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## 1 Policy on Patient Safety

2

### 3 Review Council

4 Council on Clinical Affairs

5 Revised

6 2018

7

### 8 Purpose

9 The American Academy of Pediatric Dentistry (AAPD) recognizes patient safety as an essential  
10 component of quality oral health care for infants, children, adolescents, and individuals with special  
11 health care needs. The AAPD encourages dentists to consider thoughtfully the environment in which they  
12 deliver health care services and to implement practices to improve patient safety that decrease a patient's  
13 risk of injury or harm during the delivery of care. This policy is not intended to duplicate safety  
14 recommendations for medical facilities accredited by national commissions such as The Joint  
15 Commission on Accreditation of Healthcare Organizations or those related to workplace safety such as  
16 Occupational Safety & Health Administration.

17

### 18 Methods

19 This policy was originally developed by the Council on Clinical Affairs and adopted in 2008. This policy  
20 is based on a review of current dental and medical literature, including a literature search of the  
21 MEDLINE/PubMed<sup>®</sup> electronic data base using the terms: patient safety AND dentistry, fields: all; limits:  
22 within the last 10 years, humans, English. ~~Ten articles matched these criteria.~~ Eight hundred twenty-two  
23 articles met these criteria. Papers for review were chosen from this list and from the references within  
24 selected articles.

25

### 26 Background

27 All health care systems should be designed to ~~provide~~ promote a practice environment that promotes  
28 patient safety.<sup>1</sup> ~~health and protection.~~ The World Health Organization (WHO) defines patient safety as  
29 “the reduction of risk of unnecessary harm associated with healthcare to an acceptable minimum.”<sup>2</sup> The  
30 most important challenge in the field of patient safety is prevention of harm, particularly avoidable harm,  
31 to patients during treatment and care.<sup>2</sup> Dental practices must be in compliance with federal laws that help  
32 protect patients from preventable injuries ~~misuse of personal information~~ [e.g., ~~Health Insurance~~

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33 ~~Portability and Accountability Act (HIPAA)] (US DHHS National Standards, WHO Guidelines, Boyce-~~  
34 ~~and Pittet, AAPD Infection Control)~~ and potential dangers such as the transmission of disease.<sup>3,4,5</sup> ~~State~~  
35 ~~and local~~ Laws help regulate hazards related to potential chemical and environmental factors (e.g., spills,  
36 radiation) hazards and facilities (e.g., fire prevention systems, emergency exits)<sup>6</sup>. American Academy of  
37 Pediatric Dentistry best practices and oral health policies provide additional information regarding the  
38 delivery of safe pediatric dental care<sup>7-18</sup>. Furthermore, state dental practice acts and hospital credentialing  
39 committees are intended to ensure the safety of patients and the trust of the public by regulating the  
40 competency of and provision of services by dental health professionals.<sup>19,20,21</sup>

41  
42 ~~Designing Patient-centered~~ health care systems that focus on preventing errors ~~and being more efficient~~  
43 ~~and patient family centered is~~ are critical to assuring patient safety<sup>21,22</sup>. Some possible sources of error in  
44 the dental office are miscommunication, interruptions, stress, fatigue, failure to review the patient's  
45 medical history (e.g., current medications ~~drugs~~ and allergies ~~medications~~), and lack of standardized  
46 records, abbreviations, and processes.<sup>1,21,23</sup>. Treating the wrong patient or tooth/surgical site, delay in  
47 treatment, disease progression after misdiagnosis, inaccurate referrals, incorrect medication dosages  
48 ordered/administered, unintentional swallowing, aspiration, or retention of a foreign object, and breaches  
49 in sterilization are examples of patient safety events that occur in dentistry.<sup>24,25,26,27,28</sup>. Adverse events may  
50 be classified in terms of severity of harm.<sup>29</sup>

51  
52 ~~Standardization~~ ed processes and workflows helps assure clerical and clinical personnel execute their  
53 responsibilities in a safe and effective manner.<sup>23</sup>. Policy and procedure manuals that describe each a  
54 facility's established protocols serve as a valuable training tool for new employees and reinforce a  
55 consistent approach ~~for~~ to promoting safe, and quality patient care<sup>23</sup>. Identifying deviations from such  
56 established protocols and studying patterns of occurrence can help reduce the likelihood of adverse  
57 events.<sup>23,28,30</sup>

58  
59 Safety checklists are used by many industries and healthcare organizations to reduce preventable  
60 errors.<sup>31,32</sup>. Data supports the use of procedural checklists to minimize the occurrence of adverse events in  
61 dentistry (i.e. pre-sedation checklist).<sup>33,34,35</sup>. In addition, order sets, reminders, and clinical guidelines built  
62 into an electronic charting system may improve adherence to best practices.<sup>28</sup>

63  
64 Reducing clinical errors requires a careful examination of adverse events, and including 'near misses',  
65 events, and root cause analysis of how the event could be avoided in the future so that safety practices can

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66 ~~be implemented.~~<sup>22,36</sup> In a near miss event, an error was committed, but the patient did not experience  
67 clinical harm.<sup>22,36</sup> Detection of errors and problems within a practice or organization may be used as  
68 teaching points to motivate changes and avoid recurrence.<sup>37</sup> A root cause analysis can be conducted to  
69 determine causal factors and corrective actions so these types of events may be avoided in the  
70 future.<sup>31,38,39</sup> Embracing a patient sSafety culture demands a culture in which communication does not  
71 depend on hierarchy; a non-punitive or no blame environment that culture encourages all personnel  
72 regardless of position to report errors and intervene in matters of patient safety.<sup>1,22,38</sup> Alternatively, a fair  
73 and just culture is one that learns and improves by openly identifying and examining its own weaknesses;  
74 individuals know that they are accountable for their actions, but will not be blamed for system faults in  
75 their work environment beyond their control.<sup>39</sup> Evidence-based systems have been designed for  
76 healthcare professionals to improve team awareness, clarify roles and responsibilities, resolve conflicts,  
77 improve information sharing, and eliminate barriers to patient safety.<sup>40,41,42</sup>

78  
79 The environment in which dental care is delivered impacts patient safety. In addition to structural issues  
80 regulated by state and local laws, other design features should be planned and periodically evaluated for  
81 patient safety, especially as they apply to young children. Play structures, games, and toys are possible  
82 sources for accidents and infection.<sup>43,44</sup>

83  
84 ~~Consequently, t~~ The dental patient would benefit from a practitioner who follows current literature and  
85 participates in professional continuing education courses to increase awareness and knowledge of best  
86 current practices.<sup>45</sup> Scientific knowledge and technology continually advance, and patterns of care evolve  
87 due, in part, to recommendations by organizations with recognized professional expertise and stature  
88 including: the American Dental Association, The Joint Commission (National Patient Safety Goals 2017),  
89 WHO, Institute for Health Improvement, and Agency for Healthcare Research and Quality. Some  
90 recommendations can be based only on suggestive evidence or theoretical rationale (e.g., infection  
91 control); other concerns of clinical practice remain in flux (e.g., materials utilized in restorative dentistry).  
92 ~~Consequently, the dental patient would benefit from a practitioner who follows current literature and~~  
93 ~~participates in professional continuing education courses to increase awareness and knowledge of best~~  
94 ~~current practices.~~ Data-driven solutions are possible through documenting, recording, reporting, and  
95 analyzing patient safety events.<sup>26, 46,47</sup> Continuous quality improvement efforts including outcome  
96 measure analysis to improve patient safety should be implemented into practices.<sup>28,45</sup> Patient safety  
97 incident disclosure is lower in dentistry compared with medicine since a dental-specific reporting system

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98 does not exist in the United States. <sup>47</sup>. Identifiable patient information that is collected for analysis is  
99 considered protected under the Health Insurance Portability and Accountability Act (HIPAA). <sup>48,49</sup>.

100  
101 ~~The AAPD emphasizes safe, age-appropriate, nonpharmacological or pharmacological behavior-~~  
102 ~~guidance techniques for use with pediatric dental patients. It is important to base behavior guidance on-~~  
103 ~~each patient's individual needs with goals of fostering a positive dental attitude, safety, and providing-~~  
104 ~~quality dental care (AAPD Behavior Guidance). Appropriate diagnosis of behavior and safe and effective-~~  
105 ~~implementation of advanced behavior guidance techniques (i.e., protective stabilization, sedation, general-~~  
106 ~~anesthesia) necessitate knowledge and experience that generally are beyond the core knowledge that-~~  
107 ~~students receive during predoctoral education (AAPD Behavior Guidance, AAPD Protective-~~  
108 ~~Stabilization).~~

109

## 110 Policy statement

111 To promote patient ~~safety health and protection~~, the AAPD encourages:

- 112 1. Patient safety instruction in dental curricula to promote safe, patient-centered care ~~(Kiersman,~~  
113 ~~Plake and Darbishire 2011).~~
- 114 2. Professional continuing education by all licensed dental professionals to maintain familiarity with  
115 current regulations, technology, and clinical practices.
- 116 3. ~~Compliance with federal laws such as HIPAA to protect patients against misuse of information~~  
117 ~~identifiable to them (US DHHS National Standards).~~
- 118 4. Compliance and recognition of the importance of infection control policies, procedures, and  
119 practices in dental health care settings ~~in order~~ to prevent disease transmission from patient to  
120 care provider, from care provider to patient, and from patient to patient ~~(WHO Guidelines, Boyce-~~  
121 ~~and Pittett, AAPD Infection Control).~~
- 122 5. Routine inspection of physical facility in regards to patient safety. This ~~would~~ includes  
123 development and periodic review of office emergency and fire safety protocols and routine  
124 inspection and maintenance of clinical equipment.
- 125 6. Recognition that informed consent by the parent is essential in the delivery of health care and  
126 effective relationship/communication practices can help avoid problems and adverse events  
127 ~~(AAPD Informed Consent). The parent should be encouraged to understand and be actively~~  
128 engaged in the planned treatment~~be an active participant in the child's care.~~
- 129 7. Accuracy of patient identification with the use of at least two patient identifiers, such as name and  
130 date of birth, when providing care, treatment, or services ~~(JCAHO 201712/13).~~

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- 131 78. An accurate and complete patient chart that can be interpreted by a knowledgeable third party  
132 (~~AAPD Record Keeping~~). Standardizing abbreviations, acronyms, and symbols throughout the  
133 record is recommended.
- 134 89. An accurate, comprehensive, and up-to-date medical/dental history including medications and  
135 allergy list to ensure patient safety during each visit (~~AAPD Record Keeping~~). Ongoing  
136 communication with health care providers, both medical and dental, who manage the child's  
137 health helps ensure comprehensive, coordinated care of each patient.
- 138 910. A pause or time out with dental team members present before an invasive procedure(s) to confirm  
139 the patient, planned procedure(s), and tooth/surgical site(s) are correct.
- 140 1011. Appropriate staffing and supervision of patients treated in the dental office.
- 141 1112. Adherence to AAPD recommendations on behavior guidance, especially as they pertain to use of  
142 advanced behavior guidance techniques (i.e., protective stabilization, sedation, general  
143 anesthesia) (~~AAPD Behavior Guidance, AAPD Protective Stabilization~~).
- 144 1213. Standardization and consistency of processes within the practice. A policies and procedures  
145 manual, with ongoing review and revision, could help increase employee awareness and decrease  
146 the likelihood of untoward events. Dentists should emphasize procedural protocols that protect  
147 the patient's airway (e.g., rubber dam isolation) (~~AAPD Restorative~~), guard against unintended  
148 retained foreign objects (e.g., surgical counts; observation of placement/removal of throat packs,  
149 retraction cords, cotton pellets, and orthodontic separators), and minimize opportunity for  
150 iatrogenic injury during delivery of care (e.g., protective eyewear).
- 151 1314. Minimizing exposure to nitrous oxide by maintaining the lowest practical levels in the dental  
152 environment. This ~~would~~ includes routine inspection and maintenance of nitrous oxide delivery  
153 equipment as well as adherence to clinical ~~guidelines~~ recommendations for patient selection and  
154 delivery of inhalation agents (~~AAPD N2O Policy~~).
- 155 1415. Minimizing radiation exposure through adherence to ALARA (as low as reasonably achievable)  
156 principle, equipment inspection and maintenance, and patient selection criteria (~~ADA 2012~~).
- 157 1516. All facilities performing sedation for diagnostic and therapeutic procedures to maintain records  
158 that track adverse events. Such events then can be examined for assessment of risk reduction and  
159 improvement in patient safety (~~AAPD/AAP Sedation Guideline~~).
- 160 1617. Dentists who utilize in-office anesthesia ~~care providers personnel~~ take all necessary measures to  
161 minimize risk to patients. Prior to delivery of sedation/general anesthesia, appropriate  
162 documentation shall address rationale for sedation/general anesthesia, informed consent,  
163 instructions to parent, dietary precautions, preoperative health evaluation, and any prescriptions

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164 along with the instructions given for their use. Rescue equipment should have regular safety and  
165 function testing and medications should not be expired. The dentist and anesthesia ~~care provider~~  
166 personnel must communicate during treatment to share concerns about the airway or other details  
167 of patient safety. ~~(AAPD Anesthesia Personnel).~~

168 1748. Ongoing quality improvement strategies and ~~Routine~~ assessment of risk, adverse events, and  
169 near misses, mistakes with a plan for ~~reduction and~~ improvement in patient safety and  
170 satisfaction is imperative for such strategies (JCAHO 201712/13, Ramoni et al 2012).

171 18. Comprehensive review and documentation of indication for medication order / administration.  
172 Review current medications, allergies, drug interactions, and correct calculation of dosage.

173 19. Promoting a culture of patient safety where staff members are empowered and encouraged to  
174 speak up or intervene in matters of patient safety.

175

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