

"DENTISTRY 101"

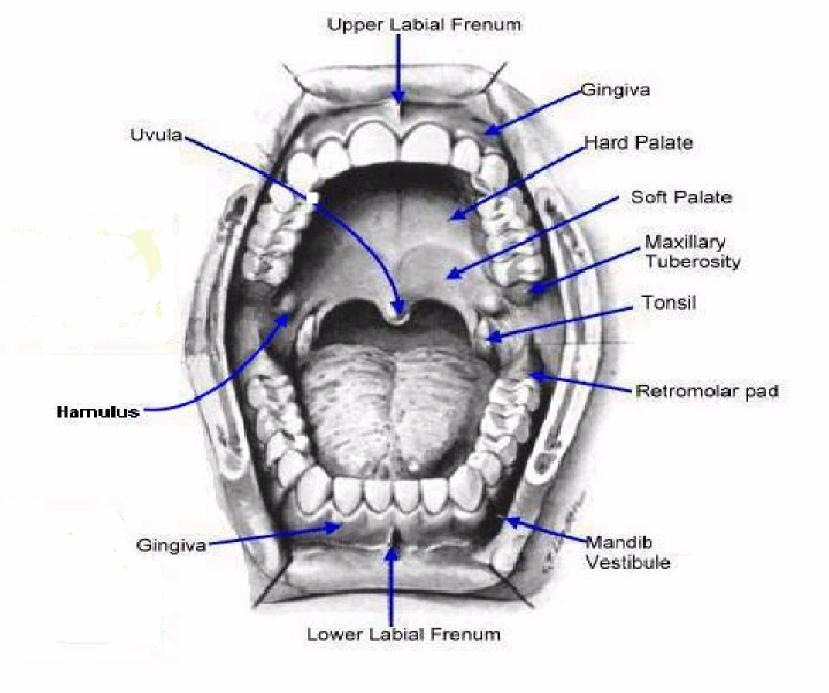
National Oral Health
Conference
April 30, 2005
Pittsburgh, Pennsylvania

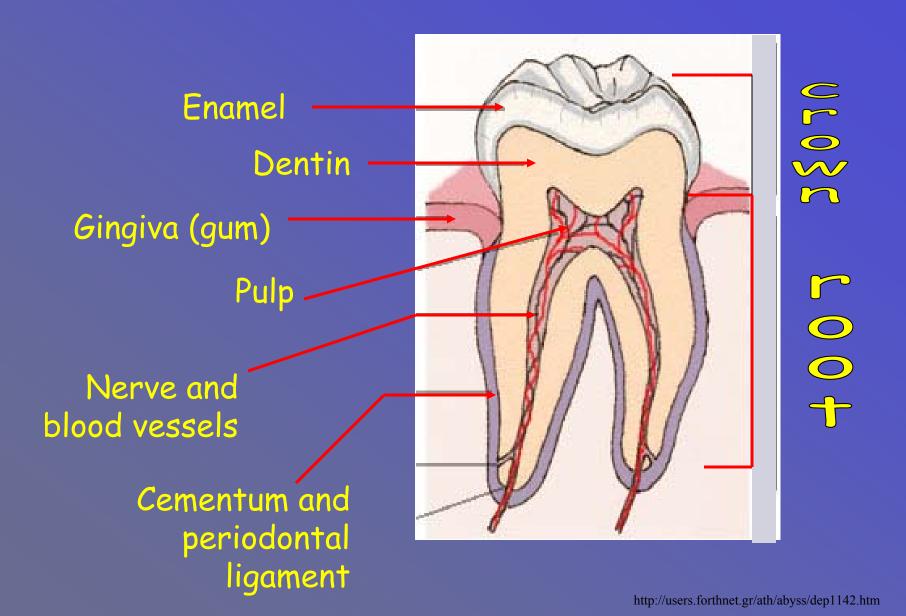
Itinerary



- · The mouth and its parts
- · Dental disease-decay, periodontal
- · Dentistry Dentistry Dentistry Dentistry Dentistry
- · The business of dentistry
- Policy Drivers
- Hot topics

The Mouth and Its Parts





The Dental Arch

- Maxillary (upper) Arch: part of the skull, incapable of movement.
- · Mandibular (lower) Arch: capable of movement.

The action of the temporomandibular joint brings the mandibular arch into contact with the maxilla as we talk, chew or swallow.

Teeth

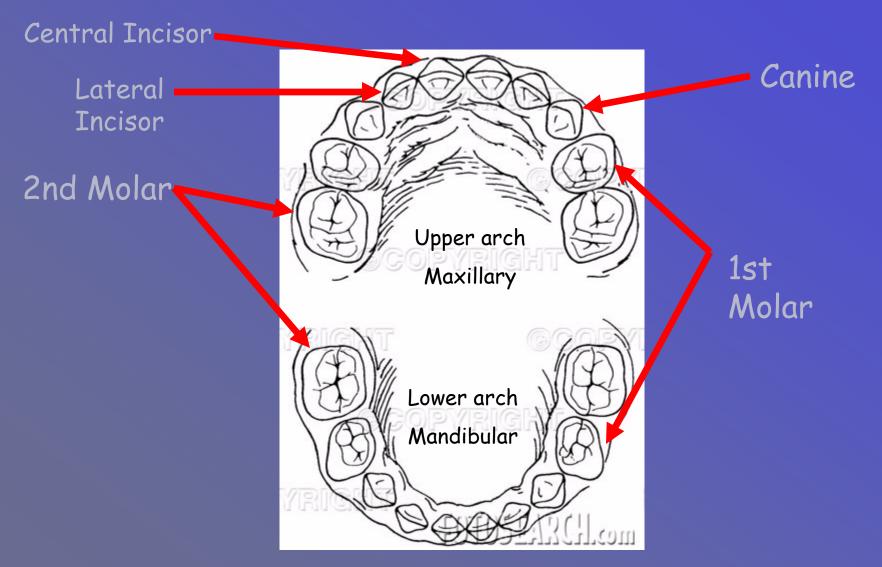
- · Deciduous, primary, "baby"
- · Permanent

Healthy Primary Teeth are Important

- Chewing and nutrition
- Development of the permanent teeth
- Facial structure
- Speech development

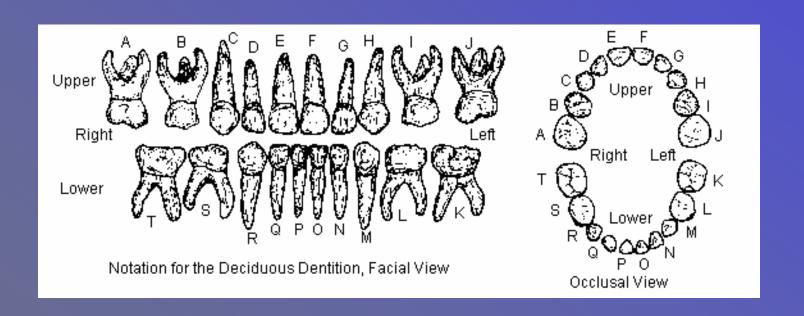


Deciduous Teeth



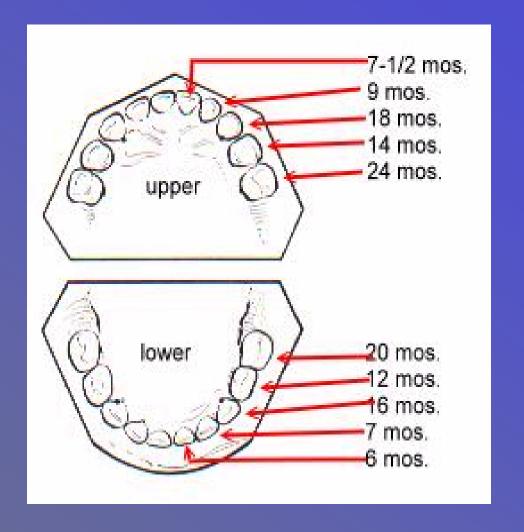
Deciduous Teeth

Notation



Deciduous Teeth

Eruption Schedule



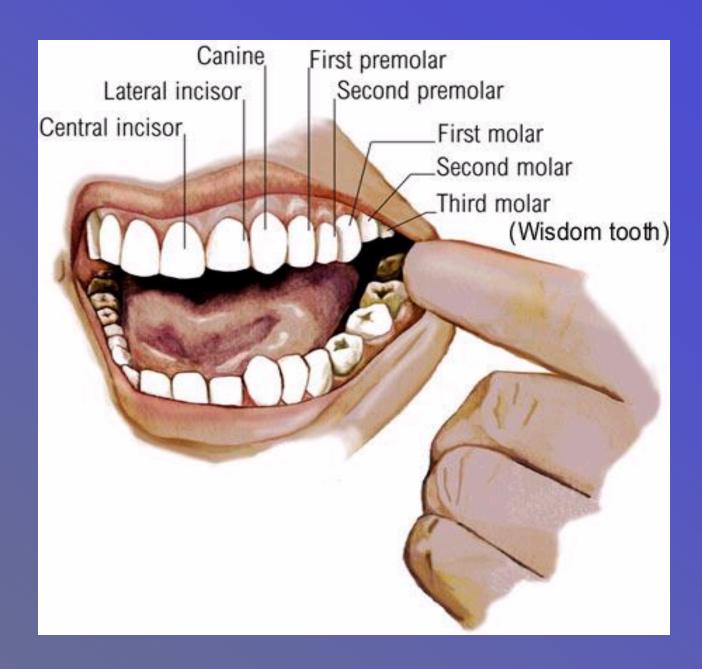
The Primary Arch

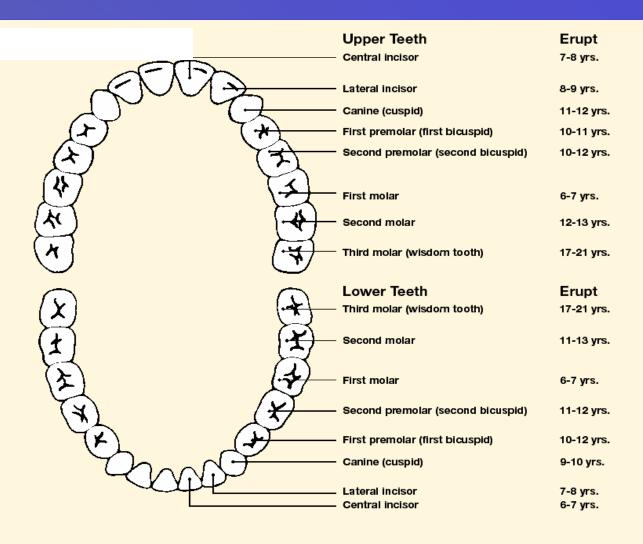
<u>Upper Teeth</u>	<u>ERUP</u>
Central incisor	8-12 m
Lateral incisor	9-13 m
Canine	16-22
1st molar	13-19
2 nd molar	25-33

<u>RUPT</u>	SHED
-12 mos	6-7 yrs
-13 mos	7-8 yrs
-22 mos	10-12 yrs
3-19 mos	9-11 yrs
5-33 mos	10-12 yrs

Lower Teeth

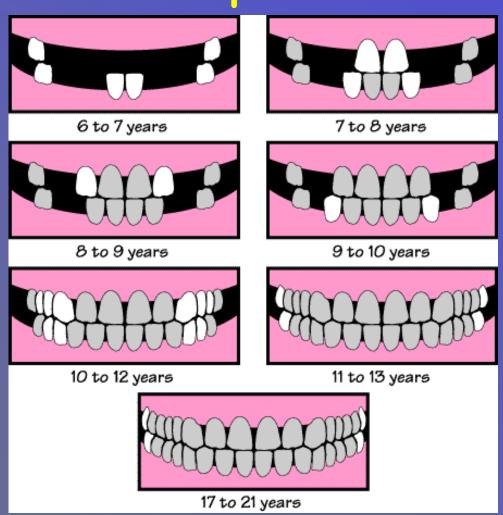
Lower reem		
2 nd molar	23-31 mos	10-12 yrs
1 st molar	14-18 mos	9-11 yrs
Canine	17-23 mos	9-12 yrs
Lateral incisor	10-16 mos	7-8 yrs
Central incisor	6-10 mos	6-7 yrs







Eruption



Function

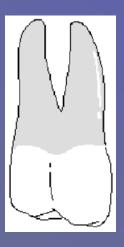
incisors

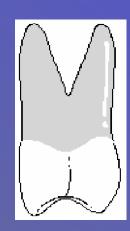


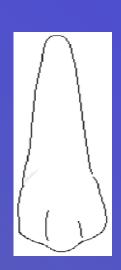
cuspids

bicuspids(premolars)

molars

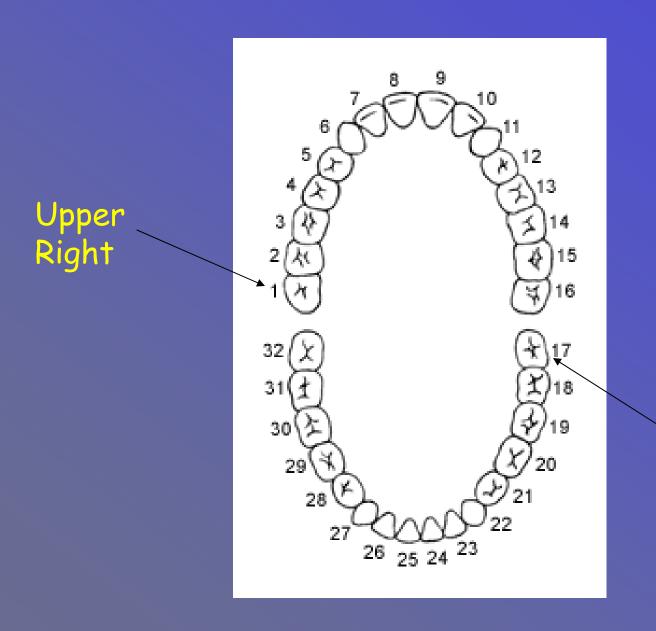






Tooth Numbering System Permanent Dentition

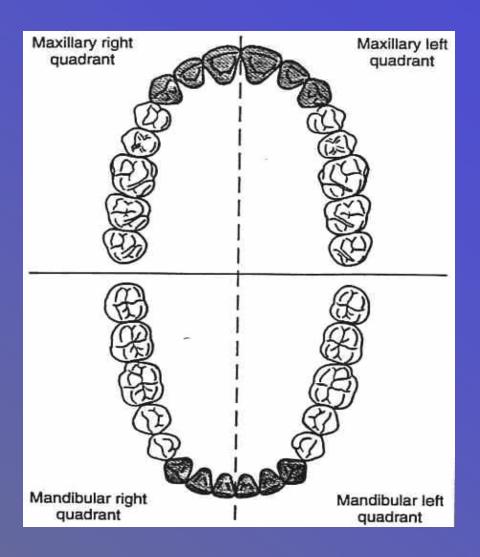
- A number from 1-32 identifies each tooth in sequential order across both arches.
 - Tooth #1 is the upper right third molar, and numbering continues across the upper arch to the upper left third molar, #16.
 - Tooth # 17 is the lower left third molar and this sequence continues around the lower arch to the patient's lower right third molar, #32.



Lower Left

Quadrant

 One of four equal sections into which the dental arches can be divided. Each quadrant begins at the midline of the arch and extends distally (back) to the last tooth.



Tooth Surfaces

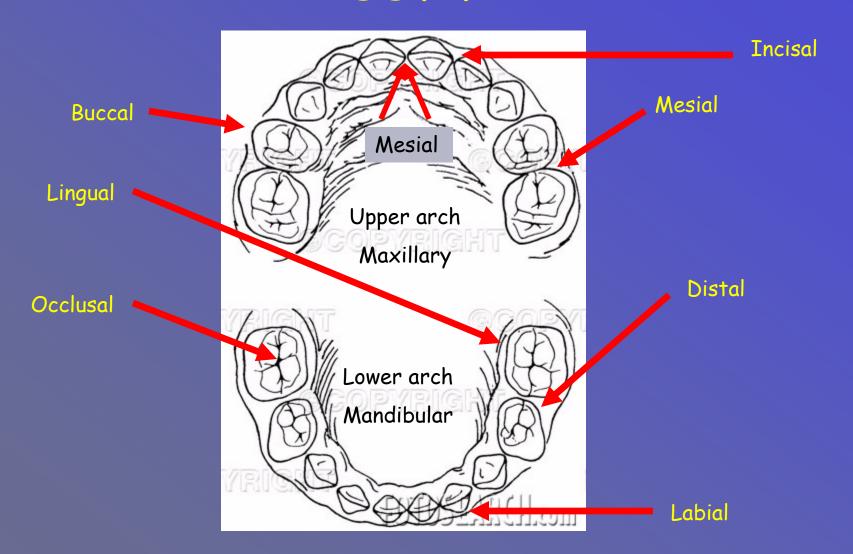


- Mesial: toward the midline of the dental arch.
- Distal: toward the back of the dental arch, away from the midline.
- · Lingual: closest to the tongue.
- Facial: near the cheek:
 - Labial: anteriors
 - Buccal: posteriors

Tooth Surfaces, Cont.

- Occlusal: top (biting) surfaces of premolars and molars.
- Incisal: thin biting surface of incisors and cuspids.

Teeth



Dental disease

Decay

- Contributing factors
- Demineralization
- · Remineralization
- · Fluoride
- Risk assessment
- Management

How Does Decay Develop?

PLAQUE a sticky patch of bacteria,* saliva, food & tissue cells on the tooth.

*Streptococcus mutans

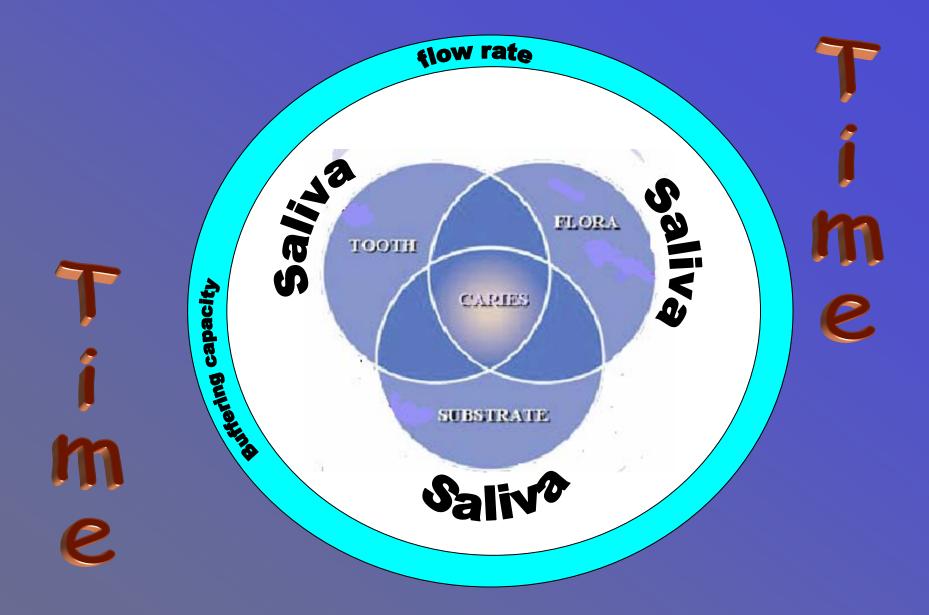
bacteria found in the mouth primarily involved in the decay process.

Food

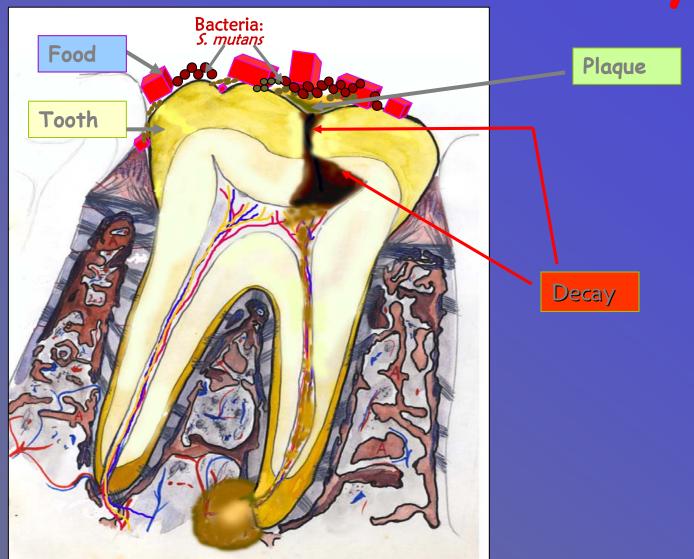
sugars are processed by 5. mutans.

Tooth

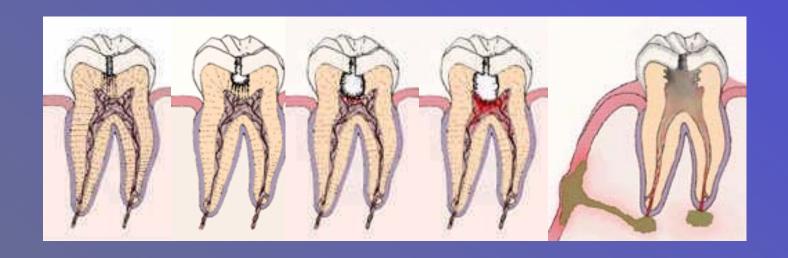
acids are produced and start eating away at the tooth.



Plague + Food + Tooth = Decay



Progression of Decay



Early Childhood Caries ECC

 Presence of 1 or more carious lesions, missing (due to caries) or filled tooth surfaces in any primary tooth in a child 71 months of age or younger

Early Childhood Caries ECC (cont'd)

- 4-20 teeth involved
- Caries that have possibly exposed pulps
- · Possible dental abscesses
- · Acute/chronic pain

Early Childhood Caries ECC (cont'd)

- Higher risk of new carious lesions in both primary and permanent teeth
- Hospitalization and ER visits
- Increased treatment costs and time
- Delay in physical development
- Loss of school days
- Increased days of restricted activity
- Diminished ability to learn
- · Diminished oral health related quality of life

Treatment of ECC

- Multiple stainless steel crowns
- · Composite restorations
- · Extractions
- Space maintainers
- Possibly treatment in a hospital setting

Risk Assessment

"A diagnostic process where clinical, historical and social risk factors are used to determine the likelihood whether a child will have dental disease."

Risk Assessment-Relapse Factor of ECC

- 79%o of ECC children compared w/29% of non-ECC children developed new carious lesions at subsequent recall visits.
- 1/5 of ECC children treated under general anesthesia required retreatment within 2 years.

AAPD Caries Risk Assessment Tool (CAT)

http://www.aapd.org/mem bers/referencemanual/ pdfs/02-03/P_CariesRiskAssess. pdf

	AAPD Carles-	onths past 24 months past 12 months past 12 months I demineralization 1 area of enamel demineralization (enamel caries "white-spot lesions") More than 1 area of enamel demineralization (enamel caries "white-spot lesions")			
Caries-risk indicators	Low risk	Moderate risk	High risk		
Clinical conditions					
	 No carious teeth in past 24 months 				
	 No enamel demineralization (enamel caries "white-spot lesions") 		demineralization (enamel		
	 No visible plaque; no gingivitis 	Gingivitis*	 Visible plaque on anterior (front) teeth 		
			 Radiographic enamel caries 		
			 High titers of mutans streptococci 		
			 Wearing dental or orthodontic appliances? 		
			 Enamel hypoplasia‡ 		
Environmental charact	eristics				
	 Optimal systemic and topical fluoride exposure§ 	 Suboptimal systemic fluoride exposure with optimal topical exposure§ 	 Suboptimal topical fluoride exposure§ 		
	 Consumption of simple sugars or foods strongly associated with curies initiation primarily at mealtimes. 	 Occasional (ie, 1-2) between-meal exposures to simple sugars or foods strongly associated with caries 	 Frequent (ie, 3 or more) between-meal exposures to simple sugars or foods strongly associated with caries 		
	High caregiver socioeconomic status	 Midlevel caregiver socioeconomic status (ie, eligible for school lunch program or SCHIP) 	Low-level caregiver socioeconomic status (ie, eligible for Medicaid)		
	 Regular use of dental care in an established dental home 	 Irregular use of dental services 	No usual source of dental care		
			 Active caries present in the mother 		
General health condition	o ns				
			 Children with special health care needs# 		
			 Conditions impairing saliva composition/flow^{scs} 		

"Although microbial organisms responsible for gingivitis may be different than those primarily implicated in dental caries, the presence of gingivitis is an indicator of poor or infrequent oral hygiene practices and has been associated with caries progression.

†Orthodontic appliances include both fixed and removable appliances, space maintainers, and other devices that remain in the mouth continuously or for prolonged time intervals and which may trap food and plaque, prevent oral hygiene, compromise access of tooth surfaces to fluoride, or otherwise create an environment supporting dehald caries initiation.

\$Tooth anatomy and hypoplastic defects, such as poorly formed enamel, developmental pits, and deep pits, may predispose a child to developmental caries.

§Optimal systemic and topical fluoride exposure is based on the American Dental Association/American Academy of Pediatrics guidelines for exposure from fluoride drinking water and/or supplementation⁴ and use of a fluoride dentifice.

[Examples of sources of simple sugars include carbonated beverages, cookies, cake, candy, cereal, potato chips, French fries, corn chips, pretzels, breads, juices, and fruits. Clinicians using caries-risk assessment should investigate individual exposures to sugars known to be involved in caries initiation.

National surveys have demonstrated that children in low-income and moderate-income households are more likely to have dental caries and more decayed or filled primary treth than children from more affluent households. Also, within income levels, minority children are more likely to have caries. Thus, sociodemographic status should be viewed as a initial indicator of risk that may be offset by the absence of other risk indicators.

#Children with special health care needs are those who have or are 1t increased risk for 1 chronic physical, developmental, behavioral, or emotional condition and who 180 require health and related services of a type or amount beyond that required by children generally.

**Alteration in salivary flow can be the result of congenital or acquired conditions, surgery, radiation, medication, or age-related changes in salivary function. Any condition, treatment, or process known or reported to after saliva flow should be considered an indication of risk unless proven otherwise.

Recommendations for Pediatric Oral Health Care

Recommendations for Pediatric Oral Health Care

will need to be modified for children with special health care needs of the child. needs or if disease or trauma manifests variations from normal

Since each child is unique, these recommendations are designed The American Academy of Pediatric Dentistry (AAPD) for the care of children who have no contributing medical conditions and are developing normally. These recommendations tion and the continuity of care based on the individualized

Age	6-12 months	12-24 months	2-6 years	6-12 years	12 years and olde
Clinical oral examination ¹	•		•	•	•
Assess oral growth and development ²	•	•	•	•	
Caries-risk assessment ³	•				
Prophylaxis and topical fluoride treatment		•	•	•	•
Fluoride supplementation ^{5,6}					
Anticipatory guidance ⁷	•		•	•	
Oral hygiene counseling ^s	Parents/guardians/ caregivers	Parents/guardians/ caregivers	Patient/parents/ guardians/caregivers	Patient/parents/ guardians/caregivers	Patient
Dietary counseling ⁹	•				
Injury prevention counseling ¹⁰	•		•	•	
Counseling for nonnutritive habits ¹³	•	•	•	•	
Substance abuse counseling					
Counseling for intraoral/ perioral piercing				•	
Radiog raphic assessment ¹²					
Treatment of dental disease/injury	•	•	•	•	
Assessment and treatment of developing malocclusion			•	•	
Pit and fissure sealants ¹³			•	•	
Assessment and/or removal of third molars					
Referral for regular and periodic dental care					

http://www.aapd.org/ media/policies.asp

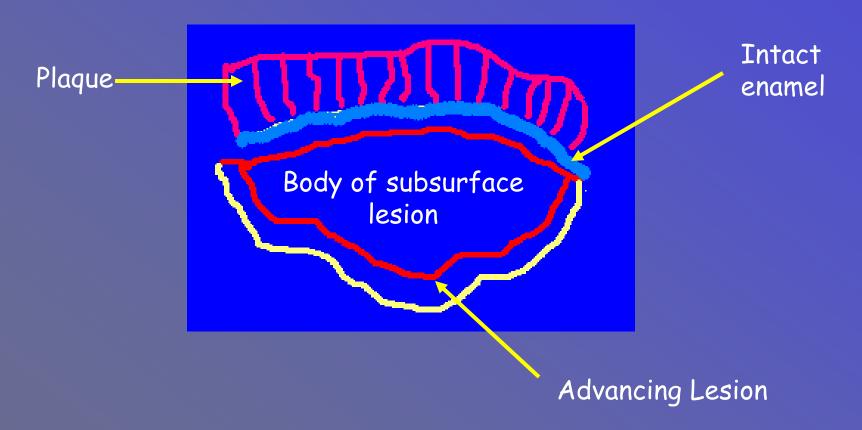
RECOGNIZING EARLY DECAY WHITE SPOT LESIONS

Subsurface demineralization





Subsurface Lesion/demineralization



Remineralization

Plaque Intact enamel Remineralization











Moderate



Baby Bottle Tooth Decay (Nursing Caries)



Severe

Caries Risk Analysis (young children)

- There is visible plaque on the teeth.
- There are cavities, white spots or enamel hypoplastic areas on the teeth.
- · There is a history of decay in the family.
- The child is low birth weight or premature.

Caries Risk Analysis

- · Untreated cavities in last 2 yrs
- · Orthodontics or removable partials
- Reduced salivary flow or medications that reduce saliva
- Frequency of carbohydrate intake
- · Fluoride use

What We Know

- Transmissibility
- Fluoride effectiveness
- Bacterial challenge
- Restoration
- · And...

Breaking the Chain

- Risk assessment
- Early detection
- Fluoride and other antibacterial therapy
- Sealants
- Minimally invasive restorative techniques

ONGOING BALANCE

Protective Factors

Salivary flow Proteins Fluoride

No caries

Pathologic Factors

Strep mutans
Carbohydrates
Reduced salivary flow

Caries



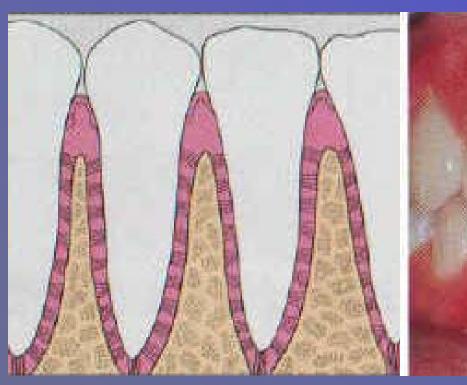
Oral Health Disparities

 Tooth decay is the most prevalent chronic disease of childhood-5 times more frequent than asthma.

 25% of children suffer 80% of all tooth decay.

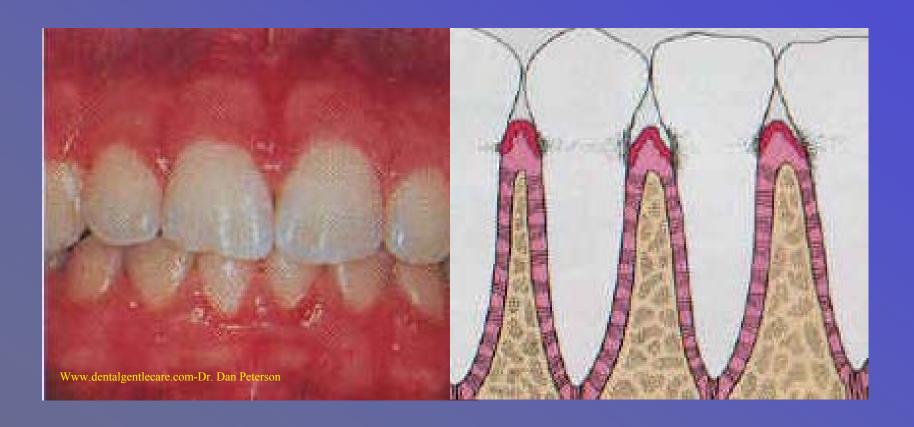
Periodontal Disease

Healthy Gums





Gingivitis

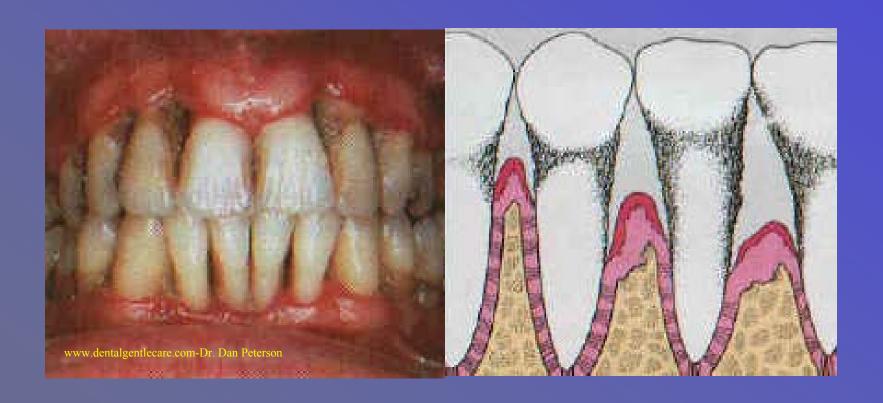


Periodontitis



www.dentalgentlecare.com-Dr. Dan Peterson

Advanced Periodontitis

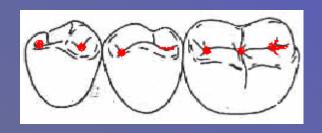


Restoring Carious and Missing Teeth



Black's Classification of Caries

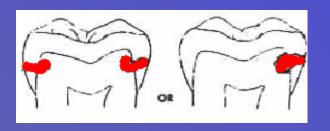
- · Class I.
 - Cavities occurring in pit and fissure defects in occlusal surfaces of bicuspids and molars, lingual surfaces of upper incisors, and facial and lingual grooves sometimes found on occlusal surfaces of molar teeth.



Black's Classification of Caries, cont.

· Class II.

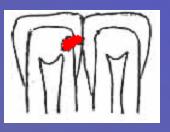
 Cavities in proximal surfaces of bicuspids and molars.



)

· Class III.

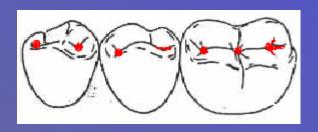
- Cavities in proximal surfaces of incisors and cuspids not requiring removal of incisal angle.

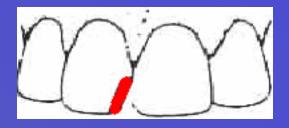


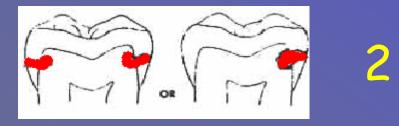
3

Black's Classification of Caries, cont.

- · Class IV.
 - Cavities in proximal surfaces of incisors and cuspids that require removal of incisal angle.
- Class V.
 - Cavities in gingival third of labial, lingual, or buccal surfaces.

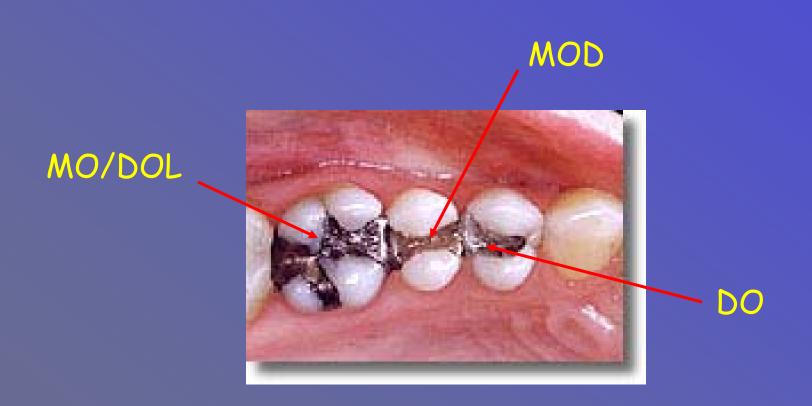








Amalgam Fillings



Composite Fillings







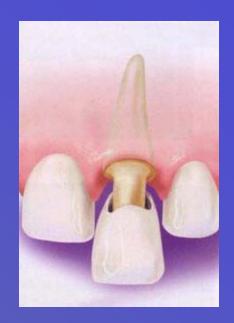




Crowns

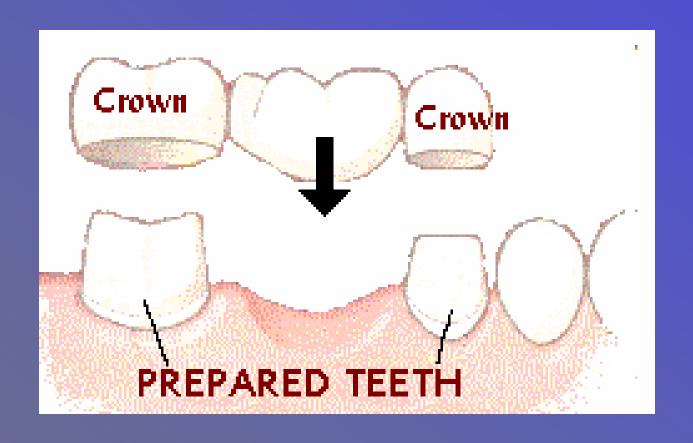






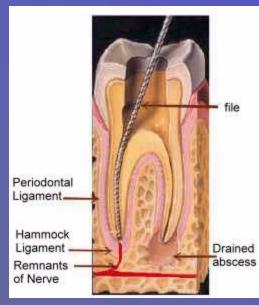


Fixed Bridge



Endodontics root canals







Implants







Partial Denture





Denture







Orthodontics









Orthodontic Assessments

 http://www.dent.ohiostate.edu/orthoresources/cd/index.htm

http://websrvr.dmas.virginia.gov/manuals/den/appendixf_den.pdf. Salzman Index

· Ohio:

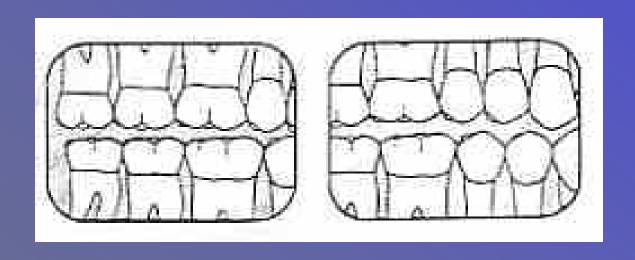
DHS3630);book=

http://emanuals.odjfs.state.oh.us/emanuals/medicaid/DEN/@ebt-link;cs=default;ts=default;pt=3790?target=IDMATCH(ID,O

Diagnosis

Bitewing X-Rays

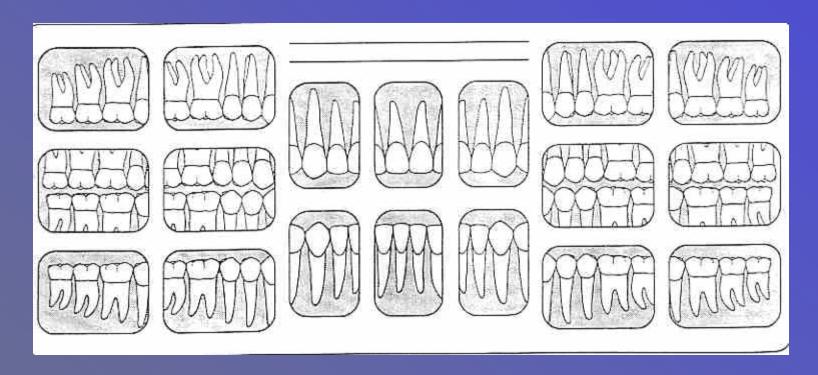
Interproximal view of the coronal portion of the tooth



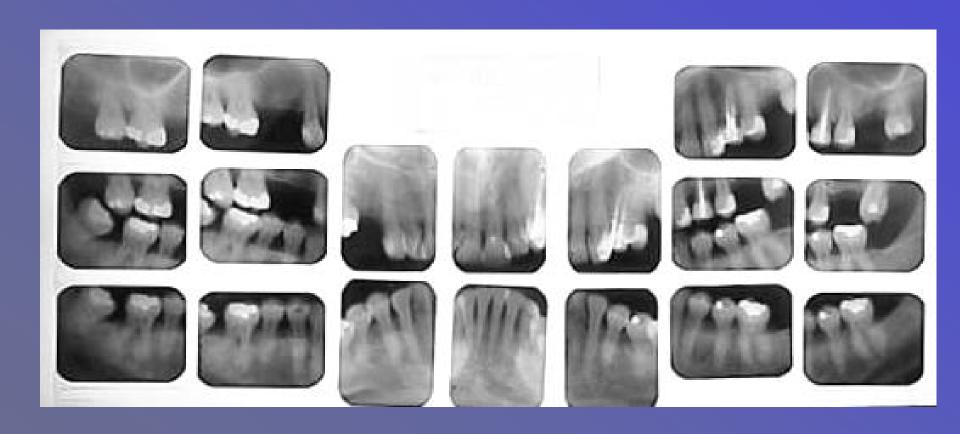
Bitewing Xrays



Full Mouth X-Rays



Full Mouth Xrays



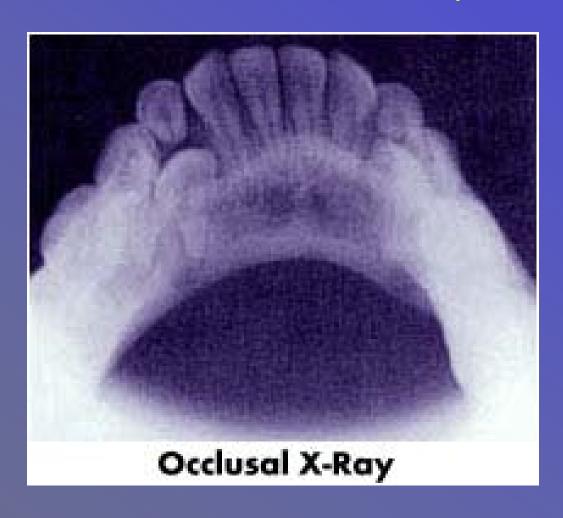
Panorex



Periapical Xrays



Occlusal Xray



Summary-Radiographs

- Bitewing:
- · Full mouth:
- · Occlusal:

- · Panorex:
- · Periapical (PA):

- cavity detecting
 pa's & bitewings
 palate & floor of the
 mouth
- teeth & general area single film, shows root

Transillumination

Transillumination enables you into see fractures, caries, subgingival calculus, root canal openings and more. Transillumination is an easy, inexpensive and fast diagnostic tool you will soon find to be indispensable in your practice!



Laser Fluorescence

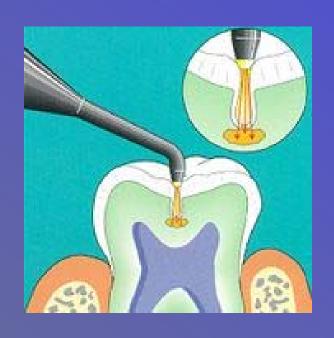


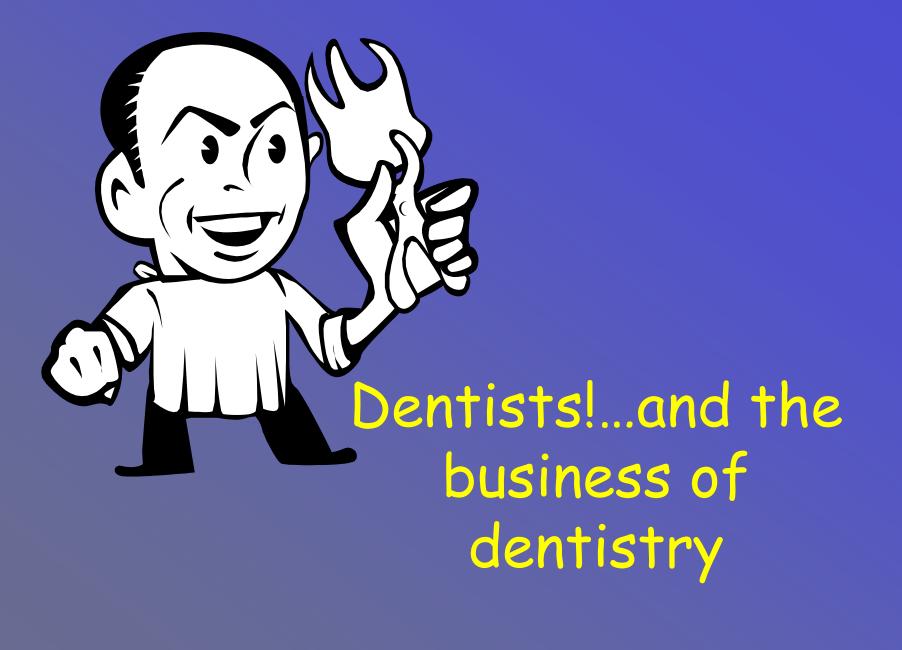


Diagnodent

DIAGNOdent has the great advantage of detecting caries in the very early stage by measuring the laser fluroescence within the tooth structure.

Precise results without x-ray exposure.





Dentist Specialty Boards

- Public Health
- Endodontics
- · Oral and Maxillofacial Pathology
- Oral and Maxillofacial Radiology
- · Oral and Maxillofacial Surgery
- Pedodontics
- Periodontics
- Prosthodontics
- Orthodontics

Dental Specialties

- Endodontics: CDT-5 codes D3000-D3999, the treatment of the pulp and periapical tissues.
- Oral Surgery: CDT-5 codes D7000-D7999, the surgical treatment of the oral/facial region.
- Orthodontics: CDT-5 codes D8000-D8999, treatment related to the jaw, position of the teeth and the oral and facial muscles:
 - Concerned with function and appearance.

Dental Specialties, Cont.

- · Pediatrics: the treatment of children.
- Periodontics: CDT-5 codes D4000-D4999 treatment of diseases of the supporting structures of the teeth.
- Prosthodontics: extensive restorations of teeth using crowns, bridges and replacement of missing teeth:
 - Removable prosthodontics: CDT-5 codes D5000-D5899 restorations that can be removed.
 - Fixed prosthodontics: CDT-5 codes D2710-D2799 & D6200-D6999, are restorations that can not be removed (implant related).

Who They Are

"General Dentist: is an individual who has successfully completed from a dental training leading to a DDS or DMD degree, which qualifies that individual to be licensed to accept the professional responsibility for the diagnosis, treatment management, and overall coordination of services that meet patients' oral health needs, and who has not announced a limitation of practice to any specialty areas recognized by the ADA."

Who They Are (cont'd)

"Pediatric dentistry is an age-defined dental specialty that provides both primary and comprehensive preventive and therapeutic oral health care for infants and children through adolescence, including those with special health care needs.."

Factoids

- 79% Graduates are general practitioners
- · 21% Graduates are specialists
 - Pedodontists < 3% practicing dentists
 - Provide approx. 30% of children's oral health care
 - Provide a disproportionate amount of care to children covered by Medicaid and SCHIP

ADEA Dental Education at a Glance

Number of Dental Residents and Students (Total All Years)										
Dental Stud	lents Den	tal Residents		ntal Hygiene Students Dental Assisting						
Dental Students Dental Residents De		Dental Hygiene	otadents	Students		Technology Students				
17,800)	5,257	14,522)	9,725		609			
	First-Year Students at U.S. Dental Schools									
2003	2002	2001	2000	1999	1998	1997	1996	1995		
4618	4,448	4,407	4,327	4,314	4,268	4,347	4,255	4,237		
Total Applicants to U.S. Dental Schools										
2003	2002	2001	2000	1999	1998	1997	1996	1995		
Est. 7,987	7,537	7,412	7,770	9,010	9,447	9,829	8,872	NA		
	-1	•	Graduates Per	Year in the U.S	. Dental Schools	ļ.				
2003	2002	2001	2000	1999	1998	1997	1996	1995		
4443	4,349		4,171	4,091	4,041	3,930	3,810	3,908		
	•	Numbe	rs of Underrepre	sented Minorit	ies in U.S. Dental S	chools				
Blac	k/African A			Hispanic/Lat	ino	Native American/Alaska Native				
2003	2002	2001	2003	2002	2001	2003	2002	2001		
972 (5.4%)	904 (5.1%	854 (4.9%	1,058 (5.9%)	1,068 (6%)	1,030 (5.9%)	77 (0.4%)	80 (0.4%)	74 (0.4%)		

Specialty Training

U.S. Accredited Dental Residency Training Programs and Stipends 2003*										
Programs	Total 1styr positions	1styr hospi	tal-based position	ns	Total Number of Residents					
726	2,838	1,4			1,423		5,257			
Accredited	Residency Programs	Number o	of Programs	Total Num	ber Residents	1 st year Average		Average Length		
		School	Hospital	School	Hospital	Tuition		(Months)		
Dental Pub	ic Health	10	6	33	10	\$7,765	\$24,807	15		
Endodontic	S	42	9	362	44	\$14,340	\$15,586	25		
General De	ntistry AEGD	45	50	311	354	\$358	\$31,664	13		
General Pra	actice Residency	27	177	148	894	\$458	\$37,772	13		
Oral Maxillo	ofacial (OM) Surgery	43	58	452	431	\$3,273	\$35,748	54		
OM Patholo	ygy	7	5	17	14	\$7,610	\$17,559	37		
OM Radiolo	gy	4	0	13	0	\$11,804	\$8,915	30		
Orthodontic	s/Dentofacial Orthoped	ics 49	9	627	109	\$15,413	\$13,502	29		
Pedia	tric	38	26	368	141	\$7,256	\$30,713	25		
LOHOMOTRIO		43	9	453	54	\$12,676	\$16,315	35		
Prosthodon	tics (all types)	46	17	354	61	\$9,794	\$20,357	31		
Clinical Fell	owship	0	6	0	7					
Totals		354	372	3,138	2,119					
	*Source: 20)02/2003 Survey	of Advanced E	ental Educa)	tion, American D	ental Asso	ociation			

Table 1: Dental Specialties in Minnesota

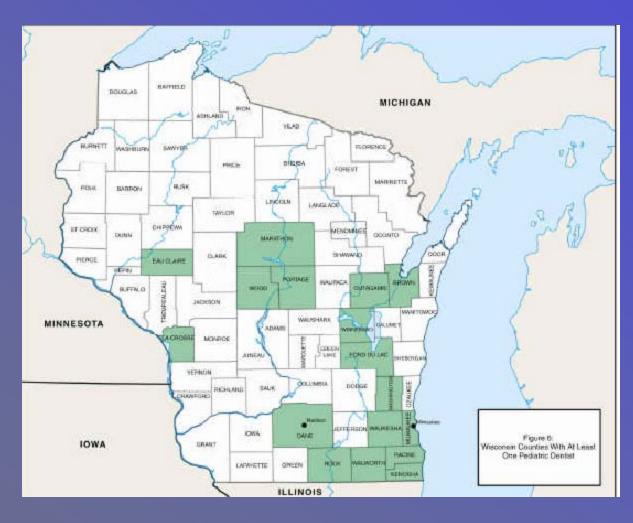
Specialty	Percent	Responsibility
General Dentistry	79.7%	Diagnoses and treats teeth and gums
Orthodontist	6.2%	Straightens teeth
Oral and Maxillofacial Surgeon	3.3%	Operates on mouth and jaws
Endodontist	2.1%	Provides root canal therapy
Pediatric Dentist	2.0%	Diagnoses and treats children
Prosthodontist	1.8%	Makes artificial teeth and dentures
Periodontist	1.6%	Treats gums and bone
Public Health Dentists	0.4%	Prevents and controls dental disease through community- wide efforts
Oral Pathologist	0.3%	Studies oral diseases
Other	2.6%	Not previously listed

Source: Dentist Survey, Minnesota Health Services Personnel Survey, 2001.

Dental Specialists in Kansas, 2000

Endodontics	22	1.7%
General Dentistry	1,075	84.7%
Orthodontics	68	5.4%
Oral Surgery	46	3.6%
Pediatrics	21	1.7%
Public Health	0	0.0%
Periodontics	29	2.3%
Prosthodontics	8	0.6%
Teaching	0	0.0%
Dentist Total	1,269	100.0%

Wisconsin Counties with at Least One Pediatric Dentist



HIPAA Impact

- Standardized code sets (CDT5)
- Standardized electronic billing (837d)
- Movement towards standardized paper claim (ADA2002)

CDT Coding

"Current Dental terminology, fifth edition (CDT-5)...is effective for services provided on or after January 1, 2005...has been designated as the national standard for reporting dental services by the Federal Government under HIPAA..."

CDT Coding

 Diagnostic 	D0100-D0099
--------------------------------	-------------

 Preventive 	D1000-D1999
--------------------------------	-------------

- Endodontics D3000-D3999
- Periodontics
 D4000-D4999
- Prosthetics Removable
 D5000-D5899
- Maxillofacial Prosthetics
 D5900-D5999
- Implant services D6000-D6199
- Prosthodontics, fixed
 D6200-D6999
- Oral and maxillofacial surgery D7000-D7999
- Orthodontics D8000-D8999
- Adjunctive General Services D9000-D9999

ADA. Dental Claim Form				
HEADER INFORMATION				
Type of Transaction (Check all applicable boxes)				
Statement of Actual Services - OR - Request for Predetermination/Preauthorization				
EPSDT/Title XIX				
1				
2. Predetermination / Preauthorization Number	PRIMARY SUBSCRIBER INFORMATION 12. Name (Last, First, Middle Initial, Suffix), Address, City, State, Zip Code			
PRINCE OF THE PR	12. Name (Last, Prist, Middle Initial, Sulfix), Address, City, State, 2lp Code			
PRIMARY PAYER INFORMATION				
3. Name, Address, City, State, Zip Code				
Delta Dental Plan of New Jersey				
PO Box 222				
Parsippany, NJ 07054	13. Date of Birth (MM/DD/CCYY) 14. Gender 15. Subscriber Identifier (SSN or ID#)			

OTHER COVERAGE	16. Plan/Group Number 17. Employer Name			
4. Other Dental or Medical Coverage? No. (Skip 5-11) Yes (Complete 5-11)				
5. Subscriber Name (Last, First, Middle Initial, Suffix)	PATIENT INFORMATION			
	18. Relationship to Primary Subscriber (Check applicable box) 19. Student Status			
Date of Birth (MM/DD/CCYY) 7. Gender 8. Subscriber Identifier (SSN or ID#)	Self Spouse Dependent Child Other FTS PTS			
	20. Name (Last, First, Middle Initial, Suffix), Address, City, State, Zip Code			
Plan/Group Number 10. Relationship to Primary Subscriber (Check applicable box)				
Self Spouse Dependent Other				
11. Other Carrier Name, Address, City, State, Zip Code				
	21. Date of Birth (MM/DD/CCYY) 22. Gender 23. Patient ID/Account # (Assigned by Dentist)			
	M F			
	⊔™ ⊔⁻			
RECORD OF SERVICES PROVIDED				
24. Procedure Date 25. Area 26. 27. Tooth Number(s) 28. Tooth 29. Proced (MM/DD/CCYY) Could Sustem or Letter(s) Surface Code	ure 30. Description 31. Fee			
Cavity Cystem	 			
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9	+ + + + + + + + + + + + + + + + + + + +			
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MISSING TEETH INFORMATION Permanent	Primary 22 Other			
	Primary 32. Other 13 14 15 16 A B C D E F G H I J Fee(s)			
34. (Place an 'X' on each missing tooth)	20 19 18 17 T S R Q P Q N M L K 33.Total Fee			
	20 19 10 17 1 5 N G P O N M E K 33:10tal ree ;			
35. Remarks				
AUTHORIZATIONS	ANCILLARY CLAIM/TREATMENT INFORMATION			
36. I have been informed of the treatment plan and associated fees. I agree to be responsible for all charges for dental services and materials not paid by my dental benefit plan, unless prohibited by law, or	38. Place of Treatment (Check applicable box) 39. Number of Enclosures (00 to 99) Radiograph(s) Oral Image(s) Model(s)			
charges for dental services and materials not paid by my dental benefit plan, unless prohibited by law, or the treating dentist or dental practice has a contractual agreement with my plan prohibiting all or a portion of such charges. To the extent permitted by law, I consent to your	Provider's Office Hospital ECF Other			
information to carry out payment activities in connection with this claim.	40. Is Treatment for Orthodontics? 41. Date Appliance Placed (MM/DD/CCYY)			
У	No (Skip 41-42) Yes (Complete 41-42)			
Patient/Guardian signature Date	42. Months of Treatment 43. Replacement of Prosthesis? 44. Date Prior Placement (MM/DD/CCYY) Remaining			
37. I hereby authorize and direct payment of the dental benefits otherwise payable to me, directly to the below named	No Yes (Complete 44)			
dentist or dental entity.	45. Treatment Resulting from (Check applicable box)			
Y	Occupational illness/injury Auto accident Other accident			
Subscriber signature Date	46. Date of Accident (MM/DD/CCYY) 47. Auto Accident State			
BILLING DENTIST OR DENTAL ENTITY (Leave blank if dentist or dental entity is not submitting	TREATING DENTIST AND TREATMENT LOCATION INFORMATION			
claim on behalf of the patient or insured/subscriber)	53. I hereby certify that the procedures as indicated by date are in progress (for procedures that require multiple visits) or have been completed and that the fees submitted are the actual fees I have charged and intend to			
48. Name, Address, City, State, Zip Code	visits) or have been completed and that the fees submitted are the actual fees I have charged and intend to collect for those procedures.			
	v			
	XSigned (Treating Dentist) Date			
	54. Provider ID 55. License Number			
	56. Address, City, State, Zip Code			
49. Provider ID 50. License Number 51. SSN or TIN	, ,,,			
31.504.0.114				
52. Phone Number () –	57. Phone Number () – 58. Treating Provider Specially			
52. Phone Number () –	57. Phone Number () – Specialty			

Dental Claim Form
©American Dental Association, 1999, version 2000

		atment estimate	Specia	lty (see backside)	3. Carrier Name	Tria	on Bl	ueCross Blu	eShield	- Dental A	dministrat	ive Offices		
Dentist's statement of actual services 2. Medicaid Claim Prior Authorization # 4. Carrier Address				Trigon BlueCross BlueShield - Dental Administrative Offices 555 Middle Creek Parkway - Mail Stop 425										
LEPSD1							do Springs 6. State 7. Zipgngg 1 2054				021.3654			
							Opriliga				CO			
	8. Patient Nam	ne (Last, First, Mi	idde)		9. Address					10. City				11. State
PATIENT	12. Date of Bir	th (MWODYYYY) /	13. Pat	ient D#		14. Sex	□F	15. Phone Nu	mber	•		16. Zip C	ode	•
_		ip to Subscriber/ use □Child □ O				18. Emplo Name		18. Employer Name	School		_Address			
=	19. Subs./Emp	. ID#/SSN#	20. Employe	r Name	21. Gr	oup#		31. Is Patient	covered b	y another plan			32. Policy	r#
							90		□No (Skip 32–37) □Yes: □Dental or □ Medical					
	22. Subscriber	Æmployee Nam	e (Last, First, M	idde)			OTHER POLICIES	33. Other Sub	er Subscriber's Name					
33	23. Address				24. Phone Nun	nber	ER PC		34. Date of Birth [MMODYYYY] 35. Sex			36. Plan/Program Name		
PLO	25. City			26. State	27. Zip Code		E O	37. Employer	rer/School		F			
37 EN								Name			Addre	55		-
SUBSCRIBER/ EMPLOYEE	28. Date of Bir	th (WWOD/YYYY)		29. Marital Status □Married □ Single D	10ther	30. Sex		38. Subscribe		e Status e Status □Ful	Ltime Studen	□ □ Part time S	hident	
UBSC	39. I have bee	n informed of the	treatment plan	and associated fees.	agree to be reso	onsible for a	ıll	40. Employer		e status El Fui			o.o.c.iii.	
S	dentist or dent	al practice has a e extent permitte	contractual agr d under applica	caid by my dental bene reement with my plan p able law, I authorize rek	ncpian, unless in rohibiting all ora ease of any infon	e ueanng portion of si nation relati	uch na	NameAddress				-		
	to this claim.				,			below named	eby authorize payment of the dental benefits otherwise payable to me directly to med dental entity.			recay to the		
	X Signed (Patier	nt/Guardian)		Date	(MM/DD/YYYY)	-		X Signed (Employee/subscriber) Date (MM/DDYYYY)						
	42. Name of B	Silling Dentist or D	Dental Entity			43. Phone	: Num!			44. Provider ID:	#	45. Dentist Soc. Sec. or T.I.N.		T.I.N.
						()			48. First visit date of current 49. Place					
ISI	46. Address					47. Dentist License #			series:	stylistdate of c	irrent	49. Place of tr □ Office □He		□Other
BILLING DENTIST	50. City			51. State 52	. Zip Code			or models encl				s⊡No		
LING	55. If prosthes	is (crown, bridge	e, dentures), is t	his If no, reason fo	r replacement:	□Yes, H		of prior placem						
BIL	initial placeme	nt? □Yes □No											remaining	
	56. Is treatme Brief descripti		pational illness	orinjury? □ No □ Yes				result of: □auto and dates	accident?	0 □ other accide	nt? □ neithe			
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62. I have	62. I hereby certify that the procedures as indicated by date are in progress (for procedures that require multiple visits) or have been completed and that the fees submitted are the actual fees I have charged and intend to collect for those													
proc	edures.								64. City			65.5	State 6	6. Zip Code
X	Let e B				D									

Dental Practice

- · Solo/start-up
- · Associate
- · Income

Start-up Costs-MN

Table 3: Private Practice Start-Up Costs

Type of Expense	"Scratch Practice" (Costs in Thousands)*	Existing Practice (Costs in Thousands)*		
Office Space	\$120 - \$180	50 – 65% of annual gross		
Operatory Equipment	\$60 - \$120	revenues depending on		
Computer, Lab, and Office Supplies	\$30- \$50	practice size and location.		
Totals	\$210 - \$350	\$160 - \$320		

*Costs are approximate average values based on estimations from Shea Practice Transitions, P.A. and calculated from an average gross revenue of \$320,000 for general practitioners and \$490,000 for specialists. A "Scratch Practice" is a practice built from the ground up rather than from a previously existing practice. It is likely that in some rural areas costs of establishing a start-up practice could be much lower depending on the location in the state and whether the practice is set up in space leased from an office building or in a building owned by the dentist.

Associate

General Compensation Formula (Production Based)

Gross Production

- -Adjustments
- -Uncollectibles (Charge Back)

Collections

- -Lab Charges
- -((Professional expenses))

Income Produced

Apply percentage (30% - 35%)

-Professional expenses))

Net (Spendable) Income (before taxes)

Associate-Let's add the numbers

Assume salary based on 30% of collections

Assume 95% collection rate

Assume 10+ percent lab fee rate

Associate-Let's add the numbers

- · If salary desired is \$100,000
- Then \$315,000 needed assuming 95% collection.
- Add \$35,000 to accommodate lab fees.
- Total production of \$350,000 = \$100,000 salary

Dental School Debt

Average Debt Students upon		Aver Debt of Students with Debt upon Graduation			
All Dental Schools	\$118,750	All Dental Schools	\$132,532		
Public	\$ 93,622	Public	\$103,149		
Private/State related	\$147,950	Private/State related	\$167,676		

Medical School Debt

Mean Level of Educational debt for medical school graduates in 2002

- 19% of medical students had no debt
- •\$91,389 for public schools
- •\$123,780 for private schools

www.amsa.org

Dentist/Physician Income Comparison

On average, general dentists in 2000, the most recent year for which comparative data are available, earned \$166,460...

Wall Street Journal April 05: Careers

Dentist/Physician Income Comparison

-compared with \$164,100 for general internal-medicine doctors, \$145,700 for psychiatrists, \$144,700 for family-practice physicians, and \$137,800 for pediatricians. All indications are that dentists have at least kept pace with physicians since then...

Dentist/Physician Income Comparison

ADA estimates work hour per week for dentists approximately 40 hours

AMA estimates work hour per week for physicians 50-55

Income difference is understated





- ·Pay
- · Paperwork
- · Patients



- · Pay
 - -percent
 - percentile
 - capitation
 - -co-pays
 - -coverage



- Paperwork
 - prior authorization
 - claims
 - -coverage



- · Patients
 - attendance
 - compliance
 - complicated

Policy Drivers-The Dark Side-one days schedule



- 12 scheduled, 2 no-shows
- 10 smokers
- 8 taking more than 1 medication
- 2 not taking scheduled medication
- 1 drug seekers



- Dental offices are single owner or small group
- May not have dedicated billing staff/paper shops?

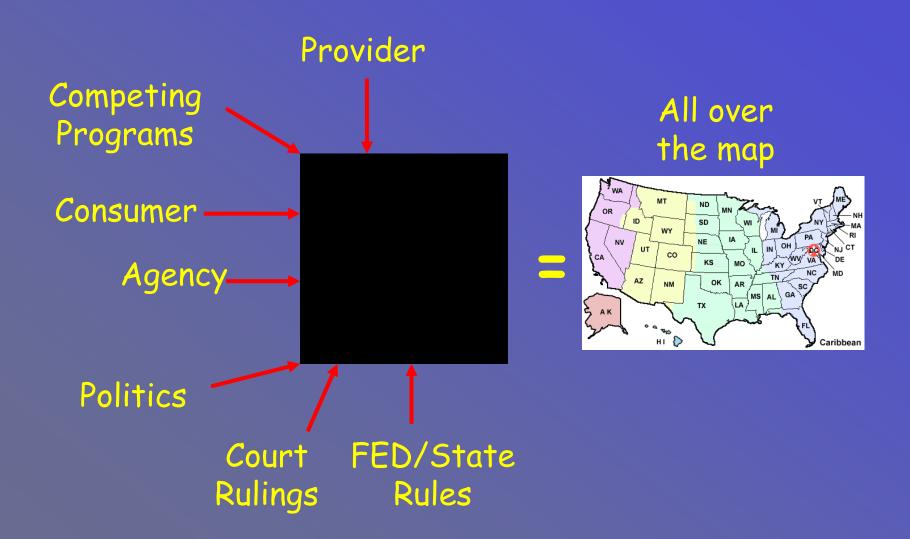


- Service insurance with limited and very defined benefits
- May be cash only business
- Poor electronic interface between office and claims processor

Policy Drivers

- Existing policy
- Budget constraints
- Political drivers-Governor/legislature
- · Fraud and Audit

Reimbursement



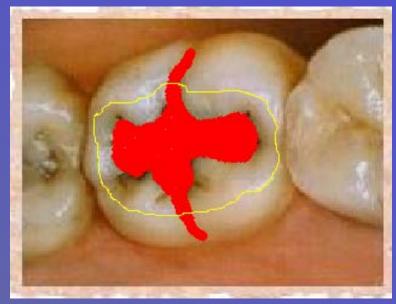
Fraud/Audit

Upcoding

- D7140-extraction, erupted tooth or exposed root (elevation and/or forceps removal.
- Wisconsin fee \$39.37
- D7210-surgical removal of erupted tooth requiring elevation of mucoperiosteal flap and removal of bone and/or section of tooth. Includes cutting of gingiva and bone, removal of tooth structure and closure.
- Wisconsin Fee\$85.54

Upcoding





Occlusal-Billed as OBL D2140-\$32.75

Actual OBL D2160-\$52.67

Avoid Fraud

- Evaluating mobile providers of nursing-home dental care
 - Appropriate services for elderly or edentulous patients compared to services delivered
 - Approximate time required to perform patient care to compare workload and claims volume

Avoid Fraud

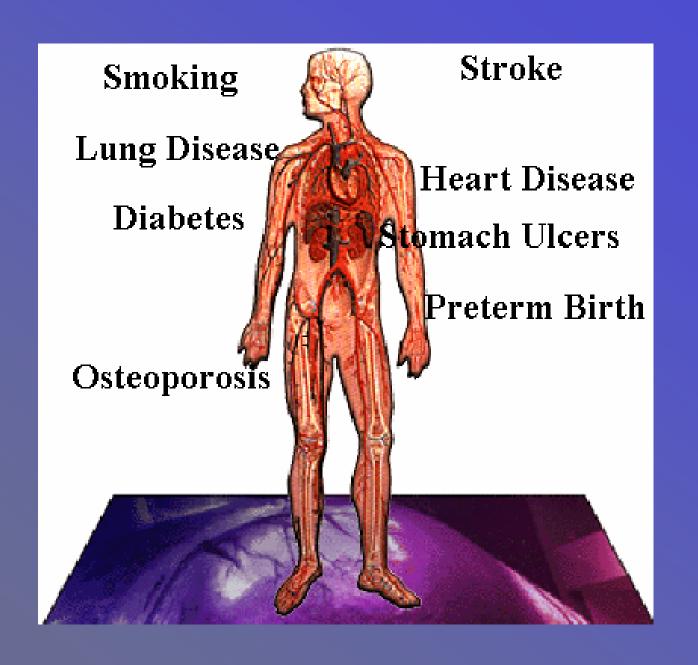
- Clear Policy
- · Objective guidelines/handbook
 - Measurable clinical data
 - » x-rays, crown root ratios, clinical notes
- · Clinical audits
- Post-pay audit

Policy Drivers Existing Thought

 The traditional treatment is repair of the damage produced by the disease without identification of the causative agent. We are only treating the terminal end of the disease!

Policy Drivers

- Evidenced base
- · Outcome based
- · Disease management
- Clinical and utilization data



Examples of Use of Basic Clinical Knowledge in Policymaking

- Reimbursing fluoride varnish applied in primarycare settings
 - Dental disease process, role of fluoride
 - Development of primary and permanent dentition
 - Patient utilization of medical vs. dental care for very young children
 - Cost of fluoride vs. treatments for decayed primary teeth (e.g. prefab SSC crowns, sedation)

Examples of Use of Basic Clinical Knowledge in Policymaking

 Cost of urgent/emergent care in nondental settings

Examples of Use of Basic Clinical Knowledge in Policymaking

- · Other health costs related to lack of dental services
 - low birth outcomes
 - aspiration pneumonia in medically compromised patients
 - diabetes
 - heart disease
 - ?

Medicaid Systems & Provider Billing

- Standardized code set (CDT5)
- Make Medicaid policies for billing as close to those of private dental insurance as possible
- Keep
 handbook/policies
 updated,
 communicate
 changes to staff
- Communicate eligibility requirements/ changes to billing and registration staff





Overcoming obstacles to access

Urgent Care Dental In-State Emergency Provider Data Sheet

- Mechanism for non-certified providers to provide urgent care
- Intended to alleviate an urgent need, not limited to one tooth
- Intended to reduce backlog of urgent needs
- Complete data sheet/ADA claim form

DEPARTMENT OF HEALTH AND FAMILY SERVICES

HCF 11013 (Rev. 01/04)

Division of Health Care Financing

WISCONSIN MEDICAID

STATE OF WISCONSIN

URGENT CARE DENTAL IN-STATE EMERGENCY PROVIDER DATA SHEET

Wisconsin Medicaid requires information to enable Medicaid to provide temporary certification and to authorize and pay for dental services provided to eligible recipients.

A Dental Provider's personally identifiable information is used for purposes directly related to Medicaid administration such as determining the temporary certification of providers or processing provider claims for reimbursement. Failure to supply the information requested by the form may result in denial of Medicaid payment for the services.

You are considered a Medicaid provider only for purposes of the care provided to the recipient indicated below on the date indicated below ("the care"). By submitting a bill for Medicaid payment for the care, you agree to keep records disclosing the extent of the care and Medicaid payments claimed for the care and, upon request, to furnish to state or federal Medicaid authorities any such records. Under state and federal laws, by accepting Medicaid payment for the care you are prohibited from seeking payment from the recipient, or other person on behalf of the recipient, even if there is a difference between your normal charge and the Medicaid payment for the care.

INSTRUCTIONS: Complete this data sheet for whoever performed dental services on a Wisconsin Medicaid recipient. This is required in order to submit claims for urgent dental services. Attach this data sheet to ADA 2000 or CMS 1500 claim form.

In order to be reimbursed for services provided, Wisconsin Medicaid must receive correct and complete claims, including resubmissions and adjustments, within 365 days from the date of service.

Submit completed form with attachments to:

Wisconsin Medicaid In-State Emergency Claims 6406 Bridge Rd Madison WI 53784-0011

Important: For a provider to be paid for services, the provider must verify recipient eligibility. This can be done by calling the Eligibility Hotline at (800) 947-9627.

Name — Provider		Telephone Number — Provider
Address — Provider (where services	ire rendered)	
Name — Payee (to whom checks are	made payable)	
Address — Payee (where checks are	to be sent)	
Payee's:	ntification/IRS Number	
License Number		
Name — Recipient	Recipient	t Medicaid Number
(our) licensure. I understand that any	alse claims, settlements, documents, or	tient's health. The services are within the scope of my concealment of material fact may be prosecuted under ge the information presented here is accurate and
SIGNATURE — Provider or authorize	d agent of institution	Date Signed
If you have any questions, call Wisco	sin Medicaid Provider Services at (800)	947-9627. Poset Form

"It's easy!"



CODE	DESCRIPTION	
D0140	Limited oral evaluation — problem focused	
D0220, D0230	Intraoral — periapial first films	
D0250	Extraoral first	
D0260	Extraoral — each additional film	
D0270	Bitewing-single film	
D0330	Panoramic film	
D2140-D2394	Restorative services	
D2930	Prefabricated stainless steel crown — primary tooth	
D2931	Prefabricated stainless steel crown — permanent tooth	
D2932	Prefabricated resin crown	
D2940	Sedative filling	
D3220	Therapeutic pulpotomy (excluding final restoration) — removal of pulp coronal to the detinocemental junction and application of medicament	
D3221	Gross pulpal debridement, primary and permanent teeth	
D9110	Palliative (emergency) treatment dental pain — minor procedure	
D5510	Repair broken complete denture base	
D5520	Replace missing or broken teeth — complete denture (each tooth)	
D5610	Repair resin denture base	
D7111, D7140	Extractions	
D7210, D7220, D7230, D7240	Surgical extractions	
D7250	Surgical removal of residual tooth roots (cutting procedure)	
D7260	Oroantral fistula closure	
D7270	Tooth reimplantation and/or stabilization of accidentally evulsed or displaced tooth and/or alveolus	
D7510	Incision and drainage of abscess — intraoral soft tissue	
D7520	Incision and drainage of abscess — extraoral soft tissue	
D7610- D7780	Treatment of fractures	
D7820	Closed reduction of dislocation	
D7830	Manipulation under anesthesia	
D7910- D7912	Sutures	
D9220	General anesthesia — first 30 minutes	
D9248	Non-intravenous conscious sedation	
D9241	Intravenous sedation/analysis — first 30 minutes	
D9420	Hospital call	



Websites

- http://www.aapd.org/media/policies.asp
- http://dhfs.wisconsin.gov/Medicaid/index. htm?ref=hp
- http://www.wphca.org/Wisconsin%20MA% 20Dental%20Facts%2003.pdf

Wisconsin Medicaid and BadgerCare Information for Providers

To: Dentists HMOs and Other Managed Care Programs

Wisconsin Medicaid accepting ADA 2002 and 2000 claim forms

Effective immediately, Wisconsin Medicaid accepts the ADA 2002 and 2000 claim forms. Wisconsin Medicaid does not accept claims on the ADA 1994 claim form; claims submitted on this claim form are denied.

ADA 2002 and 2000 claim forms now accepted by Wisconsin Medicaid

Effective immediately, Wisconsin Medicaid accepts the American Dental Association's ADA 2002 and 2000 claim forms. Submit completed claims according to the instructions specific to the claim form. Refer to Attachments 1-4 of this Wisconsin Medicaid and BadgerCare Update for the ADA 2002 and 2000 claim form completion instructions and sample claims.

The ADA 2000 claim form instructions are included as a convenience for providers and do not replace the information in the July 2003 *Update* (2003-50), titled "Changes to local codes, paper claims, and prior authorization for dental services as a result of HIPAA." Providers should retain *Update* 2003-50 for their reference.

Wisconsin Medicaid's claim instructions vary from the ADA instructions. The variations are necessary for Wisconsin Medicaid to process claims. Providers are required to complete the elements in the Wisconsin Medicaid instructions found in Attachments 1 and 3 as appropriate. No other claim form elements are required. In addition, providers are not required to include attachments to the claim form unless instructed to do so in the Dental Services Handbook.

Mail completed paper claims to:

Wisconsin Medicaid Claims and Adjustments 6406 Bridge Rd Madison WI 53784-0002

Note: As stated *Update* 2003-50, Wisconsin Medicaid does not accept the ADA 1994 claim form. Claims submitted on this claim form are denied.

Order ADA claim forms

Wisconsin Medicaid does not provide the ADA claim forms. To order the ADA 2002 or 2000 claim forms, do one of the following:

- Call the American Dental Association at (800) 947-4746.
- Order online at www.adacatalog.org/.

Thank-you!

Robert Dwyer, DDS
Chief Medical Officer
Division of Health Care
Financing
dwyerra@dhfs.state.wi.us
608.264.6754

