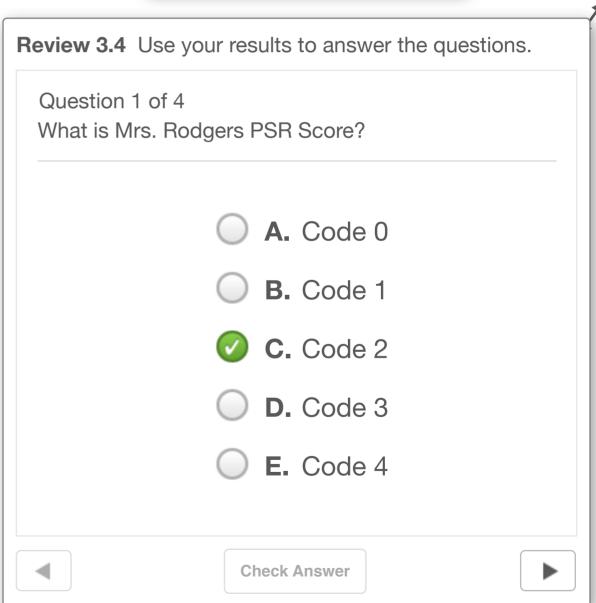


Instructions:

Use the probing photographs to determine the patient's PSR score, and describe the recommended treatment outlined in the Periodontal Risk Flow Sheet.

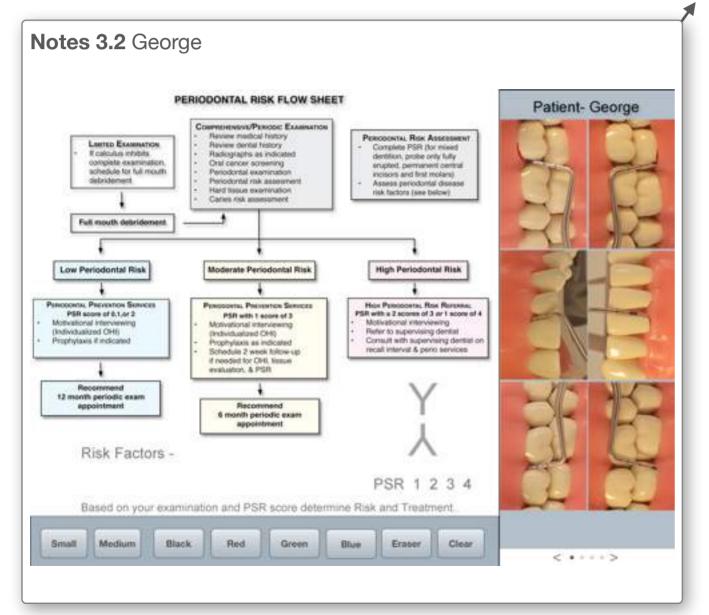




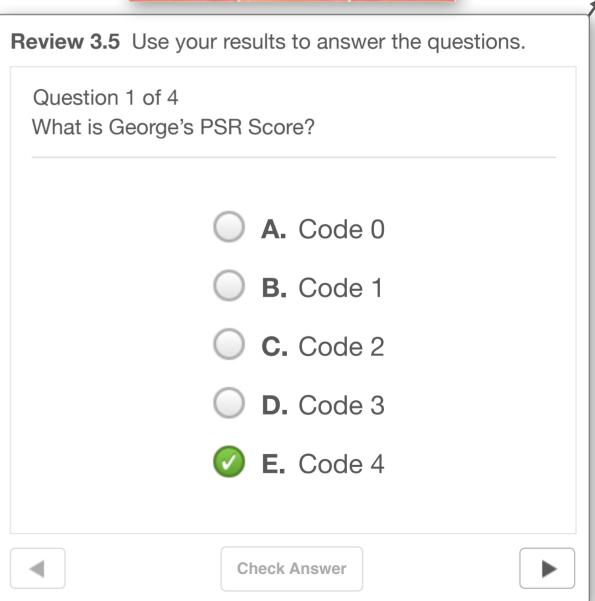


Instructions:

Use the probing photographs to determine the patient's PSR score, and describe the recommended treatment outlined in the Periodontal Risk Flow Sheet

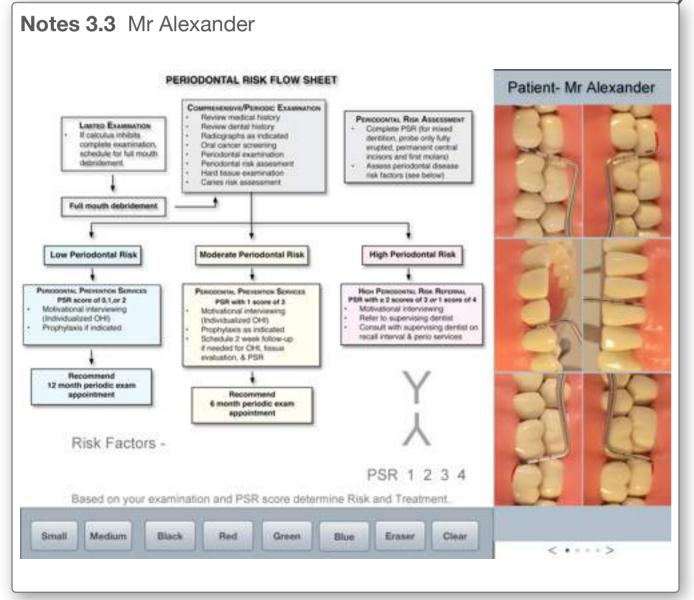




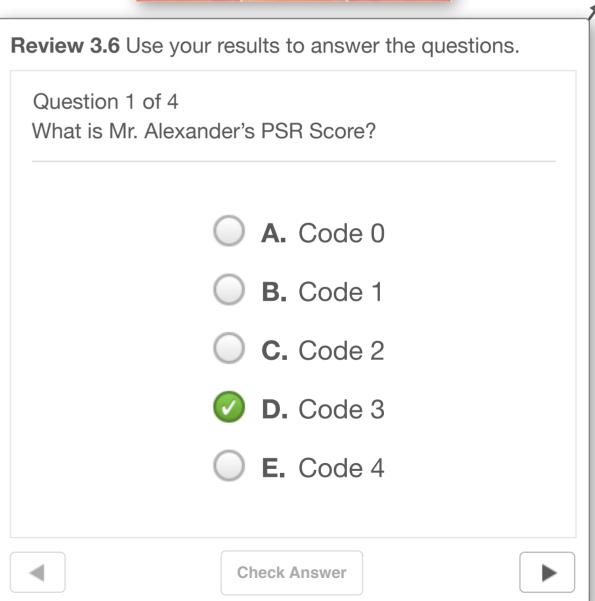


Instructions:

Use the probing photographs to determine the patient's PSR score, and describe the recommended treatment outlined in the Periodontal Risk Flow Sheet







Resources

US Department of Health and Human Services. Oral Health in America: A Report of the Surgeon General-- Executive Summary, Rockville, MD: US Department of Health and Human Services, National Institute of Dental and Craniofacial Research, National Institutes of Health, 2000.

Alaska Native Tribal Health Consortium/University of Kentucky College of Dentistry, Primary Dental Health Aide Training Manuals and PowerPoint Presentations.

Bird, Doni L. and Robinson, Debbie S. Modern Dental Assisting. 10th ed. St. Louis, Missouri: Elsevier; 2012.

G. Todd Smith, DDS, MSD, IHS Periodontal Consultant, Narrated PowerPoint Presentations.

Introduction to Caries Disease Process





Terms to Know

Terms to Know

Acid: substance that has a pH of less than 7.



Alkaline: substance that has a pH greater than 7.



Buffer: a solution that resists changes in pH.



Caries process: the dynamic process of demineralization and remineralization that can lead to cavitation

(breakdown) of tooth structure.



Cavitated: breakdown of tooth structure.



Contagious: disease spread from one person or organism to another by direct or indirect contact.



Demineralization: when pH is lowered it weakens the tooth structure. First signs of demineralization are white

spot lesions.



Dental caries: dental term for the tooth decay process.



Dental plaque: a biofilm consisting of bacteria and bacterial by-products.

Terms to Know

Notes



Infectious: the ability to spread infection from person to person.



Neutral: pH of 7.



Neutralize: make an acidic or alkaline substance chemically neutral.



Opaque:

white, chalky area that indicates demineralization of the tooth structure.



Remineralization: the result of minerals in saliva buffering the acid, and strengthening the tooth.

It can stop tooth destruction, and reverse demineralization.

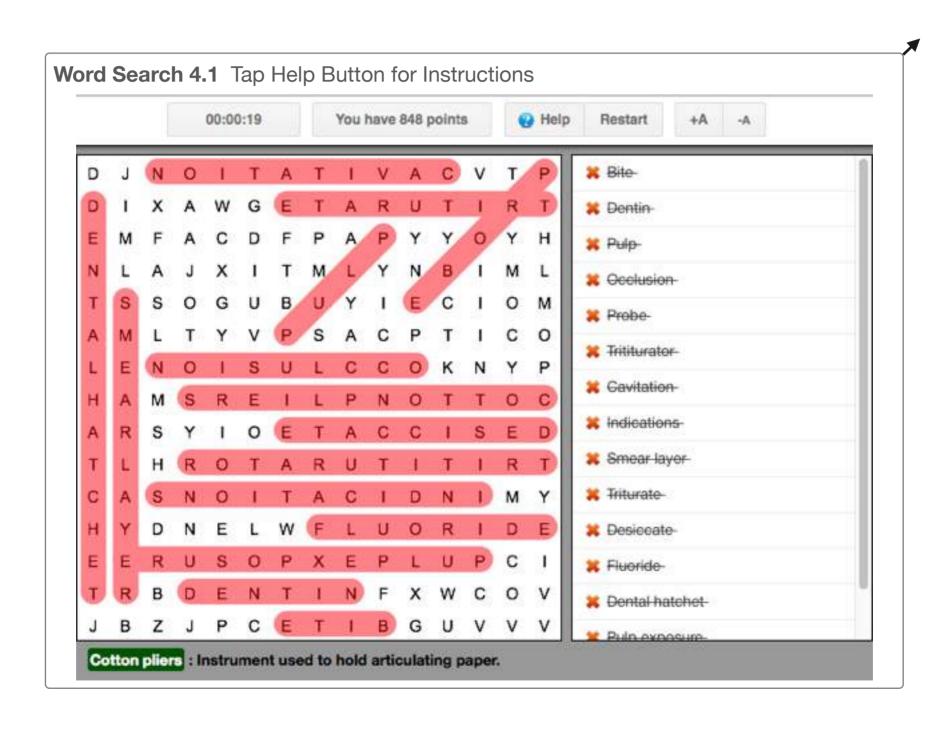


White spot lesion: an area of demineralized tooth structure that looks chalky or opaque.

Terms to Know



Notes



Learning Objectives:

Notes

- Define dental caries
- Explain the dental caries process
- Discuss the demineralization and remineralization process
- Describe factors that contribute to demineralization of tooth enamel
- Describe factors that contribute to remineralization of tooth enamel

Definition of Caries



Dental caries is the scientific term for tooth decay or cavities. It is caused by specific types of bacteria. They produce acid that destroys the tooth's enamel and the layer under it, the dentin.



Dental caries is the dynamic process of demineralization and remineralization that can lead to cavitation (breakdown) of tooth structure.



What happens during the caries process?

It is a complicated story.



Healthy permanent tooth



Healthy primary tooth



Caries permanent teeth

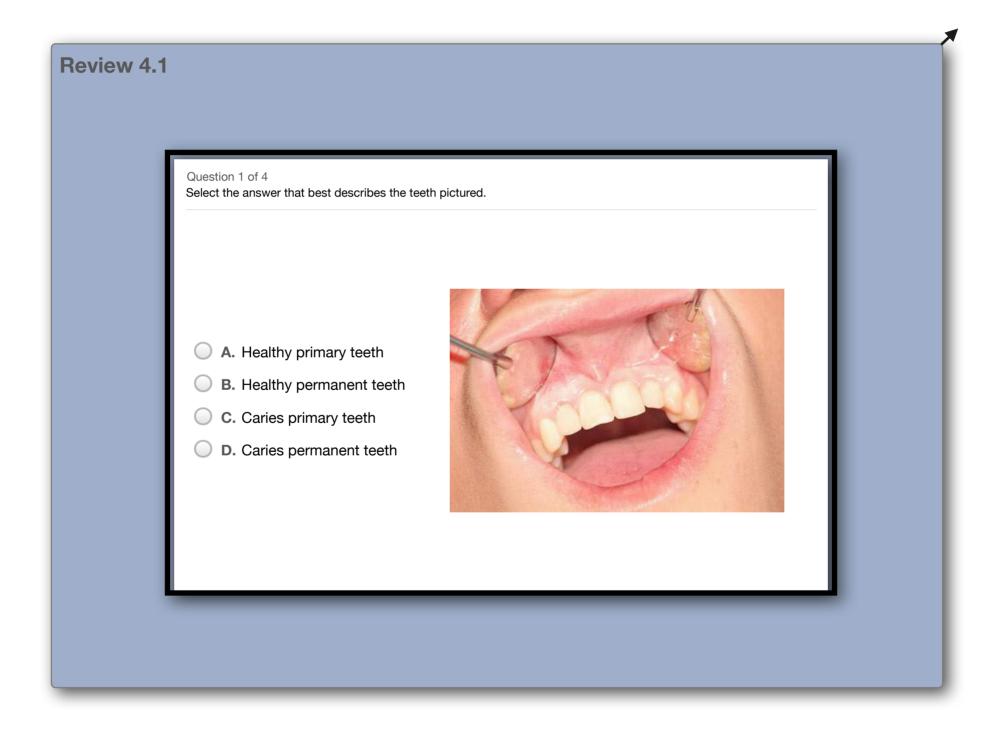


Caries primary teeth



Notes

Notes



Notes

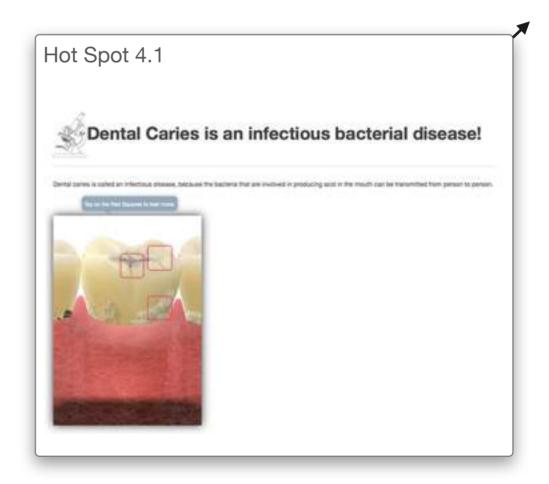
Dental Caries is an infectious disease.

While many different types of bacteria live in the mouth, Streptococcus mutans and lactobacillus are associated with dental caries.

These bacteria can be transmitted from person to person. Just like when strep throat is transmitted to another person.

For example, if a mom has Streptococcus mutans and lactobacillus in her mouth, and tastes or chews food before feeding it to her baby, she transmits the bacteria to her baby. If a dad has these bacteria in his mouth, and his child puts his fingers into his dad's mouth, and then into his own mouth, bacteria are transmitted. This can also happen when kids share food and beverages or even when teenagers kiss.





Bacteria

Streptococcus mutans and lactobacillus are bacteria that live and multiple very quickly in dental plaque. They rely on sugar to live. They love chips, crackers, hard candy, lollipops, sticky candy like gummy bears. They also love drinks like soda pop, Tang, and Kool-Aid as well as coffee or tea with sugar. The bacteria use sugary foods and beverages to reduce the pH in the mouth, and produce acids that break down the tooth enamel.

Notes



рН

Acid, Neutral, or Alkaline?

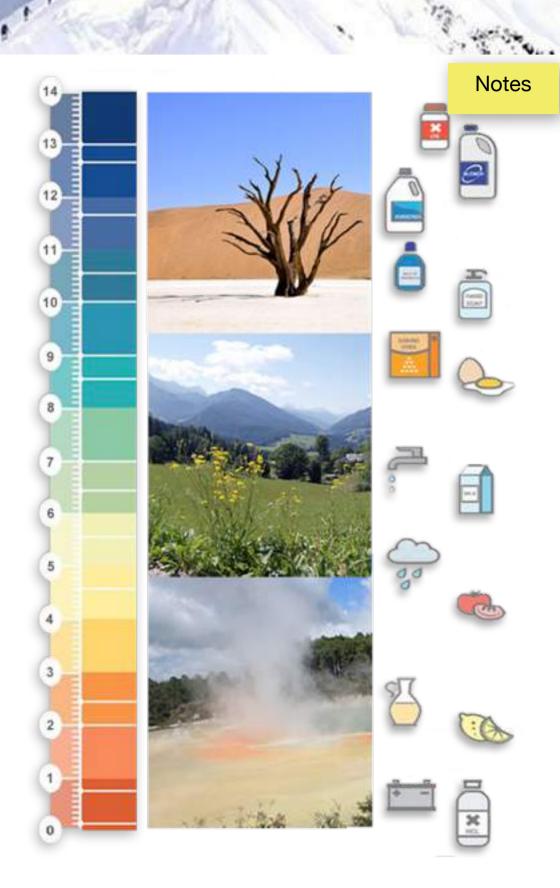
First some background information about pH. A pH scale measures whether a liquid is acidic or alkaline.

The measurements are from 0-14.

A pH below 7 is considered acidic, 7 is neutral, and above 7 is considered alkaline.

Saliva has a pH of 7 or more. The pH for the oral environment is usually between 6-7.

When the pH in the mouth dips below 5.5, acids can attack the teeth and enamel is at risk for demineralization.



Measuring the pH of your mouth

Notes

Eating food or drinking beverages change the pH in the mouth.



Place test strip in your mouth as directed.

PH after eating.



PH after brushing.



Compare resulting color with the guide on the package to determine pH of mouth.



If a tooth were made of bricks...

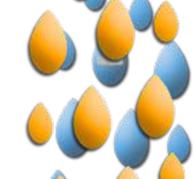
Imagine each brick is made out of calcium or phosphate. Acid lowers the pH, and removes bricks. Saliva can neutralize the acids and replace calcium and phosphate. If there is balance between the amount of bricks removed and replaced, a tooth is protected. If acid pulls out more bricks than saliva can replace, tooth structure is damaged.

Weak Acid





pH 5.5



Strong Acid

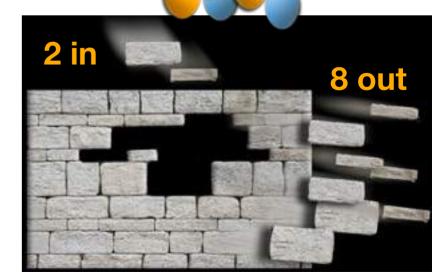
warning ACID



Notes

pH 7 to PH 5.6

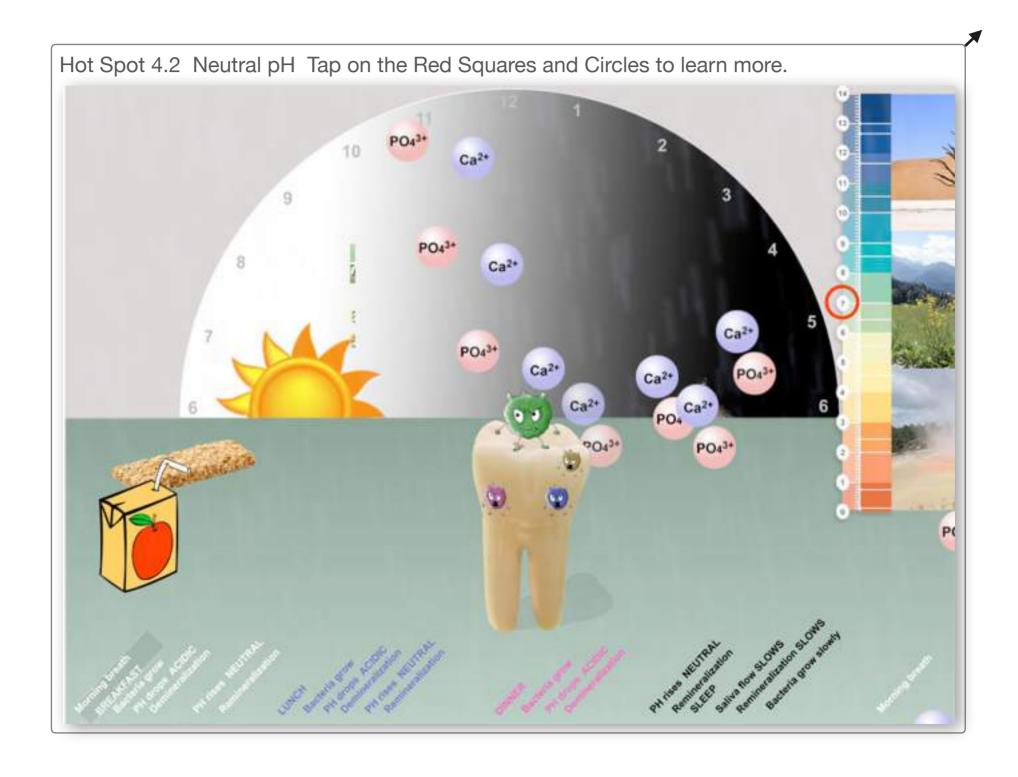






Saliva





Demineralization - White Spot Lesions

Notes

As the bacteria eat sugary foods and drinks, they produce acids that dissolve tooth structure. This is called demineralization because minerals like calcium and phosphate are removed from the tooth enamel. The earliest sign of demineralization is a white spot lesion. This is an area of chalky, opaque enamel.

Eating food or drinking beverages change the pH in the mouth. When the pH in the mouth dips below 5.5, acids can attack the teeth and enamel is at risk for demineralization.

The alkaline properties of saliva allow it to neutralize the acid and raise the pH. It takes about 20-40 minutes for saliva to buffer the acid. During this time teeth are at risk.

The following factors contribute to demineralization of tooth enamel:

- Higher levels of bacterial plaque results in more acid production.
- Frequent eating and drinking allows more demineralization time.
- The shape and placement of the teeth can make it difficult to remove plaque.
- · Poor oral hygiene increases plaque and sugar sticks longer to tooth surfaces.
- Decreased saliva increases the time enamel is exposed to acids.



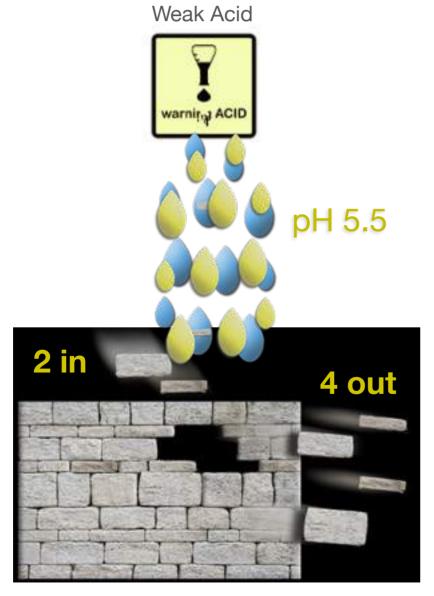


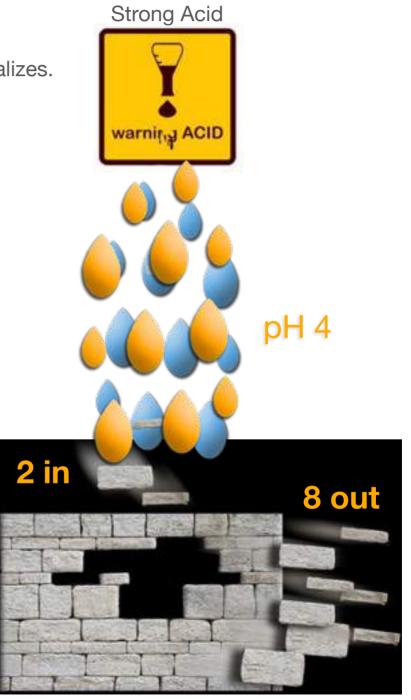
Notes

Acids demineralizes!

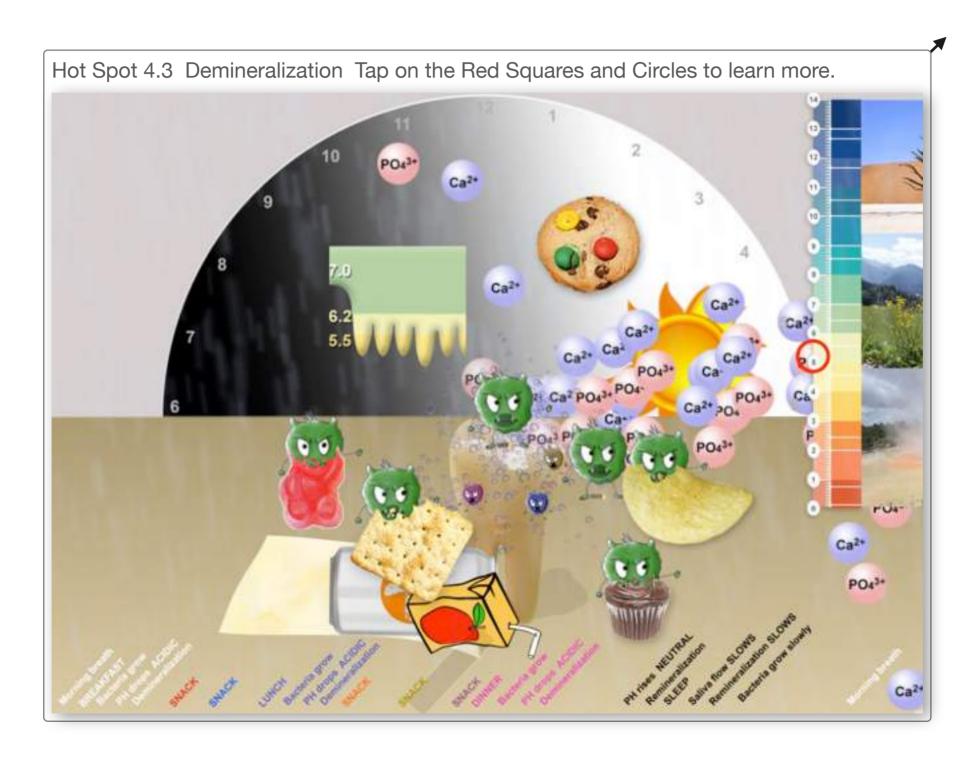
The **stronger** the acid the more it demineralizes.

The longer the acid stays on the tooth the more it demineralizes.





Notes



Cavitation

If a decalcified white spot areas become cavitated, tooth structure is lost, and a carious lesion is formed.

A dental professional must restore the tooth.







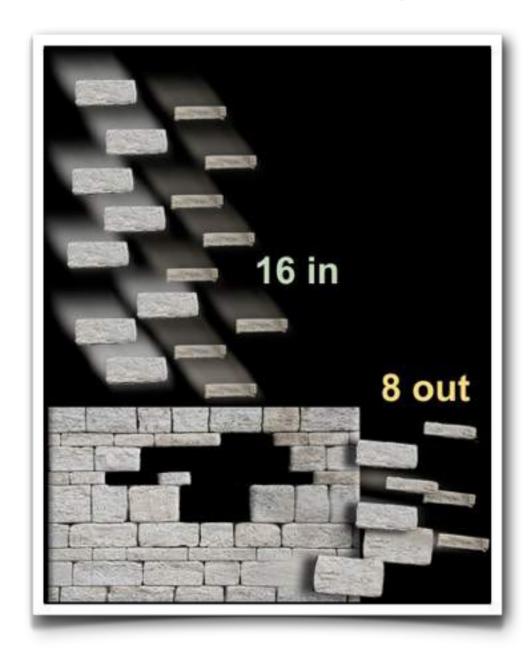
Hot Spot 4.4 Cavitation Tap on the Red Squares and Circles to learn more.

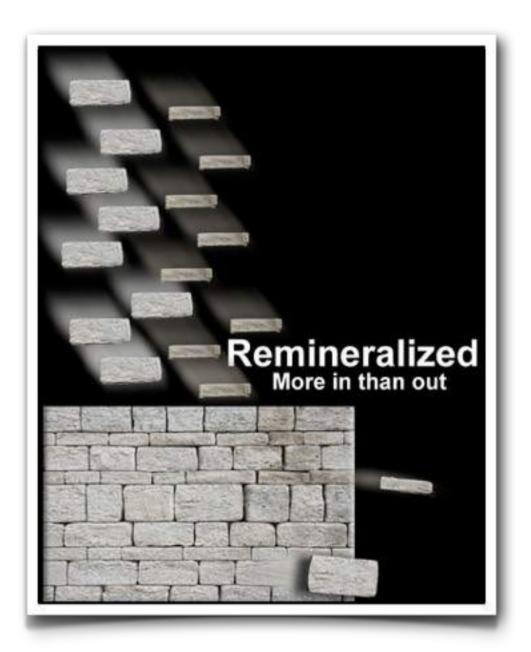
Notes

Remineralization - Repair

Saliva can neutralize the acids and add minerals like calcium and phosphate to tooth enamel.

This is called remineralization, and it can stop tooth destruction and reverse demineralization.





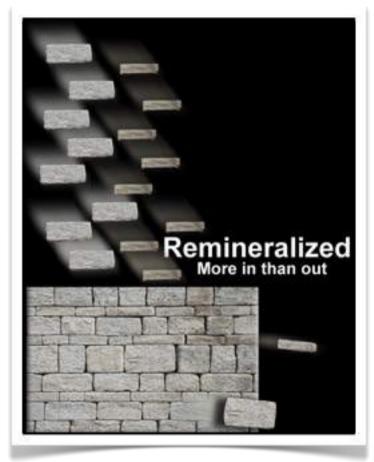
The following factors contribute to remineralization of tooth enamel:

- Fluoride (toothpaste, mouthrinse, varnish, gel, foam).
- Reducing the intake of sugar foods and drinks.
- · Limiting snacking.
- · Good oral hygiene to remove bacterial plaque.











Notes

Just to Summarize...

As the bacteria eat sugary foods and drinks, they produce acids that dissolve tooth structure.

This is called demineralization because minerals like calcium and phosphate are removed from the tooth enamel.

The earliest sign of demineralization is a white spot lesion. This is an area of chalky, opaque enamel.

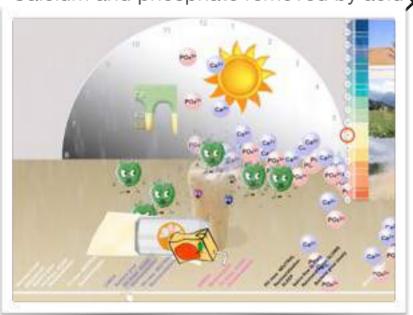
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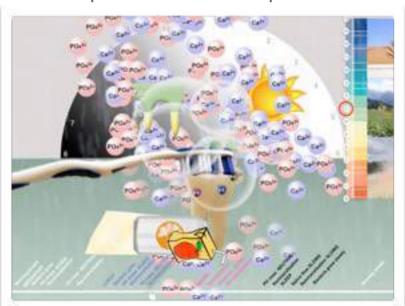
The following factors contribute to remineralization of tooth enamel:

- Fluoride (toothpaste, mouthrinse, varnish, gel, foam).
- Reducing the intake of sugar foods and drinks
- Limiting snacking
- · Good oral hygiene to remove bacterial plaque

Calcium and phosphate removed by acid

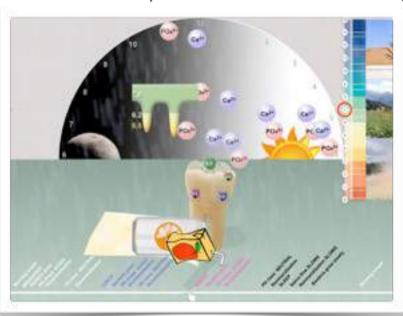


Toothpaste and saliva replace them



White Spot remineralized

Notes

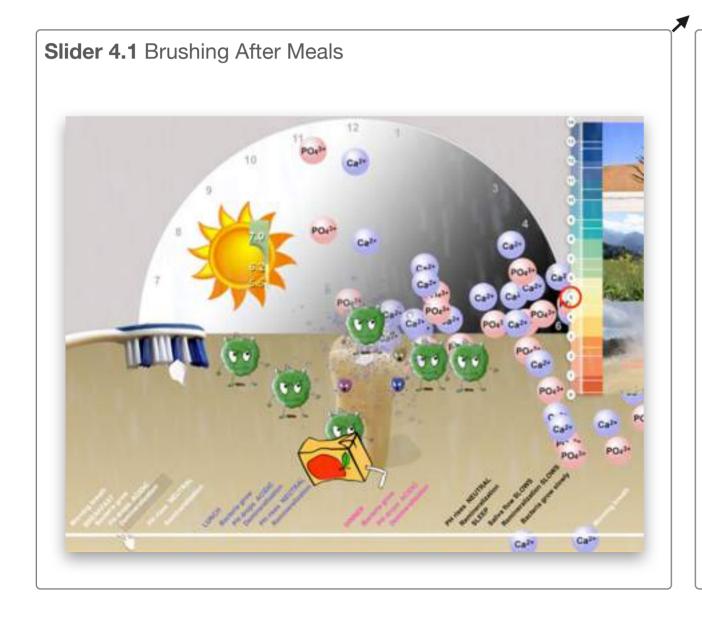


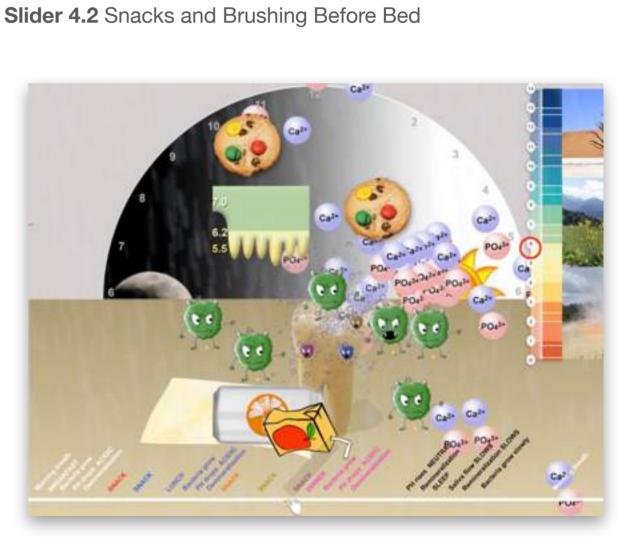
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Notes

A day in the life...

Open the Interactive Slider Widgets and Slide you finger to the right to learn what happens to a tooth during a day.





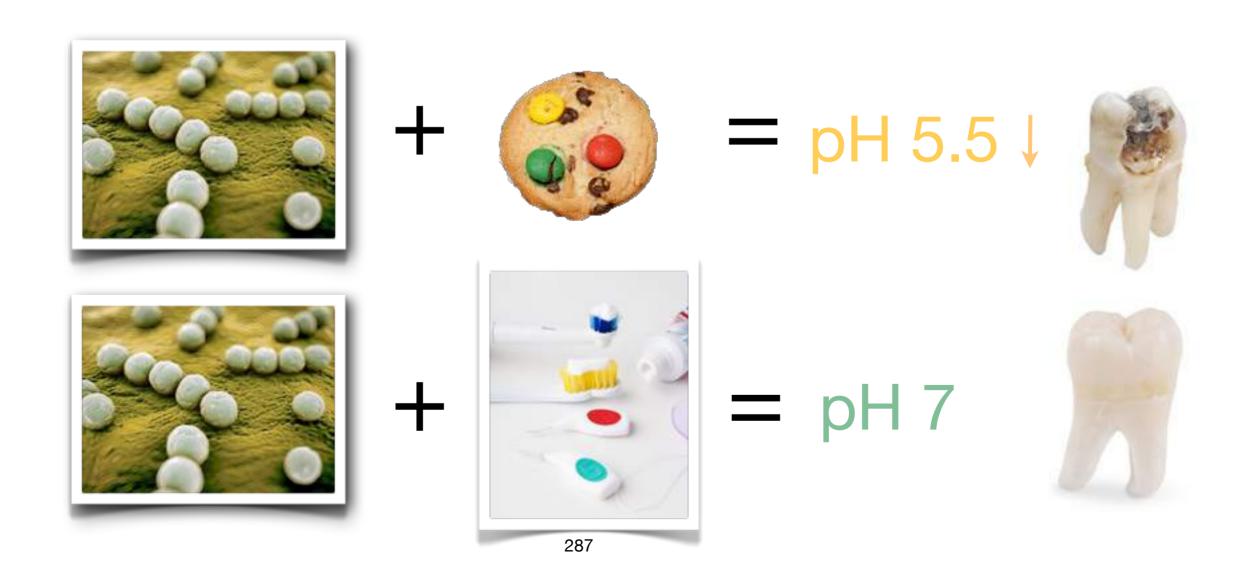
Notes

Remember...

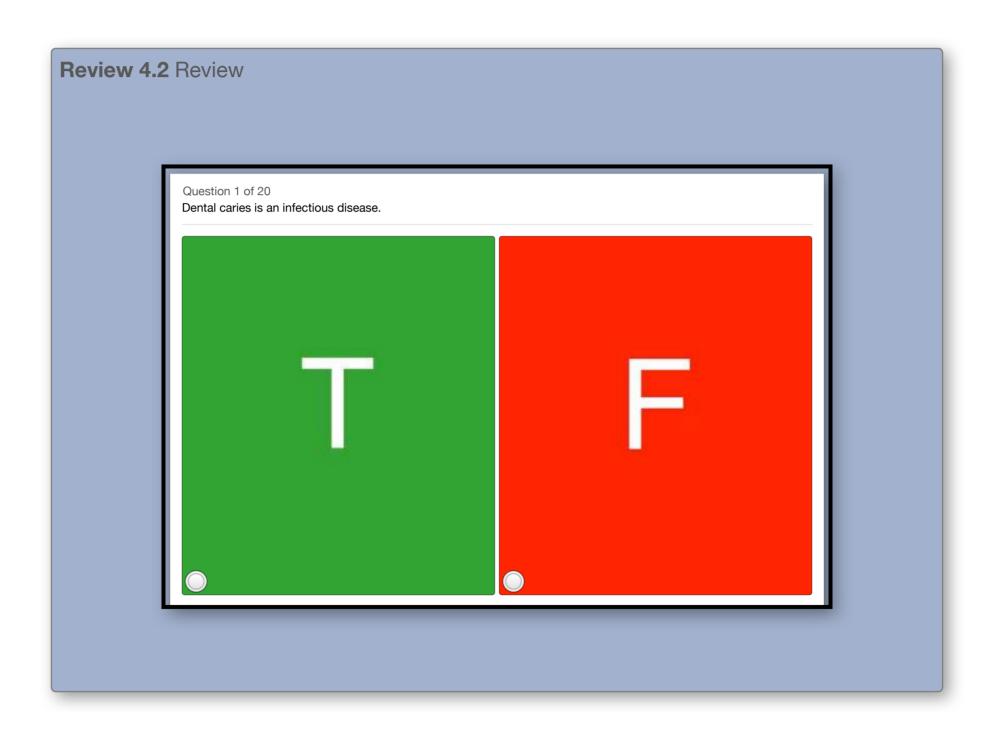
The caries process is when bacteria in dental plaque eat sugary foods and drinks to produce acid that demineralizes enamel.

A dynamic and continual battle between demineralization and remineralization takes place throughout the day.

Dental caries result when there is no longer a balance between demineralization and remineralization.



Notes



Notes

Caries Risk Assessment

Learning Objectives

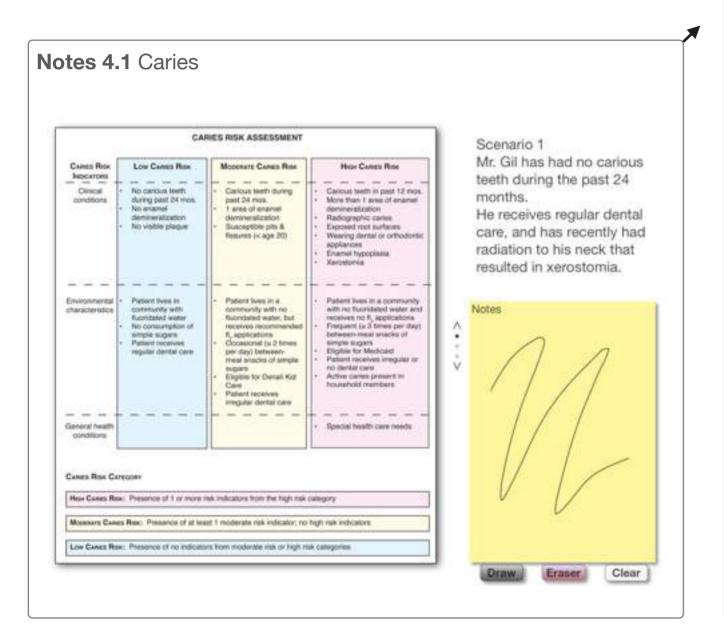
- Apply caries risk assessment form to determine a caries risk category for a patient
- Describe caries treatment flow for patients who are in the low, moderate or high risk categories
- Identify recommended recall intervals for different caries risk categories



Caries Risk Assessment and Caries Prevention Services

Notes

- 1. Read the scenario.
- 2. Determine the Caries Risk.
- 3. Decide which Caries Prevention Services are recommended.



Review 4.3 Mr. Gil has had no carious teeth during the past 24 months. He receives regular dental care, and has recently had radiation to his neck that resulted in xerostomia.

Question 1 of 3
What is the caries risk category?

A. Low Risk

B. Moderate Risk

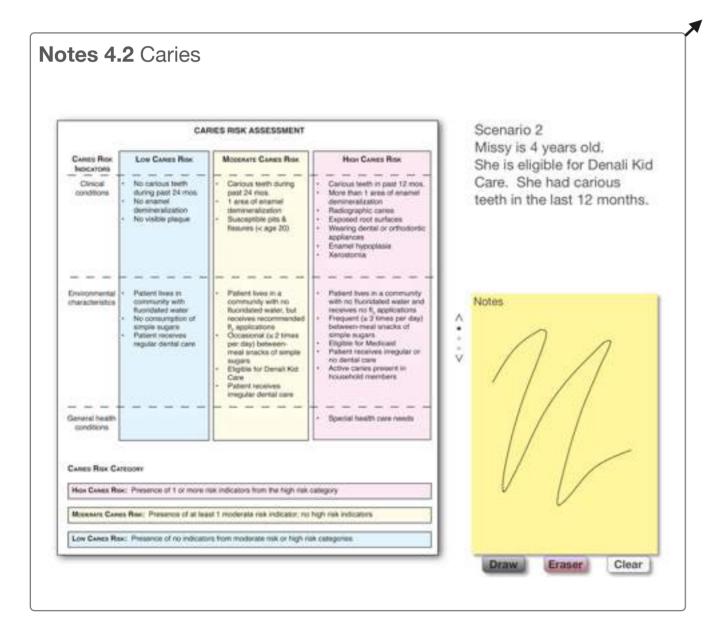
C. High Risk

Check Answer

Caries Risk Assessment and Caries Prevention Services

Votes

- 1. Read the scenario.
- 2. Determine the Caries Risk.
- 3. Decide which Caries Prevention Services are recommended.



Denali Kid Care. She had carious teeth in the last 12 months. Question 1 of 3 What is the caries risk category? A. Low Risk **B.** Moderate Risk C. High Risk **Check Answer**

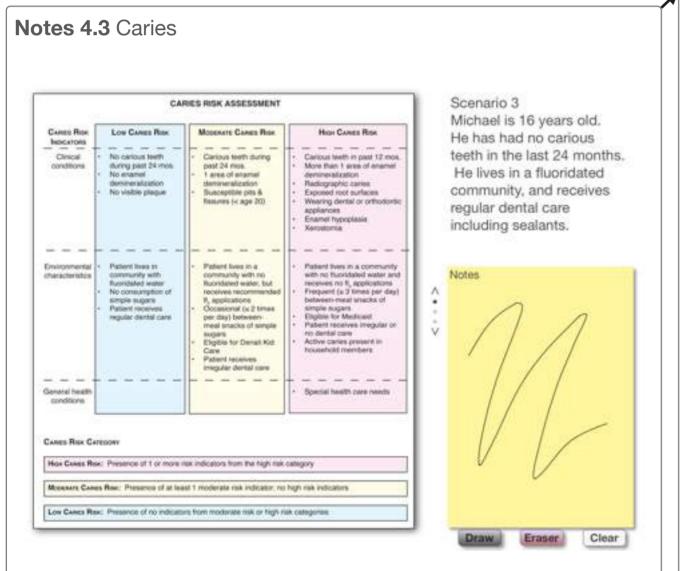
Missy is 4 years old. She is eligible for

Review 4.4

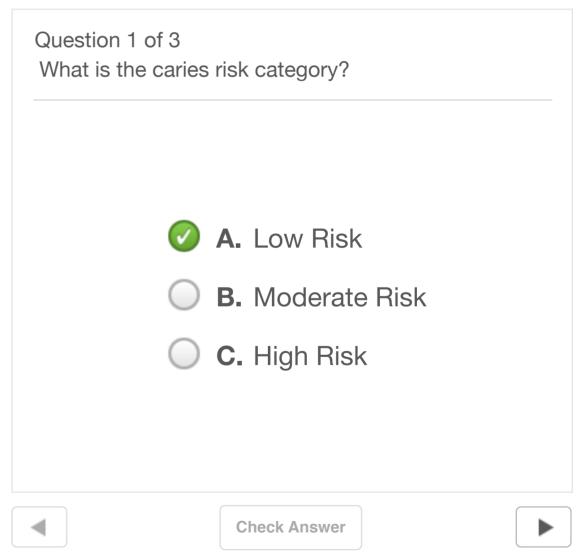
Caries Risk Assessment and Caries Prevention Services

Notes

- 1. Read the scenario.
- 2. Determine the Caries Risk.
- 3. Decide which Caries Prevention Services are recommended.



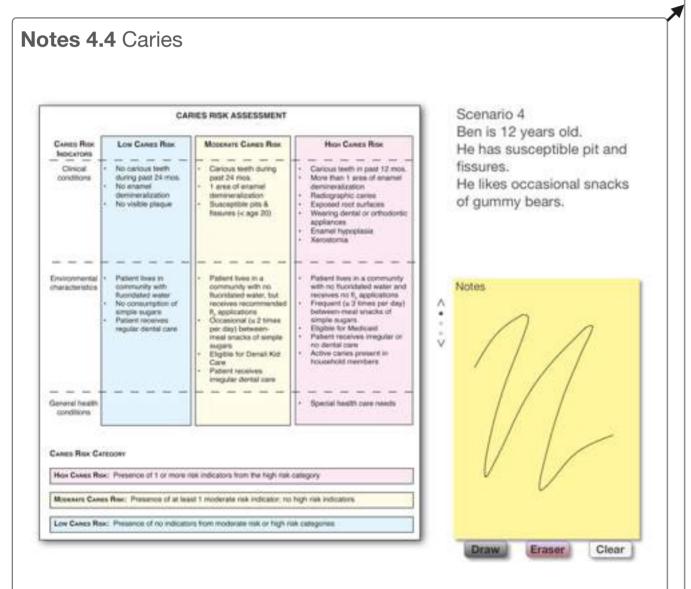
Review 4.5 Michael is 16 years old. He has had no carious teeth in the last 24 months. He lives in a fluoridated community, and receives regular dental care including sealants.



Caries Risk Assessment and Caries Prevention Services

Notes

- 1. Read the scenario.
- 2. Determine the Caries Risk.
- 3. Decide which Caries Prevention Services are recommended.



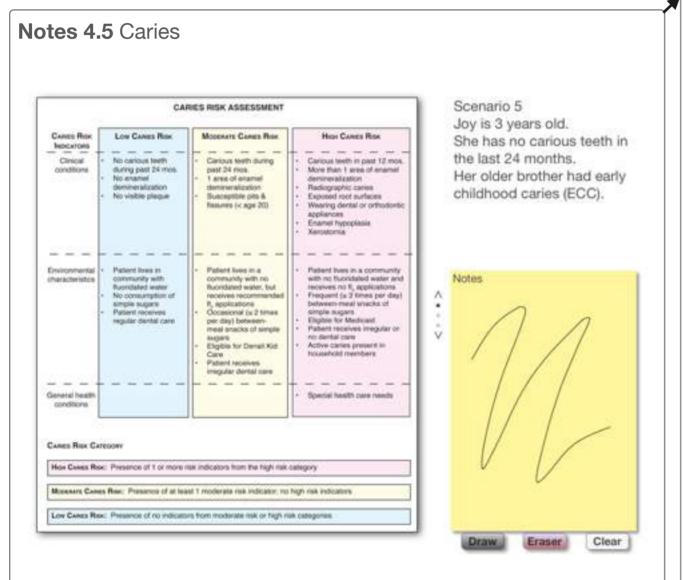
and fissures. He likes occasional snacks of gummy bears. Question 1 of 3 What is the caries risk category? A. Low Risk **B.** Moderate Risk C. High Risk **Check Answer**

Review 4.6 Ben is 12 years old. He has susceptible pit

Caries Risk Assessment and Caries Prevention Services

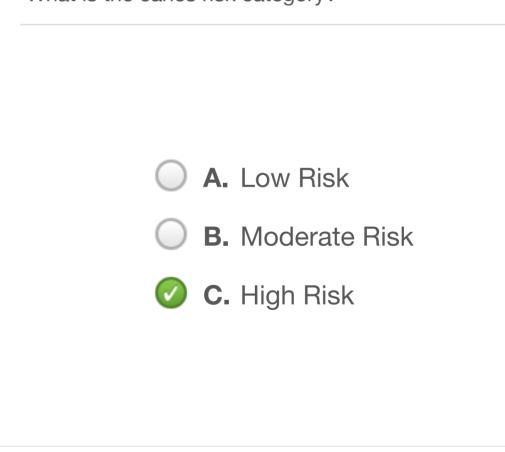
Notes

- 1. Read the scenario.
- 2. Determine the Caries Risk.
- 3. Decide which Caries Prevention Services are recommended.



Review 4.7 Joy is 3 years old. She has no carious teeth in the last 24 months. Her older brother had early childhood caries (ECC).

Question 1 of 3
What is the caries risk category?



Check Answer



Dental Charting

Notes

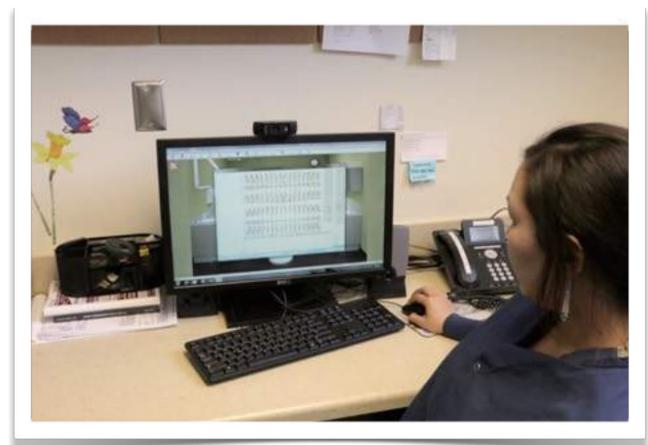
Dental charting is a graphic method of organizing information about a patient's mouth. Conditions that may be documented in a dental chart include existing restorations, caries, missing teeth, abnormalities (rotations, erosion or abrasion), and the presence of prosthetics (partials, dentures, bridges, space maintainers).

Dental charting is usually done during a first visit and at recall visits. It can be done on a paper form or in a computer program. The dental chart shows every tooth whether the patient has a deciduous, permanent or mixed dentition.

Dental charts use the "Universal Numbering System" which is the official system adopted by the American Dental Association (ADA). Because upper and lower teeth have the same names, using a number system for permanent teeth and a letter

system for primary teeth saves time and confusion.

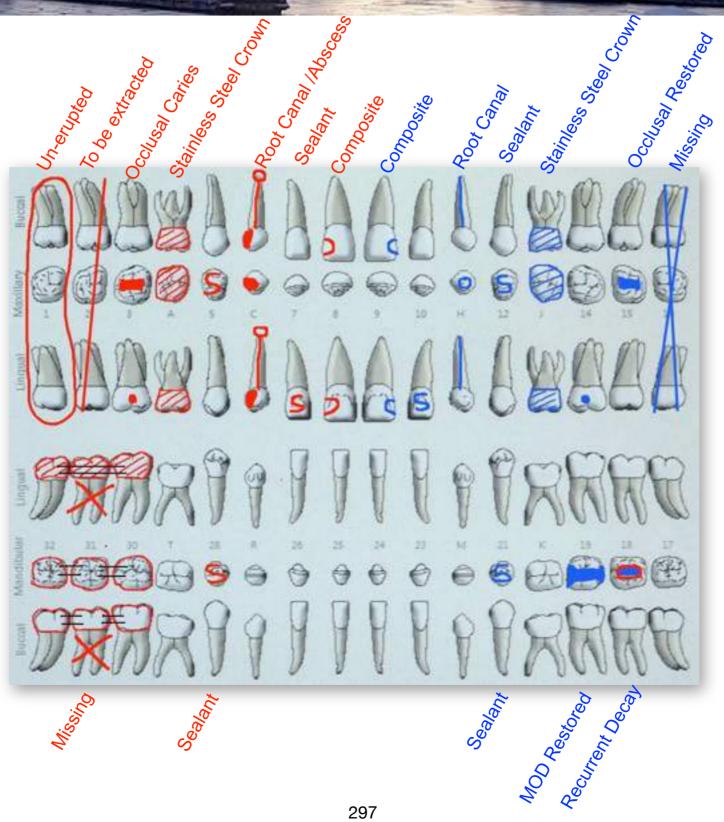




Dental Charting Key Example

Notes

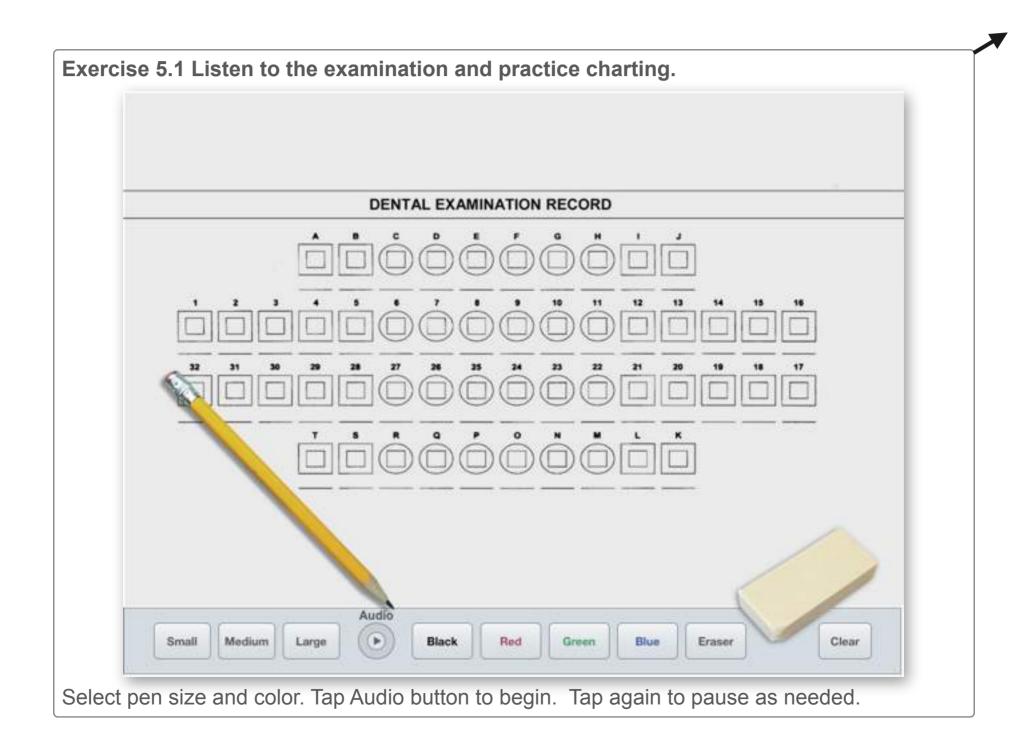
RED Needed



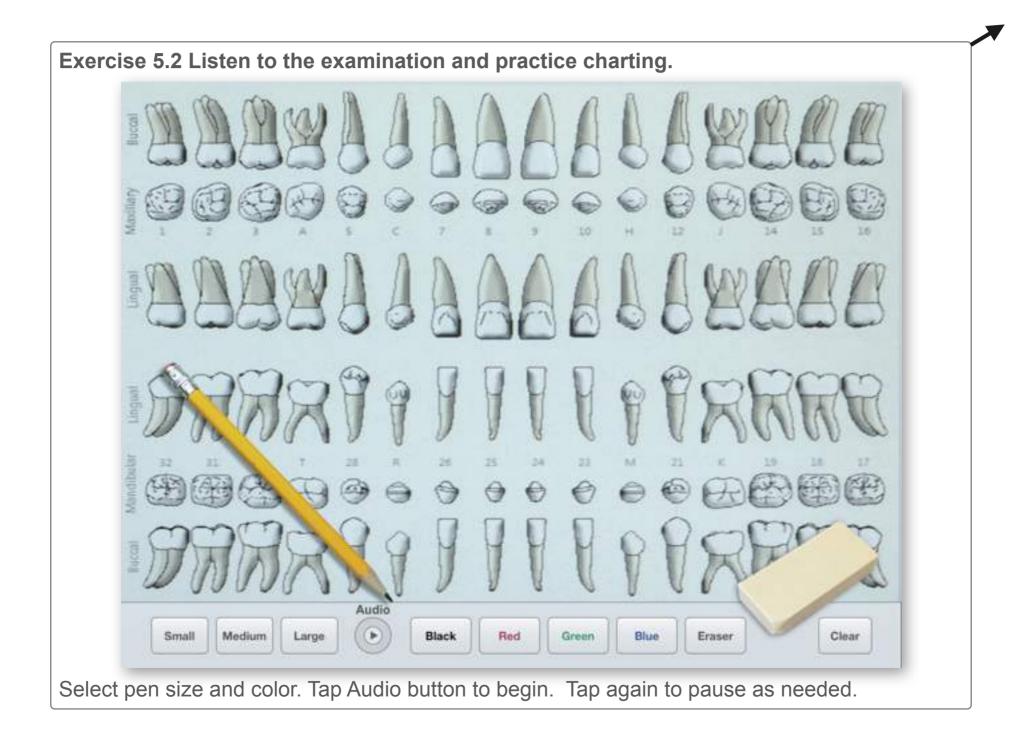
BLUE Completed

Dental Charting

Notes



Dental Charting



Resources

Notes

- http://www.healthline.com/health/dental-and-periodontal-charting#Expectations5
- http://www.colgate.com/en/us/oc/oral-health/life-stages/childrens-oral-care/article/sw-281474979351323



Patient Record Documentation

Terms to Know

Notes

Adverse reaction:

Unwanted, unexpected or dangerous effect.



CDT code:

Combination of letter and numbers to describe specific dental procedures. Updated annually by

the American Dental Association (ADA).



Chronological:

Arranged in the order of time.



Confidential:

Intended to be kept secret.



Confidentiality:

A set of rules or a promise that limits access or places restrictions on certain types of

information.



Forensic:

Scientific tests or techniques used in connection with the detection of crime.



HIPAA:

Health Insurance Portability and Accountability Act.



Litigation:

An action brought in court to enforce a particular right. The act or process of bringing a lawsuit.

Patient Record Documentation

Notes



Need to know: Only individuals who are providing treatment to a patient have access to his/her dental

records. Discussion of patient's care is limited to only those providers who are providing dental

treatment.



NV: An abbreviation for next visit.



PARQ: An abbreviation for the informed consent process. The dentist discussed with the patient: the

Procedure, Alternative treatment, Risks, and answered Questions.



Progress notes: Permanent record of the patient's dental treatment.



Protected health information (PHI): Any information about health status, provision of health care, or payment for health care that can be linked to a specific individual.



Release of Information (ROI): Permission to allow information to be shared from the patient record to/from other agencies or given to the patient or the patient's representative.

Patient Record Documentation

Notes



RMH: An abbreviation for reviewed medical history



Sequential: A series of steps in a logical order



SOAPE: An acronym for subjective findings, objective findings, assessment, plan, and education that

serves as a method to document patient visits in a patient record.

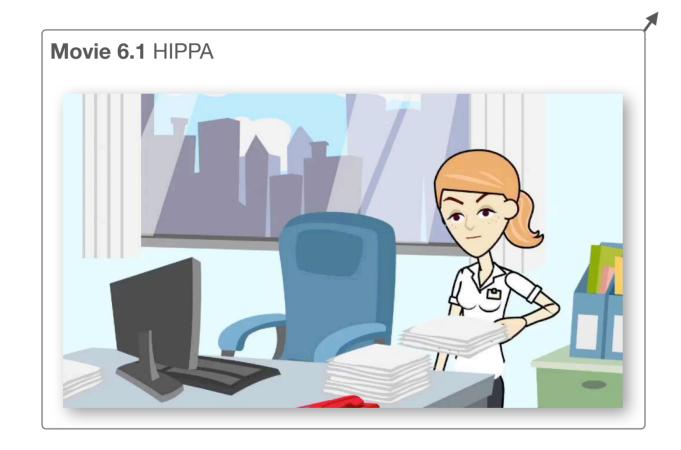


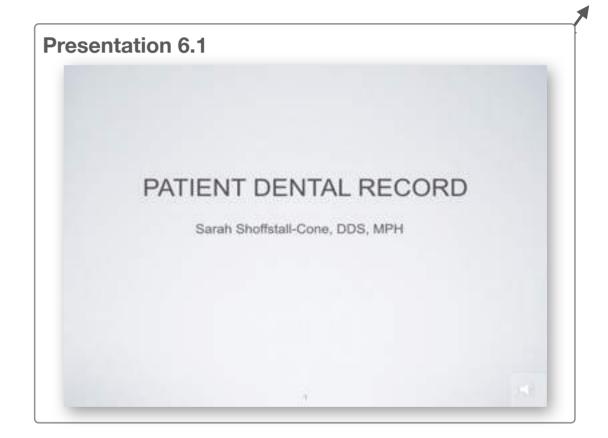
Tampering: Altering or falsifying entries in a patient's record.

Note Pad

Patient Record Documentation

Notes







A variety of dental instruments, supplies, and equipment are used in dental treatment. It is helpful to know the correct names of items, and to prepare set ups for various dental procedures.

Learning Objectives:

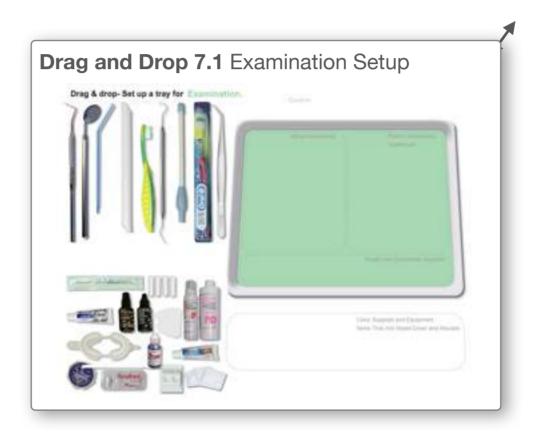
• Identify instruments, supplies, and equipment used for oral exam, OHI, gel/foam and varnish fluoride, sealants, prophylaxis, sulcular irrigation, and ART (with and without electricity)

• Prepare set up for oral exam, OHI, gel/foam and varnish fluoride, sealants, prophylaxis, sulcular irrigation, and ART (with and without electricity)



Set up

Notes



Set up



Set up



Set up



Set up



Set up



Set up

Notes



Set up



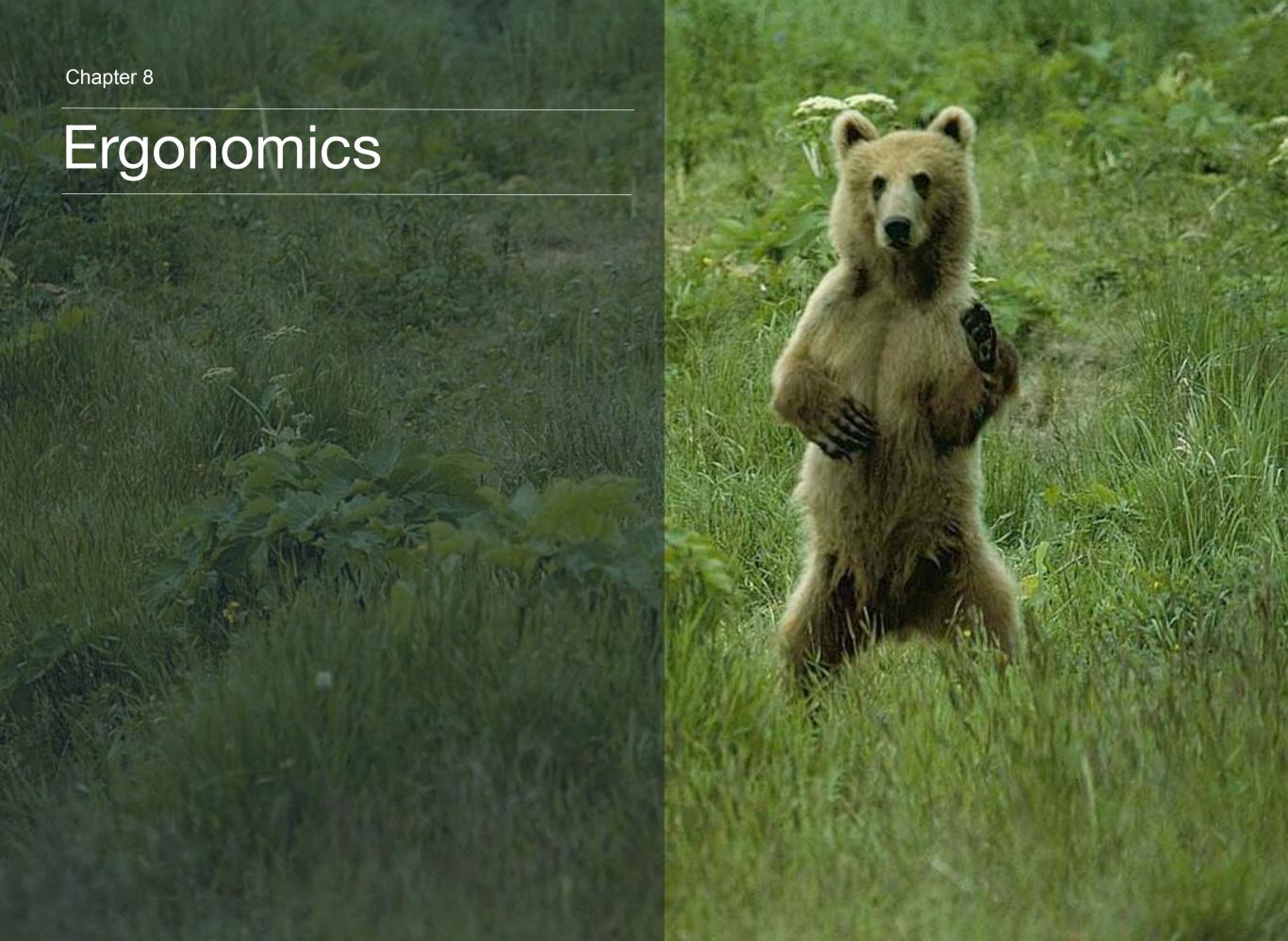


Set up



Set up





Notes

Ergonomics deals with adapting the work environment to the human body.

The goal of ergonomics is to help people stay healthy while performing their work more effectively









LEARNING OBJECTIVES

Notes

- Describe the principles of positioning.
- Define ergonomics and list ergonomic risk factors that may lead to musculoskeletal disorders (MSD).
- Demonstrate sitting in a neural seated position.
- Demonstrate placing the patient in supine and semi-supine positions.
- Adjust the overhead light for maxillary and mandibular arches.
- Demonstrate using the dental mirror for indirect vision, retraction, illumination, and transillumination.
- Select the correct operator position and patient's head position to access different treatment areas.



Notes

Musculoskeletal Disorders (MSD)

- A condition where parts of the muscles, tendons and nerves are injured over time.
- Occur when too much stress is exerted on a body part causing pain.
- Risk factors include:
- Stool not adjusted for the clinician.
 - Torso twisted.
 - One shoulder higher than the other.
 - Elbows held above the waist and away from the body.
 - Back of patient chair is not parallel to the floor for maxillary arch.

MSD and Ergonomics

- Dental healthcare professionals are at high risk of musculoskeletal disorders when repetitive motions are combined with forceful movements, awkward postures, and insufficient recovery time.
- The science of ergonomics involves the adjusting and the design of tools, equipment, tasks and environments for safe, comfortable and effective human use.

Neutral Position



- The ideal positioning of the body to prevent injuries.
- Is associated with decreased risk of MSD.
- Maintains the natural curves of the spine.

Neutral Seated Position

Notes

- Forearms parallel to the floor.
- Weight evenly balanced.
- Thighs parallel to the floor.
- Feet are flat on the floor and about shoulder's width apart.
- Maintain trunk position with an imaginary straight line can be drawn connecting from the ear, shoulder, and hips.



Neutral Neck Position

Notes

Goal:

Head tilt of 0-15 degrees.

• The line from eyes to the treatment area should be as near to vertical as possible.

Avoid:

- Head tipped too far forward.
- Head tilted to one side.



Notes

Neutral Back Position

Goal:

- Lean forward slightly from the waist or hips.
- Trunk flexion of 0-20 degrees

Avoid:

Overflexion of the spine (curved back)



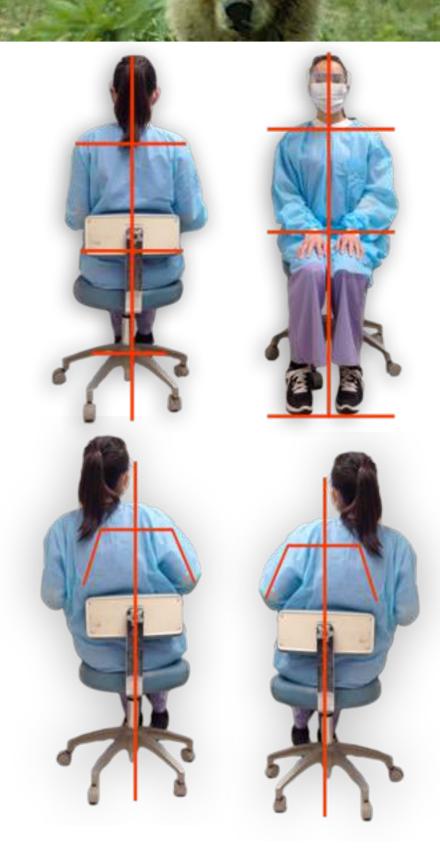
Neutral Torso Position

Goal:

Torso in line with long axis of the body.

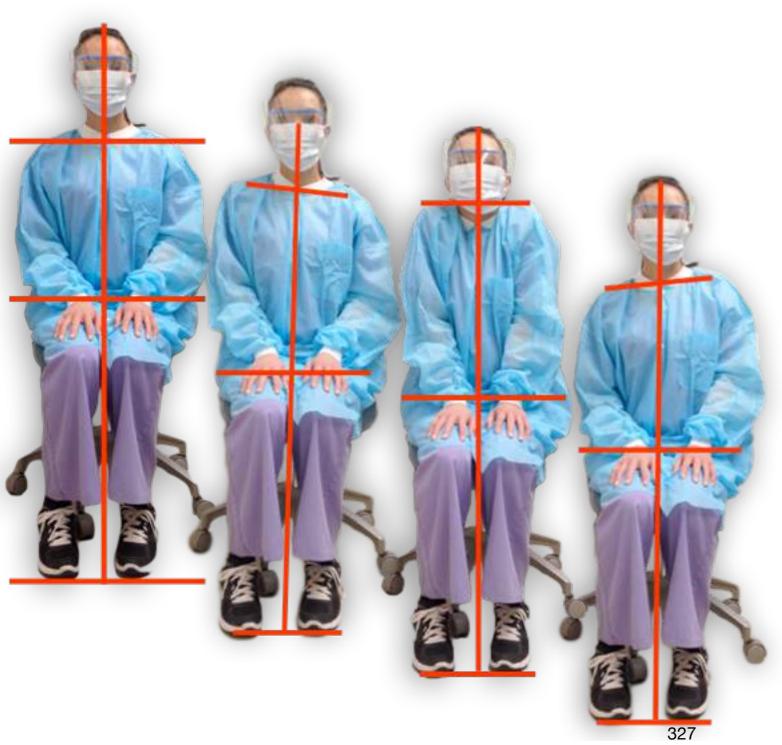
Avoid:

- Leaning to torso to one side.
- Twisting the torso.



Neutral Shoulder Position





Goal:

- Shoulders in horizontal line.
- Weight evenly balanced when seated.

Avoid:

- Shoulders lifted up toward ears.
- Shoulders hunched forward.
- Sitting with weight on one hip.

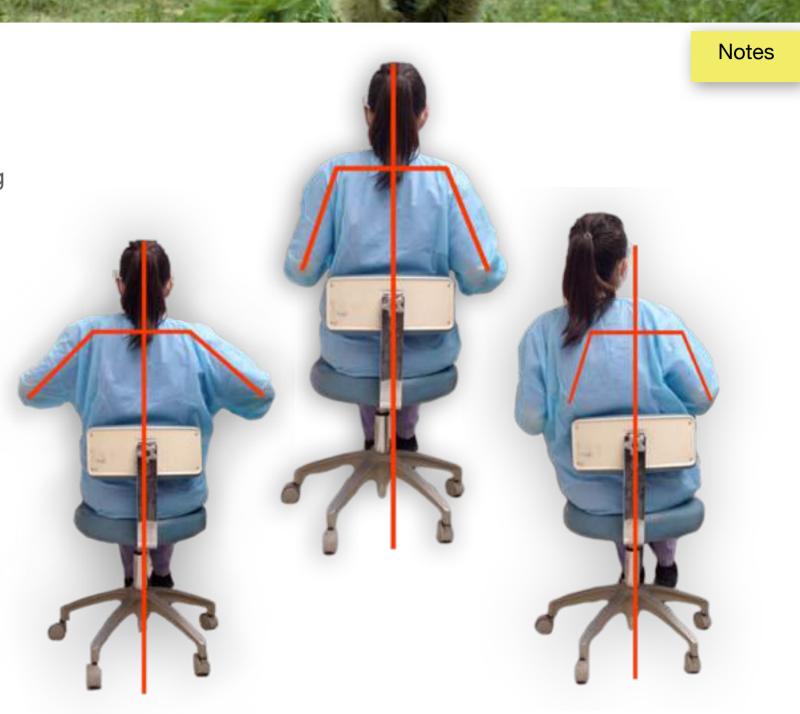
Neutral Upper Arm Position

Goal:

- Upper arms hang parallel to the long axis of torso.
- Elbows at waist level held slightly away from body.

Avoid:

 Greater than 20 degrees of elbow abduction away from the body.



Neutral Forearm Position

Notes

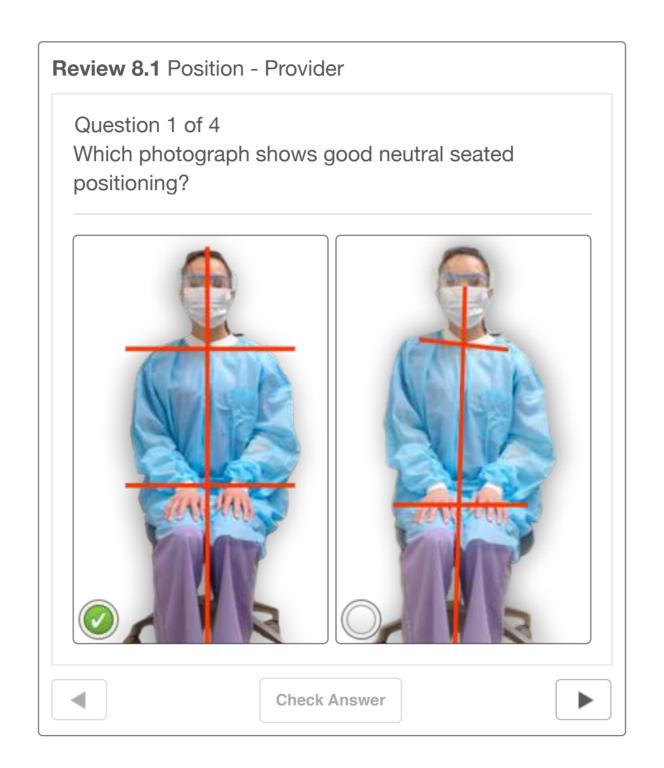
Goal:

- Forearms parallel to the floor
- Forearms raised or lowered by pivoting at the elbow joint

Avoid:

Angle between forearm and upper arm is less than 60 degrees.





Patient Position Notes

The patient is placed in a comfortable reclined position.



Patient Position

Maxillary Treatment Area

- Patient's feet even or slightly higher than the tip of nose.
- Chair back nearly parallel with the floor.
- Top of the patient's head is even with the upper edge of the headrest.
- Adjust headrest so patient is in a chin-up position.



Patient Position

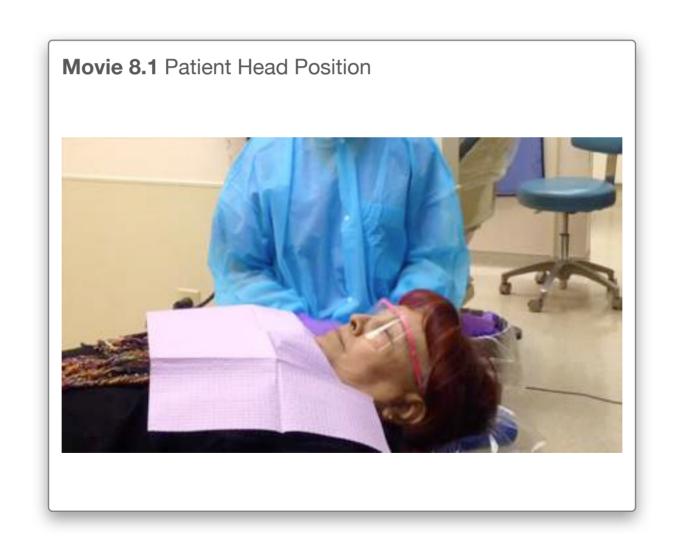
Mandibular Treatment Area

- Patient's feet even or slightly higher than the tip of nose.
- Chair back slightly raised above the parallel position.
- Top of the patient's head is even with the upper edge of the headrest.
- Adjust headrest so patient is in a chin-down position.



Patient Head Position

- The clinician must be able to see and access the teeth in the patient's mouth.
- Patients can be asked to adjust their head positions to provide the best view of the treatment area.



Notes

Dental Light

- Purpose: to illuminate the oral cavity during a procedure.
- It is important that the clinician not have to bend over or reach to access dental instruments or equipment.
- Position the light as far away from the patient's face as possible while still keeping it within easy reach.
- Mandibular arch: light is positioned directly over the patient's mouth.
- Maxillary arch: light is positioned from over the patient's mouth to the patient's neck.



Dental Mirror

- It is important that the clinician maintain neutral seated position while working on different tooth surfaces.
- A dental mirror helps the clinician to easily see all areas in the patient's mouth.

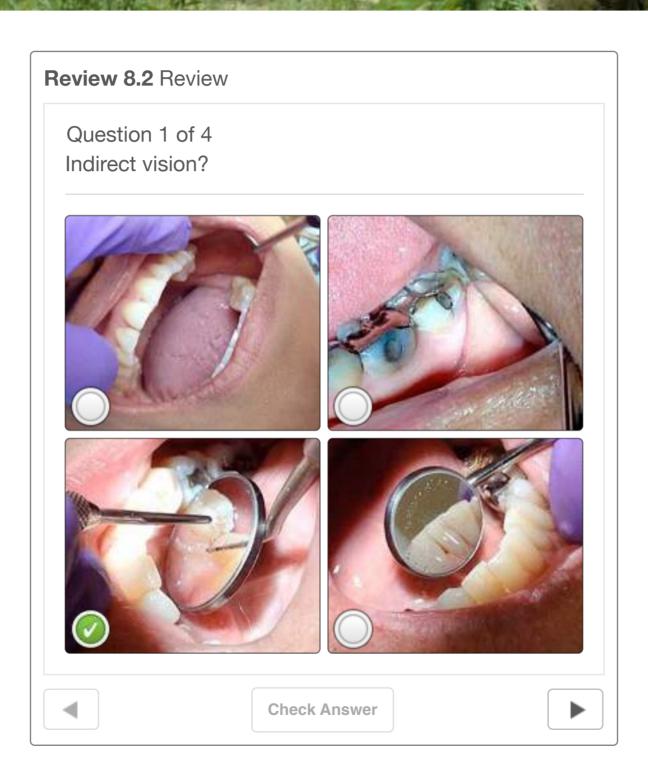






- Indirect Vision
 - Used to view tooth surfaces or areas of the mouth that cannot be seen by direct vision.
- Retraction
 - Used to hold the patient's cheek, lip or tongue for safety and visibility.
- Illumination
 - Used to reflect light onto a tooth surface or dark area of the mouth.
- Transillumination
 - Used to direct light through the anterior teeth. 336

Dental Mirror



Notes

Correct Clinical Positioning

Establishing Neutral Position in Relation to the Patient

- Sit alongside the patient with your arms against your sides and crossed at your waist. The patient's open mouth should be below the point of your elbow.
- With the patient in this position, you will be able to reach the mouth without placing stress on the muscles of your shoulders or arms.



Correct Clinical Positioning

- Maintains neutral body positioning of the back, arms, wrist, and hands.
- Provides optimal sight of treatment areas.



8 O'clock Position

Notes

- Torso Position: Sit facing the patient with your hip in line with the patient's upper arm.
- Leg Position: Your thighs should rest against the side of the patient chair.
- Arm Position: To reach the patient's mouth, hold your arms slightly away from your sides. Hold your lower right arm over the patient's chest. Note: Do not rest your arm on the patient's head or chest.
- Line of Vision: Straight ahead, into the patient's mouth.

Note: It is difficult to maintain neutral arm position when seated in the 8 o'clock position. For this reason, use of this position should be limited.

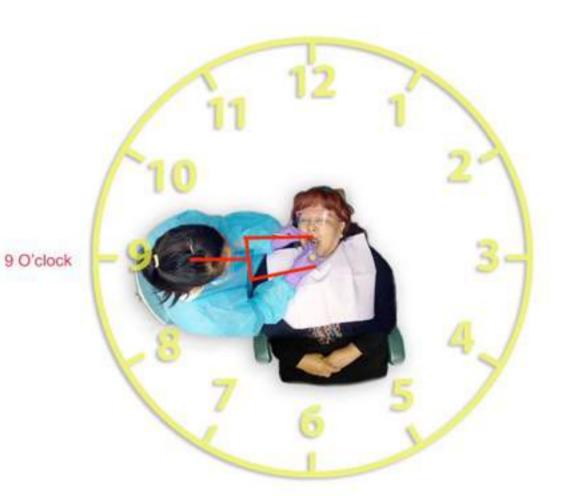


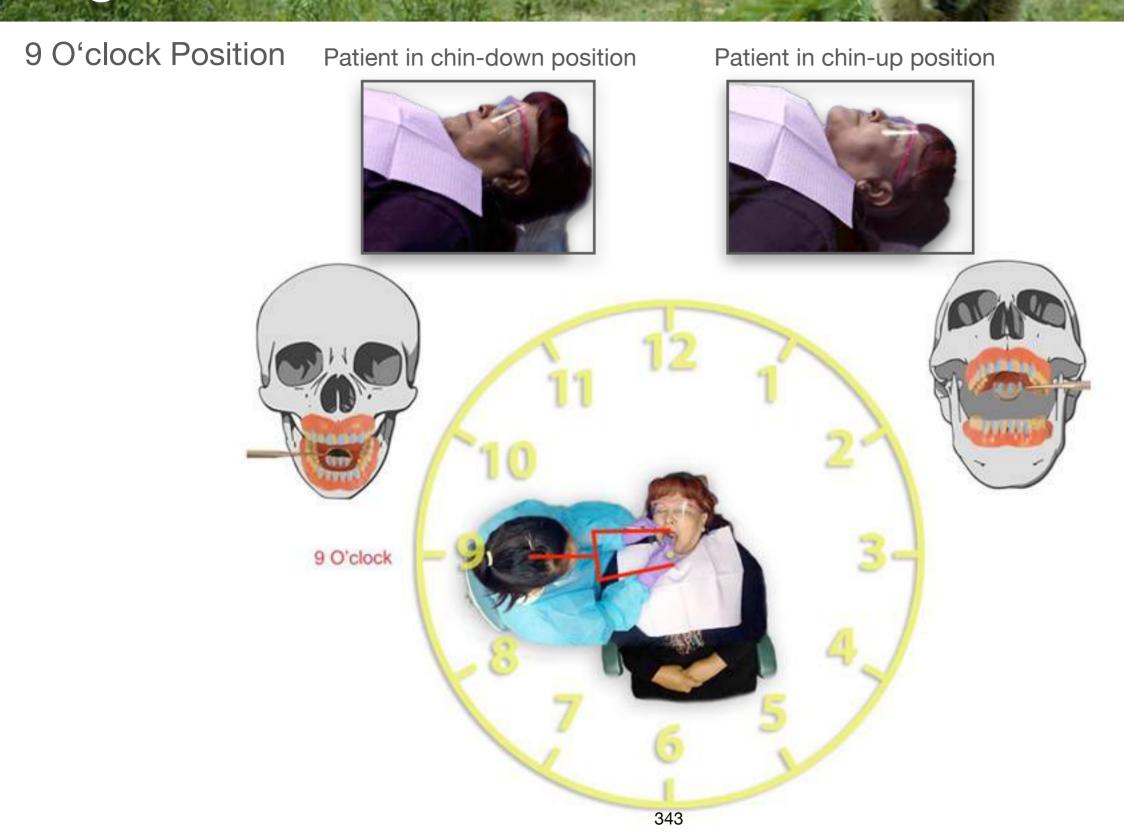
8 O'clock Position Patient in chin-down position Patient in chin-up position

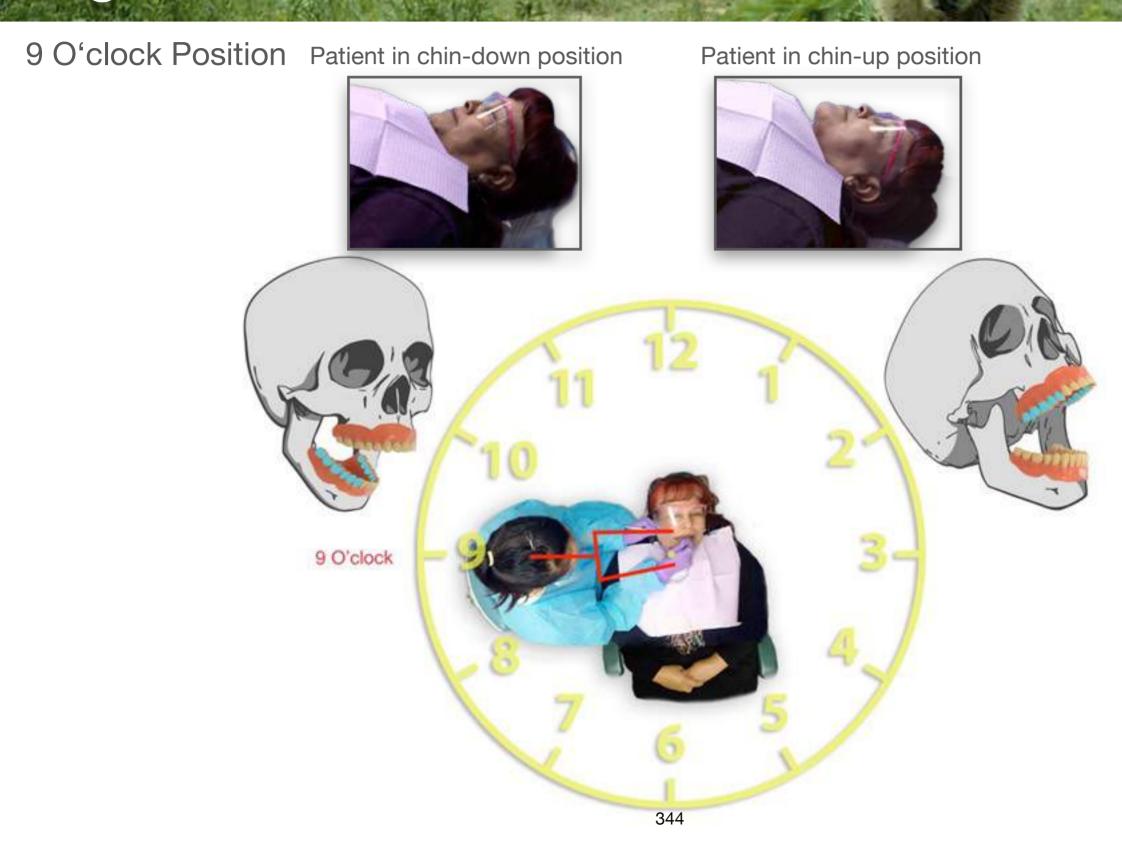
341

9 O'clock Position

- Torso Position: Sit facing the side of the patient's head. The midline of your torso is even with the patient's mouth.
- Leg Position: Your legs may be in either of two acceptable positions:
- Straddling the patient chair or
- Underneath the headrest of the patient chair.
 Neutral position is best achieved by straddling the chair; however, you should use the alternative position if you find straddling uncomfortable.
- Arm Position: To reach the patient's mouth, hold the lower half of your right arm in approximate alignment with the patient's shoulder. Hold your left hand and wrist over the region of the patient's right eye.
- Line of Vision: Straight down into the patient's mouth.



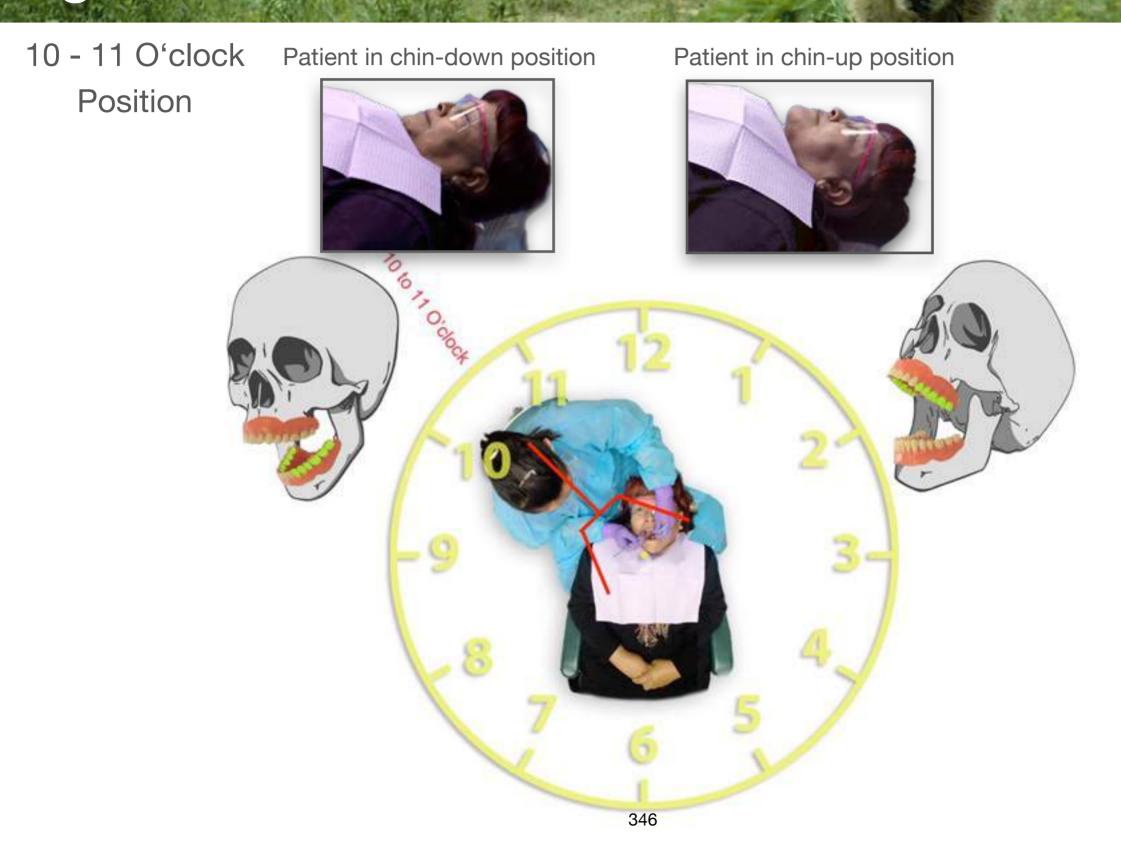




10 -11 O'clock

- Torso Position: Sit at the top right corner of the headrest; the midline of your torso is even with the temple region of the patient's head.
- Leg Position: Your legs should straddle the corner of the headrest.
- Arm Position: To reach the patient's mouth, hold your right hand directly across the corner of the patient's mouth. Hold your left hand and wrist above the patient's nose and forehead.
- Line of Vision: Straight down into the mouth.





10 -1 O'clock

- Torso Position: Sit behind the patient's head; you may sit anywhere from the right corner of the headrest to directly behind the headrest.
- Leg Position: Your legs should straddle the headrest.
- Arm Position: To reach the patient's mouth, hold your wrists and hands above the region of the patient's ears and cheeks.
- Line of Vision: Straight down into the patient's mouth.

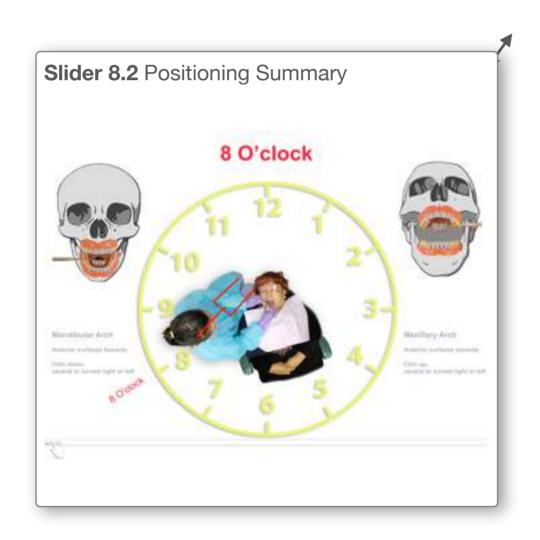


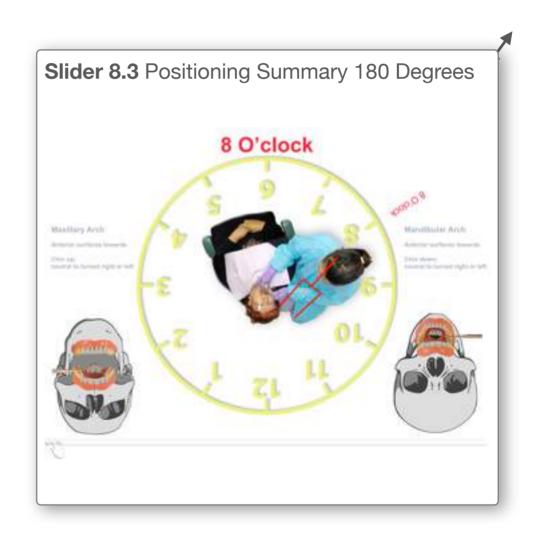
11 - 1 O'clock Patient in chin-down position Patient in chin-up position Position 12 O'clock 348

Notes

Ergonomics

Traditional Clock Positions - Positioning Summary





Notes

Summary

The neutral seated position is ideal to prevent MSD:

- Forearms parallel to the floor.
- Weight evenly balanced.
- Thighs parallel to the floor.
- Feet are flat on the floor and about shoulder's width apart.
- Maintain trunk position with an imaginary straight line can be drawn connecting from the ear, shoulder, and hips.

Don't forget to ask a patient to move their head to maintain a neutral seated position and improve access to different areas of the mouth.

- Chin-down for mandibular arch.
- Chin-up for maxillary arch.
- Head toward the clinician to access the left side of the patient's mouth.
- Head away from the clinician to access the right side of the patient's mouth.

Notes

Summary

- Position the dental light to improve visibility when working in the patient's mouth.
- Use the dental mirror to keep neutral seated position. The mirror is helpful for:
- Indirect vision to see lingual surfaces.
- Retraction of cheek to protect soft tissue and to better access buccal surfaces of posterior teeth.
- Illuminate lingual surfaces.
- Transilluminate anterior teeth.

Notes

References

Fundamentals of Periodontal Instrumentation and Advanced Root Instrumentation, Seventh Edition,
 Jill S. Nield-Gehrig, Lippincott Williams & Wilkins, 2013

Grasp and Fulcrum

Notes

Terms to Know



Extraoral:

outside of the mouth.



Finger rest:

a point of rest that provides support and allows the hand to pivot; also called a fulcrum.



Fulcrum:

a point of rest that provides support and allows the hand to pivot; also called a finger rest.



Grasp:

the correct way to hold a dental instrument.



Intraoral

inside the mouth.



Stability:

ability to keep a dental instrument steady and secure.



Tactile sensitivity:

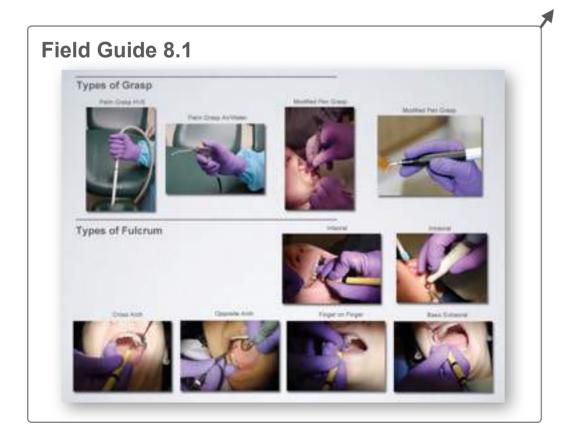
ability to "feel" tooth smoothness and/ or roughness.

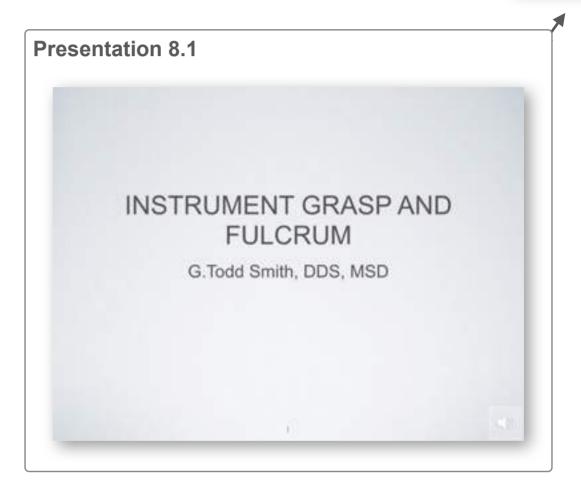
Note Pad

Ergonomics

Purposes of fulcrum

- A fulcrum is a point of rest that provides support and allows the hand to pivot.
- Provides stability for instrumentation.
- Prevents injury to patient and operator.
- Controls the length of the stroke limits the instrumentation to where it is needed.
- The patient will feel confident in the clinician's ability when a fulcrum is used to make the instrument more stable.



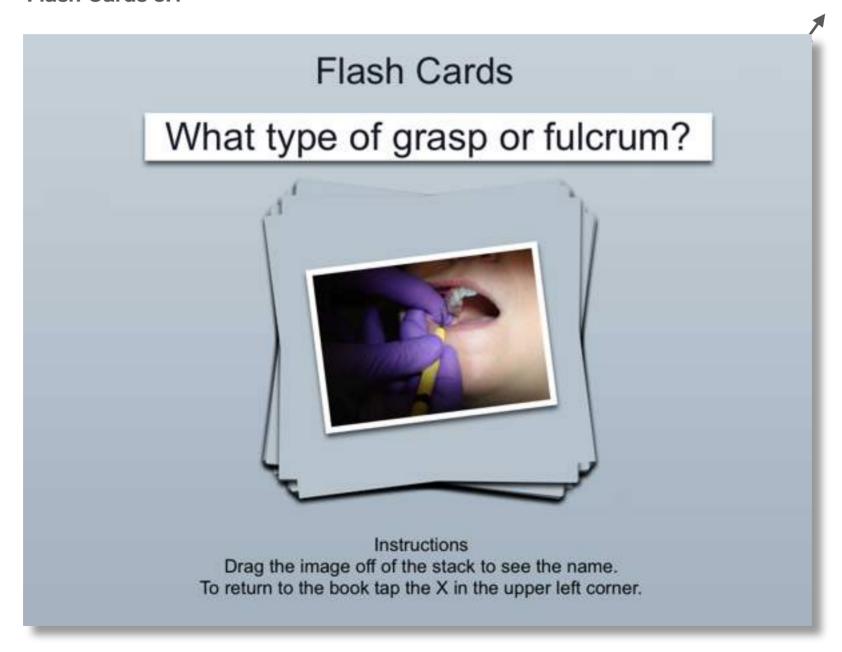


Purposes of instrument grasp

- Provides stability during instrumentation.
- Minimizes operator fatigue.
- Improves tactile sensitivity.

Notes

Flash Cards 8.1

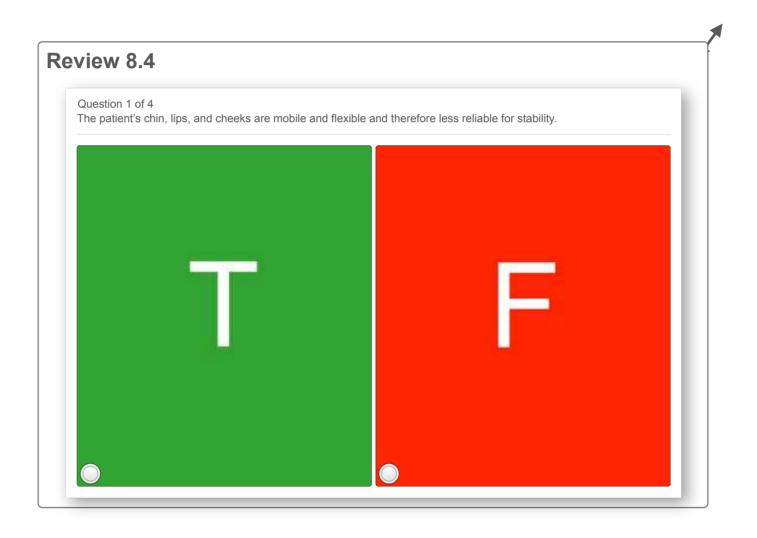


Notes

Review 8.3 Click to take the quiz

QUIZ

Quiz Part 2





Handling and Sterilization of Instruments

Notes

One of the most important responsibilities of Dental Health Aides is to process contaminated instruments for reuse. Proper handling and processing of contaminated items prevents the spread of disease to patients and co-workers.

Learning Objectives

- Give examples of critical and semi-critical items
- Describe work practices to prevent the spread of contamination when processing instruments
- Explain appropriate PPE for handling contaminated instruments
- Describe the cleaning and packaging of instruments for sterilization
- Explain the different ways to monitor the sterilization process

Terms to Know

Notes



Aerosols:

Fine mist commonly made in dentistry during use of handpieces, ultrasonic scalers, and air/water syringes.



Aseptic:

The absence of contamination from infectious materials.



Bacteria:

Type of microorganisms found in nature or in the bodies of plants and animals.



Biological indicator:

Device that verifies the sterilization process. Also called "spore test."



Bloodborne disease:

An illness transmitted by exposure to pathogens in the blood.



Bloodborne pathogens:

Disease-producing microorganisms spread by contact with blood or other body fluids contaminated with blood from an infected person. Examples include hepatitis B and C viruses and HIV.



Chemical indicator:

Device that monitors the sterilization process by changes in color with exposure to one or more sterilizing conditions (e.g., temperature, steam). Intended to detect potential sterilization failures due to incorrect packaging, incorrect sterilizer loading, or equipment malfunction.



Clinical contact surface: Type of environmental surfaces that come into direct contact with hands or

Notes

instruments during patient care. Examples include light handles, countertops, and

control switches.



Contamination: The presence of microorganisms (usually those causing disease or infection) on living or

nonliving surfaces.



Critical: The type of instruments that cut or penetrate bone or soft tissues, providing access to the

bloodstream. Examples include anesthetic needles, surgical burs, and scalpel blades.



Date-related instrument storage: A process that distributes sterile instruments packs to the operatory using packs with the

oldest date first. Sometimes referred to as "first in, first out".



Direct contact: Physical transfer of microorganisms between an infected person and a susceptible host.



Disinfection: Physical or chemical techniques used to destroy most pathogens but not spores.



Environmental surfaces: Include clinical contact surfaces like countertops, drawer handles, and instrument control panels;

as well as housekeeping surfaces like floors and walls.



Event-related instrument storage: A process where it is assumed contents of a sterilized pack should remain sterile until some

event causes it to become contaminated. The event may include dropping a pack or seeing

a tear or moisture in the pack.



Fungi: Group of microorganisms that include yeasts, molds, and mildews.

Notes



Hand hygiene:

General term that describes the removal of debris and blood by handwashing and/or the use of an antiseptic agent.



Heat sterilization:

Temperature-driven process that destroys all microbial life, including spores.



Hepatitis:

Bloodborne disease that causes inflammation of the liver.



Hepatitis B virus:

Disease producing pathogen that causes Hepatitis B. Abbreviation is "HBV."



Hepatitis C virus:

Disease producing pathogen that causes Hepatitis C. Abbreviation is "HCV."



High-level disinfection:

Process that inactivates bacteria (like what causes tuberculosis), most fungi, and most viruses. It is ineffective against large numbers of spores.



HIV:

Abbreviation for the human immunodeficiency virus, which causes AIDS.



Hospital disinfectant:

A germicide registered by the U.S. Environmental Protection Agency (EPA) that inactivates the test microbes salmonella choleraesuis, staphylococcus aureus, and pseudomonas aeruginosa. Used on inanimate objects in dental and medical facilities.



Housekeeping surface: Type of environmental surface that is not involved in the direct delivery of dental care.

Examples include floors, sinks, and walls.



Immunization: Vaccines that protect a person against a disease.



Indirect contact: Type of contact between a person and a contaminated object. An example is when a person

with a cold sneezes into their hand, and touches a doorknob transmitting their germs. A second person touches the doorknob and is exposed to the first person's germs. The cold germs are transmitted from one person to another through the contaminated doorknob.

Notes



Intermediate-level disinfectant: A liquid chemical registered by the Environmental Protection Agency (EPA) as a hospital disinfectant. The label should indicate it has tuberculocidal activity.



Intermediate-level disinfection: Process that inactivates bacteria (like what causes tuberculosis), most fungi, and most viruses.

It is ineffective against spores.



Low-level disinfection: Process that inactivates most bacteria, some fungi, and some viruses. It does not inactivate

resistant microorganisms such as spores and those bacteria that cause tuberculosis.



Microorganisms: Living organisms (virus, bacteria or fungus) that are so small in size they can only be seen by

using microscopes.



Mode of transmission: Means by which pathogens are transferred from a source to a new host.





Other Potentially Infectious Materials (OPIM): Refers to body fluids or tissues that (a) may contain bloodborne pathogens

(in dentistry, this includes saliva) or (b) are visibly contaminated with blood. It is an Occupational Safety and Health Administration term. The abbreviation is "OPIM."



Pathogen: Disease-producing microorganisms (virus, bacteria or fungus).



Patient-contact item(s): Instruments and supplies used to provide dental examinations, or treatment. Examples

include handpieces, cotton rolls, sutures, and air-water syringes.



Percutaneous injury: An injury that penetrates the skin, such as a needlestick or a cut with a sharp object.



Personal protective equipment (PPE): Required clothing or devices worn by workers for protection against hazards.

In dentistry, it includes wearing protective gowns or scrubs, masks/ face shields, gloves,

and protective eyewear. The abbreviation is "PPE."



Spores: Highly resistant type of microorganism that can survive heat and adverse conditions.

In dental clinics, spore tests are used to show the effectiveness of sterilization.



Standard precautions: Practices and procedures to protect healthcare workers and patients from pathogens

Notes

that can be spread by blood or any other body fluids.



Sterilization: A physical or chemical process that destroys all microorganisms, including spores.



Tuberculocidal: Ability to kill the pathogens that cause tuberculosis.



Vaccination: Immunizations to protect the individual against a disease.



Vaccine: Administered through needle injections, by mouth, or by aerosol. Produces immunity, and

protects individuals against disease.



Viruses: Type of organisms that infect cells and cause disease. Examples include HBV, HCV, and HIV.



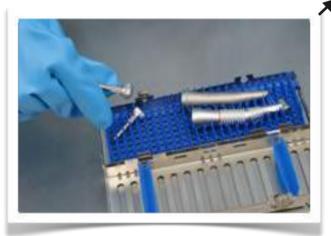


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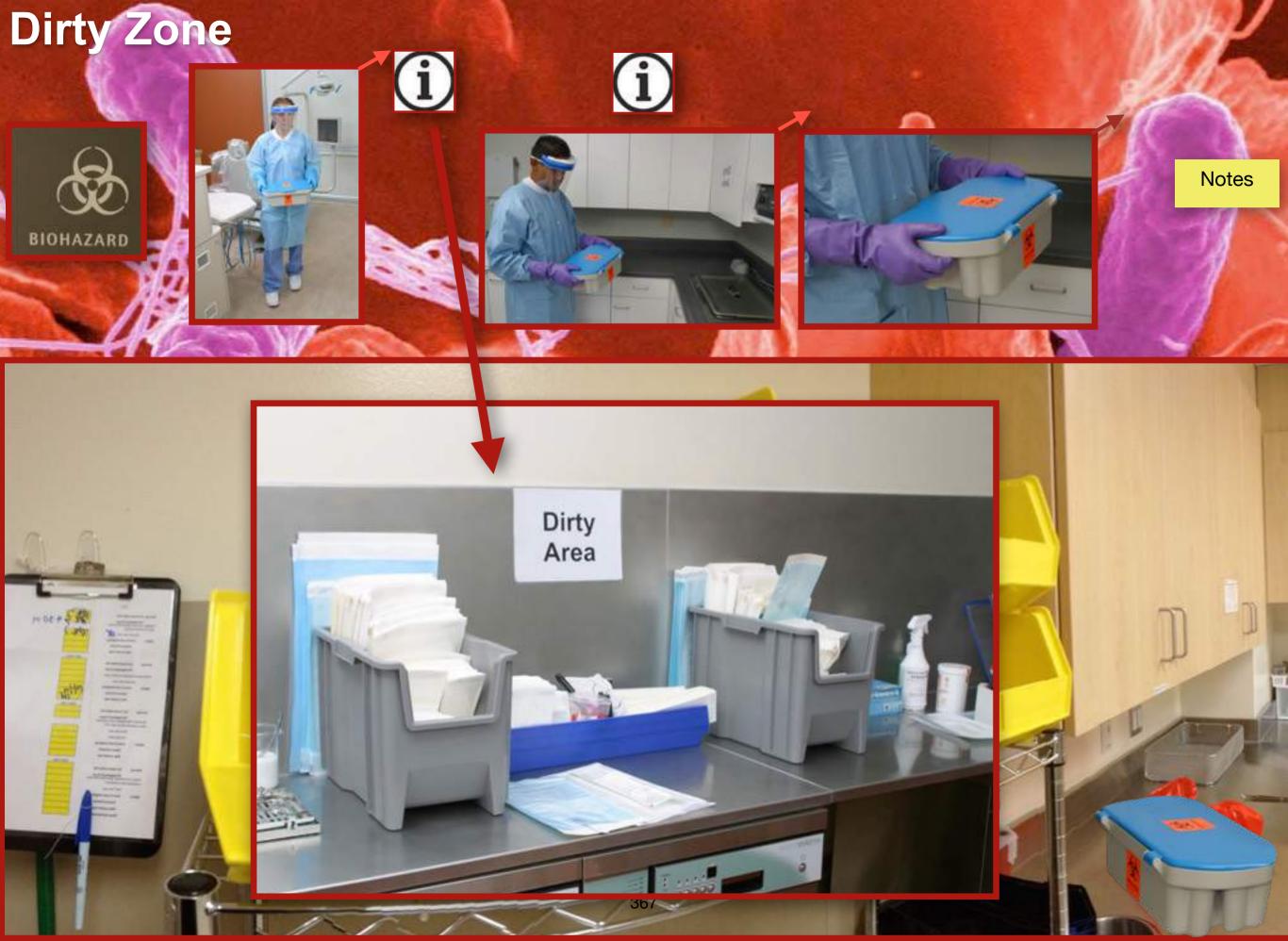
Patient-care items are classified according to the degree of contact they have with patients. Critical and semi-critical items need to be cleaned and sterilized after patient use.

- Critical items cut bone or penetrate soft tissue. These
 items carry the highest risk of disease transmission.

 Examples of critical items include: dental instruments like
 sickle and curette scalers, powered device tips,
 explorers, periodontal probes, dental burs, and extraction
 forceps.
- Semi-critical items touch only mucous membranes.
 These items have a lower risk of transmission than critical items. Examples of semi-critical items include: film holders or sensors, dental hand pieces, and mouth mirrors.

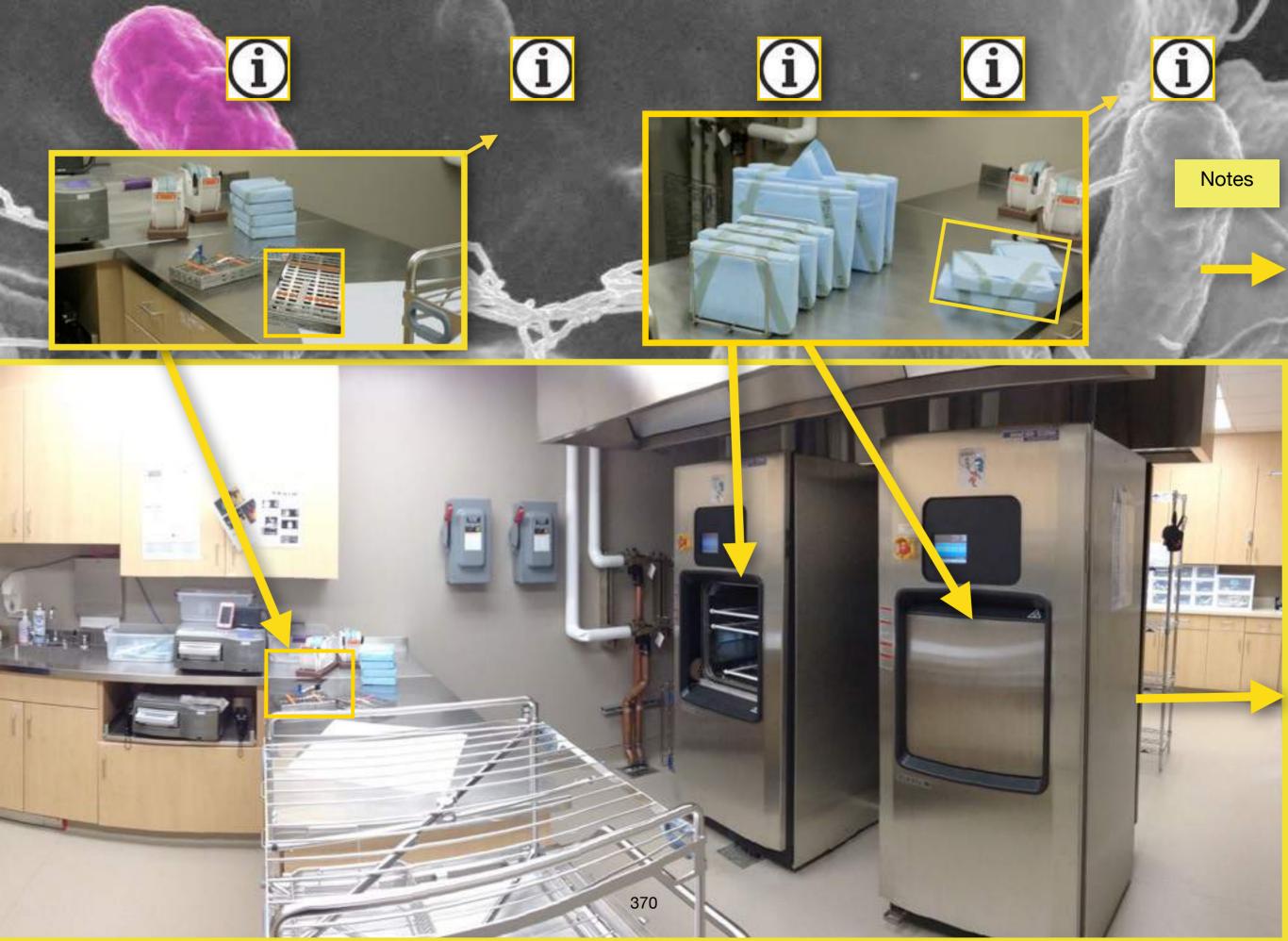




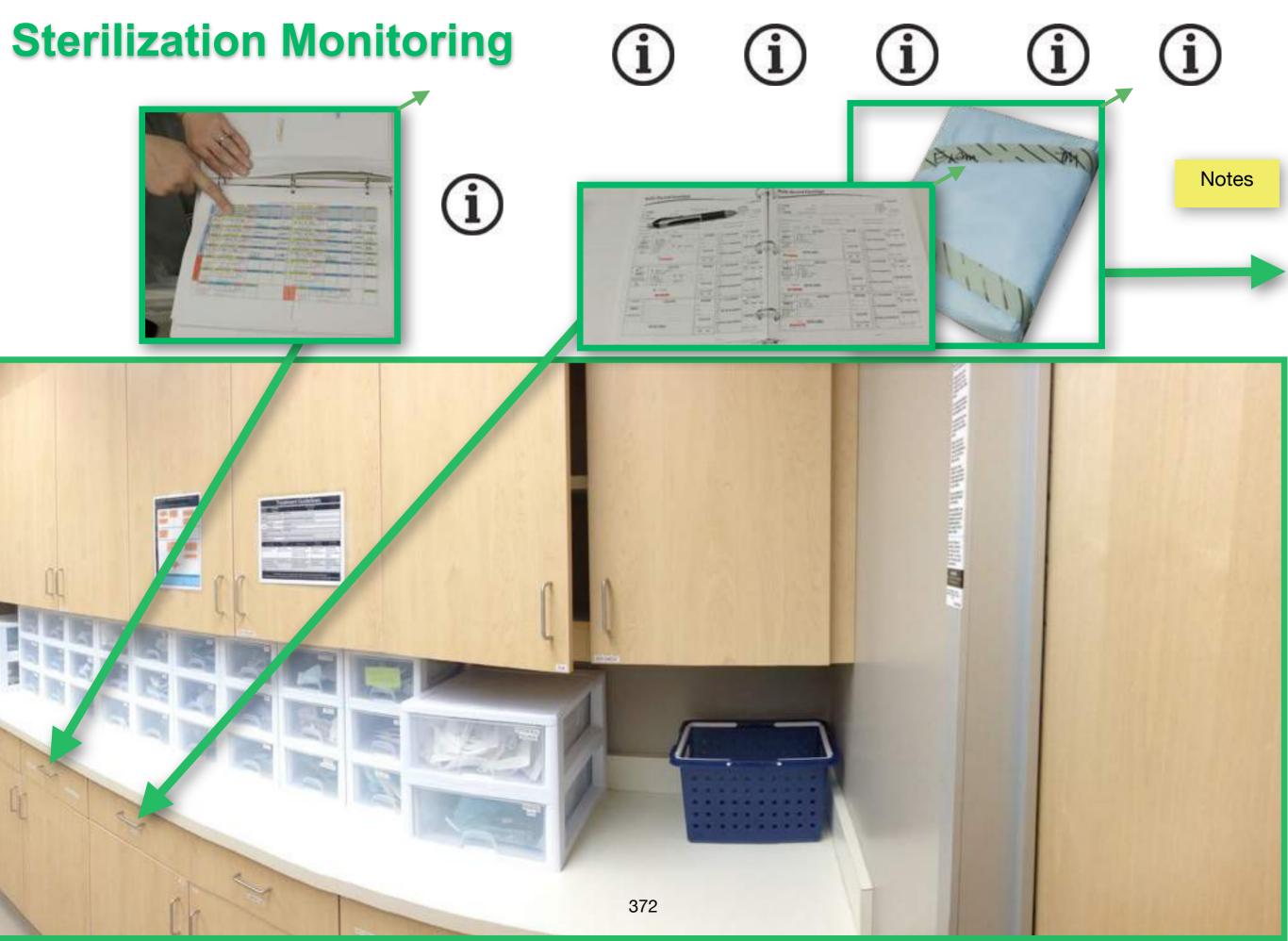












Summary

Critical and semi-critical items are cleaned and sterilized after patient use.

- Wear puncture, and chemical, resistant/heavy-duty utility gloves for instrument cleaning and decontamination procedures.
- Package instruments and cassettes with chemical indicators
- Label packs and cassettes with date and sterilizer information.
- Follow manufacture's instruction for proper loading of sterilizer and settings.
- Allow sterile packs to air dry before storing.
- Check sterilizer monitoring devices, and tape indicators on packs to assure sterilization occurred.
- Store sterile packs and cassettes.
- Set up operatory for patient treatment with sterilized cassettes and packs.



Summary of Tasks





Notes



Notes

Diseases can be transmitted during routine dental treatment. Infection control and safety practices can greatly reduce the risk to patients and dental staff. These practices include wearing appropriate PPE, using proper disinfection techniques, products, and barriers. Additionally, the disposal of contaminated items must be handled in a manner that poses no threat of disease transmission to the dental staff and others.

Learning Objectives

- Identify housekeeping and clinical contact surfaces in a dental operatory
- State the steps to manage a blood or body substance spill
- Discuss the disinfecting process for housekeeping surfaces
- Describe the disinfecting process for clinical contact surfaces
- Describe the process of using barriers on clinical contact surfaces
- Explain waste disposal of contaminated items used in the operatory

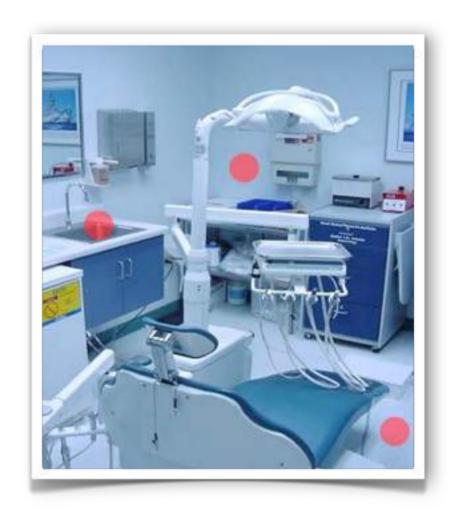
Notes

Environmental surfaces in the dental operatory are categorized as either housekeeping surfaces or clinical contact surfaces.

Clinical contact surfaces are those areas in the dental operatory that are directly touched by contaminated instruments, devices, hands, or gloves. Examples of clinical contact surfaces include: light handles, switches, dental x-ray controls, countertops, computer keyboards and monitors.

Housekeeping surfaces include: walls, sinks, and flooring. These surfaces are not directly touched during the delivery of dental care. They are considered noncritical because they carry the lowest risk of disease transmission, but they still need to be cleaned regularly.





Housekeeping surfaces

To clean housekeeping surfaces:

- Clean floors, walls, sinks, and other housekeeping surfaces with a detergent and water (or an EPA-registered hospital disinfectant/detergent) on a routine basis or when visibly soiled.
- Clean mops and cloths after use and allow them to dry before reuse. Alternatively, use single-use, disposable mop heads or cloths.
- Prepare fresh cleaning or EPA-registered hospital disinfectant solutions daily and as instructed by the manufacturer.

Clean walls, blinds, and window curtains in patient-care areas when they are visibly dusty or soiled.



For managing spills of blood and body substances:

- Clean spills of blood or other potentially infectious materials and decontaminate the surface
 with an EPA-registered hospital disinfectant with low-level (HBV and HIV claims) to
 intermediate-level (tuberculocidal claim) activity, depending on the size of the spill and surface
 porosity.
- Wear appropriate personal protective equipment (PPE) when managing spills. Such
 equipment
 includes puncture, and chemical-resistant utility gloves; a protective gown; and protective



Clinical contact surfaces

Clinical contact surfaces are those areas in the dental operatory that are directly touched by contaminated instruments, devices, hands, or gloves. Examples of clinical contact surfaces include: light handles, switches, dental x-ray controls, countertops, computer keyboards and monitors.

Most dental facilities use a combination of disinfection and barriers to prevent the spread of disease from clinical care surfaces.





Disinfection

Notes

After each patient appointment, clean and disinfect all clinical contact surfaces in the operatory.

- Determine the degree of cleaning/disinfection required and select a product compatible with the surfaces to be cleaned and disinfected.
- Use an EPA-registered hospital disinfectant with a tuberculocidal claim (i.e., an intermediate-level disinfectant).
- Follow the label instructions on the product to clean and disinfect clinical contact surface.
- Be sure that cleaning/disinfecting products have been prepared correctly and are fresh. Read and follow label instructions regarding dilution, shelf life, use life and expiration date. Use only products that are registered with the Environmental Protection Agency (EPA) as hospital disinfectants.
- If using a pre-moistened towelette, check to see it is to be used for disinfection, and carefully follow label

instructions.



Steps for Disinfection:

- Put on utility gloves, mask, protective eyewear, and protective clothing to prevent touching and splashing of the contaminants and chemicals.
- Spray the surface with a cleaning agent, and vigorously wipe the surface with paper towels OR wipe a premoistened cleaner-disinfectant towelette over the surface to be cleaned.
- After cleaning, disinfect the surface by spraying or wiping the disinfectant over the entire surface, using towels to reduce overspray. If using a premoistened towelette, saturate the surface.
- Let the surface remain moist for the contact time stated on the disinfectant or premoistened towelette product label.
- Disinfect contaminated utility gloves; remove the gloves and wash hands.

Clinical contact surfaces in the operatory should be cleaned and disinfected:

- At the beginning of the clinic day
- Between patient appointments
- At the end of the clinic day

What to look for in a disinfectant?

- EPA registration number
- Labeled "Hospital Disinfectant"; i.e., germicide registered by EPA effective against Salmonella choleraesuis, Staphylococcus aureus, and Pseudomonas aeruginosa for use on nonliving objects in dental and medical facilities
- Compatibility with surfaces in your facility
- Cleaning as well as disinfecting properties
- Low allergy for both patients and dental team
- · Ease of use -- ready to use or mixing required
- Clear, easy-to-follow instructions
- A reasonable contact time; i.e., 10 minutes or less
- Acceptable storage and disposal requirements
- · Reasonable use and shelf life

Notes

Barriers

- At the beginning of the clinic day, clean and disinfect all clinical contact surfaces and place barriers.
- Between patient visits
- Wear gloves when removing surface covers after patient treatment.
- For removing contaminated barriers, exam gloves are sufficient. Utility gloves are also acceptable.
- Use care not to contaminate the surface underneath the barrier.
- If the surface is touched and contaminated when removing the cover, clean and disinfect the surface before placing a new barrier.
- If the surface has not been touched, it is not necessary to clean and disinfect the surface.
- Discard used covers in the trash.
- Remove and discard contaminated gloves, wash hands, and apply new barriers.

Barriers













Notes

Waste Disposal

- Although any item that has been in contact with blood or body fluids may be infective, not all such waste requires special disposal. For example, plastic or paper barriers, gloves, masks, gowns and single-use items like saliva ejectors, and fluoride packets can be disposed in the trash.
- Federal, state, and local guidelines identify the specific categories of medical waste that are subject to regulation. Talk with your dental supervisor to determine what the clinic policies are on regulated waste.
- Sharp items should be disposed in containers that are puncture resistant, leak-proof, closable, and labeled with the biohazard symbol.

 Non-sharp disposable items saturated with blood or body fluids should be discarded into biohazard bags that are puncture resistant, leak-proof, and labeled with a biohazard symbol.





Notes

Resources

- Infection Control, CDC Guidelines: From Policy to Practice. Organization for Safety, Asepsis and Prevention (OSAP).
- Centers for Disease Control and Prevention Guidelines for Infection control in dental settings, 2003



substance that has a pH of less than 7.

Related Glossary Terms

Drag related terms here

Index Find Term

Chapter 4 - Terms to Know

Adverse reaction
Unwanted, unexpected or dangerous effect.
Related Glossary Terms
Drag related terms here
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Index Find Term Chapter 6 - Terms to Know
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Aerosols Fine mist commonly made in dentistry during use of handpieces, ultrasonic scalers, and air/water syringes. **Related Glossary Terms** Drag related terms here Index Find Term

Chapter 9 - Terms to Know

Alkaline
substance that has a pH greater than 7.
Related Glossary Terms
Drag related terms here

Chapter 4 - Terms to Know

Find Term

Index

The absence of contamination from infectious materials. Related Glossary Terms Drag related terms here Index Find Term Chapter 9 - Terms to Know	Aseptic
Drag related terms here Index Find Term	The absence of contamination from infectious materials.
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Bacteria
Type of microorganisms found in nature or in the bodies of plants and animals.
Related Glossary Terms
Drag related terms here
Index Find Term
Chapter 9 - Terms to Know

Balancing or non-working cusps
The cusps that do not occlude with the opposing teeth during centric occlusion or maximum intercuspation. Remember B.U.L.L. (Buccal upper, lingual lower)
Related Glossary Terms
Drag related terms here
Index Find Term

Chapter 1 - Dental Occlusion Terms to Know

Biological indicator
Device that verifies the sterilization process. Also called "spore test."
Related Glossary Terms
Drag related terms here
Index Find Term Chapter 9 - Terms to Know

Bloodborne disease
An illness transmitted by exposure to pathogens in the blood.
Related Glossary Terms
Drag related terms here
Index Find Term
Chapter 9 - Terms to Know

Bloodborne pathogens

Disease-producing microorganisms spread by contact with blood or other body fluids contaminated with blood from an infected person. Examples include hepatitis B and C viruses and HIV.

Related Glossary Terms

Drag related terms here

Index Find Term

Buffer
a solution that resists changes in pH.
Related Glossary Terms
Drag related terms here

Index Find Term

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swollen or bulging.

Related Glossary Terms

Drag related terms here

Index Find Term

Calculus	
mineralized plaque that provides a rough surface for sticky plaque to adhere.	
Related Glossary Terms	
Drag related terms here	
Index Find Term	
Chapter 3 - Terms to Know	

Canine Guidance Occlusion in which the occlusal contacts of the canine teeth cause the posterior teeth to disclude or separate during lateral or excursive movements. **Related Glossary Terms** Drag related terms here

Chapter 1 - Dental Occlusion Terms to Know

Find Term

Index

Caries process the dynamic process of demineralization and remineralization that can lead to cavitation (breakdown) of tooth structure.

Related Glossary Terms

Drag related terms here

Index Find Term

Cavitate

breakdown of tooth structure.

Related Glossary Terms

Drag related terms here

Index Find Term

Combination of letter and numbers to describe specific dental procedures. Updated annually by the American Dental Association (ADA).

Related Glossary Terms

Drag related terms here

Index Find Term

Cementoenamel junction (CEJ)
the area of a tooth where the cementum and enamel meet.
Related Glossary Terms
Drag related terms here
Index Find Term
Chapter 3 - Terms to Know

Cementum
hard connective tissue covering the outer surface of a tooth root.
Related Glossary Terms
Drag related terms here
Index Find Term

Chemical indicator

Device that monitors the sterilization process by changes in color with exposure to one or more sterilizing conditions (e.g., temperature, steam). Intended to detect potential sterilization failures due to incorrect packaging, incorrect sterilizer loading, or equipment malfunction.

Related Glossary Terms

Drag related terms here

Index Find Term

Chronological
Arranged in the order of time.
Related Glossary Terms
Drag related terms here

Index Find Term

Clinical contact surface

Type of environmental surfaces that come into direct contact with hands or instruments during patient care. Examples include light handles, countertops, and control switches.

Related Glossary Terms

Drag related terms here

Index Find Term

Clinical crown
that portion of a tooth not covered by tissues.
Related Glossary Terms
Drag related terms here
Diag leiated tellis liele

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Intended to be kept secret.

Related Glossary Terms

Drag related terms here

Index Find Term

Confidentiality A set of rules or a promise that limits access or places restrictions on certain types of information. **Related Glossary Terms** Drag related terms here Find Term Index

Contagious
disease spread from one person or organism to another by direct or indirect contact.
Related Glossary Terms
Drag related terms here
Index Find Term
Chapter 4 - Terms to Know

Contamination The presence of microorganisms (usually those causing disease or infection) on living or nonliving surfaces. **Related Glossary Terms** Drag related terms here

Index Find Term

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refers to the crown of a tooth.

Related Glossary Terms

Drag related terms here

Index Find Term

Community Periodontal Index (CPI, formerly called the Community Periodontal Index of Treatment Needs or CPITN) was created in 1978 by the World Health Organization (WHO) to provide a global standard for screening periodontal disease in populations.

Related Glossary Terms

Drag related terms here

Index Find Term

Critical

The type of instruments that cut or penetrate bone or soft tissues, providing access to the bloodstream. Examples include anesthetic needles, surgical burs, and scalpel blades.

Related Glossary Terms

Drag related terms here

Index Find Term

Date-related instrument storage
A process that distributes sterile instruments packs to the operatory using packs with the oldest date first. Sometimes referred to as "first in, first out".

Related Glossary Terms

Drag related terms here

Index Find Term

Demineralization when pH is lowered it weakens the tooth structure. First signs of demineralization are white spot lesions. **Related Glossary Terms** Drag related terms here

Index Find Term

Dental caries
dental term for the tooth decay process.
Related Glossary Terms
Drag related terms here

Index Find Term

Dental plaque
a biofilm consisting of bacteria and bacterial by-products.
Related Glossary Terms
Drag related terms here
Index Find Term
Chapter 4 - Terms to Know

Direct contact
Physical transfer of microorganisms between an infected person and a susceptible host.
Related Glossary Terms
Drag related terms here
Index Find Term Chapter 9 - Terms to Know
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Disinfection
Physical or chemical techniques used to destroy most pathogens but not spores.
Related Glossary Terms
Drag related terms here
Index Find Term
Chapter 9 - Terms to Know

Environmental surfaces Include clinical contact surfaces like countertops, drawer handles, and instrument control panels; as well as housekeeping surfaces like floors and walls.

Related Glossary Terms

Drag related terms here

Index Find Term

Event-related instrument storage

A process where it is assumed contents of a sterilized pack should remain sterile until some event causes it to become contaminated. The event may include dropping a pack or seeing a tear or moisture in the pack.

Related Glossary Terms

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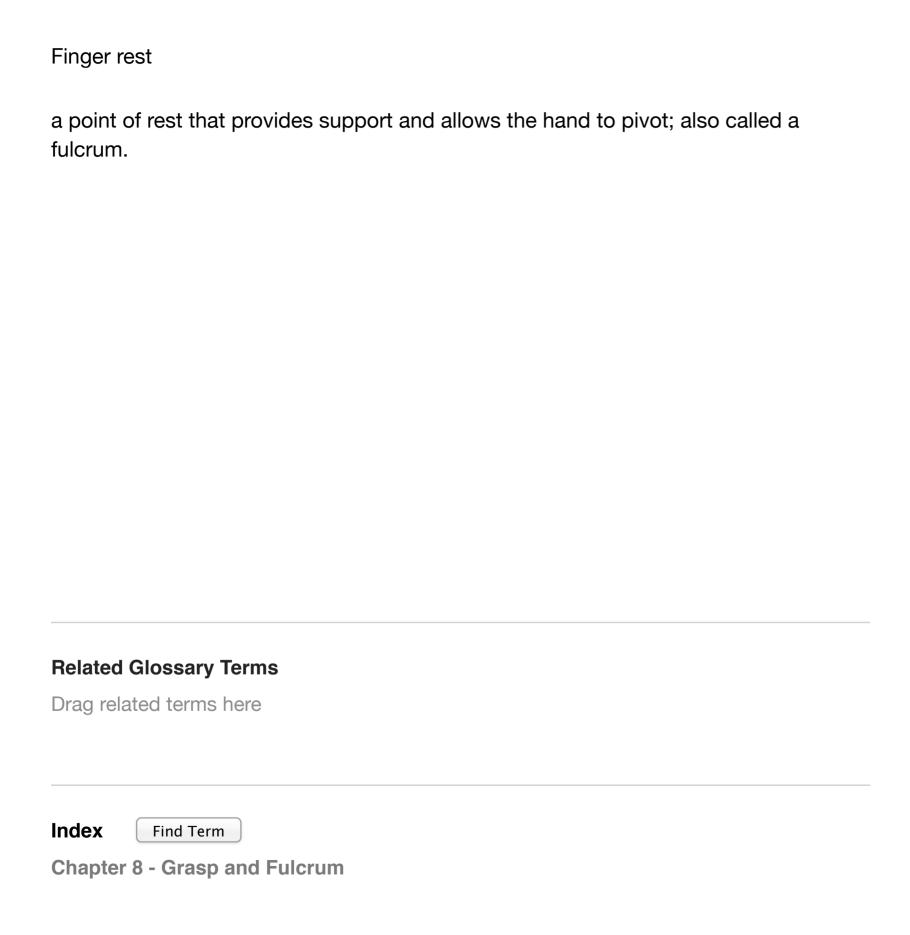
outside of the mouth.

Related Glossary Terms

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Forensic
Scientific tests or techniques used in connection with the detection of crime.
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a point of rest that provides support and allows the hand to pivot; also called a finger rest. Related Glossary Terms Drag related terms here Index Find Term Chapter 8 - Grasp and Fulcrum	Fulcrum
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Fungi
Group of microorganisms that include yeasts, molds, and mildews.
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Furcation
the notch or space exposed between the roots of multirooted teeth.
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Gingival recession as periodontal disease progresses, the gingiva may recede, leaving portions of the roots of teeth exposed below the cementoenamel junction (CEJ). **Related Glossary Terms** Drag related terms here

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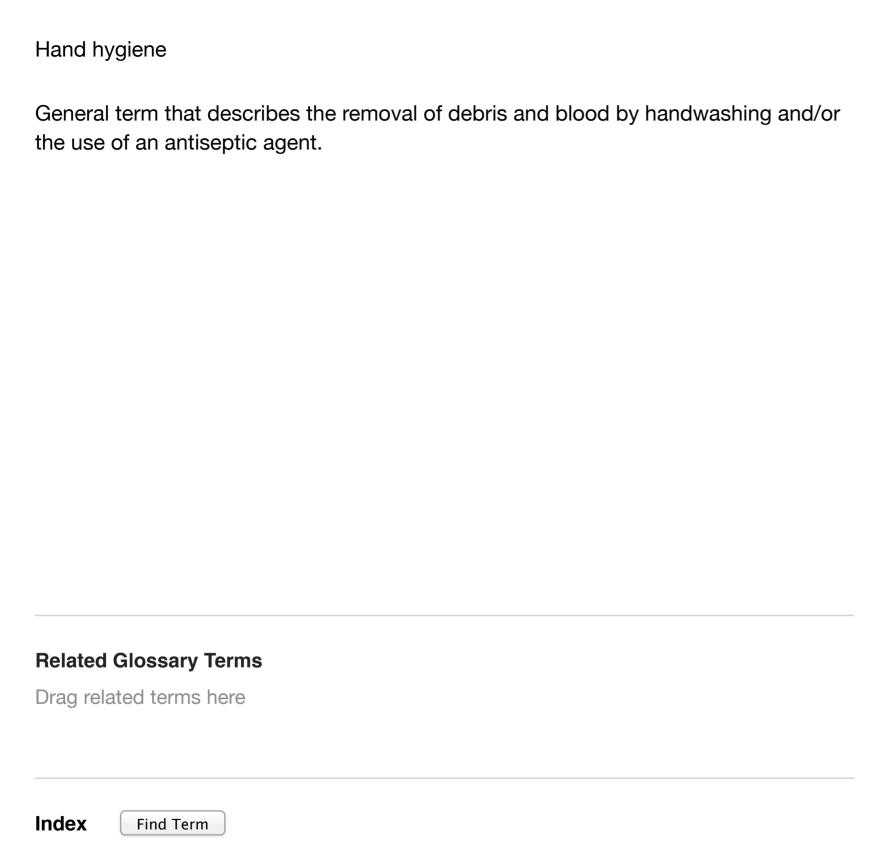
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Gingivitis
a bacterial infection that is confined to the gingiva. It is reversible.
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Grasp
the correct way to hold a dental instrument.
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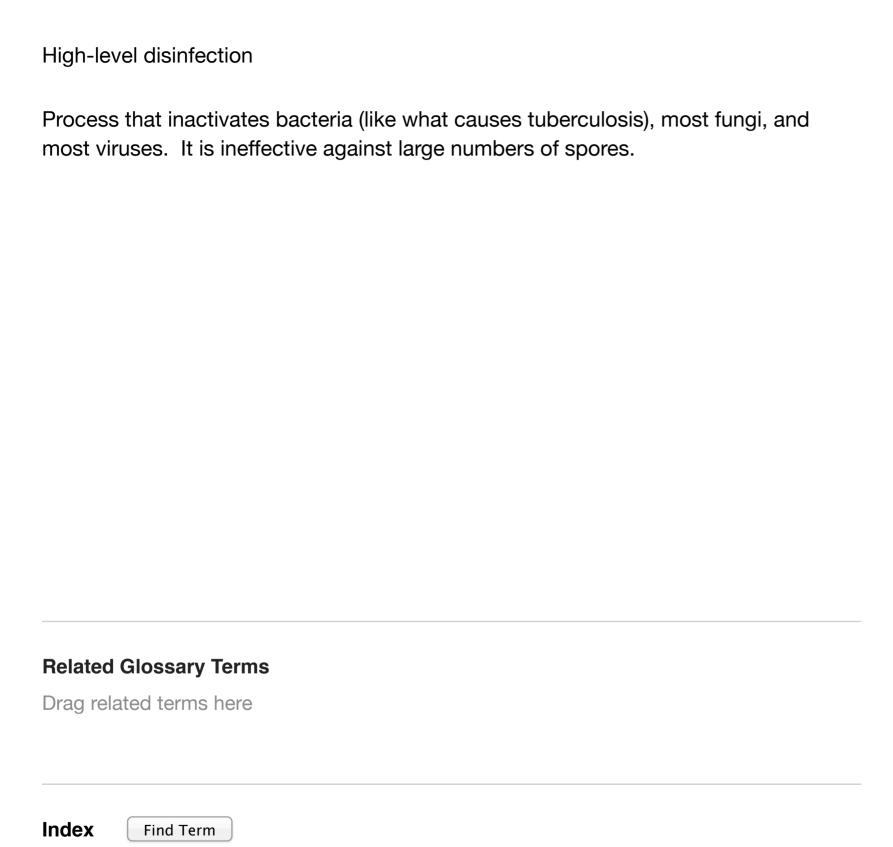


Heat sterilization
Temperature-driven process that destroys all microbial life, including spores.
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Hepatitis
Bloodborne disease that causes inflammation of the liver.
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Hepatitis B virus	
Disease producing pathogen that causes Hepatitis B.	Abbreviation is "HBV."
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Hepatitis C virus
Disease producing pathogen that causes Hepatitis C. Abbreviation is "HCV."
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HIPAA
Health Insurance Portability and Accountability Act.
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HIV
Abbreviation for the human immunodeficiency virus, which causes AIDS.
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Hospital disinfectant

A germicide registered by the U.S. Environmental Protection Agency (EPA) that inactivates the test microbes salmonella choleraesuis, staphylococcus aureus, and pseudomonas aeruginosa. Used on inanimate objects in dental and medical facilities.

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Housekeeping surface
Type of environmental surface that is not involved in the direct delivery of dental care. Examples include floors, sinks, and walls.
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Immunization
Vaccines that protect a person against a disease.
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Indirect contact

Type of contact between a person and a contaminated object. An example is when a person with a cold sneezes into their hand, and touches a doorknob transmitting their germs. A second person touches the doorknob and is exposed to the first person's germs. The cold germs are transmitted from one person to another through the contaminated doorknob.

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Infectious
the ability to spread infection from person to person.
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Intermediate-level disinfectant
A liquid chemical registered by the Environmental Protection Agency (EPA) as a hospital disinfectant. The label should indicate it has tuberculocidal activity.
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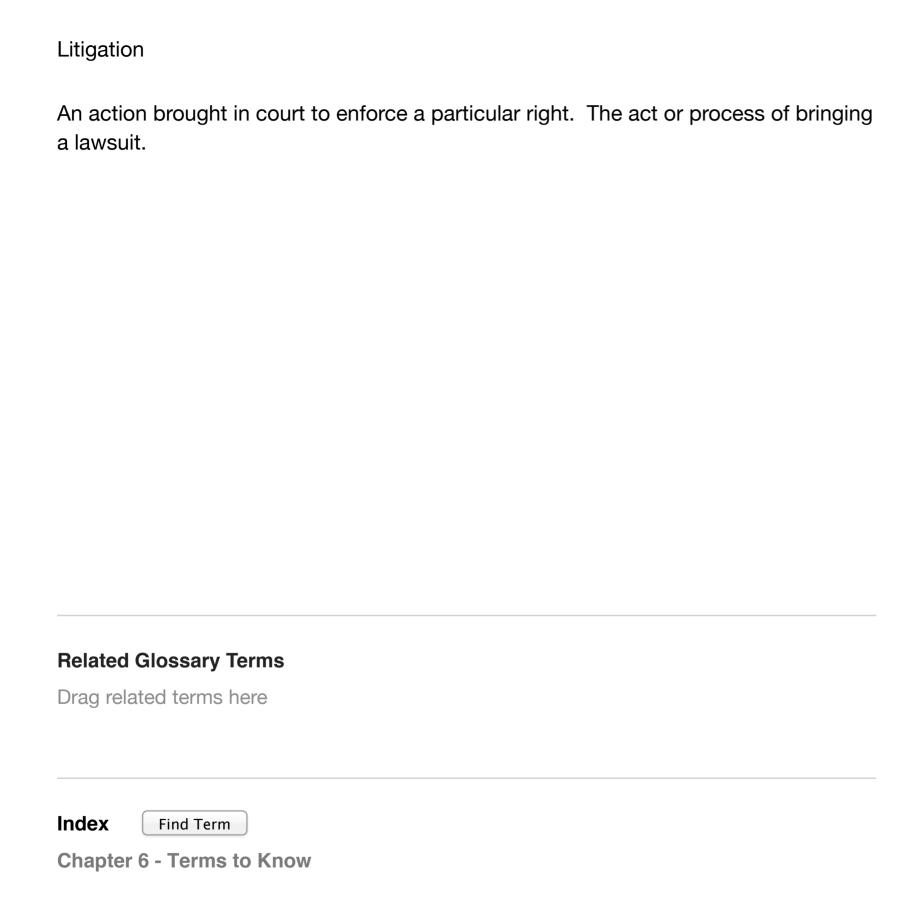
Intermediate-level disinfection
Process that inactivates bacteria (like what causes tuberculosis), most fungi, and most viruses. It is ineffective against spores.
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Intraoral	
inside the mouth.	
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Lateral or excursive movements	
Shifting of the mandible and mandibular teeth to the right or left (lateral) against the maxillary the teeth.	
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Low-level disinfection

Process that inactivates most bacteria, some fungi, and some viruses. It does not inactivate resistant microorganisms such as spores and those bacteria that cause tuberculosis.

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Mandibular working cusps	
The buccal cusps. They occlude or contact with the fossae and marginal ridges of maxillary teeth. Remember B.L.L.U. (Buccal lower, lingual upper)	
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Maxillary working cusps
The lingual cusps. They occlude or contact with the fossae and marginal ridges of mandibular teeth.
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Maximum intercuspation
The maximum contact of the teeth while biting the teeth together. Cusp to Fossa relationship.
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Microorganisms Living organisms (virus, bacteria or fungus) that are so small in size they can only be seen by using microscopes. **Related Glossary Terms** Drag related terms here Index Find Term

Mobility
movement.
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Mode of transmission
Means by which pathogens are transferred from a source to a new host.
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Need to know

Only individuals who are providing treatment to a patient have access to his/her dental records. Discussion of patient's care is limited to only those providers who are providing dental treatment.

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Neutralize
make an acidic or alkaline substance chemically neutral.
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An abbreviation for next visit.

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Occlusion

The way the teeth "fit," together. The way the occlusal and incisal surfaces of maxillary and mandibular teeth contact each other or move against each other.

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Opaque
white, chalky area that indicates demineralization of the tooth structure.
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Other Potentially Infectious Materials (OPIM)

Refers to body fluids or tissues that (a) may contain bloodborne pathogens (in dentistry, this includes saliva) or (b) are visibly contaminated with blood. It is an Occupational Safety and Health Administration term. The abbreviation is "OPIM."

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PARQ

An abbreviation for the informed consent process. The dentist discussed with the patient: the Procedure, Alternative treatment, Risks, and answered Questions.

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Pathogen
Disease-producing microorganisms (virus, bacteria or fungus).
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Patient-contact item(s)
Instruments and supplies used to provide dental examinations, or treatment. Examples include handpieces, cotton rolls, sutures, and air-water syringes.
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Percutaneous injury
An injury that penetrates the skin, such as a needlestick or a cut with a sharp object.
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Periapical
the area surrounding the end of the tooth root.
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Periodontal
supporting and surrounding tissues around the tooth.
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Periodontal charting

documentation of periodontal probing depth for six areas on each tooth, notation of tooth mobility, and other clinical periodontal findings which are measured, recorded, and monitored over time.

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Periodontal disease

inflammatory process of the gingival tissues and/or periodontal membrane of the teeth, resulting in an abnormally deep gingival sulcus, possibly producing periodontal pockets and loss of supporting alveolar bone.

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Periodontal pocket indicates the presence of an abnormal depth of the gingival sulcus where the gingival tissue contacts the tooth. A normal sulcus measures 3mm or less. **Related Glossary Terms** Drag related terms here

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Periodontal probe instrument used to locate and measure the depth of periodontal pockets. The tip is blunt or rounded and has markings in millimeters to measure the depth of the sulcus.

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Periodontitis

a bacterial infection, with inflammation of the periodontium including the gingiva, periodontal ligament, bone, and cementum. Loss of attachment and tissue is irreversible.

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Periodontium tissues comprising gingival, cementum, periodontal ligament, and alveolar bone that attaches, nourishes and supports the tooth. **Related Glossary Terms** Drag related terms here Index Find Term

Personal protective equipment (PPE)

Required clothing or devices worn by workers for protection against hazards. In dentistry, it includes wearing protective gowns or scrubs, masks/ face shields, gloves, and protective eyewear. The abbreviation is "PPE."

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Plaque

a soft sticky substance that accumulates on teeth composed largely of bacteria and bacterial by-products. Plaque is the primary cause of gingival inflammation and most other types of periodontal diseases.

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Progress notes
Permanent record of the patient's dental treatment.
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Prophylaxis

commonly referred to as prophy or cleaning. It is the technical term for the removal of plaque, calculus and stain from tooth structures. It is intended to control local irritant factors.

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Protected health information (PHI)
Any information about health status, provision of health care, or payment for health care that can be linked to a specific individual.
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Protrusive movements
Shifting of the mandible and mandibular teeth forward against and past the maxillary teeth.
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Periodontal Screening and Recording index documents periodontal conditions prior to diagnosis and treatment.

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Quadrant

one of the four equal sections into which the dental arches can be divided; begins at the midline of the arch and extends distally to the last tooth.

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Recession
areas where the gingiva has moved away from the crown of a tooth.
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Release of Information (ROI)
Permission to allow information to be shared from the patient record to/from other agencies or given to the patient or the patient's representative.
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Remineralization the result of minerals in saliva buffering the acid, and strengthening the tooth. It can stop tooth destruction, and reverse demineralization.

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RMH
An abbreviation for reviewed medical history
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Sequential
A series of steps in a logical order
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Sextant

one of the six relatively equal sections into which a dental arch can be divided, for example: tooth numbers 1-5; 6-11; 12-16; 17-21;22-27;28-32. Used for recording the CPI or PSR.

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SOAPE

An acronym for subjective findings, objective findings, assessment, plan, and education that serves as a method to document patient visits in a patient record.

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Spores
Highly resistant type of microorganism that can survive heat and adverse conditions. In dental clinics, spore tests are used to show the effectiveness of sterilization.
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Stability
ability to keep a dental instrument steady and secure.
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Standard precautions Practices and procedures to protect healthcare workers and patients from pathogens that can be spread by blood or any other body fluids. **Related Glossary Terms** Drag related terms here

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Sterilization
A physical or chemical process that destroys all microorganisms, including spores.
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Stippling or stippled		
textured surface of gingiva similar to the surface of an orange.		
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forms on root surfaces below the gingival margin and can extend into periodontal pockets. Related Glossary Terms Drag related terms here Index Find Term Chapter 3 - Terms to Know	Subgingival calculus
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Sulcus
the natural space found between the tooth and the gum tissue; sulcular refers to the sulcus.
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Supragingival calculus
found above the margin of the gingiva.
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Tactile sensitivity
ability to "feel" tooth smoothness and/ or roughness.
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Tampering
Altering or falsifying entries in a patient's record.
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Tuberculocidal
Ability to kill the pathogens that cause tuberculosis.
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Vaccination
Immunizations to protect the individual against a disease.
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Vaccine	
Administered through needle injections, by mouth, or by aerosol. and protects individuals against disease.	Produces immunity,
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Viruses	
Type of organisms that infect cells and cause disease. and HIV.	Examples include HBV, HCV,
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White spot lesion
an area of demineralized tooth structure that looks chalky or opaque.
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Working Cusps Also known as Functional Cusps. They are the cusps that contact when the patient bites into their habitual or "normal bite." **Related Glossary Terms** Drag related terms here

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