Dental Pilot Projects Program: Technical Assistance in Adverse Event Reporting Requirements

March 9th, 2020 Webinar

Sarah Kowalski, RDH, MS, OHA Oral Health Program Rose McPharlin, DDS, OHSU School of Dentistry



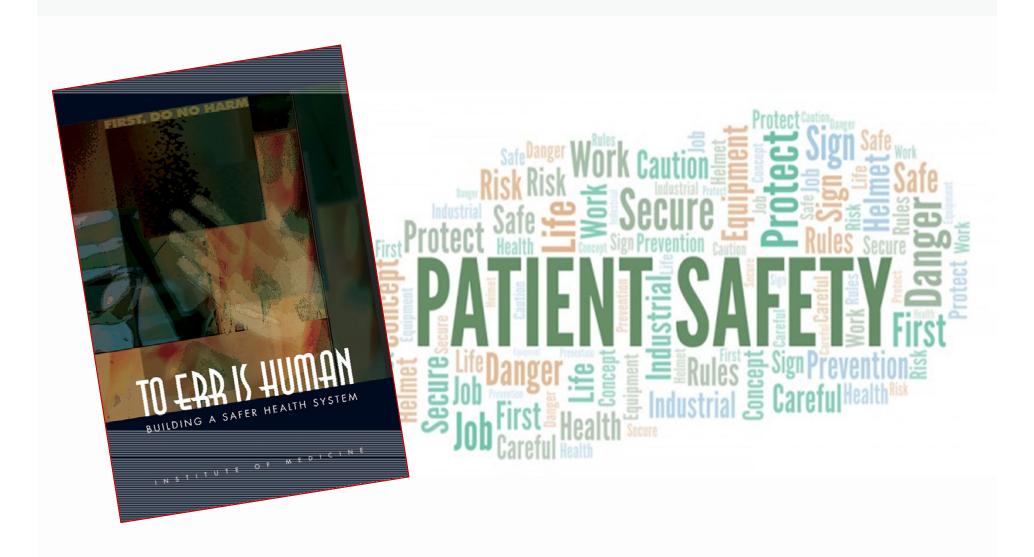
Oral Health Program
Public Health Division

Dental Pilot Projects Program: Technical Assistance in Adverse Event Reporting Requirements

- Recognize differences in Adverse Events (AE) and Quality of Care
- Understand Adverse Event Reporting Requirements for Dental Pilot Projects
 - Identify when to report AE and where to report









What is an Adverse Event (AE)?

- Adverse events are incidents of "physical harm that are due to treatment within a timeframe relevant to the clinical scenario"
 - The goal is to identify the Adverse Event (AE).
 - It is not relevant to determine or assign fault or blame to recognize that an Adverse Event (AE) occurred.

Example: Patient moved and explorer fell into a patient's eye.

An AE occurred

Adverse Events vs Quality of Care

- Past confusion between Adverse Events and Quality of Care concerns in pilot projects
- Adverse Event system is objective
- Objective system = less ambiguity for the program and projects, provides clarification, less misinterpretation of information



Adverse Events vs Quality of Care

Examples of Dental Adverse Events

- · Painful dry socket
- Perforation of tooth due to endodontic treatment
- Pain following extraction/RCT without proper pain management
- Wrong tooth extraction
- RCT on wrong tooth
- Paresthesia following a dental procedure
- Death due to overdose of anesthesia
- Tissue necrosis due to bleaching or rubber dam clamp
- Allergic reactions to dental materials
- Laceration of lip/tongue/cheek during dental procedure





Adverse Events vs Quality of Care

Poor Quality of Care

- Chart Omissions/inadequate documentation
- Poor or no images
- Bad margins, overhangs that do not cause ST damage
- Porous material
- Non-retentive restorations
- Open contacts
- Caries remains
- Heroic Dentistry (dentistry that has poor prognosis for longevity)
- Errors



Adverse Events (AE)

of Car/

AE's are when a patient is physically harmed...

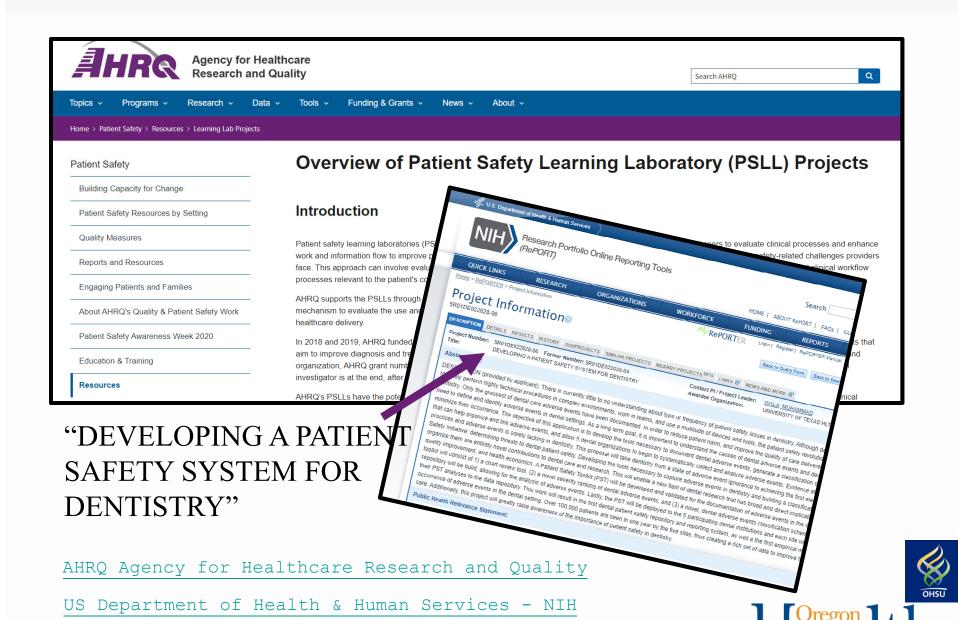
Yes!...so we need an objective system to determine the severity of the AE...

It's confusing to say an AE occurred without context! This is good for everyone! We need to define when a serious AE happened vs mild-temporary AE! Big differences between the two!

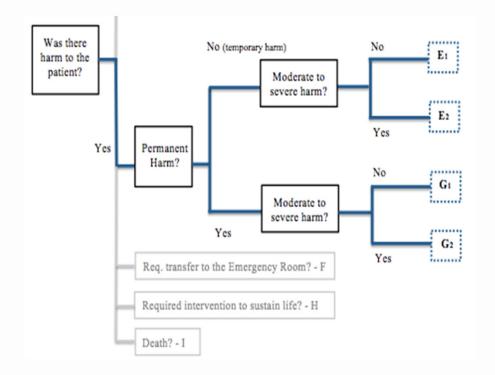




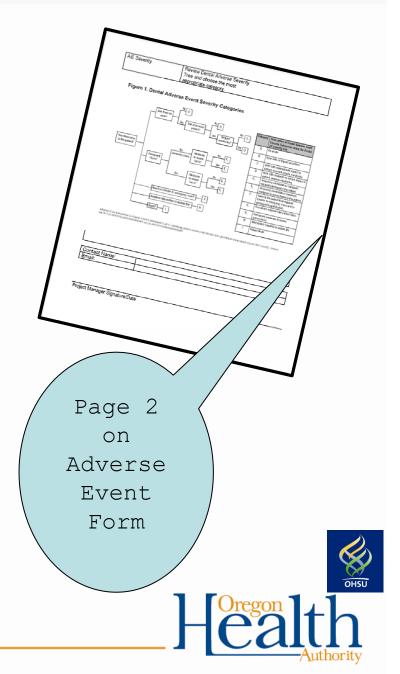




Severity Tree



Kalenderian, E., Obadan-Udoh, E., Maramaldi, P., Etolue, J., Yansane, A., Stewart, D., & ... Walji, M. F. (2017). Classifying Adverse Events in the Dental Office. Journal of Patient Safety.



Adverse Events may be categorized by severity in relation to **patient harm**.

- Adverse Events or Suspected
 Adverse Events that classified
 as E1: Temporary (reversible or
 transient minimal/mild harm to
 the patient) must be reported in
 the Quarterly Progress Reports.
- Adverse Events or Suspected
 Adverse Events that classified
 as E2 or greater, must be
 reported to OHA the day they
 occur or are found to have
 occurred.

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Category	Description of Dental Adverse Event Severity Categories using the Dental AE severity tree	
Α	No errors	
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F	Harm to the patient that required transfer to emergency room and/or prolonged hospitalization	
G,	Permanent minimal/mild patient harm	
G ₂	Permanent moderate to severe patient harm	
Н	Intervention required to sustain life	
	Patient death	



Quarterly Reporting

- Report Adverse Events (AE) **E1** in the quarterly reports.
- Provide a description of each Adverse Event determined during the current reporting period to the Oregon Health Authority.
- See "Quarterly Progress Reporting Requirements" document from OHA.

E1: Temporary
(reversible or
transient
minimal/mild
harm to the
patient)

MARTERLY

REPORTS







Goal is to identify Adverse Events

- Not blame patients, providers, etc.
- Ultimate goal is improve patient safety

Improve Patient Safety!

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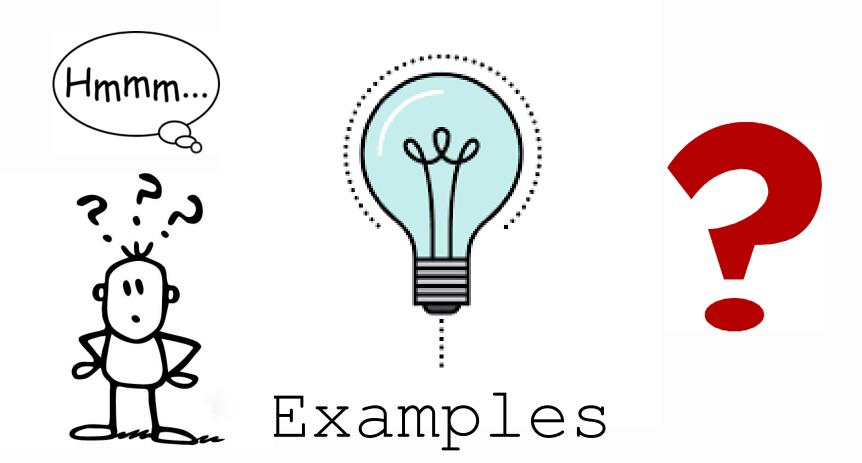
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- Report Adverse Event's that occur for patient's treated under the umbrella of the Dental Pilot Project Program
- Administrative Rules 333-010-0760 require reporting of Adverse Events
 - E1 on quarterly report
 - E2 or greater on Adverse Event Reporting Form







Scenario

Clinic Scenario: Patient is an 6 year old child. Patient receives dental treatment involving local anesthesia of the inferior alveolar nerve. Patient tolerates procedure well. Parents call the next day and report that the child has bitten their lip while they were numb. Diagnosed as ulceration of lip due to lip biting.



Traumatic Ulcer of Right Lower Lip

Source: Lip biting in pediatric dental patients following dental local anesthesia: a case report, J Pediatr Nurs. Author manuscript; available in PMC 2009 Dec 1.



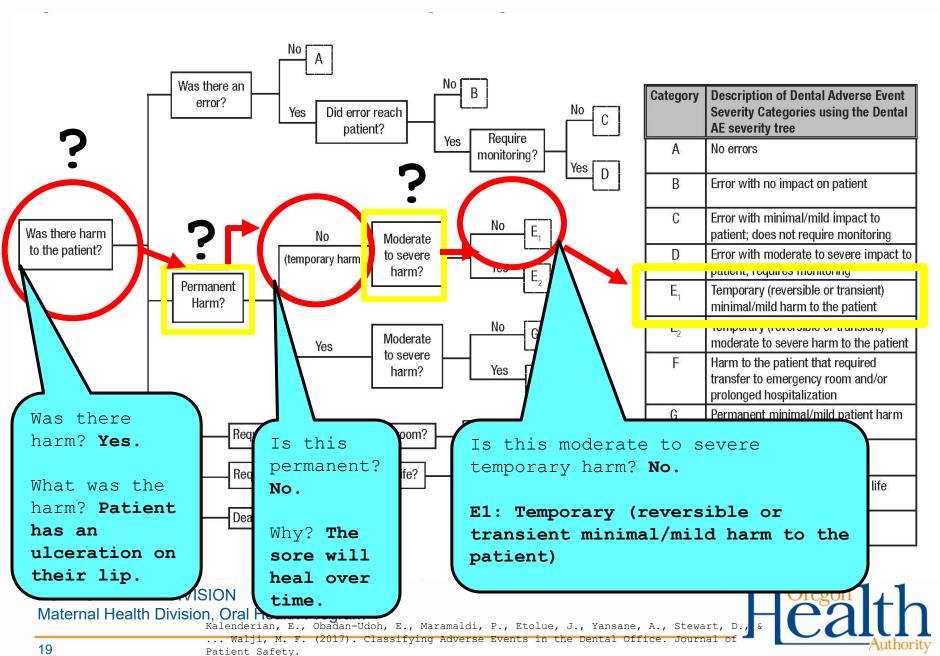




Is this an Adverse Event?

? Was there physical harm?





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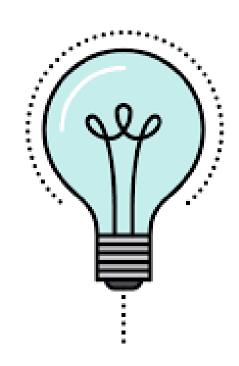
Adverse Events or Suspected Adverse Events that are determined to be an E1 must be reported on the Quarterly Report.

E1: Temporary (reversible or transient minimal/mild harm to the patient)









Next Example



Scenario

Clinic Scenario:
Patient is a 25 year old female. Patient was treatment planned to have #18 extracted. Provider extracted #19.
Wrong tooth was extracted.



https://www.ncbi.nlm.nih.gov/pubmed/28546594



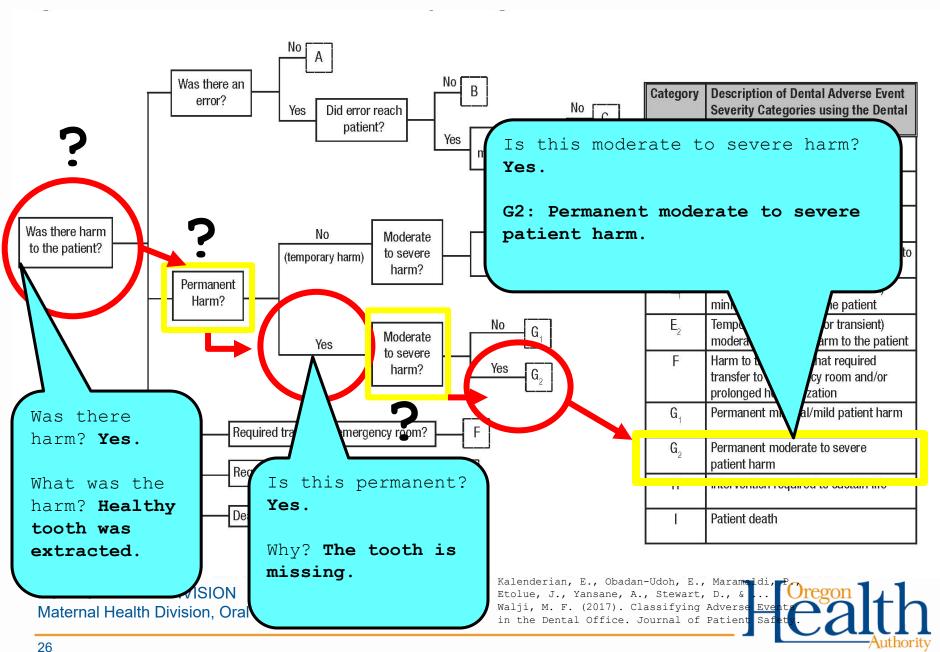




Is this an Adverse Event?

? Was there physical harm?



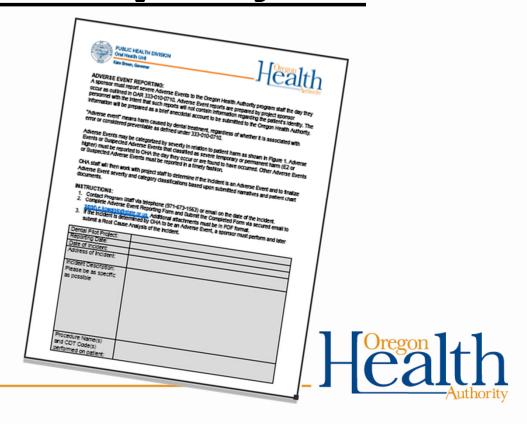


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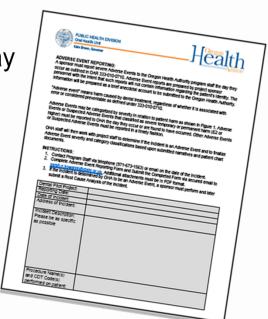
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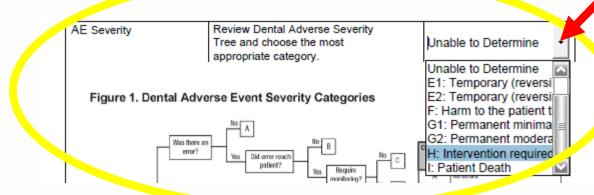
Adverse Events or
Suspected Adverse Events
that are determined to be
an E2 or greater must be
reported on the Adverse
Event Reporting Form.



- AE E2 or greater must be reported to OHA the day they occur or are found to have occurred
 - Dental Pilot Project Name:
 - Reporting Date:
 - Date of Incident:
 - Address or Location of Incident:
 - Incident Description:
 - Procedure Name(s) and CDT Code(s) performed on patient:







 Technical Assistance: OHA staff will work with project staff, if requested, to determine if the incident is an Adverse Event and to finalize Adverse Event severity and category classifications based upon submitted narratives and patient chart documents.

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Description of Dental Adverse Event

Severity Categories using the Dental

Error with no impact on patient

Error with minimal/mild impact to

patient; requires monitoring

patient; does not require monitoring

Temporary (reversible or transient) minimal/mild harm to the patient

Temporary (reversible or transient) moderate to severe harm to the patient

Harm to the patient that required transfer to emergency room and/or

Permanent moderate to severe

Intervention required to sustain life

Permanent minimal/mild patient harm

prolonged hospitalization

patient harm

Patient death

Error with moderate to severe impact to

AE severity tree

No errors

Category

Α

B

D

E

E,

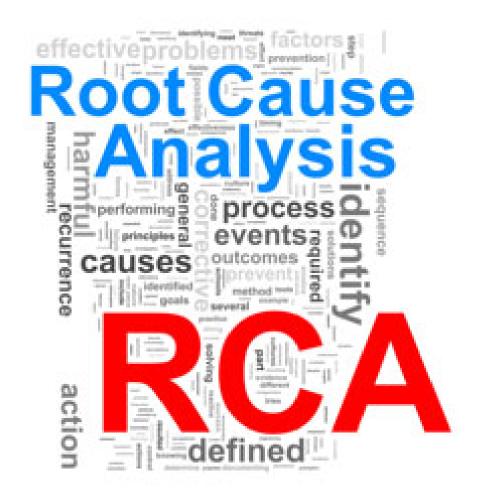
F

G

G

Н

• If the incident is determined by OHA to be an Adverse Event E2 or greater, a sponsor must perform and later submit a Root Cause Analysis of the incident.





Root Cause Analysis

- Goal is to identify gaps in systems or processes
- Improve patient safety
- Prevent reoccurrence

Example RCA Findings:

- Miscommunication between clinics
- Different teeth numbering systems
- Incorrectly mounted radiographs

Wrong tooth extraction: Root cause analysis

Oren Releg, DMDV/Navet Givet, DMDV/Tali Halamish-Shani, LLBV

Objective: Errors made by clinicians in dental practice sequire changes in the original Vogaciwes: Entire inexas cy conceine in usineal practice acquire changes in the departer planning of patient management. The purpose of this study was to analyze owners that led nemaring to a primitive interinsipation in . Her purpose or une about were to amount of the contract of the co or many soon recruited, **mechanic and meaning**, it bose or per resuming centre for words pools actractions were reported and evaluated by Modeal Consultants International ining could insurance were topic and any encueur by manuse consumers intermediately in 1903 to 2004. Our word collected and analyzed according to parameters regar from 1993 to 2004. Data wore collected and analyzed according to parameters separating the clinician who performed the procedure, the nature of the retireat for extraction, the amorphashics of the patient, the sorus it which the extraction took place, the season for nographics or me pessent, the words of writch the extreosion score pesce, the business of more, and the failure of the discussion claim. **Results:** General pracescores performed open, the elect, and the nature or the insurance claim. **Heauth:** Centeral practiceners before 7.5% of the astractions, 45% of the referring clinicians were orthodoritists, 74% of the 7 ms to the served charge or traction, and 77% of the other wide made in polyconics. officer wide makes curring extraction, and first or the entrop was make at population. Conclusions: Errors during featment and poor communication among clinicians led to Conclusions: Errors during treatment and poor communication among cancers and a outraction of the wrong both. This can be avoided by greater caution on the part of the oxtraction of the wrong som. The can be avoided by planter calabilities for any part of the extracting clinician when following the tournost plan. Guidelines lowerd this end are

Key words: tooth extraction, treatment error, wrong tooth extraction

Tooth extraction is a common procedure in foon streament is a common providing in in 2005, the ALPA Council on Assimous dental practice, making it as the more curious insulance and Pietrement Programs conor circoan, wehout the operators coing too casers are avariable only not the video-acquarded with the patient and the referring arice companies that underwrite dontal

dontal practice, making a seriel more curious structures and measurement including a survey on the forquency, awantly, now rangy wrong loos extractor is man broad a survey on the frequency, around, and causes of dental malpractice claims appeted broaden materials around the second survey of the frequency around the provided provided to the second survey of the frequency around the provided broaden to the second survey of the frequency around the provided broaden to the second survey of the frequency around the provided to the second survey of the frequency around the second survey of the second for the property of a source of the second for the seco in geruna area to be uncomported, a seems use sequing dental processoral labelity must. neasonable to assume that the known figures ors across the country participated, which neconably to essure the Survivini square on a source in source in source processes, when on wong tooth extraction are lower than actu- logisther insured nearly 104,600 800 read on wrong toom eonation are lower train actu-against integer in stay 104, not successful as to case, as well, Numerous extractors dentits. In the report of the results, the ADA say to two come, the year, replaintance desired that and the support of the Assault, the File of are provensed based on a means from anoth published that shall be desired to be desired to be desired to desire and available only from the little. acquainted with the patent and the resuming ance companies that unconvints dental collisions overall treatment plan. This gap professional liability insurance.* But those companies on not publisly disclose the data conspanies on the present occur, an event that they collect, most likely for competitive to a reseasure structor for enter occus, an event tills.

any consect, these energy for contractive reasons, in the survey, the definition of finddenoe" of professional liability claims was the total number of reported claims divided by the total number of the company's dentist policyholders, and a "claim" was defined as an occurrence in which a patient demanded damages from the insured company. The suryou are also that 4.8% of the allegations curphact in paid chairns was read to tailmace

"Wrong Tooth Extraction: Root Cause Analysis"









Next Example



Scenario

Clinic Scenario:
Patient presents for treatment on #30.
Patient is incorrectly anesthetized on the opposite side, left lower quadrant.







Is this an Adverse Event?



NO

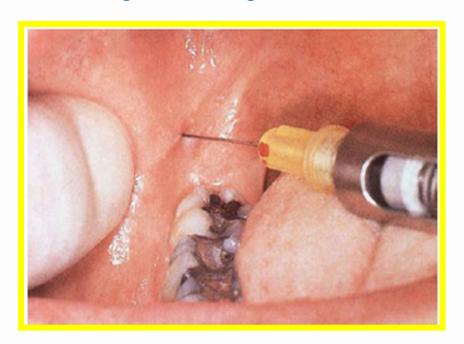
Why?

Anesthetizing the wrong site is an error, not an AE unless harm occurs



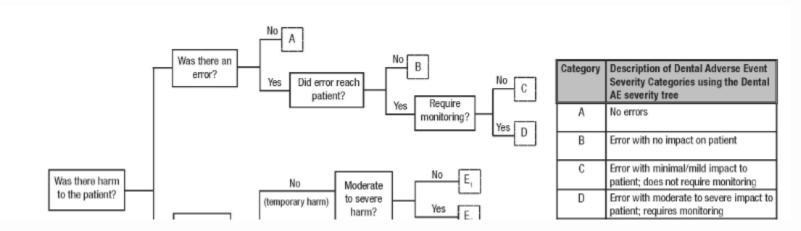
What are errors?

- Errors are unintended incidents that <u>did not cause physical harm</u>
- Example: anesthetizing the wrong side





Errors



- If **no harm** to patient you **do not need** to report errors to OHA as Adverse Events
- Quarterly Progress Reports and patient safety concerns, errors could be reported here if a patient safety concern is found

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Adverse Event Reporting Process



Next Example



Scenario

Clinic Scenario: Patient is 7 year old child.
Provider places a stainless steel crown on #I.

Patient returns two months later complaining of tenderness around the crown.

Upon examination, excess cement is found and removed. Tissues are irritated.







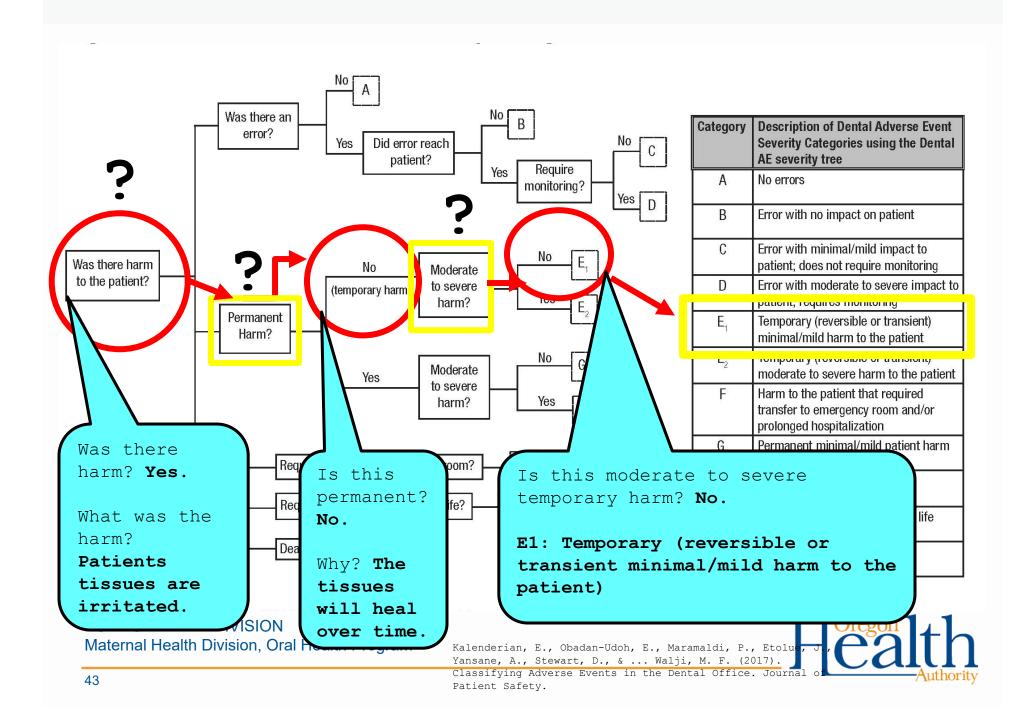


Adverse Event Reporting Process

Is this an Adverse Event?

? Was there physical harm?





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E1: Temporary (reversible or transient minimal/mild harm to the patient)

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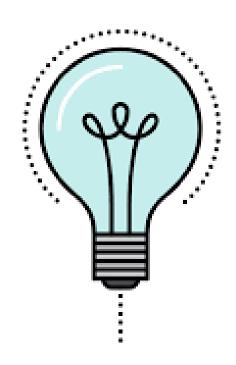
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Health Authority





Adverse Event Reporting Process



Next Example

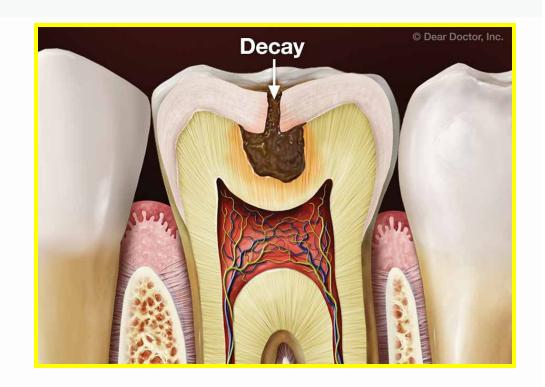


Scenario

Clinic Scenario: Patient is 20 year old female. Patient refuses local anesthetic. Provider completes restoration on #30. Patient returns six months later complaining of sensitivity.

Radiograph is taken.

Decay was not completely removed during first restoration.









Adverse Event Reporting Process

Is this an Adverse Event?

Was there physical harm?

Why? Patient already had decay, the provider did not cause the decay. The lack of complete removal is a poor quality of care issue.





Adverse Event Reporting Process



Pain can be expected; if the pain is slight, manageable or temporary, then no harm has occurred. No Adverse Event



Pain Scale

Scale of 1-10

- 1-3 = Slight pain = No Harm (expected or considered commonly occurring within the standard of care)
- 4-6 = Moderate pain = E1
- 7-10 = Severe pain = E2





Pain

- In the absence of a pain scale, if the pain is described as
- "Can't sleep, Killing me, throbbing, stabbing, jabbing, pounding, pulsing it is an AE =E2
- If the patient goes in for an emergency dental visit for pain it is an AE = E2
- If a representative calls with the complaint and requests and Rx for pain management, it is an AE = E2











Specific Questions Submitted to OHA



Question: There is minimal to moderate damage to adjacent teeth while removing decay. What should this be classified as?

First questions is always...



Was there physical harm?

Then we determine the severity of the AE using the AE system





Question: There is minimal to moderate damage to adjacent teeth while removing decay. What should this be classified as?

Review the clinical scenario

If the tooth can be minimally smoothed such that the contact is favorable and treated with fluoride until it remineralizes, then it's E-2. The harm was moderate/severe enough that it requires an intervention to compensate.

If adjacent tooth severely damaged, definitely requires a restoration, this severity of the AE will be either G1 or G2, depending on degree of damage, etc.



Question: There is soft tissue trauma from removing supragingival calculus. What should this be classified as?

First questions is always...

?

Was there physical harm?

Review clinic . — Maybe

scenario to determine



Question: There is soft tissue trauma from removing supragingival calculus. What should this be classified as?

Review the clinical scenario

It is within the normal course of treatment to have bleeding, irritation, etc. when scaling. If a provider has incorrectly adapted the scaler or curette to the tooth, trauma beyond the normal expected course of treatment would be considered an E1, temporary mild harm.

If a papilla is lopped off and then it's "G" as the result would be flattened architecture.



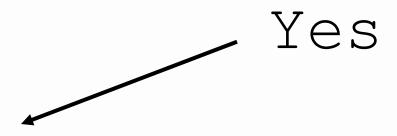
Question: There is a small cut of tongue during prepping of tooth structure. What should this be classified as?

First questions is always...

?

Was there physical harm?

Review clinic scenario to determine AE severity





Question: There is a small cut of tongue during prepping of tooth structure. What should this be classified as?

Review the clinical scenario

It is within the normal course of treatment to have bleeding, irritation, etc. when completing restorative procedures around the tooth. It is not part of the normal expected course of treatment to have a cut on the tongue. A cut on a tongue would be considered an E1, temporary mild harm.



Question: There is a soft tissue trauma during polishing of restoration? What should this be classified as?

First questions is always...

?

Was there physical harm?

Review clinic scenario to determine AE severity

Maybe



Question: There is a soft tissue trauma during polishing of restoration? What should this be classified as?

Review the clinical scenario

It is within the normal course of treatment to have bleeding, etc. when polishing a restoration. If tissues are frail, inflamed, etc. bleeding is common during the normal course of treatment. It depends on the clinical scenario – has a section of soft tissue been removed? If it is beyond the normal expected course of treatment then it would be considered an E1, temporary mild harm. Will tissue grow back? Is papilla removed? Then G1. Depends on scenario.



Dental Pilot Projects Program: Technical Assistance in Adverse Event Reporting Requirements

- Recognize differences in Adverse Events and Quality of Care
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 - Identify when to report AE and where to report







OHA Technical Assistance





Sources

- Kalenderian E, Walji M, Tavares A, Ramoni R. An adverse event trigger tool in dentistry: a new methodology for measuring harm in the dental office. Journal Of The American Dental Association (1939) [serial online]. July 2013;144(7):808-814. Available from: MEDLINE Complete, Ipswich, MA. Accessed July 26, 2017.
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- · Annotated Event Reporting Bibliography Handout



Thank you!

