

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

1 Best Practices on Periodicity of Examination, Preventive Dental Services,
2 Anticipatory Guidance/Counseling, and Oral Treatment for Infants,
3 Children, and Adolescents

4
5 Review Council

6 Council on Clinical Affairs

7 Revised

8 ~~2013~~, 2018

9

10 Purpose

11 The American Academy of Pediatric Dentistry (AAPD) intends ~~this guideline~~ these recommendations to
12 help practitioners make clinical decisions concerning preventive oral health interventions, including
13 anticipatory guidance and preventive counseling, for infants, children, and adolescents.

14

15 Methods

16 ~~This guideline was~~ These recommendations were originally developed by the Clinical Affairs Committee
17 and adopted in 1991. This document is a revision of the previous version, last revised in ~~2009~~2013. The
18 update used electronic database and hand searches of articles in the medical and dental literature using the
19 terms: periodicity of dental examinations, dental recall intervals, preventive dental services, anticipatory
20 guidance and dentistry, caries risk assessment, early childhood caries, dental caries prediction, dental care
21 cost effectiveness and children, periodontal disease and children and adolescents U.S., pit and fissure
22 sealants, dental sealants, fluoride supplementation and topical fluoride, dental trauma, dental fracture and
23 tooth, non-nutritive oral habits, treatment of developing malocclusion, removal of wisdom teeth, removal
24 of third molars; fields: all; limits: within the last 10 years, humans, English, and clinical trials; birth
25 through age 18. From this search, ~~3,418~~ 1,884 articles matched these criteria and were evaluated by title
26 and/or abstract. Information from ~~1134~~ 9 articles was chosen for review to update this document. When
27 data did not appear sufficient or were inconclusive, recommendations were based upon expert and/or
28 consensus opinion by experienced researchers and clinicians.

29

30 Background

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

31 Professional dental care is necessary to maintain oral health¹ (US DHHS 2000). The AAPD emphasizes
32 the importance of initiating professional oral health intervention in infancy and continuing through
33 adolescence and beyond² (US DHHS 2000, US DHHS 2003, Lewis and Ismail 1995). The periodicity of
34 professional oral health intervention and services is based on a patient's individual needs and risk
35 indicators^{3,4,5,6,7,8}. Each age group, as well as each individual child, has distinct developmental needs to be
36 addressed at specific intervals as part of a comprehensive evaluation^{2,9-11}. Continuity of care is based on
37 the assessed needs of the individual patient and assures appropriate management of all oral conditions,
38 dental disease, and injuries¹²⁻¹⁸. The early dental visit to establish a dental home provides a foundation
39 upon which a lifetime of preventive education and oral health care can be built. The early establishment
40 of a dental home has the potential to provide more effective and less costly dental care when compared to
41 dental care provided in emergency care facilities or hospitals¹⁹⁻²³. Anticipatory guidance and counseling
42 are essential components of the dental visit^{2,9,10,19,20,22,24-27} (CDC 2004). Collaborative efforts and effective
43 communication between medical and dental homes is essential to prevent oral disease and promote oral
44 and overall health among children. Medical professionals can play an important role in children's oral
45 health by providing primary prevention and coordinated care. Equally, dentists can improve the overall
46 health of children not only by treating dental disease, but also by proactively recognizing child abuse,
47 preventing traumatic injuries through anticipatory guidance, preventing obesity by longitudinal dietary
48 counseling, and monitoring of weight status²⁸. In addition, dentists can have an important role in assessing
49 immunization status and developmental milestones for potential delays, as well as making appropriate
50 referral for further neurodevelopmental evaluations and therapeutic services²⁹. The unique opportunity
51 dentists have to help address overall health issues strengthens as children get older since annual well child
52 visits decreases while dental recall visits increase. Research shows that children aged 6- to 12-years are,
53 on average, four times more likely to visit a dentist than a pediatrician^{30,31}.

54

55 Recommendations

56 This ~~guideline document~~ addresses periodicity and general principles of examination, preventive dental
57 services, anticipatory guidance/counseling, and oral treatment for children who have no contributory
58 medical conditions and are developing normally. ~~An a~~Accurate, comprehensive, and up-to-date medical,
59 dental, and social histories are necessary for correct diagnosis and effective treatment planning.
60 Recommendations may be modified to meet the unique requirements of patients with special health care
61 needs³².

62

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

63 **Clinical oral examination**

64 The first examination is recommended at the time of the eruption of the first tooth and no later than 12
65 months of age^{2,19,20,22}. The developing dentition and occlusion should be monitored throughout eruption at
66 regular clinical examinations²⁷. Evidenced-based prevention and ~~Early~~ early detection and management of
67 caries/oral conditions can improve a child's oral/general health, general health and, well-being, and
68 school readiness^{5,24,33-36}. It has been reported that the number and cost of dental procedures among high-
69 risk children is less for those seen at an earlier age versus later, confirming the fact that the sooner a child
70 is seen by a dentist, the less treatment needs they are likely to have in the future³⁷. On the other hand,
71 ~~Delayed~~ delayed diagnosis of dental disease can result in exacerbated problems which lead to more
72 extensive and costly care^{8,33,38-41}. Early diagnosis of developing malocclusions may allow for timely
73 therapeutic intervention^{9,27}.

74

75 Components of a comprehensive oral examination include assessment of:

- 76 • General health/growth assessment.
- 77 • Pain.
- 78 • Extraoral soft tissue.
- 79 • Temporomandibular joint.
- 80 • Intraoral soft tissue.
- 81 • Oral hygiene and periodontal health.
- 82 • Intraoral hard tissue.
- 83 • Developing occlusion
- 84 • Caries risk.
- 85 • Behavior of child.

86

87 Based upon the visual examination, the dentist may employ additional diagnostic aids (e.g., radiographs,
88 photographs, pulp vitality testing, laboratory tests, study casts)^{8,13,42-44}.

89

90 The most common interval of examination is six months should be based on the child's individual needs
91 or risk status/susceptibility to disease ~~however,~~ some patients may require examination and preventive
92 services at more or less frequent intervals, based upon historical, clinical, and radiographic findings^{4,7,8,16-}
93 ^{18,25,45-48} (~~ADA The Use of Dental Radiographs; Update and Recommendations 2006, Greenwell 2001~~).

94 Caries and its sequelae are among the most prevalent health problems facing infants, children, and

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

95 adolescents in America⁴⁹ (US DHHS 2000). ~~Carious~~ Caries lesions are cumulative and progressive and, in
96 the primary dentition, are highly predictive of caries occurring in the permanent dentition^{6,50} (~~Li and~~
97 ~~Wang 2002, Powell 1998~~). Reevaluation and reinforcement of preventive activities contribute to
98 improved instruction for the caregiver of the child or adolescent, continuity of evaluation of the patient's
99 health status, and repetitive exposure to dental procedures, potentially allaying anxiety and fear for the
100 apprehensive child or adolescent⁵¹. Individuals with special health care needs may require individualized
101 preventive and treatment strategies that take into consideration the unique needs and disabilities of the
102 patient³².

103

104 **Caries-risk assessment**

105 Risk assessment is a key element of contemporary preventive care for infants, children, adolescents, and
106 persons with special health care needs. It should be carried out as soon as the first primary teeth erupt and
107 reassessed periodically by dental and medical providers^{6,25}. Its goal is to prevent disease by (1) identifying
108 ~~and minimizing causative factors (e.g., microbial burden, dietary habits, plaque accumulation) and~~
109 ~~optimizing protective factors (e.g., fluoride exposure, oral hygiene, sealants)~~ children at high risk for
110 caries, (2) developing individualized preventive measures and caries management, as well as (3) aiding
111 the practitioner in determining appropriate periodicity of services^{25,52,53}. Taking into consideration that the
112 etiology of dental caries is multifactorial and complex, current caries-risk assessment models entail a
113 combination of factors including diet, fluoride exposure, host susceptibility, and microflora analysis and
114 consideration of how these factors interact with social, cultural, and behavioral factors. More
115 comprehensive models that include social, political, psychological, and environmental determinants of
116 health are also available⁵⁴⁻⁵⁷. Caries risk assessment forms and caries management protocols are available
117 and aimed to simplify and clarify the process^{25,58,59} (~~CDC 2004~~). Sufficient evidence demonstrates certain
118 groups of children at greater risk for development of early childhood caries (ECC) would benefit from
119 infant oral health care^{24,33,60-64}. Infants and young children have unique caries-risk factors such as ongoing
120 establishment of oral flora and host defense systems, susceptibility of newly erupted teeth, and
121 development of dietary habits. Because the etiology of ECC is multifactorial and significantly influenced
122 by health behaviors⁶⁵, preventive messages for expectant parents and parents of very young children
123 should target risk factors (e.g., early mutans streptococci contamination, poor oral hygiene habits,
124 nighttime feeding, high sugar consumption frequency) known to place children at a higher risk for
125 developing caries^{24,33,57,66}. Children are most likely to develop caries if mutans streptococci are acquired at
126 an early age (Harris et al 2004, Berkowitz 2006). The characteristics of ECC and the availability of

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

127 preventive approaches support age-based strategies in addressing this significant pediatric health problem
128 (Berkowitz 2006). ECC can be a costly, devastating disease with lasting detrimental effects on the
129 dentition and systemic health (AAPD Policy ECC Classifications, AAPD Policy ECC Challenges,
130 Clarke et al 2006, Dye et al 2004, Jackson et al 2011, Davis, Deinard and Maiga 2010, Kobayashi et al
131 2005, Lee et al 2006, AAP 2011). Motivational problems may develop when parents/patients are not
132 interested in changing behaviors or feel that the changes require excessive effort. Therefore, it is
133 important that health care professionals utilize preventive approaches based on psychological and
134 behavioral strategies. Moreover, they should be sensitive to how they can effectively communicate their
135 recommendations so that parents/patients can perceive their recommendations as behaviors worth
136 pursuing. Two examples of effective motivational approaches used for caries prevention that share similar
137 psychological philosophies are motivational interviewing and self-determination theory⁶⁷⁻⁷³.

138
139 Consistently, studies have reported caries experience in the primary dentition as a predictor of future
140 caries⁷⁴. Early school-aged children are at a transition stage from primary to mixed dentition. These
141 children face challenges such as unsupervised toothbrushing and increased consumption of cariogenic
142 foods and beverages while at school, placing them at a higher risk for developing caries⁷⁵⁻⁷⁷. Therefore,
143 special attention should be given to school-aged children regarding their oral hygiene and dietary
144 practices.

145
146 Adolescence can be a time of heightened caries activity due to an increased number of tooth surfaces in
147 the permanent dentition and intake of cariogenic substances and, as well as low priority for oral
148 hygiene^{9,78} procedures (APA 2002). Risk assessment can assure preventive care (e.g., water fluoridation,
149 professional and home-use fluoride and antimicrobial agents, frequency of dental visits) is tailored to each
150 individual's needs and direct resources to those for whom preventive interventions provide the greatest
151 benefit⁹. Because a child's risk for developing dental disease can change over time due to changes in
152 habits (e.g., diet, home care), oral microflora, or physical condition, risk assessment must be documented
153 and repeated regularly and frequently to maximize effectiveness^{11,25}.

154 155 **Prophylaxis and professional topical fluoride treatment**

156 The interval for frequency of professional preventive services is based upon assessed risk for caries and
157 periodontal disease^{3,4,7,8,10,11,25,58,59,60}. Prophylaxis aids in plaque, stain, and calculus removal, as well as in
158 educating the patient on oral hygiene techniques and facilitating the clinical examination¹⁰. Gingivitis,

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

159 which is nearly universal in children and adolescents, ~~it~~ usually responds to thorough removal of bacterial
160 deposits and improved oral hygiene^{47,79,80}. Hormonal fluctuations, including those occurring during the
161 onset of puberty and adolescent pregnancy, can modify the gingival inflammatory response to dental
162 plaque^{47,48,81}. Children can develop any of the several forms of periodontitis, with aggressive periodontitis
163 occurring more commonly in children and adolescents than adults^{47,48,80}.

164
165 ~~Caries risk may change quickly during active dental eruption phases. Newly erupted teeth may be at~~
166 ~~higher risk of developing caries, especially during the post eruption maturation process. Children who~~
167 exhibit higher risk of developing caries and/or periodontal disease would benefit from recall appointments
168 at greater frequency (e.g., every three months) than every six months^{3,4,8,10,11,25,59}. This allows increased
169 professional fluoride therapy application and improvement of oral health by demonstrating proper oral
170 hygiene techniques, in addition to microbial monitoring, antimicrobial therapy reapplication, and
171 reevaluation of behavioral changes for effectiveness^{3,10,48,59,82-84}.

172
173 Fluoride contributes to the prevention, inhibition, and reversal of caries⁸⁵⁻⁸⁷ (CDC 2001). Professional
174 topical fluoride treatments should be based on caries risk assessment and be part of a comprehensive
175 preventive program in a dental home^{19,25,86,89} (CDC 2001, ~~Facts about Fluoride 2006, ADA Fluoride~~
176 ~~2006~~). Plaque and pellicle are not a barrier to fluoride uptake in enamel¹⁰ (Johnston and Lewis 1995, Ripa
177 1984, Bader, Shugars and Bonito 2001). Consequently, there is no evidence of a difference in caries rates
178 or fluoride uptake in patients who receive rubber cup prophylaxis or a toothbrush prophylaxis before
179 fluoride treatment^{88,89} (Johnston and Lewis 1995, Ripa 1984). ~~Precautionary measures should be taken to~~
180 ~~prevent swallowing of any professionally applied topical fluoride. Children at moderate caries risk should~~
181 ~~receive a professional fluoride treatment at least every six months; those with high caries risk should~~
182 receive greater frequency of professional fluoride applications (e.g., every three ~~to six~~ months)^{85,89-92}
183 (Bader, Shugars and Bonito 2001).

184
185

186 **Fluoride supplementation**

187 ~~Fluoride contributes to the prevention, inhibition, and reversal of caries (Adair 2006, AAPD Guideline~~
188 ~~Fluoride Therapy, CDC 2001, Timanoff 2009)~~. The AAPD encourages optimal fluoride exposure for
189 every child, recognizing fluoride in the community water supplies as the most beneficial and cost-
190 effective preventive intervention. Fluoride supplementation should be considered for children at moderate

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

191 to high caries risk when fluoride exposure is not optimal⁸⁵. Determination of dietary fluoride sources (e.g.,
192 drinking water, toothpaste, foods, beverages) before prescribing supplements is required and can help
193 reduce intake of excess fluoride⁸⁵. In addition, supplementation should be in accordance with the
194 guidelines recommended by the AAPD^{85,93,94}.

195

196 **Radiographic assessment**

197 Radiographs are a valuable adjunct in the oral health care of infants, children, and adolescents
198 used to diagnose and monitor oral diseases, evaluate dentoalveolar trauma, as well as monitor dentofacial
199 development and the progress of therapy⁴⁵. Timing of initial radiographic examination should not be
200 based on the patient's age, but upon each child's individual circumstances^{45,46}. The need for dental
201 radiographs can be determined only after consideration of the patient's medical and dental histories,
202 completion of a thorough clinical examination, and assessment of the patient's vulnerability to
203 environmental factors that affect oral health⁴⁵. Every effort must be made to minimize the patient's
204 exposure by applying good radiological practices (e.g., use of protective aprons and thyroid collars, when
205 appropriate) and by following the ALARA Principle (As Low as Reasonably Achievable)⁴⁵.

206

207 **Anticipatory guidance/counseling**

208 Anticipatory guidance is the process of providing practical, developmentally-appropriate information
209 about children's health to prepare parents for the significant physical, emotional, and psychological
210 milestones^{2,9,19,20,95,96}. Individualized discussion and counseling should be an integral part of each visit.
211 Topics to be included are oral/dental development, growth and speech/language development,
212 nonnutritive habits, diet and nutrition, injury prevention, development, tobacco use, substance use/abuse,
213 intraoral/perioral piercing and oral jewelry/accessories^{2,9,15,19,27,95-102}.

214

215 Anticipatory guidance regarding the characteristics of a normal healthy oral cavity should occur during
216 infant oral health visits and throughout follow-up dental visits. This allows parents to measure against any
217 changes such as, but not limited to, growth delays, traumatic injuries, and presence of poor oral hygiene
218 or caries. Tooth development and chronology of eruption can help parents better understand the
219 implications of delayed or accelerated tooth emergence, the role of fluorides in newly erupted teeth that
220 may be at higher risk of developing caries, especially during the post-eruption maturation process⁹⁵.
221 Assessment of developmental milestones (i.e., fine/gross motor skills, language, social interactions) is
222 crucial for early recognition of potential delays and appropriate referral to therapeutic services²⁹. Speech

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

223 and language are integral components of a child's early development¹⁰¹. Deficiencies and abnormal
224 delays in speech and language production can be recognized early and referral made to address these
225 concerns. Communication and coordination of appliance therapy with a speech and language professional
226 can assist in the timely treatment of speech disorders¹⁰¹.

227
228 Oral habits (e.g., nonnutritive sucking - digital and pacifier habits, bruxism, tongue thrust swallow and
229 abnormal tongue position, abnormal tongue thrusts, self-injurious/self-mutilating behavior) may apply
230 forces to teeth and dentoalveolar structures. Although early use of pacifiers and digit sucking are
231 considered normal, habits of sufficient frequency, intensity, and duration can contribute to deleterious
232 changes in occlusion and facial development²⁷. It is important to discuss the need for early pacifier and
233 digit sucking, then the need to wean from the habits before malocclusion or skeletal dysplasias occur²⁷.
234 Early dental visits provide an opportunity to encourage parents to help their children stop sucking habits
235 by age three years or younger. For school-aged children and adolescent patients, counseling regarding any
236 existing habits (e.g., fingernail biting, clenching, bruxism) is appropriate²⁷. Parents should be provided
237 with information regarding the potential immediate and long-term effects on the craniofacial complex and
238 dentition from a habit. If treatment is indicated, habit treatment include patient/parent counseling,
239 behavior modification techniques, appliance therapy, or referral to other providers including, but not
240 limited to, orthodontists, psychologists, or otolaryngologists²⁷.

241
242 Oral hygiene counseling involves the parent and patient. Initially, oral hygiene is the responsibility of the
243 parent. As the child develops, home care is performed jointly by parent and child. When a child
244 demonstrates the understanding and ability to perform personal hygiene techniques, the health care
245 professional should counsel the child. The effectiveness of home care should be monitored at every visit
246 and includes a discussion on the consistency of daily oral hygiene preventive activities, including
247 adequate fluoride exposure^{3,4,9,25,85,103}.

248
249 ~~Caries conducive dietary practices~~ The development of dietary habits and childhood food preferences
250 appear to be established early and may affect the oral health as well as general and well-being of a
251 child¹⁰⁴, probably by 12 months of age, and are maintained throughout early childhood (Douglass 2000,
252 Reisine and Douglass 1998). The establishment of a dental home no later than 12 months of age allows
253 dietary and nutrition counseling to occur early. This helps parents to develop proper oral health habits
254 early in their child's life, rather than trying to change established unhealthy habits later. During infancy,

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

255 counseling should focus on breastfeeding, bottle or no-spill cup usage, concerns with nighttime feedings,
256 frequency of in-between meal consumption of sugar-sweetened beverages (e.g., sweetened milk, 100
257 percent juice, soft drinks, fruit drinks, sports drinks) and snacks, as well as special diets²⁶. Dietary-
258 practices, including prolonged and/or frequent bottle or training cup with sugar-containing drinks and
259 frequent between-meal consumption of sugar-containing snacks or drinks (e.g., juice, formula, soda),
260 increase the risk of caries (Reisine and Douglass 1998, Tinanoff and Palmer 2000). The role of
261 carbohydrates in caries initiation is unequivocal. Acids in carbonated beverages and sports drinks can
262 have a deleterious effect (i.e., erosion) on enamel (Li, Zou and Dig 2012, Jawale et al 2012, Gambon et al
263 2014). Excess consumption of carbohydrates, fats, and sodium contribute to poor systemic health¹⁰⁵⁻¹⁰⁷.
264 Dietary analysis and the role of dietary choices on oral health, malnutrition, and obesity should be
265 addressed through nutritional and preventive oral health counseling at periodic visits^{26,108}. The U.S.
266 Department of Health and Human Services and the U.S. Department of Agriculture Food Plate (USDA)-
267 and Center for Disease Control and Prevention/National Center for Health Statistics' Growth Charts
268 (CDC Growth Charts) provide dietary guidelines every five years to help Americans two years of age and
269 older make healthy choices to help prevent chronic diseases and promote a healthy diet¹⁰⁹ guidance for
270 parents and their children and promote better understanding of the relationship between healthy diet and
271 development.

272
273 Traumatic dental injuries that occur in preschool, school-age children, and young adults comprise 5
274 percent of all injuries for which treatment is sought for¹¹⁰. Facial trauma that results in fractured,
275 displaced, or lost teeth can have significant negative functional, esthetic, and psychological effects on
276 children¹¹¹ (Cortes, Marenes and Shelham 2002). Practitioners should provide age-appropriate injury
277 prevention counseling for oro-facial trauma^{15,96}. Initially, discussions would include advice regarding play
278 objects, pacifiers, car seats, and electrical cords. As motor coordination develops and the child grows
279 older, the parent/patient should be counseled on additional safety and preventive measures, including use
280 of athletic mouthguards for sporting activities. The greatest incidence of trauma to the primary dentition
281 occurs at two to three years of age, a time of increased mobility and developing coordination (Flores
282 2002). The most common injuries to permanent teeth occur secondary to falls, followed by traffic-
283 accidents, violence, and sports (Rocha and Cardoso 2001, Caldas and Burgos 2001, Skaare and Jacobsen
284 2003, Tapias et al 2003). Dental injuries could have improved outcomes not only if the public were aware
285 of first-aid measures and the need to seek immediate treatment, but also if the injured child had access to
286 emergency care at all times. Concerns with caregivers' dissatisfaction with experienced barriers to access

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

287 care, specifically the referral out of the dental home for emergency dental care, have been reported¹¹².

288 Therefore, it is important that all primary care providers inform parents about ways to access emergency

289 care for dental injuries and provide telephone numbers to access a dentist, including for after-hours

290 emergency care¹¹³.

291

292 ~~Nonnutritive oral habits (e.g., digital and pacifier habits, bruxism, abnormal tongue thrusts) may apply~~

293 ~~forces to teeth and dentoalveolar structures (AAPD Guideline Developing Dentition). Although early use~~

294 ~~of pacifiers and digit sucking are considered normal, habits of sufficient frequency, intensity, and duration~~

295 ~~can contribute to deleterious changes in occlusion and facial development (AAPD Guideline Developing~~

296 ~~Dentition). It is important to discuss the need for early pacifier and digit sucking, then the need to wean~~

297 ~~from the habits before malocclusion or skeletal dysplasias occur (AAPD Guideline Developing~~

298 ~~Dentition). Early dental visits provide an opportunity to encourage parents to help their children stop~~

299 ~~sucking habits by age three years or younger. For school aged children and adolescent patients,~~

300 ~~counseling regarding any existing habits (e.g., fingernail biting, clenching, bruxism) is appropriate~~

301 ~~(AAPD Guideline Developing Dentition).~~

302

303 ~~Speech and language are integral components of a child's early development (American Speech~~

304 ~~Language Hearing Association). Deficiencies and abnormal delays in speech and language production~~

305 ~~can be recognized early and referral made to address these concerns. Communication and coordination of~~

306 ~~appliance therapy with a speech and language professional can assist in the timely treatment of speech~~

307 ~~disorders (American Speech Language Hearing Association).~~

308 ~~Smoking and smokeless tobacco use almost always are initiated and established in adolescence¹¹⁴⁻¹¹⁶~~

309 ~~(CDC 1994). During this time period, children may be exposed to opportunities to experiment with other~~

310 ~~substances that negatively impact their health and well-being. The most common tobacco products~~

311 ~~include cigarettes, cigars, hookahs, snus, smokeless tobacco, pipes, bidis and kreteks (unfiltered cigarettes~~

312 ~~from India), dissolvable tobacco, and electronic cigarettes. In 2016, 7.2 percent of middle school students~~

313 ~~and 20.2 percent of high school students reported current tobacco product use¹¹⁷. E-cigarette use rose~~

314 ~~from 1.5 percent to 16.0 percent among high school students and from 0.6 percent to 5.3 percent among~~

315 ~~middle school students from 2011 to 2015¹¹⁷. Practitioners should provide education regarding the serious~~

316 ~~health consequences of tobacco use and exposure to second hand smoke^{97,117} (CDC 1994). The~~

317 ~~practitioner may need to obtain information regarding tobacco use and alcohol/drug abuse confidentially~~

318 ~~from an adolescent patient^{9,100}. When tobacco or substance abuse has been identified, practitioners should~~

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

319 provide brief interventions for encouragement, support, and positive reinforcement for avoiding substance
320 use^{97,100} referral for appropriate intervention is indicated. If indicated, dental practitioners should provide
321 referrals to primary care providers or behavioral-health/addiction specialists for assessment and/or
322 treatment of substance use disorders in adolescents¹⁰⁰.

323
324 Complications from intraoral/perioral piercings can range from pain, infection, and tooth fracture to life-
325 threatening conditions of bleeding, edema, and airway obstruction⁹⁹. Although piercings most commonly
326 are observed in the teenaged pediatric dental patient, education regarding pathologic conditions and
327 sequelae associated with these piercings should be initiated for the preteen child/parent and reinforced
328 during subsequent periodic visits (~~AAPD Policy Intraoral/Perioral Piercing~~). The AAPD strongly opposes
329 the practice of piercing intraoral and perioral tissues and use of jewelry on intraoral and perioral tissues
330 due to the potential for pathological conditions and sequelae associated with these practices⁹⁹.

331
332 **Radiographic assessment**
333 ~~Appropriate radiographs are a valuable adjunct in the oral health care of infants, children, and adolescents~~
334 ~~(AAPD Guideline Radiographs, ADA—The Use of Dental Radiographs; Update and Recommendations~~
335 ~~2006). Timing of initial radiographic examination should not be based on the patient’s age (ADA—The~~
336 ~~Use of Dental Radiographs; Update and Recommendations 2006). Rather, after review of an individual’s~~
337 ~~history and clinical findings, judicious determination of radiographic needs and examination can optimize~~
338 ~~patient care while minimizing radiation exposure (AAPD Guideline Radiographs, ADA—The Use of~~
339 ~~Dental Radiographs; Update and Recommendations 2006). The U.S. Food and Drug Administration/ADA~~
340 ~~guidelines were developed to assist the dentist in deciding under what circumstances specific radiographs~~
341 ~~are indicated (ADA—The Use of Dental Radiographs; Update and Recommendations 2006).~~

342
343 **Treatment of dental disease/injury**
344 Health care providers who diagnose oral disease or trauma should either provide therapy or refer the
345 patient to an appropriately trained individual for treatment¹¹⁸. Immediate intervention is necessary to
346 prevent further dental destruction, as well as more widespread health problems. Postponed treatment can
347 result in exacerbated problems that may lead to the need for more extensive care^{22,34,35,40}. Early
348 intervention could result in savings of health care dollars for individuals, community health care
349 programs, and third-party payors^{22,34,35,37,40}.

350

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

351 **Treatment of developing malocclusion**

352 Guidance of eruption and development of the primary, mixed, and permanent dentitions is an integral
353 component of comprehensive oral health care for all pediatric dental patients²⁷. Dentists have the
354 responsibility to recognize, diagnose, and manage or refer abnormalities in the developing dentition as
355 dictated by the complexity of the problem and the individual clinician’s training, knowledge, and
356 experience¹¹⁸. Early diagnosis and successful treatment of developing malocclusions can have both short-
357 term and long-term benefits, while achieving the goals of occlusal harmony and function and dentofacial
358 esthetics¹¹⁹ (Kanellis 2001, Woodside 2000, Kuroi 2002, Sankey et al 2000). Early treatment is beneficial
359 for many patients, but is not indicated for every patient. When there is a reasonable indication that an oral
360 habit will result in unfavorable sequelae in the developing permanent dentition, any treatment must be
361 appropriate for the child’s development, comprehension, and ability to cooperate. Use of an appliance is
362 indicated only when the child wants to stop the habit and would benefit from a reminder²⁷. At each stage
363 of occlusal development, the objectives of intervention/treatment include: (1) reversing adverse growth,
364 (2) preventing dental and skeletal disharmonies, (3) improving esthetics of the smile, (4) improving self-
365 image, and (5) improving the occlusion²⁷.

366

367 **Sealants**

368 A 2016 systematic review concluded sealants are effective in preventing and arresting pit-and-fissure
369 occlusal caries lesions of primary and permanent molars in children and adolescents and can minimize the
370 progression of noncavitated occlusal caries lesions¹²⁰. ~~Sealants reduce the risk of pit and fissure caries in~~
371 ~~susceptible teeth and are cost effective when maintained (Feigal 2002, Feigal and Donly 2006, AAPD-~~
372 ~~Policy on Policy on Third party Reimbursement of Fees Related to Dental Sealants, Beauchamp et al~~
373 ~~2008, Isman 2010).~~ They are indicated for primary and permanent teeth with pits and fissures that are
374 predisposed to plaque retention¹²¹. At-risk pits and fissures should be sealed as soon as possible. Because
375 caries risk may increase at any time during a patient’s life due to changes in habits (e.g., dietary, home
376 care), oral microflora, or physical condition, unsealed teeth subsequently might benefit from sealant
377 application¹²² (Feigal 2002). The need for sealant placement should be reassessed at periodic preventive
378 care appointments. Sealants should be monitored and repaired or replaced as needed¹²¹⁻¹²³.

379

380 **Third molars**

381 Panoramic or periapical radiographic assessment is indicated during late adolescence to assess the
382 presence, position, and development of third molars^{45,46} (ADA — The Use of Dental Radiographs; Update-

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

383 and Recommendations 2006). A decision to remove or retain third molars should be made before the
384 middle of the third decade^{124,125}. Impacted third molars are potentially pathologic. Pathologic conditions
385 generally are more common with an increase in age. Evaluation and treatment may require removal,
386 exposure, and/or repositioning. In selected cases, long-term clinical and radiographic monitoring may be
387 needed. Treatment should be provided before pathologic conditions adversely affect the patient's oral
388 and/or systemic health^{119,124,125}. Consideration should be given to removal when there is a high probability
389 of disease or pathology and/or the risks associated with early removal are less than the risks of later
390 removal^{14,119,125}. Postoperative complications for removal of impacted third molars are low when
391 performed at an early age. A Cochrane review in 2012 reported that there was no difference in late lower
392 incisor crowding with removal or retention of asymptomatic impacted third molars¹²⁶.

393

394 **Referral for regular and periodic dental care**

395 As adolescent patients approach the age of majority, it is important to educate the patient and parent on
396 the value of transitioning to a dentist who is knowledgeable in adult oral health care. At the time agreed
397 upon by the patient, parent, and pediatric dentist, the patient should be referred to a specific practitioner in
398 an environment sensitive to the adolescent's individual needs^{9,127}. Until the new dental home is
399 established, the patient should maintain a relationship with the current care provider and have access to
400 emergency services. For the patient with special health care needs, in cases where it is not possible or
401 desired to transition to another practitioner, the dental home can remain with the pediatric dentist and
402 appropriate referrals for specialized dental care should be recommended when needed¹²⁷. Proper
403 communication and records transfer allow for consistent and continuous care for the patient⁴².

404

405 **Recommendations by age**

406 **6 to 12 months**

- 407 1. Complete the clinical oral examination with adjunctive diagnostic tools (e.g., radiographs as
408 determined by child's history, clinical findings, and susceptibility to oral disease) to assess oral
409 growth and development, pathology, and/or injuries; provide diagnosis.
- 410 2. Complete a caries risk assessment.
- 411 3. Provide oral hygiene counseling for parents.
- 412 3. Clean and rRemove supragingival and subgingival stains or deposits as indicated.
- 413 4. Assess the child's systemic and topical fluoride status (including type of infant formula used, if
414 any, and exposure to fluoridated toothpaste) and provide counseling regarding fluoride.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 415 Prescribe systemic fluoride supplements, if indicated, following assessment of total fluoride
416 intake from drinking water, diet, and oral hygiene products.
- 417 5. Assess appropriateness of feeding practices, including bottle and breast-feeding, and provide
418 counseling as indicated-
- 419 ~~6. Provide dietary counseling related to oral health.~~
- 420 7. Provide age-appropriate injury prevention counseling for orofacial trauma.
- 421 8. Provide counseling for nonnutritive oral habits (e.g., digit, pacifiers).
- 422 9. Provide required treatment and/or appropriate referral for any oral diseases or injuries.
- 423 10. Provide anticipatory guidance.
- 424 11. Assess overall growth and development and make appropriate referral to therapeutic services if
425 needed.
- 426 ~~12. Consult with the child's physician as needed.~~
- 427 ~~12. Complete a caries risk assessment.~~
- 428 14. Determine the interval for periodic reevaluation based on the child's individual needs or risk
429 status/susceptibility to disease.

430

431 **12 to 24 months**

- 432 1. Repeat the procedures for ages six to 12 months every six months or as indicated by the child's
433 individual needs or risk status/susceptibility to disease ~~individual patient's risk~~
434 ~~status/susceptibility to disease.~~
- 435 2. Assess appropriateness of feeding practices (including bottle, breast-feeding, and no-spill
436 training cups) and provide counseling as indicated.
- 437 3. Review patient's fluoride status (~~including any childcare arrangements which may impact~~
438 ~~systemic fluoride intake~~) and provide parental counseling.
- 439 4. Provide topical fluoride treatments every six months or as indicated by the child's individual
440 needs or risk status/susceptibility to disease.

441

442 **2 to 6 years**

- 443 1. Repeat the procedures for 12 to 24 months every six months or as indicated by the child's
444 individual needs or risk status/susceptibility to disease. Provide age-appropriate oral hygiene
445 instructions.
- 446 2. Scale and clean the teeth every six months or as indicated by individual patient's needs.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 447 3. Provide pit and fissure sealants for caries-susceptible primary molars and permanent molars,
448 premolars, and anterior teeth.
- 449 4. Provide counseling and services (e.g., mouthguards) as needed for orofacial trauma prevention.
- 450 5. Provide assessment/treatment or referral of developing malocclusion as indicated by individual
451 patient's needs.
- 452 6. Provide required treatment and/or appropriate referral for any oral diseases, habits, or injuries
453 as indicated.
- 454 7. Assess speech and language development and provide appropriate referral as indicated.
455

456 **6 to 12 years**

- 457 1. Repeat the procedures for ages two to six years every six months or as indicated by the child's
458 individual needs or risk status/susceptibility to disease~~individual patient's risk~~
459 ~~status/susceptibility to disease~~.
- 460 2. Provide substance abuse counseling and/or referral to primary care providers or behavioral-
461 health/addiction specialists if indicated (e.g., smoking, smokeless tobacco).
- 462 3. Provide counseling on intraoral/perioral piercing.
463

464 **12 years and older**

- 465 1. Repeat the procedures for ages six to 12 years every six months or as indicated by the child's
466 individual needs or risk status/susceptibility to disease~~individual patient's risk~~
467 ~~status/susceptibility to disease~~.
- 468 2. During late adolescence, assess the presence, position, and development of third molars, giving
469 consideration to removal when there is a high probability of disease or pathology and/or the
470 risks associated with early removal are less than the risks of later removal.
- 471 3. At an age determined by patient, parent, and pediatric dentist, refer the patient to a general
472 dentist for continuing oral care.
473

474 **References**

- 475 1. U.S. Dept of Health and Human Services. Office of the Surgeon General. A national call to action
476 to promote oral health. Rockville, MD: U.S. Department of Health and Human Services, Public
477 Health Service, National Institutes of Health, National Institute of Dental and Craniofacial
478 Research; 2003.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 479 2. American Academy of Pediatric Dentistry. ~~Guideline~~ Best practices on perinatal and infant oral
480 health care. Pediatr Dent 20122017;3439(special issue):132-6208-12.
- 481 3. Pienihakkinen K, Jokela J, Alanen P. Risk-based early prevention in comparison with routine
482 prevention of dental caries: A 7-year follow-up of a controlled clinical trial; clinical and economic
483 results. BMC Oral Health 2005;5(2):1-5.
- 484 4. Beil HA, Rozier RG. Primary health care providers' advice for a dental checkup and dental use in
485 children. Pediatr 2010;126(2):435-41.
- 486 5. Fontana M. Noninvasive caries risk-based management in private practice settings may lead to
487 reduced caries experience over time. J Evid Based Dent Pract 2016;16(4):239-42.
- 488 6. Fontana M, González-Cabezas C. The clinical, environmental, and behavioral factors that foster
489 early childhood caries: evidence for caries risk assessment. Pediatr Dent 2015;37(3):217-25.
- 490 7. Patel S, Bay C, Glick M. A systematic review of dental recall intervals and incidence of dental
491 caries. J Am Dent Assoc 2010;141(5):527-39.
- 492 8. Pahel BT, Rozier RG, Stearns SC, Quiñonez RB. Effectiveness of preventive dental treatments by
493 physicians for young Medicaid enrollees. Pediatr 2011;127(3):682-9.
- 494 9. American Academy of Pediatric Dentistry. ~~Guideline~~ Best practices on adolescent oral health care.
495 Pediatr Dent 20122017;3439(special issue):137-44213-20.
- 496 10. American Academy of Pediatric Dentistry. Policy on the role of dental prophylaxis in pediatric
497 dentistry. Pediatr Dent 20122017;3439(special issue):141-247-8.
- 498 11. Ramos-Gomez FJ, Crystal YO, Ng MW, Crall JJ, Feath-erstone JBD. Pediatric dental care:
499 Prevention and management protocols based on caries risk assessment. CDAJ 2010;38(10):746-61.
- 500 12. American Academy of Pediatric Dentistry. ~~Guideline~~ Best practices on pediatric restorative
501 dentistry. Pediatr Dent 20122017;3439(special issue):214-21312-24.
- 502 13. American Academy of Pediatric Dentistry. Best practices on acquired temporomandibular disorders
503 in infants, children, and adolescents. Pediatr Dent 20122017;3439(special issue):258-63354-60.
- 504 14. American Academy of Pediatric Dentistry. ~~Guideline~~ Best practices on management considerations
505 for pediatric oral surgery and oral pathology. Pediatr Dent 20122017;3439(special issue):264-
506 71361-70.
- 507 15. American Academy of Pediatric Dentistry. Policy on prevention of sports-related orofacial injuries.
508 Pediatr Dent 20122017;3439(special issue):67-7185-9.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 509 16. Diangelis AJ, Andreasen JO, Ebeleseder KA, et al. International Association of Dental
510 Traumatology Guidelines for the Management of Traumatic Dental Injuries: 1. Fractures and
511 luxations of permanent teeth. Dent Traumatol 2012;28(1):2-12.
- 512 17. Andersson L, Andreasen JO, Day P, et al. International Association of Dental Traumatology
513 Guidelines for the Management of Traumatic Dental Injuries: 2. Avulsion of permanent teeth. Dent
514 Traumatol 2012;28(2):88-96.
- 515 18. Malmgren B, Andreasen JO, Flores MT, et al. International Association of Dental Traumatology
516 Guidelines for the Management of Traumatic Injuries: 3. Injuries in the primary dentition. Dent
517 Traumatol 2012;28(3):174-82.
- 518 19. American Academy of Pediatric Dentistry. Policy on the dental home. Pediatr Dent
519 ~~2012~~2017;3439(special issue):24-529-30.
- 520 20. American Academy of Pediatrics. Oral health risk assessment timing and establishment of the
521 dental home. Pediatr 2003;11(5):1113-6. Reaffirmed 2009;124(2):845.
- 522 21. American Academy of Pediatrics Council on Children with Disabilities. Care coordination:
523 Integrating health and related systems of care for children with special health care needs, Pediatrics.
524 2005;116(5):1238-44.
- 525 22. Berg JH, Stapleton FB. Physician and dentist: New initiatives to jointly mitigate early childhood
526 oral disease. Clin Pediatr 2012;51(6):531-7.
- 527 23. Kempe A, Beaty B, Englund BP, et al: Quality of care and use of the medical home in a state-
528 funded capitated primary care plan for low- income children, Pediatrics 2000;105(5):1020-28.
- 529 24. American Academy of Pediatric Dentistry. Policy on early childhood caries (ECC): Classifications,
530 consequences, and preventive strategies. Pediatr Dent ~~2012~~2017;3439(special issue):50-259-61.
- 531 25. American Academy of Pediatric Dentistry. Guideline Best practices on caries risk assessment and
532 management for infants, children, and adolescents. Pediatr Dent ~~2012~~2017;3439(special issue):123-
533 ~~30~~197-204.
- 534 26. American Academy of Pediatric Dentistry. Policy on dietary recommendations for infants, children,
535 and adolescents. Pediatr Dent ~~2012~~2017;3439(special issue):56-864-6.
- 536 27. American Academy of Pediatric Dentistry. Best Practices on management of the developing
537 dentition and occlusion in pediatric dentistry. Pediatr Dent ~~2012~~2017;3439(special issue):239-
538 ~~51~~334-47.
- 539 28. Tseng R, Vann WF Jr, Perrin EM: Addressing childhood overweight and obesity in the dental
540 office: Rationale and practical guidelines, Pediatr Dent 2010;32(5):417-23.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 541 29. Scharf RJ, Scharf GJ, Stroustrup A. Developmental milestones. *Pediatr Rev* 2016;37(1):25-37.
- 542 30. Brown EJ: Children’s dental visits and expenses, United States, 2003. Statistical Brief no. 117. In:
- 543 Quality AFHRA, ed. Rockville, Md; AHRQ Publication: 2006.
- 544 31. Selden TM: Compliance with well-child visit recommendations: Evidence from the Medical
- 545 Expenditure Panel Survey, 2000-2002, *Pediatrics* 2016;118(6):e1766–78.
- 546 32. American Academy of Pediatric Dentistry. ~~Guideline~~ Best practices on management of ~~persons~~
- 547 dental patients with special health care needs. *Pediatr Dent* ~~2012~~2017;3439(special issue):~~152-~~
- 548 ~~7229-34.~~
- 549 33. American Academy of Pediatric Dentistry. Policy on early childhood caries (ECC): Unique
- 550 challenges and treatment options. *Pediatr Dent* ~~2012~~2017;3439(special issue):~~53-562-3.~~
- 551 34. Clarke M, Locker D, Berall G, Pencharz P, Kenny DJ, Judd P. Malnourishment in a population of
- 552 young children with severe early childhood caries. *Pediatr Dent* 2006;28(3):254-9.
- 553 35. Dye BA, Shenkin JD, Ogden CL, Marshall TA, Levy SM, Kanellis MJ. The relationship between
- 554 healthful eating practices and dental caries in children ages 2-5 years in the United States, 1988-
- 555 1994. *J Am Dent Assoc* 2004;135(1):55-6.
- 556 36. Jackson SL, Vann WF, Kotch J, Pahel BT, Lee JY. Impact of poor oral health on children’s school
- 557 attendance and performance. *Amer J Publ Health* 2011;10(10):1900-6.
- 558 37. Nowak AJ, Casamassimo PS, Scott J, Moulton R: Do early dental visits reduce treatment and
- 559 treatment costs for children? *Pediatr Dent* 2014;36(7):489–93.
- 560 38. Davis EE, Deinard AS, Maiga EW. Doctor, my tooth hurts: The costs of incomplete dental care in
- 561 the emergency room. *J Pub Health Dent* 2010;70(3):205-10.
- 562 39. Kobayashi M, Chi D, Coldwell SE, Domoto P, Milgrom P. The effectiveness and estimated costs of
- 563 the access to baby and child dentistry programs in Washington State. *J Am Dent Assoc*
- 564 2005;136(9):1257-63.
- 565 40. Lee JY, Bouwens TJ, Savage MF, Vann WF Jr. Examining the cost-effectiveness of early dental
- 566 visits. *Pediatr Dent* 2006;28(2):102-5, discussion 192-8.
- 567 41. American Academy of Pediatrics. Early childhood caries in indigenous communities. *Pediatr*
- 568 2011;127(6):1190-8.
- 569 42. American Academy of Pediatric Dentistry. Best practices on record-keeping. *Pediatr Dent*
- 570 ~~2012~~2017;3439(special issue):~~287-94~~389-96.
- 571 43. Dean JA. Examination of the mouth and other relevant structures. In: Dean JA, ed. McDonald and
- 572 Avery’s Dentistry for the Child and Adolescent. 10th ed. St. Louis, Mo: Elsevier; 2016:1-16.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 573 44. Fontana M. Patient evaluation and risk assessment. In: Little JW, Falace DA, Miller CS, Rhodus,
574 NL eds. Dental Management of the Medically Compromised Patient. 8th ed. St. Louis, Mo:
575 Elsevier; 2013:1-18.
- 576 45. American Academy of Pediatric Dentistry. Guideline Best Practices on prescribing dental
577 radiographs for infants, children, adolescents, and individuals with special health care needs.
578 Pediatr Dent 20122017;3439(special issue):299-304205-7.
- 579 46. American Dental Association (ADA). Dental radiographic examinations: Recommendations for
580 patient selection and limiting radiation exposure. Available at:
581 [http://www.ada.org/~media/ADA/Publications/ADA%20News/Files/Dental Radiographic Exami](http://www.ada.org/~media/ADA/Publications/ADA%20News/Files/Dental_Radiographic_Exami)
582 [nations 2012.pdf?la=en](http://www.ada.org/~media/ADA/Publications/ADA%20News/Files/Dental_Radiographic_Exami)). Accessed August 15, 2017.
- 583 47. Califano JV, Research Science and Therapy Committee American Academy of Periodontology.
584 Periodontal diseases of children and adolescents. J Periodontol 2003;74(11):1696-704.
- 585 48. Clerehugh V. Periodontal diseases in children and adolescents. British Dental J 2008;204(8):469-
586 71.
- 587 49. Dye BA, Hsu K-L, Afful J. Prevalence and measurement of dental caries in young children. Pediatr
588 Dent 2015;37(3):200-16.
- 589 50. Tagliaferro EP, Pereina AC, Meneghin MDC, Ambrosoni GBM. Assessment of dental caries
590 prediction in a seven-year longitudinal study. J Pub Health Dent 2006;66(3):169-73.
- 591 51. American Academy of Pediatric Dentistry. Guideline Best practices on behavior guidance for the
592 pediatric dental patient. Pediatr Dent 20122017;3439(special issue):470-82246-59.
- 593 52. Crall JJ, Quinonez RB, Zandona AF: Caries risk assessment: rationale, uses, tools, and state of
594 development. In Berg JH, Slayton RL, editors: Early childhood oral health, Second Edition,
595 Hoboken, New Jersey, 2016, Wiley-Blackwell.
- 596 53. Fontana M, Zero DT. Assessing patients' caries risk. J Am Dent Assoc 2006;137(9):1231-9.
- 597 54. American Academy of Pediatric Dentistry. Policy on social determinants of children's oral health
598 and health disparities oral health programs for infants, children, and adolescents. Pediatr Dent
599 2017;39(special issue): 23-6.
- 600 55. Fisher-Owens SA, Gansky SA, Platt LJ, et al: Influences on children's oral health: A conceptual
601 model, Pediatrics 2007;120(3):e510-20.
- 602 56. Lee JY, Divaris K: The ethical imperative of addressing oral health disparities: A unifying
603 framework, J Dent Res 2014;93(3):224-30.
- 604 57. Seow KW: Environmental, maternal, and child factors which contribute to early childhood caries: a

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 605 unifying conceptual model, Int J Paediatr Dent 2012;22(3):157-68.
- 606 58. Domejean S, White JM, Featherstone JD. Validation of the CDA CAMBRA caries risk assessment:
607 A six year retrospective study. J Calif Dent Assoc 2011;39(10):709-15.
- 608 59. Ramos-Gomez F, Ng MW. Into the future: Keeping healthy teeth caries free: Pediatric CAMBRA
609 protocols. J Calif Dent Assoc 2011;39(10):723-33.
- 610 60. Harris R, Nicoll AD, Adair PM, Pine CM. Risk factors for dental caries in young children: A
611 systematic review of the literature. Community Dent Health 2004;21(suppl):71-85.
- 612 61. Ramos-Gomez FJ. A model for community-based pediatric oral health: implementation of an infant
613 oral care program. Int J Dent 2014;2014:156821.
- 614 62. Southward LH, Robertson A, Edelstein BL. Oral health of young children in Mississippi Delta child
615 care centers. A second look at early childhood caries risk assessment. J Public Health Dent
616 2008;68(4):188-95.
- 617 63. Nunn ME, Dietrich T, Singh HK, Henshaw MM, Kressin NR. Prevalence of early childhood caries
618 among very young urban Boston children compared with U.S. children. J Public Health Dent
619 2009;69(3):156-62.
- 620 64. Weber-Gasparoni K, Kanellis MJ, Qian F: Iowa's public health-based infant oral health program: A
621 decade of experience, J Dent Educ 2010;74(4):363-71.
- 622 65. Albino J, Tiwari T. Preventing childhood caries: a review of recent behavioral research. J Dent Res.
623 2016;95(1):35-42.
- 624 66. Plutzer K, Keirse MJ. Incidence and prevention of early childhood caries in one- and two-parent
625 families. Child Care Health Dev 2011;37(1):5-10.
- 626 67. Halvari AEM, Halvari H, Bjørnebekk G, Deci EL. Self-determined motivational predictors of
627 increases in dental behaviors, decreases in dental plaque, and improvement in oral health: a
628 randomized clinical trial. Health Psychol 2012;31(6):777-88.
- 629 68. Harrison RL, Veronneau J, Leroux B. Effectiveness of maternal counseling in reducing caries in
630 Cree children. J Dent Res 2012;91(11):1032-07.
- 631 69. Ismail AI, Ondersma S, Jedele JM, Little RJ, Lepkowski JM. Evaluation of a brief tailored
632 motivational intervention to prevent early childhood caries. Community Dent Oral Epidemiol
633 2011;39(5):433-48.
- 634 70. Miller WR, Rollnick S. Meeting in the middle: motivational interviewing and self-determination
635 theory. Int J Behav Nutr Phys Act 2012;2(9):25.
- 636 71. Riedy C, Weinstein P, Mancini L, et al. Dental attendance among low-income women and their

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 637 children following a brief motivational counseling intervention: A community randomized trial.
638 Social Science & Medicine. 2015;144:9-18.
- 639 72. Weber-Gasparoni K, Reeve J, Ghosheh N, et al. An effective psychoeducational intervention for
640 early childhood caries prevention: part I. Pediatr Dent 2013;35(3):241-6.
- 641 73. Weber-Gasparoni K, Warren JJ, Reeve J, et al. An effective psychoeducational intervention for
642 early childhood caries prevention: part II. Pediatr Dent 2013;35(3):247-51.
- 643 74. Mejäre I, Axelsson S, Dahlén D, et al. Caries risk-assesment: a systematic review. Acta Odontol
644 Scand 2014;72(2):81-91.
- 645 75. American Academy of Pediatric Dentistry. Policy on snacks and beverages sold in schools. Pediatr
646 Dent 2017;39(special issue): 67-8.
- 647 76. Marshall TA, Levy SM, Broffitt B, et al. Dental caries and beverage consumption in young
648 children. Pediatrics 2003;112(3Pt1):e184-e191.
- 649 77. Chankanka O, Marshall TA, Levy SM, Cavanaugh JE, Warren JJ, Broffitt B, Kolker JL. Mixed
650 dentition cavitated caries incidence and dietary intake frequencies. Pediatr Dent 2011;33(3):233-40.
- 651 78. Warren JJ, Van Buren JM, Levy SM, et al. Dental caries clusters among adolescents. Community
652 Dent Oral Epidemiol 2017 Jul 3. doi: 10.1111/cdoe.12317. [Epub ahead of print]
- 653 79. American Academy of Periodontology Research Science and Therapy Committee. Treatment of
654 plaque-induced gingivitis, chronic periodontitis, and other clinical conditions. J Periodontol
655 2001;72:1790-800. Erratum J Periodontol 2003;74(10):1568.
- 656 80. American Academy of Periodontology. Comprehensive periodontal therapy: A statement by the
657 American Academy of Periodontology. J Periodontol 2011;82(7):943-9.
- 658 81. American Academy of Pediatric Dentistry. Best practices on oral health care for the pregnant
659 adolescent. Pediatr Dent 2017;39(special issue): 221-8.
- 660 82. Anderson MH, Shi W. A probiotic approach to caries management. Pediatr Dent 2006;28(2):151-3.
- 661 83. Featherstone JDB. Caries prevention and reversal based on the caries balance. Pediatr Dent
662 2006;28(2):128-32.
- 663 84. Clerehugh V, Tugnait A. Periodontal diseases in children and adolescents: 2. Management. Dent
664 Update 2001;28(6):274-81.
- 665 85. American Academy of Pediatric Dentistry. ~~Guideline~~ Best practices on fluoride therapy. Pediatr
666 Dent 20122017;3439(special issue):167-70242-45.
- 667 86. Adair SM. Evidence-based use of fluoride in contemporary pediatric dental practice. Pediatr Dent
668 2006;28(2):133-42.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 669 87. Tinanoff N. Use of fluoride in early oral health. In: Early Childhood Oral Health. Berg JH, Slayton
670 RL, eds, ~~Wiley-Blackwell~~ John Wiley & Sons, Ames, Ia Hoboken, New Jersey ~~2009~~ 2016:92-
671 ~~109~~104-119.
- 672 88. Azarpazhooh A, Main PA. Efficacy of dental prophylaxis (rubber-cup) for the prevention of caries
673 and gingivitis: a systematic review of the literature. Brit Dent J 2009;207:E14.
- 674 89. Weyant RJ, Tracy SL, Anselmo TT, et al. Topical fluoride for caries prevention: Executive
675 summary of the updated clinical recommendations and supporting systemic review. J Amer Dent
676 Assoc 2013;144:1279-91.
- 677 90. Featherstone JD, Adair SM, Anderson MH, et al. Caries management by risk assessment:
678 Consensus statement, April 2002. J Calif Dent Assoc 2003;331(3):257-69.
- 679 91. Axelsson S, Söder B, Norderam G, et al. Effect of combined caries-preventive methods: A
680 systematic review of controlled clinical trials. Acta Odontol Scand 2004;62(3):163-9.
- 681 92. Källestål C. The effect of five years' implementation of caries-preventive methods in Swedish high-
682 risk adolescents. Caries Res 2005;39(1):20-6.
- 683 93. American Dental Association Council on Scientific Affairs. Professionally-applied topical fluoride:
684 Evidence-based clinical recommendations. J Am Dent Assoc 2006;137(8):1151-9.
- 685 94. Rozier RG, Adair, S, Graham F, et al. Evidence-based clinical recommendations on the prescription
686 of dietary fluoride supplements for caries prevention. J Am Dent Assoc 2010;141(12):1480-9.
- 687 95. Casamassimo PS, Nowak AJ: Anticipatory guidance. In Berg JH, Slayton RL, editors: Early
688 childhood oral health, 2nd edition, Hoboken, New Jersey, 2016, Wiley-Blackwell, pp 169-192.
- 689 96. Sigurdsson A. Evidence-based review of prevention of dental injuries. Pediatr Dent
690 2013;35(2):184-90.
- 691 97. American Academy of Pediatric Dentistry. Policy on tobacco use. Pediatr Dent
692 ~~2012~~2017;3439(special issue):61-469-73.
- 693 98. American Academy of Pediatric Dentistry. Policy on electronic cigarettes. Pediatr Dent 39(6):74-6.
- 694 99. American Academy of Pediatric Dentistry. Policy on intraoral/perioral piercing and oral
695 jewelry/accessories. Pediatr Dent ~~2012~~2017;3439(special issue):65-683-4.
- 696 100. American Academy of Pediatric Dentistry. Policy on substance abuse in adolescent dental patients.
697 Pediatr Dent 2017;39(special issue);77-80.
- 698 101. American Speech-Language-Hearing Association. Available at:
699 "http://www.asha.org/public/speech/development/chart.htm". Accessed August 23, 2017.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 700 102. Lewis CW, Grossman DC, Domoto PK, Deyo RA. The role of the pediatrician in the oral health of
701 children: A national survey. *Pediatrics* 2000;106(6):E84.
- 702 103. American Academy of Pediatric Dentistry. Policy on use of fluoride. *Pediatr Dent* 2017;39(6):49-
703 50.
- 704 104. Kranz S, Smiciklas-Wright H, Francis LA. Diet quality, added sugar, and dietary fiber intakes in
705 American pre-schoolers. *Pediatr Dent* 2006;28(2):164-71.
- 706 105. Drewnowski A. The cost of U.S. foods as related to their nutritive value. *Am J Clin Nutr*
707 2010;92(5):1181-8.
- 708 106. Ervin RB, Kit BK, Carroll MD, Ogden CL. Consumption of added sugar among U.S. children and
709 adolescents, 2005-2008. *NCHS Data Brief* 2012;3(87):1-8.
- 710 107. Mobley C, Marshall TA, Milgrom P, Coldwell SE. The contribution of dietary factors to dental
711 caries and disparities in caries. *Acad Pediatr* 2009;9(6):410-4.
- 712 108. U.S. Department of Agriculture. Center for Nutrition Policy and Promotion. USDA Food Patterns,
713 2015. Available at: "http://www.cnpp.usda.gov/USDAFoodPatterns". Accessed March 19, 2018.
- 714 109. U.S. Department of Health and Human Services and U.S. Department of Agriculture. 2015–2020
715 Dietary Guidelines for Americans, 8th ed, Washington, DC:U.S. Department of Health and Human
716 Services and U.S. Department of Agriculture; 2016.
- 717 110. Andreasen JO, Andreasen FM, Andersson L. Textbook and color atlas of traumatic injuries to the
718 teth, 4th edn. Oxford, UK: Wiley-Blackwell; 2007.
- 719 111. Lee JY, Divaris K. Hidden consequences of dental trauma: the social and psychological effects.
720 Pediatr Dent 2009;31(2):96-101.
- 721 112. Meyer BD, Lee JY, Lampiris LN, Mihos P, Vossers S, Divaris K. "They Told Me to Take Him
722 Somewhere Else": Caregivers' Experiences Seeking Emergency Dental Care for Their Children.
723 Pediatr Dent 2017;15:39(3):209-14.
- 724 113. American Academy of Pediatric Dentistry. Policy on emergency oral care for infants, children,
725 adolescents, and individuals with special health care needs. Pediatr Dent 2017;39(special issue):46.
- 726 114. American Lung Association. Stop Smoking. Available at: "http://www.lung.org/stop-smoking".
727 Accessed August 23, 2017.
- 728 115. Albert DA, Severson HH, Andrews JA. Tobacco use by adolescents: The role of the oral health
729 professional in evidence-based cessation program. *Pediatr Dent* 2006;28(2):177-87.
- 730 116. U.S. Dept of Health and Human Services. Preventing Tobacco Use Among Youth and Young
731 Adults: A Report of the Surgeon General. U.S. Department of Health and Human Services, Centers

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 732 for Disease Control and Prevention, Office on Smoking and Health, Atlanta, Georgia, 2012.
733 Available at: “http://www.cdc.gov/tobacco/data_statistics/sgr/2012/index.htm”. Accessed August
734 15, 2017.
- 735 117. Centers for Disease Control and Prevention (CDC). Tobacco use among middle and high school
736 students – United States, 2011-2016. Morbidity and Mortality Weekly Report. 2017; 66(23):597-
737 603.
- 738 118. American Academy of Pediatric Dentistry. Policy on ethical responsibility ~~to treat or refer~~ in the
739 oral health care management of infants, children, adolescents, and individuals with special health
740 care needs. Pediatr Dent 20132017;3539(special issue):406136-7.
- 741 119. ~~Bell RA, Dean JA, McDonald RE, Avery DR.~~ Managing the developing occlusion. In: Dean JA,
742 ~~McDonald RE, Avery DR,~~ Jones JE, Vinson LAW, eds. McDonald and Avery’s Dentistry for the
743 Child and Adolescent. ~~Maryland Heights~~ St. Louis, Mo: Mosby-Elsevier Co; 20112016:415-478.
- 744 120. Wright JT, Tampi MP, Graham L, et al. Sealants for preventing and arresting pit-and-fissure
745 occlusal caries in primary and permanent molars: A systematic review of randomized controlled
746 trials-a report of the American Dental Association and the American Academy of Pediatric
747 Dentistry. J Am Dent Assoc 2016;147(8):631-45.
- 748 121. Beauchamp J, Caufield PW, Crall JJ, et al. Evidence-based clinical recommendations for the use of
749 pit-and-fissure sealants. J Am Dent Assoc 2008;139(3):257-67.
- 750 122. Sasa I, Donly KJ. Dental sealants: A review of the materials. Calif Dent Assoc J 2010;38(10):730-
751 4.
- 752 123. American Academy of Pediatric Dentistry. Policy on third-party reimbursement of fees related to
753 dental sealants. Pediatr Dent ~~20122017;3439~~ (special issue):91-2120-1.
- 754 124. American Association of Oral and Maxillofacial Surgeons. Parameters and Pathways: Clinical
755 Practice Guidelines for Oral and Maxillofacial Surgery. Version 4.0. AAOMS ParCare 2007:69-72.
- 756 125. American Association of Oral and Maxillofacial Surgeons (AAOMS). Advocacy white paper on
757 third molar teeth (2016). Available at:
758 “[https://www.aaoms.org/docs/govt_affairs/advocacy_white_papers/management_third_molar_](https://www.aaoms.org/docs/govt_affairs/advocacy_white_papers/management_third_molar_white_paper.pdf)
759 [white_paper.pdf](https://www.aaoms.org/docs/govt_affairs/advocacy_white_papers/management_third_molar_white_paper.pdf)”. Accessed August 15, 2017.
- 760 126. Mettes TD, Ghaemina H, Nienhuijs ME, Perry J, van deer Sanden WJ, Plasschaert A. Surgical
761 removal versus retention for the management of asymptomatic impacted wisdom teeth. Cochrane
762 Database Syst Rev 2012;13(6):CD003879.
- 763 127. American Academy of Pediatric Dentistry. Policy on transitioning from a pediatric-centered to an

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 764 adult-centered dental home for individuals with special health care needs. *Pediatr Dent*
765 2017;39(special issue): 129-132.
- 766
- 767
- 768
- 769 ~~American Academy of Pediatrics. Tobacco use: A pediatric disease. *Pediatr* 2009;24(5):1474-87.~~
- 770 ~~American Dental Association Council on Scientific Affairs. The use of dental radiographs; Update and~~
771 ~~recommendations. *J Am Dent Assoc* 2006;137(9):1304-12.~~
- 772 ~~American Association of Oral and Maxillofacial Surgeons (AAOMS). Advocacy white paper on evidence~~
773 ~~based third molar surgery. Available at: “http://aaoms.org/advocacy_position_statements.php”.~~
774 ~~Accessed June 30, 2013.~~
- 775 ~~American Psychological Association. Developing adolescents: A reference for professionals. Washington,~~
776 ~~DC. American Psychological Association; 2002.~~
- 777 ~~Bader JD, Shugars DA, Bonito AJ. A systematic review of selected caries prevention and management~~
778 ~~methods. *Community Dent Oral Epidemiol* 2001;29(6):399-411.~~
- 779 ~~Berkowitz RJ. Mutans streptococci: Acquisition and transmission. *Pediatr Dent* 2006;28(2):106-9.~~
- 780 ~~Caldas FA Jr, Burgos ME. A retrospective study of traumatic dental injuries in a Brazilian dental trauma~~
781 ~~clinic. *Dental Traumatol* 2001;17(6):250-3.~~
- 782 ~~CDC, National Center for Health Statistics. Growth charts. Available at:~~
783 ~~“<http://www.cdc.gov/growthcharts/>”. Accessed March 11, 2013.~~
- 784 ~~CDC. Preventing tobacco use among young people: A report of the Surgeon General (executive~~
785 ~~summary). *MMWR Recomm Rep* 1994;43(RR-4):1-10.~~
- 786 ~~CDC. Recommendations for using fluoride to prevent and control dental caries in the United States.~~
787 ~~*MMWR Recomm Rep* 2001;50(RR14):1-42.~~
- 788 ~~Cortes MI, Marcenes W, Shelham A. Impact of traumatic injuries to the permanent teeth on the oral~~
789 ~~health related quality of life in 12- to 14-year-old children. *Comm Dent Oral Epidemiol*~~
790 ~~2002;30(3):193-8.~~
- 791 ~~Douglass JM. Response to Tinanoff and Palmer: Dietary determinants of dental caries and dietary~~
792 ~~recommendations for preschool children. *J Public Health Dent* 2000;60(3):207-9.~~
- 793 ~~Dye BA, Tan S, Smith V, et al. Trends in oral health status. United States, 1988-1984 and 1999-2004.~~
794 ~~*Vital Health Stat II* 2007;248:1-92.~~
- 795 ~~Facts about Fluoride. *CDS Rev* 2006;99(1):44.~~

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.


- 796 Featherstone JD. The caries balance: The basis for caries management by risk assessment. *Oral Health-*
797 *Prev Dent* 2004;2(suppl 1):259-64.
- 798 Feigal RJ, Donly KJ. The use of pit and fissure sealants. *Pediatr Dent* 2006;28(2):143-50.
- 799 Feigal RJ. The use of pit and fissure sealants. *Pediatr Dent* 2002;24(5):415-22.
- 800 Flores MT. Traumatic injuries in the primary dentition. *Dental Traumatol* 2002;18(6):287-98.
- 801 Gambon DL, Brand HS, Boutkabout C, Levie D, Veerman EC. Patterns in consumption of potentially-
802 erosive beverages among adolescent school children in the Netherlands. *Int Dent J* 2011;61(5):247-
803 51.
- 804 Greenwell H. Committee on Research, Science and Therapy American Academy of Periodontology.-
805 *Guidelines for periodontal therapy. J Periodontol* 2001;72(11):1624-8.
- 806 Isman R. Dental sealants: A public health perspective. *Calif Dent Assoc J* 2010;38(10):735-45.
- 807 Jawale BA, Bendgude V, Mahuli AV, Dave B, Kulkarni H, Mittal S. Dental plaque pH variation with
808 regular soft drink, diet soft drink, and high energy drink: An in vivo study. *J Contemp Dent Pract*
809 2012;13(2):201-4.
- 810 Johnston DW, Lewis DW. Three year randomized trial of professionally applied topical fluoride gel-
811 comparing annual and biannual applications with/without prior prophylaxis. *Caries Res*
812 1995;29(5):331-6.
- 813 Kanellis MJ. Orthodontic Treatment in the primary dentition. In Bishara SE, ed. *Textbook of*
814 *Orthodontics*. Philadelphia, Pa: WB Saunders Co; 2001:248-56.
- 815 Kuroi J. Early treatment of tooth eruption disturbances. *Am J Orthod Dentofacial Orthop*
816 2002;121(6):588-91.
- 817 Lewis DW, Ismail AI. Periodic health examination, 1995 Update: 2. Prevention of dental caries. The
818 *Canadian Task Force on the Periodic Health Examination. Can Med Assoc J* 1995;152(6):836-46.
- 819 Li Y, Wang W. Predicting caries in permanent teeth from caries in primary teeth: An eight year cohort
820 study. *J Dent Res* 2002;81(8):561-6.
- 821 Li H, Zou Y, Ding G. Dietary factors associated with dental erosion: A meta analysis. *PLoS One*
822 2012;7(8):e42626.doi:10.1371/journal.pone.0042626. Epub 2012 Aug 31.
- 823 Macgregor ID, Regis D, Balding J. Self concept and dental health behaviors in adolescents. *J Clin-*
824 *Periodontol* 1997;24(5):335-9.
- 825 Powell LV. Caries prediction: A review of the literature. *Community Dent Oral Epidemiol*
826 1998;26(6):361-76.

This draft does not constitute an official AAPD health oral policy or clinical recommendation until approval by the General Assembly. Circulation is limited to AAPD members.

- 827 Reisine S, Douglass JM. Psychosocial and behavioral issues in early childhood caries. *Comm Dent Oral*
828 *Epidem* 1998;26(suppl):132-44.
- 829 Ripa LW. Need for prior tooth cleaning when performing a professional topical fluoride application. A
830 review and recommendation for change. *J Am Dent Assoc* 1984;109(2):281-5.
- 831 Rocha MJdC, Cardoso M. Traumatized permanent teeth in Brazilian children assisted at the Federal
832 University of Santa Catarina, Brazil. *Dental Traumatol* 2001;17(6):245-9.
- 833 Sankey WL, Buschang PH, English J, Owen AH III. Early treatment of vertical skeletal dysplasia: The
834 hyper-divergent phenotype. *Am J Orthod Dentofacial Orthop* 2000;118(3):317-27.
- 835 Skaare AB, Jacobsen I. Dental injuries in Norwegians aged 7-18 years. *Dental Traumatol* 2003;19(2):67-
836 71.
- 837 Tapias MA, Jiménez-García R, Lamas F, Gil AA. Prevalence of traumatic crown fractures to permanent
838 incisors in a childhood population: Mostoles, Spain. *Dental Traumatol* 2003;19(3):119-22.
- 839 Tinanoff NT, Palmer C. Dietary determinants of dental caries in pre-school children and dietary
840 recommendations for pre-school children. *J Pub Health Dent* 2000;60(3):197-206.
- 841 U.S. Dept of Agriculture. Food Plate. Available at: "<http://www.choosemyplate.gov>". Accessed March
842 11, 2013.
- 843 U.S. Dept of Health and Human Services. Oral Health in America: A Report of the Surgeon General.
844 Rockville, Md: U.S. Dept of Health and Human Services, National Institute of Dental and
845 Craniofacial Research, National Institutes of Health; 2000.
- 846 Woodside DG. The significance of late developmental crowding to early treatment planning for incisor
847 crowding. *Am J Orthod Dentofacial Orthop* 2000;117(5):559-61.
- 848
- 849

Recommendations for Pediatric Oral Health Assessment, Preventive Services, and Anticipatory Guidance/Counseling

Since each child is unique, these recommendations are designed for the care of children who have no contributing medical conditions and are developing normally. These recommendations will need to be modified for children with special health care needs or if disease or trauma manifests variations from normal. The American Academy of Pediatric Dentistry (AAPD) emphasizes the importance of very early professional intervention and the continuity of care based on the individualized needs of the child. Refer to the text of this guideline for supporting information and references. Refer to the text in the Recommendations on the Periodicity of Examination, Preventive Dental Services, Anticipatory Guidance, and Oral Treatment for Infants, Children, and Adolescents (www.aapd.org/policies/) for supporting information and references.

 AMERICA'S PEDIATRIC DENTISTS THE BIG AUTHORITY on little teeth®	AGE				
	6 TO 12 MONTHS	12 TO 24 MONTHS	2 TO 6 YEARS	6 TO 12 YEARS	12 YEARS AND OLDER
Clinical oral examination ¹	●	●	●	●	●
Assess oral growth and development ²	●	●	●	●	●
Caries-risk assessment ³	●	●	●	●	●
Radiographic assessment ⁴	●	●	●	●	●
Prophylaxis and topical fluoride ^{3,4}	●	●	●	●	●
Fluoride supplementation ⁵	●	●	●	●	●
Anticipatory guidance/counseling ⁶	●	●	●	●	●
Oral hygiene counseling ⁷	Parent	Parent	Patient/parent	Patient/parent	Patient
Dietary counseling ⁸	●	●	●	●	●
Injury prevention counseling ⁹	●	●	●	●	●
Counseling for nonnutritive habits ¹⁰	●	●	●	●	●
Counseling for speech/language development	●	●	●		
Assessment and treatment of developing malocclusion			●	●	●
Assessment for pit and fissure sealants ¹¹			●	●	●
Substance abuse counseling				●	●
Counseling for intraoral/perioral piercing				●	●
Assessment and/or removal of third molars					●
Transition to adult dental care					●

1 First examination at the eruption of the first tooth and no later than 12 months. Repeat every 6 months or as indicated by child's risk status/susceptibility to disease. Includes assessment of pathology and injuries.

2 By clinical examination.

3 Must be repeated regularly and frequently to maximize effectiveness.

4 Timing, selection, and frequency determined by child's history, clinical findings, and susceptibility to oral disease.

5 Consider when systemic fluoride exposure is suboptimal. Up to at least 16 years.

6 Appropriate discussion and counseling should be an integral part of each visit for care.

7 Initially, responsibility of parent; as child matures, jointly with parent; then, when indicated, only child.

8 At every appointment; initially discuss appropriate feeding practices, then the role of refined carbohydrates and frequency of snacking in caries development and childhood obesity.

9 Initially play objects, pacifiers, car seats; when learning to walk; then with sports and routine playing, including the importance of mouthguards.

10 At first, discuss the need for additional sucking: digits vs pacifiers; then the need to wean from the habit before malocclusion or skeletal dysplasia occurs. For school-aged children and adolescent patients, counsel regarding any existing habits such as fingernail biting, clenching, or bruxism.

11 For caries-susceptible primary molars, permanent molars, premolars, and anterior teeth with deep pits and fissures; placed as soon as possible after eruption.