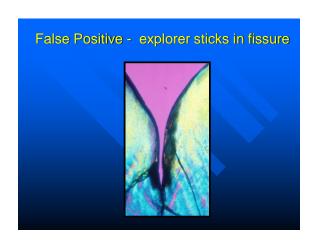




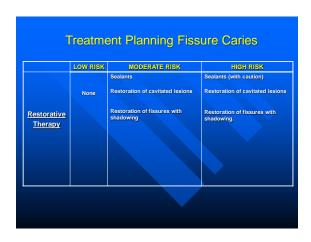
Decisions for Treatment Past – Clinical/radiographic identification of a lesion. Present -- Decisions are complex involving understanding the natural history of the carious process, better diagnosis of disease, risk assessment, evidence of outcomes, ability of an individual to change their risk and informed consent.





With the Visual-Tactile (Mirror-Explorer) Criteria in Fissure Caries Sensitivity = Ability of a diagnostic test to correctly identify those teeth that have caries (39% sensitivity means that 61% of the time the lesion was not detected) – false negative Specificity = Ability of a diagnostic test to correctly identify those teeth that do not have caries (94% specificity means that 6% of the time a lesion was identified that was not really there) – false positive

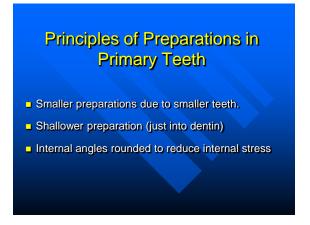
Different Criteria for Fissure Caries Knowing that sealants arrest undetected and small enamel caries, can we move to visual criteria? - Is there a hole in the tooth? Is there shadowing under the enamel?









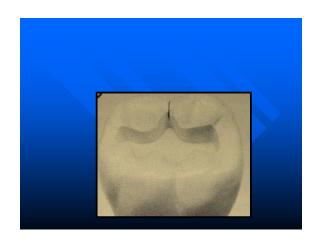


Decisions to Treat Class I - Amalgam - Composite - Incomplete Caries Removal Class II - Amalgam - Composite Restorative Materials for Intercoronal Restorations Stainless Steel Restorations

Advantages of Amalgam Restorations

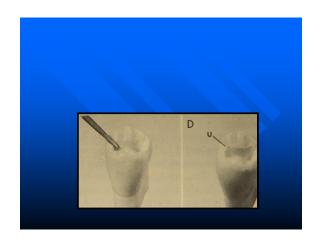
- Less technique sensitive; better predictability of success
- Able to be placed without absolute moisture control
- Better wear resistance, especially in areas of occlusion
- Cheaper than composite materials
- Quicker than composites
- Some clinical trials in children show greater life span

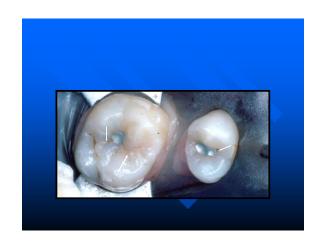




















Advantages of Composite Restorations

- Leakage less, especially with dentin bonding
- Better aesthetics
- No concern about mercury
- Lower thermal conductivity
- Bonds tooth together
- Do not have to remove as much tooth structure

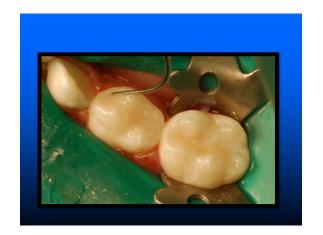










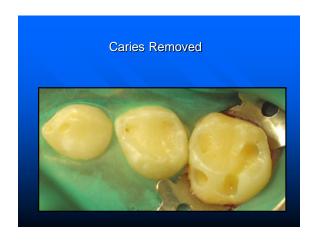
















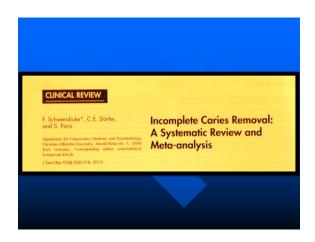


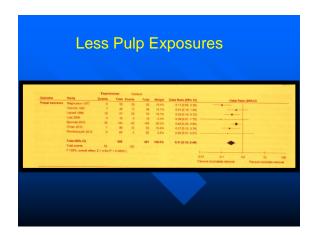


























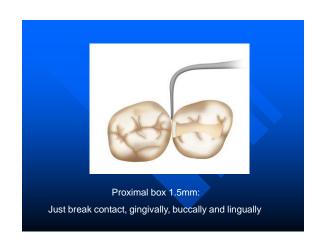
Decisions to Treat Class I - Amalgam - Composite - Incomplete Caries Removal Class II - Amalgam - Composite Restorative Materials for Intercoronal Restorations Stainless Steel Restorations

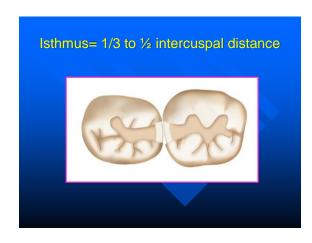
With the Radiographic Criteria of Enamel Proximal Lesions Sensitivity = Ability of a diagnostic test to correctly identify those teeth that have caries (30% sensitivity means that 70% of the time the lesion was not detected) – false negative Specificity = Ability of a diagnostic test to correctly identify those teeth that do not have caries (76% specificity means that 24% of the time a lesion was identified that was not really there) – false positive

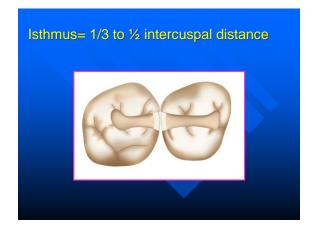
	LOW RISK	MODERATE RISK	HIGH RISK
		Monitor enamel proximal lesions	Restoration of enamel proximal lesions
	None	Restoration of progressing	Restoration of progressing
		lesions	lesions
Restorative Therapy			Restoration of cavitated lesions
Illelapy		Restoration of cavitated lesions	Restoration of cavitated lesions
			Aggressive treatment to
			minimize continued caries progression

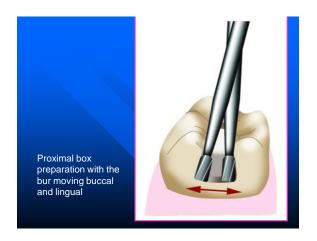
Principles of Class II Amalgam Restorations in Primary Teeth Isthmus should be wide enough to join occlusal and proximal preparations buccal and lingual walls point to center of tooth Pulpal axial wall rounded Buccal, lingual, and gingival walls of proximal box should just clear contact Retention in box from convergence of buccal and lingual walls, not from retention grooves Width of proximal box should not exceed 1.5 mm

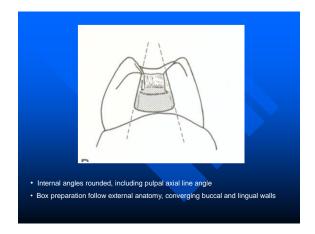










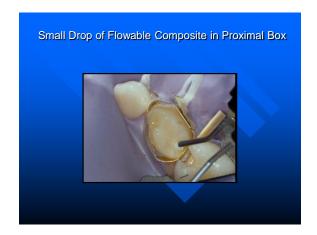












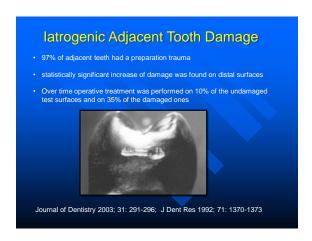














Restorative Materials Primary Teeth						
	Class I	Class II	Class III	Class IV	Class V	
Amalgam	Strong Evidence	Strong Evidence	No Data	No Data	No Data	
Composite	Strong Evidence	Expert opinion for	Expert opinion for	No Data	Expert opinion for	
Glass Ionomer	Strong Evidence **	Against	Evidence in Favor	No Data	Evidence in Favor	
RMGIC	Strong Evidence	Evidence in favor	Expert opinion for	No Data	Expert opinion for	
Compomers	Evidence in favor	Evidence in favor	No Data	No Data	Expert opinion for	
SSC	Strong Evidence ***	Strong evidence ***	Expert opinion for	Expert opinion for	Expert opinion for	
Anterior Crowns	N/A	N/A	Expert opinion for	Expert opinion for	Expert opinion for	









