Policy on Patient Safety

Latest Revision
2018

Purpose
The American Academy of Pediatric Dentistry (AAPD) recognizes patient safety as an essential component of quality oral health care for infants, children, adolescents, and those with special health care needs. The AAPD encourages dentists to consider thoughtfully the environment in which they deliver health care services and to implement practices to improve patient safety. This policy is not intended to duplicate safety recommendations for medical facilities accredited by national commissions such as The Joint Commission or those related to workplace safety such as Occupational Safety and Health Administration.

Methods
This document is a revision of the policy developed by the Council on Clinical Affairs and adopted in 2008, and revised in 2013. This policy is based on a review of current dental and medical literature, including search of the PubMed®/MEDLINE database using the terms: patient safety AND dentistry, fields: all; limits: within the last 10 years, humans, English. Eight hundred twenty-two articles met these criteria. Papers for review were chosen from this list and from the references within selected articles.

Background
All health care systems should be designed to provide a practice environment that promotes patient safety.¹ The World Health Organization (WHO) defines patient safety as “the reduction of risk of unnecessary harm associated with healthcare to an acceptable minimum.”² The most important challenge in the field of patient safety is prevention of harm, particularly avoidable harm, to patients during treatment and care.⁴ Dental practices must be in compliance with federal laws that help protect patients from preventable injuries and potential dangers such as the transmission of disease.⁵ ⁶ Laws help regulate hazards related to chemical and environmental factors (e.g., spills, radiation) and facilities (e.g., fire prevention systems, emergency exits).⁶ The AAPD’s recommendations and oral health policies provide additional information regarding the delivery of safe pediatric dental care.⁷ ¹⁸ Furthermore, state dental practice acts and hospital credentialing committees are intended to ensure the safety of patients and the trust of the public by regulating the competency of and provision of services by dental health professionals.¹⁹ ²¹

Patient-centered health care systems that focus on preventing errors are critical to assuring patient safety.²¹ ²² Some possible sources of error in the dental office are miscommunication, interruptions, stress, fatigue, failure to review the patient’s medical history (e.g., current medications, allergies), and lack of standardized records, abbreviations, and processes.¹ ²¹ ²³ Treating the wrong patient or tooth/surgical site, delay in treatment, disease progression after misdiagnosis, inaccurate referral, incorrect medication dosage ordered/administered, breach in sterilization, and unintentional swallowing, aspiration, or retention of a foreign object are examples of patient safety events that occur in dentistry.²⁴ ²⁸ Adverse events may be classified in terms of severity of harm (e.g., none, mild, moderate, severe, death).²⁹

Standardized processes and workflows help assure clerical and clinical personnel execute their responsibilities in a safe and effective manner.³⁵ Policy and procedure manuals that describe a facility’s established protocols serve as a valuable training tool for new employees and reinforce a consistent approach to promote safe and quality patient care.³⁵ Identifying deviations from established protocols and studying patterns of occurrence can help reduce the likelihood of adverse events.⁷

Safety checklists are used by many industries and healthcare organizations to reduce preventable errors.³¹ ³² Data supports the use of procedural checklists to minimize the occurrence of adverse events in dentistry (e.g., presedation checklist).³³ ³⁵ In addition, order sets, reminders, and clinical guidelines built into an electronic charting system may improve adherence to best practices.³⁸

Reducing clinical errors requires a careful examination of adverse events³³ ³⁸ and near-miss events³² ³⁶. In a near-miss event, an error was committed, but the patient did not experience clinical harm.³² ³⁶ Detection of errors and problems within a practice or organization may be used as teaching points to motivate changes and avoid recurrence.³⁷ A root cause analysis can be conducted to determine causal factors and corrective actions so these types of events may be avoided in the future.³¹ ³⁸ ³⁹ Embracing a patient safety culture demands a non-punitive or no-blame environment that encourages all personnel to report errors and intervene in matters of patient safety.²² ³⁸ Alternatively, a fair and just culture is one that learns and improves by openly identifying and examining its

ABBREVIATIONS
own weaknesses; individuals know that they are accountable for their actions but will not be blamed for system faults in their work environment beyond their control. Evidence-based systems have been designed for healthcare professionals to improve team awareness, clarify roles and responsibilities, resolve conflicts, improve information sharing, and eliminate barriers to patient safety.\textsuperscript{40-42}

The environment in which dental care is delivered impacts patient safety. In addition to structural issues regulated by state and local laws, other design features should be planned and periodically evaluated for patient safety, especially as they apply to young children. Play structures, games, and toys are possible sources for accidents and infection.\textsuperscript{43,44}

The dental patient would benefit from a practitioner who follows current literature and participates in professional continuing education courses to increase awareness and knowledge of best current practices. Scientific knowledge and technology continually advance, and patterns of care evolve due, in part, to recommendations by organizations with recognized professional expertise and stature, including the American Dental Association, The Joint Commission, WHO, Institute for Health Improvement, and Agency for Healthcare Research and Quality. Data-driven solutions are possible through documenting, recording, reporting, and analyzing patient safety events.\textsuperscript{28,45} Continuous quality improvement efforts including outcome measure analysis to improve patient safety should be implemented into practices.\textsuperscript{28,45} Patient safety incident disclosure is lower in dentistry compared with medicine due, in part, to recommendations by organizations with recognized professional expertise and stature, including the American Dental Association, The Joint Commission, WHO, Institute for Health Improvement, and Agency for Healthcare Research and Quality. Data-driven solutions are possible through documenting, recording, reporting, and analyzing patient safety events.\textsuperscript{28,45} Continuous quality improvement efforts including outcome measure analysis to improve patient safety should be implemented into practices.\textsuperscript{28,45}

Policy statement

To promote patient safety, the AAPD encourages:

1. Patient safety instruction in dental curricula to promote safe, patient-centered care.
2. Professional continuing education by all licensed dental professionals to maintain familiarity with current regulations, technology, and clinical practices.
3. Compliance and recognition of the importance of infection control policies, procedures, and practices in dental health care settings in order to prevent disease transmission from patient to care provider, from care provider to patient, and from patient to patient.\textsuperscript{24}
4. Routine inspection of physical facility in regards to patient safety. This includes development and periodic review of office emergency and fire safety protocols and routine inspection and maintenance of clinical equipment.
5. Recognition that informed consent by the parent is essential in the delivery of health care and effective relationship/communication practices can help avoid problems and adverse events. The parent should understand and be actively engaged in the planned treatment.
6. Accuracy of patient identification with the use of at least two patient identifiers, such as name and date of birth, when providing care, treatment, or services.
7. An accurate and complete patient chart that can be interpreted by a knowledgeable third party.\textsuperscript{13} Standardizing abbreviations, acronyms, and symbols throughout the record is recommended.
8. An accurate, comprehensive, and up-to-date medical/dental history including medications and allergy list to ensure patient safety during each visit. Ongoing communication with health care providers, both medical and dental, who manage the child’s health helps ensure comprehensive, coordinated care of each patient.
9. A pause or time out with dental team members present before invasive procedure(s) to confirm the patient, planned procedure(s), and tooth/surgical site(s) are correct.
10. Appropriate staffing and supervision of patients treated in the dental office.
11. Adherence to AAPD recommendations on behavior guidance, especially as they pertain to use of advanced behavior guidance techniques (i.e., protective stabilization, sedation, general anesthesia).
12. Standardization and consistency of processes within the practice. A policies and procedures manual, with ongoing review and revision, could help increase employee awareness and decrease the likelihood of untoward events. Dentists should emphasize procedural protocols that protect the patient’s airway (e.g., rubber dam isolation), guard against unintended retained foreign objects (e.g., surgical counts; observation of placement/removal of throat packs, retraction cords, cotton pellets, and orthodontic separators), and minimize opportunity for iatrogenic injury during delivery of care (e.g., protective eyewear).
13. Minimizing exposure to nitrous oxide by maintaining the lowest practical levels in the dental environment. This includes routine inspection and maintenance of nitrous oxide delivery equipment as well as adherence to clinical recommendations for patient selection and delivery of inhalation agents.
14. Minimizing radiation exposure through adherence to as low as reasonably achievable (ALARA) principle, equipment inspection and maintenance, and patient selection criteria.
15. All facilities performing sedation for diagnostic and therapeutic procedures to maintain records that track adverse events. Such events then can be examined for assessment of risk reduction and improvement in patient safety.
16. Dentists who utilize in-office anesthesia providers take all necessary measures to minimize risk to patients. Prior to delivery of sedation/general anesthesia, appropriate documentation shall address rationale for sedation/general anesthesia, informed consent, instructions to
parent, dietary precautions, preoperative health evaluation, and any prescriptions along with the instructions given for their use. Rescue equipment should have regular safety and function testing and medications should not be expired. The dentist and anesthesia providers must communicate during treatment to share concerns about the airway or other details of patient safety.

17. Ongoing quality improvement strategies and routine assessment of risk, adverse events, and near misses. A plan for improvement in patient safety and satisfaction is imperative for such strategies.\(^5^,\(^6\)\)

18. Comprehensive review and documentation of indication for medication order/administration. This includes a review of current medications, allergies, drug interactions, and correct calculation of dosage.

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

References

References continued on the next page.