Basic Screening Survey (BSS) Triaging

Clinical Training for School Dental Sealant Programs August 2023



What is **BSS**?

- Developed by ASTDD and Ohio Dept. of Health
- Used for standardized oral health surveillance
- Not recommended for research



BSS Populations

• Pre-school populations (Including early Headstart and Headstart students)

> Outreated decay (includes active and potentially arrested carious lesions

oTreated decay

oTreatment urgency



BSS Populations

- Older Adults
 - Dentures and denture use
 - Number of natural teeth
 - Untreated decay
 - Root fragments
 - Need for periodontal care
 - Suspicious soft tissue lesions
 - $\,\circ\,$ Urgency of need for dental care



BSS Populations

- School Age (Kindergarten 12th grade)
 - Untreated decay
 - Treated decay
 - Potentially arrested decay
 - Sealants on permanent first and/or second molars
 - O Urgency of need for dental care



Triaging Appropriately

- Triage categories 0, 1, 2

 Numbering based on CDC SEALS* categories
- Triaging for your program Use BSS**

 Then develop "program-specific" protocols for students who triage as a "1" but really need to see a dentist soon.
- Reporting to parents Use OBD*** – Required by law

*SEALS: Sealant Efficiency Assessment for Locals and States **BSS: Basic Screening Survey ***OBD: Oregon Board of Dentistry

Acknowledgment

This following slides are the work of the Association of State and Territorial Dental Directors (ASTDD) who developed the slide deck.

Drs. Eugenio Beltran, Margaret Fontana, Amid Ismail, John Warren, and John Zimmer for provided the clinical photos. (May 2021)







A measure of untreated disease Does this child have any <u>cavities</u> that have not been treated?



- A tooth has untreated decay when you can easily see breakdown of the enamel surface
- Only <u>cavitated</u> lesions are considered untreated decay







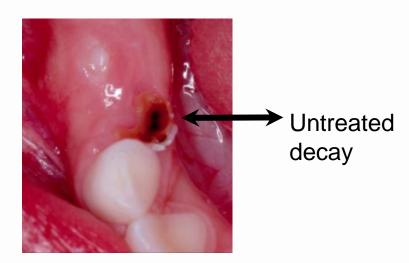
Pits & Fissures



Smooth Surface



• Retained roots = untreated decay





Proximal Surface Decay





NOT Untreated Decay

 Broken fillings without recurrent decay are coded as treated not untreated decay





NOT Untreated Decay

 Teeth with stained pits & fissures and NO enamel break are considered sound



This tooth has stain but NO enamel break, so it is SOUND.



NOT Untreated Decay

• "White spot" lesions are not untreated decay



These teeth have "white spots" but no break in the enamel surface. Do not code as untreated decay.



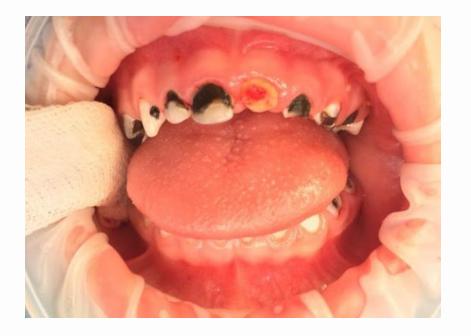
 SDF may be considered potentially arrested or untreated decay



Untreated = Yes

?





Confirming arrested decay requires a probe to determine if the surface is hard. The BSS does not use probes so the determination of arrested is based on a visual assessment only



- Break in enamel but surface appears hard, dark and glossy
- Usually due to SDF treatment





Examples









Codes for Potentially Arrested Decay

No = student has no potentially arrested decay

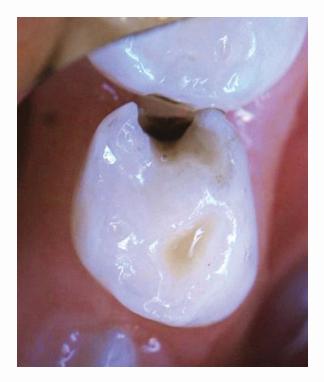
Yes = student has potentially arrested decay

- Can be coded as:
 - Primary only
 - Primary + Permanent
 - Permanent only

















Rule of Thumb

When in doubt, rule it out. If you are not sure if a cavity is present, assume it is not.



A Few Examples

Second step: Discoloration Assessment	Universal Visual Scoring System for pits and fissures (UniViSS occlusal) First step: Lesion Detection & Severity Assessment					
	of a caries lesion Score F			reated Decay = Yes		Pulp exposure
		Score E	Score M	Score D	Score L	Score P
Sound surface (Score 0)	No cavitations or discolo	prations are detectable.				
White (Score 1)		CO.	(Jest)			
White-brown (Score 2)			in the second seco		R	
(Dark) Brown (Score 3)	S	AL.				
reyish translucency (Score 4)				(A		$\mathbf{\mathbf{X}}$

Source: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2760425/</u>, accessed April 2021



White Discoloration







Not visible without prolonged air drying Untreated decay = NO

May be visible without drying, fissures appear wider but no "break" in enamel integrity Untreated decay = NO Has definitive break in enamel surface Untreated decay = YES



White-Brown Discoloration



Not visible without prolonged air drying Untreated decay = NO





Has definitive break in enamel surface Untreated decay = YES



Dark Brown Discoloration



Visible without air drying, stain Untreated decay = NO Visible without air drying, stain Untreated decay = NO



Has definitive break in enamel surface Untreated decay = YES



Codes for Untreated Decay

Coded as 1- Early

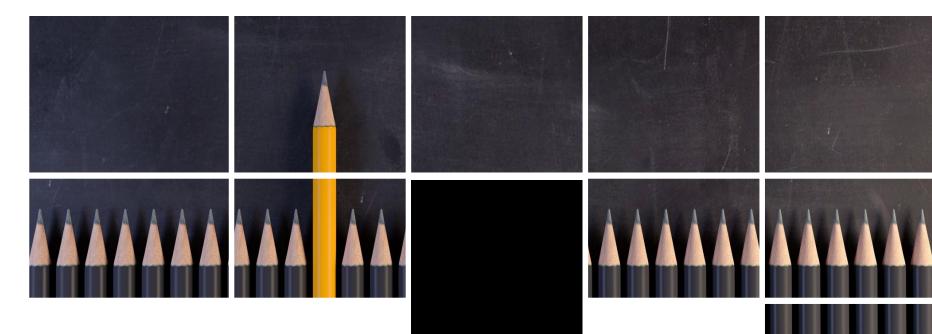
Yes = child has untreated decay

Coded as 2 - Urgent









Special Circumstances



Developmental Defects of the Enamel





Opaque Defect Untreated = No Pitted Defect Untreated = No



Generalized Lack of Enamel



7-year-old Untreated decay = No



Pitted Enamel Defect



8-year-old Untreated Decay = No



Molar-Incisor Hypomineralization



Source: https://jada.ada.org/article/S0002-8177(20)30160-4/fulltext



Enamel Defects & Decay



Untreated Decay = Yes



Enamel Defects & Decay



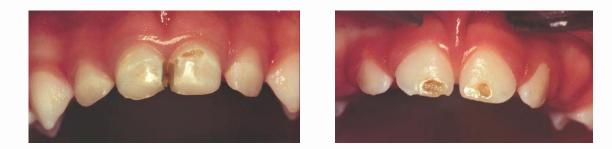
Linear defect Untreated Decay = No



Linear defect plus decay Untreated Decay = Yes



Enamel Defects & Decay





Untreated Decay = Yes



- Three levels based on how soon a child should visit the dentist for a clinical diagnosis and any necessary *restorative dental care*
 - Urgent need
 - Early care needed
 - No obvious problem (None)



- Urgent need
 - Needs dental care within the next week because of signs or symptoms that include *pain*, *infection, or swelling*
 - A child with an abscess should always be coded as urgent
 - Even if the abscess is draining





This person has an abscess, so they need URGENT care - 2





This child has a draining abscess and should be coded as URGENT care- 2



- Early dental care 1
 - Needs to see a dentist because of untreated decay or broken restorations but they do not have pain or an infection
 - Should see a dentist within the next several weeks or before their next regularly scheduled dental appointment





This child needs EARLY dental care - 1



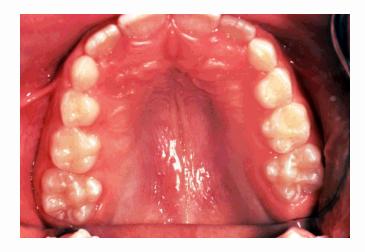
No obvious problems - 0

 Children with no cavitated decay or other dental problems requiring early attention are considered to have no obvious problem, which means that they should receive routine dental checkups



- No obvious problems- 0
 - Decay only on primary teeth about to be exfoliated
 - Child can have decayed teeth but not need treatment
 - Children needing only a prophy or another preventive service should be coded as having no obvious problems





This child has no obvious need for dental care - 0



Codes for Urgency of Need for Dental Care

Early = needs early dental care

Coded as 1

Urgent = needs urgent dental care

Coded as 2



Triage Review



#1: No pain, no abscess





#2: No Pain, no abscess





#3: No pain, no abscess





#4: No Pain, no abscess





#5: No pain, no abscess





#6: No pain





#7: No Pain, no abscess



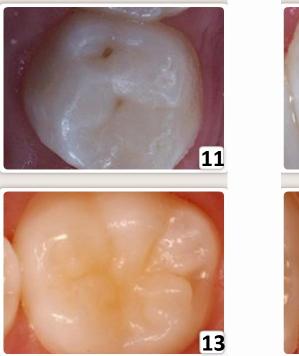


#8: No pain, no abscess





#11-#14: No pain, no abscess







#15: No pain, no abscess



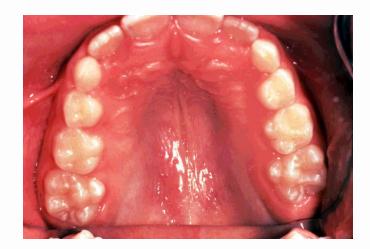


#16: No pain, no abscess





#17: No pain, no abscess





#18: No pain, no abscess





#19: No pain, no abscess





Parent "Results" Letter

- By law, if a screening occurs, parents/guardians are to receive a letter regarding their child's screening results.
- Put your "clinical hat" back on.
- Information on parent letter does not need to match information on screening form.
- You may add a written note to the parents never critical, but helpful suggestions. (e.g. "There are signs of early problems. Johnnie needs some help brushing at the gum line.")



Oregon Board of Dentistry (direct quote)

 "The OBD adopted specific language that must be on any Oral Health Screening Form that would be given to individuals or parents or guardians of minors who would be screened."

"The following is the language and would need to be on any Oral Health Screening Form that would be used by **any Oregon Dental Hygienist or Dental Assistant in compliance with Oregon Law**."



Oregon Board of Dentistry (direct quote)

This is an oral health screening for ______. A screening is just a quick look and does not take the place of a thorough examination by a dentist. Serious oral health problems may be missed in a screening. The person doing the screening may or may not have any dental training. [*Dental Hygienists or Dental Assistants may omit the previous sentence.*]

- No visible signs of oral problems. See your dentist at least yearly.
- Visible signs of oral problems were found. A visit to a dentist is recommended to prevent serious or more costly problems.
- Visible signs or symptoms of serious dental needs were found. An immediate visit to a dentist is recommended.

https://www.oregon.gov/dentistry/pages/faq-licensees.aspx



Questions?

