



Quarterly Community Provider Network (CPN) Meeting

Date: July 30, 2019 Time: 7:30 AM – 9:00 AM

Location: Muir Parkway Office Center

1340 Arnold Drive, Conference Room 112

Martinez, CA. 94553

I.	CALL TO ORDER and INTRODUCTIONS	Christine Gordon, RN, BSN, PHN, DHCS-MT
II.	REVIEW and APPROVAL of Previous Meeting Minutes	Christine Gordon, RN, BSN, PHN, DHCS-MT
III.	IHA, SHA, USPSTF	
	IHA, SHA, USPSTF	Christine Gordon, RN, BSN, PHN, DHCS-MT
IV.	GUEST SPEAKERS	
	HPV Immunization UpdateMeasles OutbreakGeneral Immunizations Update	Kristin Burnett, MPH Immunization Program Manager Co-Chair, Immunization Task Force Public Health/Communicable Diseases
V.	REGULAR REPORTS	
	 Legislative / CCHP Update Governors Budget May Revision (no materials) Blood lead screening (page from CDPH) Cultural Competency (care matters) CCHP Benefits update STAT Med Concussion Program (care matters) Quality HEDIS (Page from Dashboard) Lung Cancer screening (page from USPSTF) PIP updates (Pending) Pharmacy Review Care Matters Utilization Management Gastric Bypass Surgery – no revision if noncompliant (no materials) Q and A (no materials) 	Jose Yasul, MD Medical Director, CCHP
VI.	CLAIMS Q&A	Claims Unit Staff

Our next scheduled meeting is October 22, 2019

CPN meeting reimbursement will be prorated based on length of time attendee is present in the meeting.

CONTRA COSTA HEALTH PLAN

Central County

Quarterly Community Provider Network (CPN)

Meeting Minutes - April 23, 2019

Attending:

CCHP Staff: Sharron Mackey, CEO; Jose Yasul, MD, Medical Director; Christine Gordon, RN, BSN, DHCS-MT;

Alejandro Fuentes, RN; Jonel Sangalang, Clerk

CPN Providers: S. Blair, CPNP; M. Chang, MD; G. Graves, MD; A. Lopresti, MD; E. Risgalla, MD; S. Swenson, CPNP; W.

Taft, MD; R. Tracy, MD; K. Warren, CPNP; L. Yang, MD

Guest Brian Blaisch, MD; M Jasmine Silva, DO; Tatiana Hernandez

	Discussion	Accountable
	Meeting called to order @ 7:35 AM	Christine Gordon, RN, BSN, DHCS-M
l.	Agenda was approved with no revisions.	Jose Yasul, MD, Medical Director
II.	Reminders:	
	 Initial Health Assessment (IHA) DHCS recently completed an audit Percentage of IHA assessment is not high enough. Must be completed within 120 days of enrollment into the health plan or documented within the 12 months prior to Plan enrollment. If member assigned to new PCP, IHA must be completed within 120 days of that assignment if no IHA documented within the past 12 months. IHA includes H&P, IHEBA (SHA), USPSTF screenings, ensure up-to-date immunizations per ACIP. Perinatal depression screening. Gonococcal Ophthalmia Neonatorum screening. California Minor Consent and Confidentiality Laws 	Christine Gordon, RN, BSN, DHCS-M
III.	Speakers: CCHP CPN Autism Awareness, Screening and Referral • State mandated screening and treatment for autism	Brian Blaisch MD
	 Autism, Behavioral and Child Development (ABCD) Center Multi-disciplinary group. Pediatrician – mid-level ASD and ADHD assessment, learning and behavior evaluation, medical management, coordination of care. 2 full-time social workers – intake, case management, limited therapy 1 part-time Community Health Worker – appointments, paperwork 1 part-time Speech Therapist – speech and language evaluation only Autism is a development disability that affects communication, socialization and behavioral. Social communication challenges. Spoken language delay Eye contact Gesture Autism Screenings Child development 	

- 9 Months
- 18 Months
- 2 1/2 Years
- Autism Spectrum Disorder
 - 18 Months
 - 2 Years
- Referrals
 - o Audiology CCRMC Audiology vs. UCSF CHO audiology
 - o Regional Center of the East Bay (RCEB)
 - o CCRMC ABCD Center
- Assessments
 - Speech and language evaluation
 - RCEB vs. ABCD
 - Occupational therapy evaluation
 - RCEB vs. ABCD
 - o Comprehensive diagnostic evaluation
 - RCEB vs. ABCD vs. vendorized outside development psychologist or DB pediatrician
 - Autism Diagnostic Observation Schedule (ADOS-2)
 - Childhood Autism Rating Scale (CARS-2)
 - Vineland-3 Adaptive Behavioral Scales
 - Bailey Scales of Infant and Toddler Development Screening Test 3rd Edition
- Therapies
 - Speech therapy RCEB vs. school district
 - Occupation therapy RCEB vs. school district
 - Fine motor and/or sensory
 - Applied Behavioral Analysis (ABA) Therapy mandated through health plan; sometimes provided by RCEB
 - ABA is a therapy based on the science of learning and behavior.
 - Behavior analysis helps us to understand
 - Alternatives
 - Floortime
 - Relationship Development Intervention (RDI)
 - Pivotal Response Treatment (PRT)
- Medication
 - ABCD vs. ACCESS / Psychiatry
 - Comorbid ADHD
 - o Aggression
 - Anxiety
- Follow-up
 - Monitor for med efficacy and side effects
 - Review ABA and IEP
 - ABA reauthorized every 6 months
 - IEP renewed every year with triennial review

Pediatric Measures

- o Governor Newsom is a politician that cares about healthcare.
- o Executive order to focus on making sure our children healthy.
- Early periodic screening and treatment screening.
 - All children in California under the age of 21 have preventive screenings (well child visits).
- California Department of Health Care Services (DHCS) was audited by the State Auditor's office.

Sharon Mackey, CEO

- Audit revealed we have a severe deficit.
- California ranked 40th in the nation not a good standing for the Golden State.
- Contra Costa County's score is 49.3%. Goal is to be at 50% or higher.
- Some of the well child visits at schools are not captured. Score might be higher if the school's well child visits are captured.
- Contra Costa Health Services Division has committed to improve score over a 3 year period. Targeted goal is to be at 89.3% by 2022. Increase by 10% each year.
 - Identify correct CPT codes to bill for proper billing.
 - Provide correct CPT codes to providers.
- Quality improvement programs.
 - Childhood asthma.
 - Childhood obesity.
 - Transportation services.
- o 23,000 members have not come in for care.
 - Half of these members might be children.
 - Encourage parents to bring their children for the well child visit.
- American Academy of Pediatrics supports partnership with Alameda-Contra Costa Medical Association.
- Provide providers with a quarterly report card to measure where they stand with well child visits.
- Elisa Interactive Voice Recognition.
 - o Started in April 2018.
 - Call members in the evenings and weekends.
 - o Interfaced with 5.700 members in 2017
 - o Touched 80,000 members with Elisa.
 - Members actually respond.
 - Also in Spanish.
 - Under 10 with members.

Focus on Opiate Transition (FOOT Steps)

- · What is it?
 - Interdisciplinary program designed to assist patients with chronic pain to transition away from use of classic opiates. Each treatment session is unique and multifaceted. FOOT Steps participants have private opiate transition medication meetings with the FOOT Steps physician, and they also participate in group settings to learn techniques that encourage one's body to recruit and optimize its own healing mechanisms.
- Who is appropriate?
 - Candidates for program are currently taking opioid medication for chronic pain but would like an alternative due to :
 - Intolerance of weaning
 - Unacceptable opiate side effects or history of accidental overdose
 - Poor pain control
 - Lack of functional gain
- FOOT steps use integrative, evidence-based activities during the medication transition, such as:
 - o Personalized, private medication management sessions
 - Educational discussions
 - Acupressure & acupuncture
 - o Gentle, adaptive movement training
 - Guided biofeedback & meditation
- Assessment points used during FOOT steps evaluation:

M Jasmine Silva, DO IPM Medical Group, Inc.

		-		
	 Inclusion criteria for FOOT Steps referral: 			
	 Chronic pain patients on a daily opioid regimen (typically at least over 30mg 			
	morphine equivalent a day)			
	 Patients who have tried and failed opiate ween 			
	 Patients who frequently request early refills exhibiting opiate escalation, tolerance, 			
	and/or low-to-moderate aberrant use.			
	Absolute and relative contraindication to FOOT Steps and/or buprenorphine-based			
	treatments:			
	 Moderate-severe liver disease 			
	 Concurrent use of a few specific anti-retroviral medications 			
	 Concurrent benzodiazepine or Soma use 			
	 Concurrent regular alcohol use 			
	 Patients with Severe Opiate Use Disorder, IV drug abusers, and most poly substance 			
	abusers will be referred to a higher level of care			
	 Some health co morbidities are better treated with in-patient supervision during the 			
	detoxification process.			
	Tatiana Hernandez – FOOT Steps Program Coordinator Dr. Siva's cell number – (530) 263-4631			
IV.	Regular Reports:			
	Care Matters Bulletin			
	Electronic claims submission			
	J Code (level II HCPCS) training			
	Pharmacy			
	 Addition of Zyban 			
	Addition of Protopic ointment to the formulary with a quantity limit of 30gm per 30			
	days.			
	Interactive no prior authorization list Superaded No Authorization Provided list for a COOO to accomplish a COOO and disclared.			
	 Expanded No Authorization Required list from 6000 to approximately 9000 medical 			
	services.			
	Adjournment:			
	Meeting adjourned @ 9:00 A.M.			
	meeting adjourned & 5100 / limit			

Next meeting October 24, 2019

ANNA M. ROTH, RN, MS, MPH HEALTH SERVICES DIRECTOR

DAN PEDDYCORD, RN, MPA/HA DIRECTOR OF PUBLIC HEALTH



CONTRA COSTA

PUBLIC HEALTH

CHILD HEALTH & DISABILITY

PREVENTION PROGRAM

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CONCORD, CALIFORNIA 94520

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May 2019

Dear CHDP Providers.

The Contra Costa County Child Health Disability Prevention (CHDP) Program, is now recommending fluoride varnish to all children ages six months (or after the eruption of the first tooth) thru five years old. This is in order to maintain and improve the oral health of young children in primary settings and also for the prevention of caries, as per the American Academy of Pediatrics (AAP), Recommendations for Preventive Pediatric Health Care Periodicity Schedule, regarding children's oral health, since 2015. (See www.aap.org/periodicityschedule).

Fluoride varnishing that is now recommended 2-4 times annually, or every 3-6 months, has been shown to decrease and prevent oral caries, by supporting healthy tooth enamel while preventing bacterial damage to dentition. See article "Fluoride Use in Caries Prevention in the Primary Care Setting." (http://pediatrics.aappublications.org/content/134/3/626). If parents have concerns regarding the benefits vs risks of fluoride varnish usage, please refer them to their primary care providers.

This procedure of brush varnishing, the dentition with a protective resin coating with sodium fluoride, can be done in the primary care provider's office setting. It also can be done in the dentist's office, that has been established after a child's first birthday. Medi-Cal will pay physicians for the application of fluoride varnish. See pages 20-21 of the December 2018, "California CHDP/EPSDT Dental Training: Fluoride Varnish" manual, regarding Medi-Cal billing, CPT codes and purchasing fluoride varnish kits for office usage. (http://www.dhcs.ca.gov/services/chdp/Pages/FluorideVarnish.aspx)
Also, the complete fluoride varnish training is provided in the "California CHDP/EPSDT Dental Training: Fluoride Varnish," manual, as referenced above.

Please review this training manual.

Contra Costa County CHDP staff, will be providing additional training for your office staff, as needed. We will contact you in the coming weeks, with further information regarding these trainings.

Thank you,

Michelle Rivero
Child Health and Disability Prevention Program
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Concord, CA 94520
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chdp@cchealth.org



CLINICAL REPORT

Fluoride Use in Caries Prevention in the Primary Care Setting

abstract



Dental caries remains the most common chronic disease of childhood in the United States. Caries is a largely preventable condition, and fluoride has proven effectiveness in the prevention of caries. The goals of this clinical report are to clarify the use of available fluoride modalities for caries prevention in the primary care setting and to assist pediatricians in using fluoride to achieve maximum protection against dental caries while minimizing the likelihood of enamel fluorosis. *Pediatrics* 2014:134:626–633

Dental caries (ie, tooth decay) is an infectious disease in which acid produced by bacteria dissolves tooth enamel. If not halted, this process will continue through the tooth and into the pulp, resulting in pain and tooth loss. This activity can further progress to local infections (ie, dental alveolar abscess or facial cellulitis), systemic infection, and, in rare cases, death. Dental caries in the United States is responsible for many of the 51 million school hours lost per year as a result of dental-related illness, which translates into lost work hours for the parent or adult caregiver. Early childhood caries is the single greatest risk factor for caries in the permanent dentition. Good oral health is a necessary part of overall health, and recent studies have demonstrated the adverse effects of poor oral health on multiple other chronic conditions, including diabetes control. Therefore, the failure to prevent caries has health, educational, and financial consequences at both the individual and societal level.

Dental caries is the most common chronic disease of childhood,¹ with 59% of 12- to 19-year-olds having at least 1 documented cavity.³ Caries is the "silent epidemic" that disproportionately affects poor, young, and minority populations.¹ The prevalence of dental caries in very young children increased during the period between the last 2 national surveys, despite improvements for older children.⁴ Because many children do not receive dental care at young ages, and risk factors for dental caries are influenced by parenting practices, pediatricians have a unique opportunity to participate in the primary prevention of dental caries. Studies show that simple home and primary care setting prevention measures would save health care dollars.⁵

Development of dental caries requires 4 components: teeth, bacteria, carbohydrate exposure, and time. Once teeth emerge, they may become colonized with cariogenic bacteria. The bacteria metabolize carbohydrates

Melinda B. Clark, MD, FAAP, Rebecca L. Slayton, DDS, PhD, and SECTION ON ORAL HEALTH

KEY WORD

enamel fluorosis, fluoride, fluoride varnish, formula mixing, systemic fluoride supplements, toothpaste, water fluoridation

ABBREVIATIONS

AAP—American Academy of Pediatrics

ADA—American Dental Association

CDC—Centers for Disease Control and Prevention

EPA—Environmental Protection Agency

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The guidance in this report does not indicate an exclusive course of treatment or serve as a standard of medical care. Variations, taking into account individual circumstances, may be appropriate.

www.pediatrics.org/cgi/doi/10.1542/peds.2014-1699

doi:10.1542/peds.2014-1699

Accepted for publication Jun 9, 2014

All clinical reports from the American Academy of Pediatrics automatically expire 5 years after publication unless reaffirmed, revised, or retired at or before that time.

PEDIATRICS (ISSN Numbers: Print, 0031-4005; Online, 1098-4275).

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and create acid as a byproduct. The acid dissolves the mineral content of enamel (demineralization) and, over time with repeated acid attacks, the enamel surface collapses and results in a cavity in the tooth. Protective factors that help to remineralize enamel include exposing the teeth to fluoride, limiting the frequency of carbohydrate consumption, choosing less cariogenic foods, practicing good oral hygiene, receiving regular dental care, and delaying bacterial colonization. If carious lesions are identified early, the process can be halted or reversed by modifying the patient's individual risk and protective factors. Certain American Academy of Pediatrics (AAP) publications (Oral Health Risk Assessment Timing and Establishment of the Dental Home⁶ and Bright Futures: Guidelines for Health Supervision of Infants, Children, and Adolescents⁷) discuss these concepts in greater depth and provide targeted preventive anticipatory guidance. The Medical Expenditure Panel Survey demonstrated that 89% of infants and 1-year-olds have office-based physician visits annually, compared with only 1.5% who have dental visits.8 For primary prevention to be effective, it is imperative that pediatricians be knowledgeable about the process of dental caries, prevention of the disease, and available interventions, including fluoride.

Fluoride is available from many sources and is divided into 3 major categories: tap water (and foods and beverages processed with fluoridated water), home administered, and professionally applied. There has been substantial public and professional debate about fluoride, and myriad information is available, often with confusing or conflicting messages. The widespread decline in dental caries in many developed countries, including the United States, has been largely attributable to the use of fluoride. Fluoride has 3 main mechanisms of action: (1) it promotes enamel remineralization; (2) it

reduces enamel demineralization; and (3) it inhibits bacterial metabolism and acid production.⁹ The mechanisms of fluoride are both topical and systemic, but the topical effect is the most important, especially over the life span.¹⁰

RISK OF FLUOROSIS

The only scientifically proven risk of fluoride use is the development of fluorosis, which may occur with fluoride ingestion during tooth and bone development. Fluorosis of permanent teeth occurs when fluoride of sufficient quantity for a sufficient period of time is ingested during the time that tooth enamel is being mineralized. Fluorosis is the result of subsurface hypomineralization and porosity between the developing enamel rods. 11 This risk exists in children younger than 8 years, and the most susceptible period for permanent maxillary incisor fluorosis is between 15 and 30 months of age. 12-14 The risk of fluorosis is influenced by both the dose and frequency of exposure to fluoride during tooth development. 15 Recent evidence also suggests that individual susceptibility or resistance to fluorosis includes a genetic component.16

After 8 years of age, there is no further risk of fluorosis (except for the third molars) because the permanent tooth enamel is fully mineralized. The vast majority of enamel fluorosis is mild or very mild and characterized by small

white striations or opaque areas that are not readily noticeable to the casual observer. Although this type of fluorosis is of no clinical consequence, enamel fluorosis has been increasing in frequency over the last 2 decades to a rate of approximately 41% among adolescents because fluoride sources are more widely available in varied forms. 17 Moderate and severe forms of enamel fluorosis are uncommon in the United States but have both an aesthetic concern and potentially a structural concern, with pitting, brittle incisal edges, and weakened groove anatomy in the permanent 6-year molars.

In 2001, the AAP endorsed the guidelines from the Centers for Disease Control and Prevention (CDC), "Recommendations for Using Fluoride to Prevent and Control Dental Caries in the United States."15 Dental and governmental organizations (American Dental Association [ADA], American Academy of Pediatric Dentistry, the Department of Health and Human Services, and the CDC) have more recently published guidelines on the use of fluoride, but current AAP publications do not reflect these newer evidence-based guidelines. Table 1 provides a simple explanation of fluoride use for patients at low and high risk of caries.

The present report has 2 goals: (1) to assist pediatricians in using fluoride to achieve maximum protection against

TABLE 1 Summary of Fluoride Modalities for Low- and High-Risk Patients

Fluoride Modality	Low Caries Risk	High Caries Risk
Toothpaste	Starting at tooth emergence (smear of paste until age 3 y, then pea-sized)	Starting at tooth emergence (smear of paste until age 3 y, then pea-sized)
Fluoride varnish	Every 3–6 mo starting at tooth emergence	Every 3–6 mo starting at tooth emergence
Over-the-counter mouth rinse	Not applicable	Starting at age 6 y if the child can reliably swish and spit
Community water fluoridation	Yes	Yes
Dietary fluoride supplements	Yes, if drinking water supply is not fluoridated	Yes, if drinking water supply is not fluoridated

dental caries while minimizing the likelihood of enamel fluorosis; and (2) to clarify the advice that should be given by pediatricians regarding fluoride in the primary care setting.

CURRENT INFORMATION REGARDING FLUORIDE USE IN CARIES PREVENTION

The following information aims to assist pediatricians in achieving maximum protection against dental caries for their patients while minimizing the likelihood of enamel fluorosis. Sources of ingested fluoride include drinking water, infant formula, fluoride toothpaste, prescription fluoride supplements, fluoride mouth rinses, professionally applied topical fluoride, and some foods and beverages.18

Fluoride Toothpaste

Fluoride toothpaste has consistently been proven to provide a caries-preventive effect for individuals of all ages. 15,19 In the United States, the fluoride concentration of over-the-counter toothpaste ranges from 1000 to 1100 ppm. In some other countries, toothpastes containing 1500 ppm of fluoride are available. A 1-inch (1-g) strip of toothpaste translates to 1 or 1.5 mg of fluoride, respectively. A pea-sized amount of toothpaste is approximately one-quarter of an inch. Therefore, a pea-sized amount of toothpaste containing 1000/1100 ppm of fluoride would have approximately 0.25 mg of fluoride, and the same amount of toothpaste containing 1500 ppm of fluoride would have approximately 0.38 mg of fluoride. Most fluoride toothpaste in the United States contains sodium fluoride, sodium monofluorophosphate, or stannous fluoride as the active ingredient. Parents should supervise children younger than 8 years to ensure the proper amount of toothpaste and effective brushing technique. Children younger than 6 years are more likely to ingest some or all of the toothpaste

used. Ingestion of excessive amounts of fluoride can increase the risk of fluorosis. This excess can be minimized by limiting the amount of toothpaste used and by storing toothpaste where young children cannot access it without parental help.

Use of fluoride toothpaste should begin with the eruption of the first tooth. When fluoride toothpaste is used for children younger than 3 years, it is recommended that the amount be limited to a smear or grain of rice size (about one-half of a pea). Once the child has turned 3 years of age, a pea-sized amount of toothpaste should be used.^{20,21} Young children should not be given water to rinse after brushing because their instinct is to swallow. Expectorating without rinsing will both reduce the amount of fluoride swallowed and leave some fluoride in the saliva, where it is available for uptake by the dental plague. Parents should be strongly advised to supervise their child's use of fluoride toothpaste to avoid overuse or ingestion.

High-concentration toothpaste (5000 ppm) is available by prescription only. The active ingredient in this toothpaste is sodium fluoride. This agent can be recommended for children 6 years and older and adolescents who are at high risk of caries and who are able to expectorate after brushing. Dentists may also prescribe this agent for adolescents who are undergoing orthodontic treatment, as they are at increased risk of caries during this time.22

Fluoride Varnish

Fluoride varnish is a concentrated topical fluoride that is applied to the teeth by using a small brush and sets on contact with saliva. Advantages of this modality are that it is well tolerated by infants and young children, has a prolonged therapeutic effect, and can be applied by both dental and nondental health professionals in a variety of settings.23 The concentration of fluoride varnish is 22 600 ppm (2.26%), and the active ingredient is sodium fluoride. The unit dose packaging from most manufacturers provides a specific measured amount (0.25 mg, providing 5 mg of fluoride ion). The application of fluoride varnish during an oral screening is of benefit to children, especially those who may have limited access to dental care. Current American Academy of Pediatric Dentistry recommendations for children at high risk of caries is that fluoride varnish be applied to their teeth every 3 to 6 months.24 The 2013 ADA guideline recommends application of fluoride varnish at least every 6 months to both primary and permanent teeth in those subjects at elevated caries risk.25 The US Preventive Services Task Force recently published a new recommendation that primary care clinicians apply fluoride varnish to the primary teeth of all infants and children starting at the age of primary tooth eruption (B recommendation).26

In most states, Medicaid will pay physicians for the application of fluoride varnish. Information regarding fluoride varnish application reimbursement and which states currently provide payment can be found on the AAP Web site (http://www2.aap.org/oralhealth/docs/ OHReimbursementChart.pdf) and the Pew Charitable Trusts Web site (http:// www.pewstates.org/research/analysis/ reimbursing-physicians-for-fluoridevarnish-85899377335). Because state regulations vary regarding whether fluoride varnish must be applied within the context of a preventive care code, this information should be determined before billing.

Indications for Use

In the primary care setting, fluoride varnish should be applied to the teeth of all infants and children at least once every 6 months and preferably every 3 months, starting when the first tooth

erupts and until establishment of a dental home.

Instructions for Use

Fluoride varnish must be applied by a dentist, dental auxiliary professional, physician, nurse, or other health care professional, depending on the practice regulations in each state. It should not be dispensed to families to apply at home. Application of fluoride varnish is most commonly performed at the time of a well-child visit. Teeth are dried with a 2-inch gauze square, and the varnish is then painted onto all surfaces of the teeth with a brush provided with the varnish. Children are instructed to eat soft foods and not to brush their teeth on the evening after the varnish application to maximize the contact time of the varnish to the tooth. The following day, they should resume brushing twice daily with fluoridated toothpaste.

Over-the-Counter Fluoride Rinse

Over-the-counter fluoride rinse provides a lower concentration of sodium fluoride than toothpaste or varnish. The concentration is most commonly 230 ppm (0.05% sodium fluoride). Expert panels on this topic have concluded that over-the-counter fluoride rinses should not be recommended for children younger than 6 years because of their limited ability to rinse and spit and the risk of swallowing higher-thanrecommended levels of fluoride.27 A teaspoon (5 mL) of over-the-counter fluoride rinse contains approximately 1 mg of fluoride. For children younger than 6 years, this type of rinse provides an additional, low-dose topical fluoride application that may assist in the prevention of enamel demineralization. However, the evidence for an anticaries effect is limited. The daily use of a 0.05% sodium fluoride rinse may be of benefit for children older than 6 years who are at high risk of dental caries; however, there is no additional benefit beyond daily use of fluoridated toothpaste for children at low risk of caries.^{28,29}

Dietary Fluoride Supplements

Dietary fluoride supplements should be considered for children living in communities in which the community water is not fluoridated or who drink well water that does not contain fluoride.26 Because there are many sources of fluoride in the water supply and in processed food, it is essential that all potential sources of fluoride be assessed before prescribing a dietary supplement, including consideration of differing environmental exposures (eg, dual homes, child care). As a general guideline, if the primary source of water is fluoridated tap or well water, the child will not require fluoride supplementation, even if he or she primarily drinks bottled water, because the teeth are exposed to fluoride through cooking and brushing. The risk of fluorosis is high if fluoride supplements are given to a child consuming fluoridated water.³⁰ Information about the fluoridation levels in many community water systems can be found on the CDC Web site entitled My Water's Fluoride (http://apps.nccd. cdc.gov/MWF/Index.asp). Not all communities report this information to the CDC: therefore, it may be necessary to contact the local water department to determine the level of fluoride in the community water. Well water must be tested for fluoride content before prescribing supplements; such testing is available in most states through the state or county public health laboratory.

Guidelines for Use

CDC recommendations regarding fluoride supplementation are provided in Table 2. Supplements can be prescribed in liquid or tablet form. Tablets are preferable for children old enough to chew, because they gain an additional topical benefit to the teeth during the chewing process. Liquid supplements are recommended for younger children and should ideally be added to water or put directly into the child's mouth. Addition of the fluoride supplement to milk or formula is not recommended because of the reduced absorption of fluoride in the presence of calcium.31 The risk of mild fluorosis can be minimized by health care providers verifying that there are no other sources of fluoride exposure before prescribing systemic fluoride supplements.

Other Sources of Fluoride

Fluoride is present in processed foods and beverages and may be naturally occurring in some areas of the country. The presence of fluoride in juices and carbonated beverages does not counteract the cariogenic nature of these beverages.

Reconstitution of Infant Formula

In a study of infant feeding practices, 70% to 75% of mothers who fed their infants formula used tap water to reconstitute the powdered formula.³² According to CDC data from 2012, approximately 67% of US households using public water supplies received

 TABLE 2
 Fluoride Supplementation Schedule for Children

Age	Fluoride Ion Level in Drinking Water ^a		
	<0.3 ppm	0.3–0.6 ppm	>0.6 ppm
Birth-6 mo	None	None	None
6 mo-3 y	0.25 mg/d ^b	None	None
3–6 y	0.50 mg/d	0.25 mg/d	None
6-16 y	1.0 mg/d	0.50 mg/d	None

Source: Centers for Disease Control and Prevention.43

a = 1.0 ppm = 1 mg/L.

 $^{^{\}mathrm{b}}$ 2.2 mg of sodium fluoride contains 1 mg of fluoride ion.

optimally fluoridated water (between 0.7 and 1.2 ppm).³³

ADA Evidenced-Based Clinical Recommendations

In 2011, the ADA Council on Scientific Affairs examined the existing evidence and made 2 recommendations. The first recommendation supported the continued use of optimally fluoridated water to reconstitute powdered and liquid infant formula, being cognizant of the small risk of fluorosis in permanent teeth. The second recommendation stated that if there was concern about the risk of mild fluorosis, the formula could be reconstituted with bottled (nonfluoridated) water. 18 It should be noted that most bottled water has suboptimal levels of fluoride and that fluoride content is not listed unless it is added.

Community Water Fluoridation

Community water fluoridation is the practice of adding a small amount of fluoride to the water supply. It has been heralded as 1 of the top 10 public health achievements of the 20th century by the CDC.³⁴ Community water fluoridation is a safe, efficient, and cost-effective way to prevent tooth decay and has been shown to reduce tooth decay by 29%.35 It prevents tooth decay through the provision of low levels of fluoride exposure to the teeth over time and provides both topical and systemic exposure. It is estimated that every dollar invested in water fluoridation saves \$38 in dental treatment costs (http://www.cdc.gov/fluoridation/benefits/). Currently, although more than 210 million Americans live in communities with optimally fluoridated water, there are more than 70 million others with public water systems who do not have access to fluoridated water.33 The fluoridation status of a community water supply can be determined by contacting the local water department or accessing the Web site My Water's Fluoride (http://apps.nccd.cdc.gov/MWF/Index.asp).

Recommended Concentration

Water fluoridation was initiated in the United States in the 1940s. In January 2011, the US Department of Health and Human Services proposed a change to lower the optimal fluoride level in drinking water. The proposed new recommendation is 0.7 mg of fluoride per liter of water to replace the previous recommendation, which was based on climate and ranged from 0.7 mg/L in the warmest climates to 1.2 mg/L in the coldest climates.36 The change was recommended because recent studies showed no variation in water consumption by young children based on climate and to adjust for an overall increase in sources of fluoride (foods and beverages processed with fluoridated water and fluoridated mouth rinses and toothpastes) in the American diet.

Evidence Supporting Community Water Fluoridation

Despite overwhelming evidence supporting the safety and preventive benefits of fluoridated water, community water fluoridation continues to be a controversial and highly emotional issue. Opponents express a number of concerns, all of which have been addressed or disproven by validated research. The only scientifically documented adverse effect of excess (nontoxic) exposure to fluoride is fluorosis. An increase in the incidence of mild enamel fluorosis among teenagers has been cited as a reason to discontinue fluoridation, even though this condition is cosmetic with no detrimental health outcomes. Recent opposition has sometimes centered on the question of who decides whether to fluoridate (elected/public officials or the voters), possibly reflecting a recent trend of distrust of the US government. Many opponents believe fluoridation to be mass medication and

call the ethics of community water fluoridation into question, but courts have consistently held that it is legal and appropriate for a community to adopt a fluoridation program.³⁷ Opponents also express concern about the quality and source of fluoride, claiming that the additives (fluorosilicic acid, sodium fluoride, or sodium fluorosilicate), in their concentrated form, are highly toxic and are byproducts of the production of phosphate fertilizer and may include other contaminants, such as arsenic. The quality and safety of fluoride additives are ensured by Standard 60 of the National Sanitation Foundation/American National Standards Institute, a program commissioned by the Environmental Protection Agency (EPA), and testing has been conducted to confirm that arsenic or other substances are below the levels allowed by the EPA.38 Finally, there have been many unsubstantiated or disproven claims that fluoride leads to kidney disease, bone cancer, and compromised IO. More than 3000 studies or research papers have been published on the subject of fluoride or fluoridation.39 Few topics have been as thoroughly researched, and the overwhelming weight of the evidence—in addition to 68 years of experience—supports the safety and effectiveness of this public health practice.

Naturally Occurring Fluoride in Drinking Water

The optimal fluoride level in drinking water is 0.7 to 1.2 ppm, an amount that has been proven beneficial in reducing tooth decay. Naturally occurring fluoride may be below or above these levels in some areas. Under the Safe Drinking Water Act (Pub L No. 93-523 [1974]), the EPA requires notification by the water supplier if the fluoride level exceeds 2 ppm. In areas where naturally occurring fluoride levels in drinking water exceed 2 ppm, people should consider an alternative water source or home water treatments to reduce the risk of

fluorosis in young children.⁴⁰ Well water should be tested for the level of fluoride; this testing is most commonly performed through the health department.

Fluoride Toxicity

Toxic levels of fluoride are possible, particularly in children, as a result of ingesting large quantities of fluoride supplements. The toxic dose of elemental fluoride is 5 to 10 mg of fluoride per kilogram of body weight.⁴¹ Lethal doses in children have been calculated to be between 8 and 16 mg/kg. When prescribing sodium fluoride supplements, it is recommended to limit the quantity prescribed at one time to no more than a 4-month supply. Parents should be advised to keep fluoride products out of the reach of young children and to supervise their use.

Fluoride Removal Systems

There are a number of water treatment systems that are effective in the removal of fluoride from water,42 including reverse osmosis and distillation. Parents should be counseled on the use of these and activated alumina filters in the home and, should they choose to use one that removes fluoride, the potential effect on their family's oral health. Commonly used home carbon filters (eg, Brita [Brita LP, Oakland, California], PUR [Kaz USA, Incorporated, Southborough, MA]) do not remove fluoride. These can be recommended for families who are concerned about heavy metals or other impurities in their home water supply but who wish to retain the benefits of fluoridated water.

SUGGESTIONS FOR PEDIATRICIANS

- 1. Know how to assess caries risk. As recommended by the AAP's Oral Health Risk Assessment Timing and Establishment of the Dental Home⁶ and Bright Futures: Guidelines for Health Supervision of Infants, Children, and Adolescents,7 pediatricians should perform oral health risk assessments on all children at preventive visits beginning at 6 months of age. An oral health risk assessment tool has been developed by the AAP/Bright Futures and endorsed by the National Interprofessional Initiative on Oral Health. This tool can be accessed at http://www2. aap.org/oralhealth/RiskAssessment-Tool.html. There are currently no validated early childhood caries risk assessment tools. The aforementioned tool is a guide to help clinicians counsel patients about oral health and best identify risk.
- Know how to assess a child's exposure to fluoride and determine the need for topical or systemic supplements.⁴³
- 3. Understand indications for fluoride varnish and how to provide it. Fluoride varnish can be a useful tool in the prevention of early childhood caries. Additional training on oral screenings, fluoride varnish indications and application, and office implementation can be found in the Smiles for Life Curriculum Course 6: Caries Risk Assessment, Fluoride Varnish and Counseling⁴⁴ at www.smilesforlifeoralhealth.org. In addition, the AAP Children's Oral Health Web site

- is a resource for oral health practice tools (http://www2.aap.org/oralhealth/PracticeTools.html).
- 4. Advocate for water fluoridation in the local community. Public water fluoridation is an effective and safe method of protecting the most vulnerable members of our population from dental caries. Pediatricians are encouraged to advocate on behalf of public water fluoridation in their communities and states. For additional information and water fluoridation facts and detailed questions and answers, see http://www.ada. org/sections/newsAndEvents/pdfs/ fluoridation facts.pdf, http://www. cdc.gov/fluoridation/, and http:// www.ilikemyteeth.org.

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Fluoride Use in Caries Prevention in the Primary Care Setting

Melinda B. Clark, Rebecca L. Slayton and SECTION ON ORAL HEALTH Pediatrics 2014;134;626

DOI: 10.1542/peds.2014-1699 originally published online August 25, 2014;

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California CHDP/EPSDT **Dental Training:** Fluoride Varnish

Child Health and Disability Prevention (CHDP) Program Oral Health Subcommittee December 2018



Training Objectives



- Identify children at risk for dental decay and who would benefit from fluoride varnish.
- Recognize the importance of providing fluoride varnish to high risk children (0 up to 6 years) in the medical office.
- Establish a protocol to implement fluoride varnish application in the medical office.
- Apply fluoride varnish and share information with other office staff.



Fluoride Varnish



The CHDP/EPSDT Medical Provider Role





CHDP Providers Prevent Dental Decay



- Young children are seen earlier and more frequently by medical providers than by a dentist
- Low income young children are often at higher risk for dental decay
- Medical providers are now placing fluoride varnish to prevent decay
- Research shows high efficacy of fluoride varnish*





Fluoride Varnish Nationwide Effort by Medical Providers



States with Medicaid funding for physician oral health screening and fluoride varnish



In 2017, Indiana was the final state to provide compensation through Medicaid to pediatric health professionals for fluoride varnish services.

Source: American Academy of Pediatrics, http://www2.aap.org/oralhealth/docs/OralHealthReimbursementChart.xlsx

2011



Fluoride Varnish –





Caries Risk Factors:

- Low Socioeconomic Status (SES)
- Active or Past Tooth Decay
 - In parents, siblings, caregivers or child
 - White spot lesions on teeth
- Poor Feeding Habits
 - Frequent sipping and snacking on:
 - Carbohydrates not just refined sugars
 - Bottle while sleeping/napping
 - Bottle after age 1



Fluoride Varnish –



Who Needs It?

Caries Risk Factors (continued):

- Lack of Fluoride Exposure*
- No Recent Dental Visit
 - Within the last year
- Poor Homecare
 - Lack of daily brushing and flossing
- Children with Special Health Care Needs



Fluoride Varnish – Which Teeth Benefit?



No Visible Decay but may have high risk factors



Preventable with fluoride varnish and good home care

Advanced Decay Destroyed enamel



Irreversible, however with fluoride varnish decay progression is inhibited Dental treatment needed ASAP

Beginning Decay white chalky decalcification near gum line



Reversible with fluoride varnish and improved home care to inhibit progression of caries

DO NOT Apply to Teeth with pulp exposure or tissue lesions





Avoid these areas, but apply fluoride varnish to all other teeth in the mouth.

Immediate treatment needed for severe decay



Fluoride Varnish - Facts



- A protective resin coating with sodium fluoride
- Brushed on teeth in 1-2 minutes
- 1 application can reduce decay risk up to 59%*
- Applied up to 5x per year
 - 3x in medical office
 - 2x in dental office





Frequency of Application



- Apply during a well child exam, follow-up visit, or stand-alone appointment.
- After the first fluoride varnish treatment, subsequent treatments can be applied every 3-4 months.





Fluoride Varnish Safety



- Fluoride varnish is recommended even if other types of fluoride are being used, including:
 - Systemic fluoride (e.g. water fluoridation, tablets or drops)
 - Other topical fluorides (e.g. fluoridated toothpaste, mouth rinses, foam or gel trays)
- Contraindications:
 - Allergy to colophony (resin from conifers) rare
 - Ulcerative gingivitis and/or stomatitis
 - Pulp exposure or deep decay





Fluoride Varnish –

Who Can Apply?





- Medical Office Setting
 - MD
 - Trained nurses and assistants
 - With MD/NP order *
- Community Setting**
 (School, health fair or government program)
 - Any trained person
 - With signed parent/guardian permission
 - Under a doctor's (or dentist's) prescription
 - Following doctor's (or dentist's) protocol





Fluoride Varnish –

Supplies Needed



- Gauze
- Gloves
- Varnish Packet
- Tray or napkin(s)
- Hand sanitizer
- Optional
 - Mouth Mirror
 - Toothbrush
- Post Procedure FV Brochure





Fluoride Varnish – How to Apply?



1. Dry teeth with gauze 2. Apply to all surfaces



3. Apply to front teeth





4. Apply to bottom teeth





Fluoride Varnish Procedure

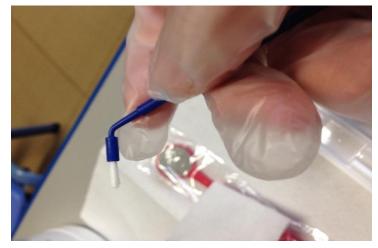


Prepare for treatment before positioning child

- OPEN the packet of varnish
- 2. BEND the Brush
- 3. WRAP the gauze around finger

Next - position the child securing arms and legs

- 4. STIR varnish with applicator
- 5. DRY teeth lightly with gauze







Fluoride Varnish – Positioning





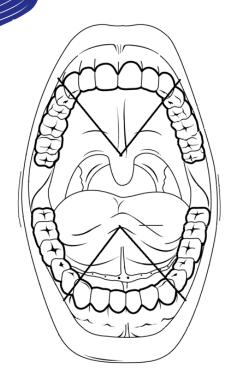


CHDP Fluoride Varnish Training December 2018

Fluoride Varnish Procedure -

continued





DHCS

- 6. Work in sections
- 7. Retract cheeks with gauzed finger
- Begin with upper right section of teeth.
- 9. Repeat on left side
- 10. Continue this method on lower right and left sections

Brush all surfaces of teeth focusing on:

- Where gums and teeth meet
- Chewing surfaces of molars
- Upper front teeth do not forget "tongue" side (lingual)





Fluoride Varnish Procedure –





Apply to:

- Chewing surfaces of molars, into fissures and between teeth
- Upper front teeth do not forget "tongue" side
- Where gums and teeth meet







Fluoride Varnish –

Parent Information



- No water restrictions after application
- Avoid crunchy, chewy, and hot foods/drinks for the rest of the day
- Do not brush/floss until the next day
- Fluoride Varnish may leave a light color coating that will be brushed off the next day

Brochure

Fluoride Varnish



Helping Smiles Stay Strong



Fluoride Varnish – Talking Points



- Fluoride Varnish does not take the place of:
 - A dental visit
 - Brushing with fluoride toothpaste twice a day
 - Limiting sweets or sugary snacks
 - Drinking fluoridated tap water
- In addition to fluoride varnish at medical offices, dentists can also provide fluoride varnish or other topical fluoride treatments twice a year.



Fluoride Varnish - Billing



Reimbursable 3 times (in a 12 month period) for children age 0 through 5

- Fee-for-Service Medi-Cal
 - Billing code: CPT 99188*
 - Reimbursement \$18 per application
- Managed Care Medi-Cal
 - Reimbursement varies
 - Contact individual plan
- FQHC/RHC/IHS
 - Not billable as a separate procedure



Fluoride Varnish –





Three Ways:

1. Directly:

 Center for Oral Health 909-469-8300 https://centerfororalhealth.org/store/

2. Choose from list:

AAP Ordering list

https://www.aap.org/en-us/advocacy-and-policy/aaphealth-initiatives/Oral-Health/Documents/fluoride-varnish-manufacturers.pdf

3. Internet search:

Use search term "fluoride varnish buy"



Fluoride Varnish –



How to Implement in Your Practice

- Establish Health Records (EMR) for documentation
- Engage staff information meetings
- Practicum training
- Identify champion(s)
- Identify workflow
- Train on documentation
- Publicize to patient parents
- Set start date
- Share progress



Medical team provides fluoride varnish



Fluoride Varnish – Establish a Protocol



- Identify:
 - ages to get FV
 - interval periods
- Establish standing order Rx
- Assign duties to MA, or other trained staff
- Document in health record
- Give post procedure instructions
- Start slowly





Easy and Effective



 Can be delegated to nursing and medical assistant staff, which empowers them to be the front line against oral disease.

With just a swipe of fluoride varnish, I can prevent tooth decay for this little girl!

- Can be applied at any time after the oral assessment.
- Can prevent a cavity with a swipe of a fluoride varnish brush.





Fluoride Varnish

Online Trainings



Videos



American Academy of Pediatrics Television

http://www.youtube.com/wa tch?v=zNOIGS1ggSg&featu re=player

Smiles for Life University of Connecticut

http://www.youtube.com/watc h?v=cV5OmL7C8K4&feature =player

Modules



<u>Maryland's</u> <u>Mouths Matter</u> <u>Module 4</u>

http://www.mchoralhealth.org/fl varnish/mod4_0.html



Smiles for Life Training: Course #6

https://www.smilesforlifeoralheal th.org/buildcontent.aspx?pageke y=66053&lastpagekey=64596&u serkey=13873165&sessionkey= 4170799&tut=584&customerkey =84&custsitegroupkey=0



Working Together









Medical Providers

Dental Providers



Together we can stop the epidemic of oral disease!



Parents/Caregivers

CHDP Fluoride Varnish Training
December 2018





Questions?







Fluoride Varnish - Practicum -

- Speaker Demonstration
- Participant Practice

California Child Health & Disability Prevention (CHDP) Program
Oral Health Subcommittee

December 2018





Thank you!

To view resources for this training, visit the <u>References</u> page

(http://www.dhcs.ca.gov/services/chdp/Documents/CHDPDental/Slide19.pptx)

To access this training, visit CHDP Dental and other trainings

(www.dhcs.ca.gov/services/chdp/Pages/Training.aspx)

Visit the <u>CHDP County Offices</u> website for your local CHDP contact information

(www.dhcs.ca.gov/services/chdp/Pages/CountyOffices.aspx)

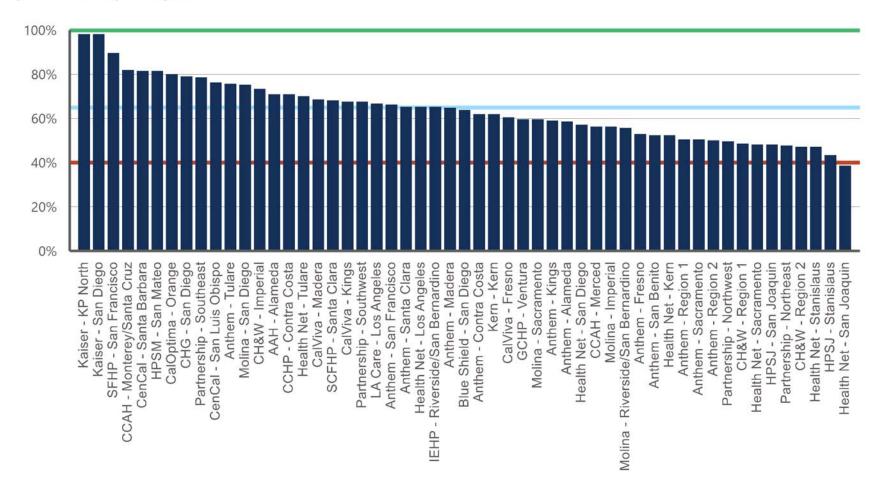
Managed Care Performance Monitoring Dashboard Report Released March 28, 2019



2018 HEDIS® Aggregated Quality Factor Score (AQFS)

— HPL - 100% — Weighted Average - 68% — MPL - 40%

By HEDIS® Reporting Unit



Managed Care Performance Monitoring Dashboard Report Released March 28, 2019



GLOSSARY

<u>Metrics</u>

Certified Eligible: A certified eligible is a beneficiary deemed qualified for Medi-Cal services by a valid eligibility determination, and who have enrolled into the program. This classification excludes beneficiaries who have a monthly share-of-cost obligation that has not been met. Enrollment counts exclude information related to applications received or any other eligible members that may be in the process of becoming certified eligible.

Member Month: A member month represent one certified eligible for one month of enrollment. Counts of Member months represent the number of certified eligible individuals enrolled in a health plan or Fee-For-Service each month.

Per 1,000 Members: Rates per 1,000 members were calculated by dividing overall utilization of a given service (e.g., Emergency Room Visits) by the total number of members for the same time period and multiplying the result by 1,000.

Abbreviated Numbers: Numbers in millions (M) that are less than 50,000 are displayed as 0.0M. Numbers in thousands (K) that are less than 50 are displayed as 0.0K.

Percentages: Percentage metrics are displayed as whole numbers. Charts may add up to 99%, 100%, or 101%.

MO-: Indicates Medi-Cal Only. See Non-Dual definition for more information.

Population Aid Code Groups

Affordable Care Act (ACA): This population consists of the following Adult Expansion aid codes: M1, M2, L1, and 7U.

Optional Targeted Low Income Children (OTLIC): This population consists of the following OTLIC aid codes: 2P, 2R, 2S, 2T, 2U, 5C, 5D, E2, E5, E6, E7, H1, H2, H3, H4, H5, M5, T0, T1, T2, T3, T4, T5, T6, T7, T8, and T9.

Seniors and Persons with Disabilities (SPD): This population consists of the following SPD aid codes: 10, 13, 14, 16, 17, 1E, 1H, 20, 23, 24, 26, 27, 2E, 2H, 36, 60, 63, 64, 66, 67, 6A, 6C, 6E, 6G, 6H, 6J, 6N, 6P, 6R, 6V, 6W, 6X, 6Y, C1, C2, C3, C4, C7, C8, D2, D3, D4, D5, D6, and D7.

Other Populations (OTHER): This population consists of all aid codes not categorized under ACA, OTLIC, or SPD.

Source: Enterprise Performance Monitoring System

Note: Data in this dashboard is preliminary and subject to change

Managed Care Performance Monitoring Dashboard Report Released March 28, 2019



Medicare Status

Dual: This population consists of any Medi-Cal eligible member who has active Medicare coverage. Active Medicare coverage means one or more of the following Medicare portions are active: Part A, B, or D. Dual members are not identified by an aid code.

Non-Dual: This population consists of any Medi-Cal eligible member who is Medi-Cal Only (MO) and has no active Medicare coverage.

New Enrollments

This population consists of members who were newly eligible for Medi-Cal Managed Care enrollment. The enrollment types are defined below:

Auto Assigned: Members who made no choice that were assigned by default algorithm.

Passive/Prior: Members who were passively enrolled and members defaulted because they were previously a member or because other family members were already assigned to the plan.

Regular: Members who made a choice or selected a health plan by submitting an enrollment form.

<u>Utilization Measures for Certified Eligible Managed Care Members</u>

Utilization is tracked by aid code population and Medicare status.

Emergency Room (ER) Visits: This measure captures the number of ER visits per month. The results from this measure are used to calculate ER visits with an inpatient admission. A visit consists of a unique combination between provider, member, and date of service. This measure is displayed per 1,000 members.

Emergency Room (ER) Visits with an Inpatient (IP) Admission: This measure captures the number of ER visits that resulted in an inpatient admission per month. The results of this measure are a subset of ER visits and IP admissions. The service date and member identification are linked to create this measure. An admission consists of a unique combination between member and date of admission to a facility. This measure is displayed per 1,000 members.

Inpatient (IP) Admissions: This measure captures the number of inpatient admissions per month. The results from this measure are used to calculate ER visits with an inpatient admission. An admission consists of a unique combination between member and date of admission to a facility. This measure is displayed per 1,000 members.

Source: Enterprise Performance Monitoring System

Note: Data in this dashboard is preliminary and subject to change

Managed Care Performance Monitoring Dashboard Report Released March 28, 2019



Outpatient (OP) Visits: This measure captures the number of outpatient visits per month. A visit consists of a unique combination between provider, member, and date of service. This measure is displayed per 1,000 members.

Prescriptions: This measure captures the number of prescriptions per month. A prescription consists of a unique combination between National Drug Code, member, and date of service. This measure is displayed per 1,000 members.

Mild to Moderate Mental Health Visits: This measure captures the number of visits per month related to selected Psychotherapy Services and Diagnostic Evaluations. The selected procedure codes aim to capture mild to moderate mental health visits. A visit consists of a unique combination between provider, member, and date of service. This measure is displayed per 1,000 members.

Grievances, State Fair Hearings, and Medical Exemption Requests

Grievances: Grievance data is collected quarterly and is plan reported. A single member can have multiple grievances, and a single grievance can have multiple reasons. Grievance reasons include Accessibility, Benefits, Quality of Care, and Referral. The count of grievances that do not fall into one of the above mentioned categories will be noted as "Other".

State Fair Hearings: Hearing data is reported from the Department of Social Services. Hearing outcomes have been grouped into three outcomes types: Denied or Dismissed, Granted, and Withdrawal or Non-Appearance.

Medical Exemption Requests (MERs): A MER is a request to be exempt from mandatory enrollment into a Managed Care health plan. If a MER is approved a beneficiary can stay in Medi-Cal fee-for-service for a period of 12 months. If a MER is denied a member is required to enroll into a Managed Care health plan.

Network Adequacy

Provider Ratios: These metrics are designed to showcase the number of Primary Care Physicians (PCPs) per 2,000 plan enrollees and all Physicians per 1,200 plan enrollees.

Health Effectiveness Data and Information Set (HEDIS®) Aggregated Quality Factor Score (AQFS)

The HEDIS® measures and specifications were developed by and are owned and copyrighted by the National Committee for Quality Assurance ("NCQA"). The HEDIS® AQFS is a single score that accounts for plan performance on all DHCS selected HEDIS® indicators. It is a composite rate calculated as percent of the National High Performance Level (HPL). The High Performance Level is 100%. The Minimum Performance Level is 40%. The State Population Weighted Average is calculated annually. A HEDIS® reporting unit is a combination of one health plan in a county or region.

Source: Enterprise Performance Monitoring System

Note: Data in this dashboard is preliminary and subject to change



E-mail Updates
Text size:
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Lung Cancer: Screening

Release Date: December 2013



This topic is in the process of being updated. Please go to the Update in Progress section to see the latest documents available.

Recommendation Summary

Summary of Recommendation and Evidence

Population	Recommendation	Grade (What's This?)
Adults Aged 55-80, with a History of Smoking	The USPSTF recommends annual screening for lung cancer with low-dose computed tomography (LDCT) in adults aged 55 to 80 years who have a 30 pack-year smoking history and currently smoke or have quit within the past 15 years. Screening should be discontinued once a person has not smoked for 15 years or develops a health problem that substantially limits life expectancy or the ability or willingness to have curative lung surgery.	В

Read the Full Recommendation Statement

Supporting Documents

- PDF Version (PDF Help
- Evidence Summary PDF Version (PDF Helpff)
- Modeling Report PDF Version (PDF Help

Read Full Recommendation Statement PDF Version (PDF Help**)

View archived versions of this recommendation

Related Information for Consumers

· Screening for Lung Cancer: Consumer

Related Information for Health Professionals

There is no related information for health professionals.

Clinical Summary

Clinical summaries are one-page documents that provide guidance to primary care clinicians for using recommendations in practice.

This summary is intended for use by primary care clinicians.

View Clinical Summary PDF Version (PDF Help**)

Current as of: July 2015

Internet Citation: Final Update Summary: Lung Cancer: Screening, U.S. Preventive Services Task Force, July 2015.

Recommendations for Preventive Pediatric Health Care



Bright Futures/American Academy of Pediatrics



Each child and family is unique; therefore, these Recommendations for Preventive Pediatric Health Care are designed for the care of children who are receiving competent parenting, have no manifestations of any important health problems, and are growing and developing in a satisfactory fashion. Developmental, psychosocial, and chronic disease issues for children and adolescents may require frequent counseling and treatment visits separate from preventive care visits. Additional visits also may become necessary if circumstances suggest variations from normal.

These recommendations represent a consensus by the American Academy of Pediatrics (AAP) and Bright Futures. The AAP continues to emphasize the great importance of continuity of care in comprehensive health supervision and the need to avoid fragmentation of care.

Refer to the specific guidance by age as listed in the Bright Futures Guidelines (Hagan JF, Shaw JS, Duncan PM, eds. Bright Futures: Guidelines for Health Supervision of Infants, Children, and Adolescents. 4th ed. Elk Grove Village, IL: American Academy of Pediatrics; 2017).

The recommendations in this statement do not indicate an exclusive course of treatment or standard of medical care. Variations, taking into account individual circumstances, may be appropriate. Copyright © 2019 by the American Academy of Pediatrics, updated March 2019.

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			INFANCY						EARLY CHILDHOOD								IIDDLE CH	IILDHOO			ADOLESCENCE											
AGE ¹	Prenatal ²	Newborn ³	3-5 d ⁴	By 1 mo	2 mo	4 mo	6 mo	9 mo	12 mo	15 mo	18 mo	24 mo	30 mo	3 y	4 y	5 y	6 y	7 y	8 y	9 y	10 y	11 y	12 y	13 y	14 y	15 y	16 y	17 y	18 y	19 y	20 y	
HISTORY Initial/Interval	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MEASUREMENTS																																Т
Length/Height and Weight		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	T
Head Circumference		•	•	•	•	•	•	•	•	•	•	•																				7
Weight for Length		•	•	•	•	•	•	•	•	•	•																					П
Body Mass Index ⁵												•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ī
Blood Pressure ⁶		*	*	*	*	*	*	*	*	*	*	*	*	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ī
SENSORY SCREENING																																Ī
Vision ⁷		*	*	*	*	*	*	*	*	*	*	*	*	•	•	•	•	*	•	*	•	*	•	*	*	•	*	*	*	*	*	Ī
Hearing		●8	●9-		-	*	*	*	*	*	*	*	*	*	•	•	•	*	•	*	•	←		●10 —		←			←		- • -	Ė
DEVELOPMENTAL/BEHAVIORAL HEALTH																																Ī
Developmental Screening ¹¹								•			•		•																			i
Autism Spectrum Disorder Screening ¹²											•	•																				İ
Developmental Surveillance		•	•	•	•	•	•		•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	i
Psychosocial/Behavioral Assessment ¹³		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	İ
Tobacco, Alcohol, or Drug Use Assessment ¹⁴																						*	*	*	*	*	*	*	*	*	*	İ
Depression Screening ¹⁵																							•	•	•	•	•	•	•	•	•	İ
Maternal Depression Screening ¹⁶				•	•	•	•																									İ
PHYSICAL EXAMINATION ¹⁷		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Ī
PROCEDURES ¹⁸																																I
Newborn Blood		●19	●20 -		-																											İ
Newborn Bilirubin ²¹		•																														İ
Critical Congenital Heart Defect ²²		•																														ľ
Immunization ²³		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	İ
Anemia ²⁴						*			•	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	ĺ
Lead ²⁵							*	*	● or ★ 26		*	● or ★26		*	*	*	*															İ
Tuberculosis ²⁷				*			*		*			*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	İ
Dyslipidemia ²⁸												*			*		*		*	-		→	*	*	*	*	*	←			- • -	İ
Sexually Transmitted Infections ²⁹																						*	*	*	*	*	*	*	*	*	*	Í
HIV ³⁰																						*	*	*	*	-				*	*	ĺ
Cervical Dysplasia ³¹																																ĺ
ORAL HEALTH ³²							●33	●33	*		*	*	*	*	*	*	*															İ
Fluoride Varnish ³⁴							-				- • -					—																İ
Fluoride Supplementation ³⁵							*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					ĺ
ANTICIPATORY GUIDANCE	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	i

- 1. If a child comes under care for the first time at any point on the schedule, or if any items are not accomplished at the suggested age, the schedule should be brought up-to-date at the earliest possible time
- 2. A prenatal visit is recommended for parents who are at high risk, for first-time parents, and for those who request a conference. The prenatal visit should include anticipatory guidance, pertinent medical history, and a discussion of benefits of breastfeeding and planned method of feeding, per "The Prenatal Visit" (http://pediatrics.aappublications.org/ content/124/4/1227.full).
- 3. Newborns should have an evaluation after birth, and breastfeeding should be encouraged (and instruction and support
- 4. Newborns should have an evaluation within 3 to 5 days of birth and within 48 to 72 hours after discharge from the hospital to include evaluation for feeding and jaundice. Breastfeeding newborns should receive formal breastfeeding evaluation, and their mothers should receive encouragement and instruction, as recommended in "Breastfeeding and $the \ Use of \ Human \ Milk'' (http://pediatrics.aappublications.org/content/129/3/e827.full). \ Newborns \ discharged \ less \ than \ Newborns \ discharged \ less \ less \$ 48 hours after delivery must be examined within 48 hours of discharge, per "Hospital Stay for Healthy Term Newborns" (http://pediatrics.aappublications.org/content/125/2/405.full).
- 5. Screen, per "Expert Committee Recommendations Regarding the Prevention, Assessment, and Treatment of Child and Adolescent Overweight and Obesity: Summary Report" (http://pediatrics.aappublications.org/content/120/ Supplement_4/S164.full).

- 6. Screening should occur per "Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents" (http://pediatrics.aappublications.org/content/140/3/e20171904). Blood pressure measurement in infants and children with specific risk conditions should be performed at visits before age 3 years.
- 7. A visual acuity screen is recommended at ages 4 and 5 years, as well as in cooperative 3-year-olds. Instrument-based screening may be used to assess risk at ages 12 and 24 months, in addition to the well visits at 3 through 5 years of age. See "Visual System Assessment in Infants, Children, and Young Adults by Pediatricians" (http://pediatrics.aappublications. org/content/137/1/e20153596) and "Procedures for the Evaluation of the Visual System by Pediatricians" (http://pediatrics.aappublications.org/content/137/1/e20153597).
- 8. Confirm initial screen was completed, verify results, and follow up, as appropriate. Newborns should be screened, per "Year 2007 Position Statement: Principles and Guidelines for Early Hearing Detection and Intervention Programs" (http://pediatrics.aappublications.org/content/120/4/898.full).
- Verify results as soon as possible, and follow up, as appropriate.
- 10. Screen with audiometry including 6,000 and 8,000 Hz high frequencies once between 11 and 14 years, once between 15 and 17 years, and once between 18 and 21 years. See "The Sensitivity of Adolescent Hearing Screens Significantly Improves by Adding High Frequencies" (http://www.jahonline.org/article/S1054-139X(16)00048-3/fulltext)
- 11. See "Identifying Infants and Young Children With Developmental Disorders in the Medical Home: An Algorithm for Developmental Surveillance and Screening" (http://pediatrics.aappublications.org/content/118/1/405.full)

- 12. Screening should occur per "Identification and Evaluation of Children With Autism Spectrum Disorders" (http://pediatrics.aappublications.org/content/120/5/1183.full).
- 13. This assessment should be family centered and may include an assessment of child social-emotional health, caregiver depression, and social determinants of health. See "Promoting Optimal Development: Screening for Behavioral and Emotional Problems" (http://pediatrics.aappublications.org/content/135/2/384) and "Poverty and Child Health in the United States" (http://pediatrics.aappublications.org/content/137/4/e20160339).
- 14. A recommended assessment tool is available at http://crafft.org.
- 15. Recommended screening using the Patient Health Questionnaire (PHQ)-2 or other tools available in the GLAD-PC toolkit and at http://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/Mental-Health/Documents/MH_ ScreeningChart.pdf
- 16. Screening should occur per "Incorporating Recognition and Management of Perinatal and Postpartum Depression Into Pediatric Practice" (http://pediatrics.aappublications.org/content/126/5/1032).
- 17. At each visit, age-appropriate physical examination is essential, with infant totally unclothed and older children undressed and suitably draped. See "Use of Chaperones During the Physical Examination of the Pediatric Patient" (http://pediatrics.aappublications.org/content/127/5/991.full).
- 18. These may be modified, depending on entry point into schedule and individual need.

(continued)

(continued)

- 19. Confirm initial screen was accomplished, verify results, and follow up, as appropriate. The Recommended Uniform Screening Panel (https://www.hrsa.gov/advisory-committees/heritable-disorders/rusp/index.html), as determined by The Secretary's Advisory Committee on Heritable Disorders in Newborns and Children, and state newborn screening laws/regulations (https://genes-r-us.uthsca.edu/home) establish the criteria for and coverage of newborn screening procedures and programs.
- 20. Verify results as soon as possible, and follow up, as appropriate
- Confirm initial screening was accomplished, verify results, and follow up, as appropriate. See "Hyperbilirubinemia in the Newborn Infant ≥35 Weeks' Gestation: An Update With Clarifications" (http://pediatrics.aappublications.org/content/124/4/1193).
- 22. Screening for critical congenital heart disease using pulse oximetry should be performed in newborns, after 24 hours of age, before discharge from the hospital, per "Endorsement of Health and Human Services Recommendation for Pulse Oximetry Screening for Critical Congenital Heart Disease" (http://pediatrics.aappublications.org/content/129/1/190.full).
- 23. Schedules, per the AAP Committee on Infectious Diseases, are available at http://redbook.solutions.aap.org/SS/lmmunization_Schedules.aspx. Every visit should be an opportunity to update and complete a child's immunizations.
- 24. Perform risk assessment or screening, as appropriate, per recommendations in the current edition of the AAP *Pediatric Nutrition: Policy of the American Academy of Pediatrics* (Iron chapter).
- For children at risk of lead exposure, see "Prevention of Childhood Lead Toxicity" (http://pediatrics.aappublications.org/content/138/1/e20161493) and "Low Level Lead Exposure Harms Children: A Renewed Call for Primary Prevention" (http://www.cdc.gov/nceh/lead/ACCLPP/Final_Document_030712.pdf).
- 26. Perform risk assessments or screenings as appropriate, based on universal screening requirements for patients with Medicaid or in high prevalence areas.
- 27. Tuberculosis testing per recommendations of the AAP Committee on Infectious Diseases, published in the current edition of the AAP *Red Book: Report of the Committee on Infectious Diseases*. Testing should be performed on recognition of high-risk factors.

- 28. See "Integrated Guidelines for Cardiovascular Health and Risk Reduction in Children and Adolescents" (http://www.nhlbi.nih.gov/guidelines/cvd_ped/index.htm).
- Adolescents should be screened for sexually transmitted infections (STIs) per recommendations in the current edition of the AAP Red Book: Report of the Committee on Infectious Diseases
- 30. Adolescents should be screened for HIV according to the USPSTF recommendations (http://www.uspreventiveservicestaskforce.org/uspstf/uspshivi.htm) once between the ages of 15 and 18, making every effort to preserve confidentiality of the adolescent. Those at increased risk of HIV infection, including those who are sexually active, participate in injection drug use, or are being tested for other STIs, should be tested for HIV and reassessed annually.
- 31. See USPSTF recommendations (https://page/Document/UpdateSummaryFinal/cervical-cancer-screening2). Indications for pelvic examinations prior to age 21 are noted in "Gynecologic Examination for Adolescents in the Pediatric Office Setting" (https://pediatrics.aappublications.org/content/126/3/583.full).
- 32. Assess whether the child has a dental home. If no dental home is identified, perform a risk assessment (https://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/Oral-Health/Pages/Oral-Health-Practice-Tools.aspx) and refer to a dental home. Recommend brushing with fluoride toothpaste in the proper dosage for age. See "Maintaining and Improving the Oral Health of Young Children" (http://pediatrics.aappublications.org/content/134/6/1224).
- 33. Perform a risk assessment (http://www2.aap.org/oralhealth/docs/ RiskAssessmentTool.pdf). See "Maintaining and Improving the Oral Health of Young Children" (http://pediatrics.aappublications.org/content/134/6/1224).
- 34. See USPSTF recommendations (http://www.uspreventiveservicestaskforce.org/uspstf/uspsdnch.htm). Once teeth are present, fluoride varnish may be applied to all children every 3–6 months in the primary care or dental office. Indications for fluoride use are noted in "Fluoride Use in Caries Prevention in the Primary Care Setting" (https://pediatrics.aappublications.org/content/134/3/626).
- If primary water source is deficient in fluoride, consider oral fluoride supplementation.
 See "Fluoride Use in Caries Prevention in the Primary Care Setting" (http://pediatrics.aappublications.org/content/134/3/626).

Summary of Changes Made to the Bright Futures/AAP Recommendations for Preventive Pediatric Health Care

(Periodicity Schedule)

This schedule reflects changes approved in December 2018 and published in March 2019. For updates and a list of previous changes made, visit www.aap.org/periodicityschedule.

CHANGES MADE IN DECEMBER 2018

BLOOD PRESSURE

• Footnote 6 has been updated to read as follows: "Screening should occur per 'Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents' (http://pediatrics.aappublications.org/content/140/3/e20171904). Blood pressure measurement in infants and children with specific risk conditions should be performed at visits before age 3 years."

ANEMIA

• Footnote 24 has been updated to read as follows: "Perform risk assessment or screening, as appropriate, per recommendations in the current edition of the AAP *Pediatric Nutrition: Policy of the American Academy of Pediatrics* (Iron chapter)."

LEAD

Footnote 25 has been updated to read as follows: "For children at risk of lead exposure, see 'Prevention of Childhood Lead Toxicity'
 (http://pediatrics.aappublications.org/content/138/1/e20161493) and 'Low Level Lead Exposure Harms Children:
 A Renewed Call for Primary Prevention' (https://www.cdc.gov/nceh/lead/ACCLPP/Final_Document_030712.pdf)."



This program is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$5,000,000 with 10 percent financed with non-governmental sources. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA, HHS, or the U.S. Government. For more information, please visit HRSA.gov.

	AAB			ABA				PCR Total				AMR				BCS			СВР			
	Num	Denom	Rate		Num	Denom	Rate	Num		Denom	Rate	Num	Denom	n Ra	ate	Num	Denom	Rate	Num	Denom	Rate	
Lifelong		5	24	21%	3	3	3 100	%	19	120	16%		99	155	64%	197	417	47%	7	1	4	50%
1019022P		2	7	29%	1	-	1 100	%	4	38	11%		19	32	59%	53	137	39%	4		6	67%
1019025P		3	16	19%	2	2	2 100	%	15	66	23%		44	60	73%	128	250	51%	3		7	43%
1019038P			NA		0	(0 NA		0	9	0%		4	6	67%	16	30	53%	C)	1	0%
1019042P		0	1	0%	0	(0 NA		0	3	0%		2	2	100%			NA	C	1	0 NA	
1050035P	NA				O NA		0	4	0%		13	26	50%			NA			NA			
1059334P			NA		0 0 NA			NA				17	29	59%			NA			NA		
La Clinica		5	13	38%	9	10	0 90	%	27	217	12%		92	144	64%	403	593	68%	17	2	21	81%
1019028P		1	3	33%	4	4	4 100	%	9	73	12%		44	61	72%	131	191	69%	5		5	100%
1019030P		1	2	50%	2	3	3 67	%	8	67	12%		23	35	66%	117	167	70%	4	•	8	50%
1019032P		3	8	38%	3	3	3 100	%	10	77	13%		25	48	52%	155	235	66%	8		8	100%
1051448P	1448P NA		NA NA						NA	NA						NA	NA					

	CCS			CDC-A1c			CDC - >9				CDC <8				CDC Eye				CDC Ne	oh		
	Num	Denom	Rate	j	Num	Denom	Rate	Num	Denom	Rate	Num	Denom	Rate	j	Num	Denom	Rate		Num	Denom	Rate	9
Lifelong		17	23	74%	12	15	80%	12	1	5 80%	6	3	15	20%	3	1	5	20%		12	15	80%
1019022P		5	5	100%	2	4	50%	4		4 100%	ó	0	4	0%	1		4	25%		3	4	75%
1019025P		9	14	64%	9	10	90%	8	1	0 80%	ó	2	10	20%	2	1	0	20%		8	10	80%
1019038P		3	4	75%	1	1	100%	0		1 0%	ó	1	1	100%	0		1	0%		1	1	100%
1019042P		0 0 NA			0	0	NA	0		0 NA		0	0 NA		0		0 NA			0	0 NA	
1050035P	NA			NA				NA			NA				NA				NA			
1059334P		0	0 NA		0 0 NA		0 0 1		0 NA		0	0 NA		0		0 NA			0	0 NA		
La Clinica		15	21	71%	33	37	89%	27	3	7 73%	6	8	37	22%	25	3	7	68%		34	37	92%
1019028P		8	9	89%	12	13	92%	9	1	3 69%	ó	3	13	23%	9	1	3	69%		12	13	92%
1019030P		3	3	100%	5	5	100%	5		5 100%	ó	0	5	0%	2		5	40%		5	5	100%
1019032P		4	9	44%	16	19	84%	13	1	9 68%	ó	5	19	26%	14	1	9	74%		17	19	89%
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	CDC+C17+AL1:BC15				CIS Combo 10			IMA Combo 2				MPM ACE/ARB				ባPM Diuret	ic		PPC Pre			
	Num	Denom	Rate		Num D	enom Ra	ite	Num	Denom	Rate	Num	Denom	Rate		Num	Denom	Rate	Num	Denom	Rate		
Lifelong		9	15	60%	15	28	54%	15	5 3	0 50%	2	76	319	87%	147	181	81%	1	.6 1	.8 89	%	
1019022P		3	4	75%	3	6	50%	Ĺ	5	8 63%		71	79	90%	42	54	78%		2	3 67	′%	
1019025P		5	10	50%	6	12	50%	4	4 1	3 31%	1	94 2	228	85%	103	125	82%	1	.3 1	.3 100	1%	
1019038P		1	1	100%	1	2	50%	2	1	3 33%		11	12	92%	2	2	100%		1	2 50	1%	
1019042P	P 0 0 NA			0 0 NA		0 0 NA					NA				NA		0 0 NA					
1050035P	SP NA			NA					NA			NA				NA			NA			
1059334P		0	0 NA		5	8	63%	Ţ	5	6 83%			NA				NA		0	0 NA		
La Clinica		30	37	81%	3	8	38%	10) 2	4 42%	4	73 !	541	87%	194	224	87%	1	.9 2	0 95	%	
1019028P		10	13	77%	1	2	50%	3	3	8 38%	1	56	178	88%	49	55	89%		4	4 100	1%	
1019030P		3	5	60%	0	0 NA	4	2	1	2 50%	1	14	124	92%	60	69	87%		2	2 100	1%	
1019032P		17	19	89%	2	6	33%	6	5 1	4 43%	2	03	239	85%	85	100	85%	1	.3 1	4 93	%	
1051448P	51448P NA			NA					NA	NA						NA	NA					

		PPC P	ost			W34				WCC E	BMI			WCC Nuti		WCC Physical Activity				
	Num	Denon	n Rat	e	Num	Denom	Rate		Num	Denom	Rat	е	Num	Denom	Rate	9	Num	Denom	Rate	جَ
Lifelong		14	18	78%	19	2	28	68%	2	21	22	95%		19	22	86%	17	7	22	77%
1019022P		2	3	67%	5		7	71%		5	5	100%		5	5	100%	Ţ	5	5	100%
1019025P		10	13	77%	10	1	L 5	67%		9	9	100%		8	9	89%	6	5	9	67%
1019038P		2	2	100%	1		1 :	100%		0	0 NA			0	0 NA		()	0 NA	
1019042P		0	0 NA				NA			0	0 NA			0	0 NA		()	0 NA	
1050035P			NA				NA			1	2	50%		1	2	50%	1	L	2	50%
1059334P		0	0 NA		3		5	60%		6	6	100%		5	6	83%	Ţ	5	6	83%
La Clinica		15	20	75%	9	1	1	82%	:	12	12	100%		11	12	92%	10)	12	83%
1019028P		2	4	50%	1		1 :	100%		3	3	100%		3	3	100%	3	3	3	100%
1019030P		2	2	100%	2		2	100%		1	1	100%		0	1	0%	()	1	0%
1019032P		11	14	79%	6		8	75%		8	8	100%		8	8	100%	7	7	8	88%
1051448P			NA				NA				NA				NA				NA	

			1									1	
	CCHP Medi-Cal HEDIS Measures	2018 CCHP	2019 CCHP	2018 RMC	2019 RMC	2018 CPN	2019 CPN	2018 KSR	2019 KSR	2019 MPL	2019 HPL	2018 Medi- Cal Weighted Averages	2018 BLUE CROSS
14400	Nutrition counseling given for children	80.05%	82.96%	86.79%	86.32%	64.90%	74.47%	92.08%	89.83%	59.85%	83.45%	78.87%	67.02%
wcc	Physical activity counseling for children	80.05%	82.59%	86.16%	85.47%	65.56%	74.47%	92.08%	89.83%	52.31%	78.35%	72.34%	63.56%
W34	*Yearly well child visit 3-6 yr.	74.70%	73.83%	69.94%	77.04%	71.92%	70.18%	88.04%	73.83%	67.15%	83.70%	75.44%	80.41%
CIS	*Combo 3 immunizations	77.62%	76.16%	80.00%	76.32%	72.22%	70.43%	80.00%	82.08%	65.45%	79.56%	70.47%	73.68%
	*First trimester prenatal	86.37%	88.22%	87.44%	88.48%	82.86%	83.53%	87.91%	93.06%	76.89%	90.75%	82.74%	87.32%
PPC	Postpartum visit 21-56 days	70.56%	74.43%	73.02%	76.96%	60.95%	63.53%	75.82%	80.56%	59.61%	73.97%	64.41%	72.30%
LBP	Avoiding Use of Imaging for Low Back Pain	79.57%	79.22%	77.60%	78.88%	80.66%	77.80%	83.62%	81.49%	67.19%	79.88%	74.52%	79.30%
BCS	Breast Cancer Screening	58.94%	60.10%	58.01%	58.97%	47.82%	50.79%	83.13%	81.23%	51.78%	68.94%	59.29%	47.43%
CCS	*Cervical cancer screening	66.59%	69.00%	62.41%	70.18%	62.67%	57.78%	84.29%	80.95%	54.26%	70.68%	59.86%	50.12%
	Diabetes Eye Exam 2 yrs.	61.88%	58.88%	61.75%	64.34%	59.18%	48.94%	69.05%	46.67%	50.85%	68.61%	60.87%	50.85%
	*Diabetes HbA1c testing	89.41%	91.73%	91.58%	92.28%	78.57%	87.23%	100.00%	97.78%	84.93%	92.70%	87.20%	86.62%
CDC	Diabetes HbA1c(>9%) (lower is better)	40.47%	37.71%	30.53%	31.25%	67.35%	62.77%	38.10%	24.44%	47.20%	29.68%	34.91%	33.58%
CDC	Diabetes HbA1c (<8%)	48.24%	51.82%	55.44%	57.35%	26.53%	29.79%	52.38%	64.44%	44.44%	59.49%	53.5%	55.23%
	Diabetes Nephropathy screen or treatment	88.47%	88.81%	88.07%	88.24%	87.76%	86.17%	92.86%	97.78%	88.56%	93.43%	90.92%	88.56%
	Diabetes BP <140/90	68.47%	77.37%	68.77%	78.31%	61.22%	74.47%	83.33%	77.78%	56.20%	77.50%	66.40%	61.56%
AAB	Avoidance of Antibiotics in Adults With Acute Bronchitis	46.56%	51.73%	47.28%	53.85%	41.81%	44.24%	53.54%	55.56%	27.63%	44.64%	33.87%	60.94%
IMA-2	Immunizations for Adolescents: Combo 2	38.44%	46.72%		40.37%		41.36%		68.18%	26.28%	46.72%	37.84%	36.74%
AMR	Asthma Medication Ratio	52.52%	64.45%	35.86%	53.26%	49.59%	63.22%	90.07%	89.72%	56.85%	71.93%	61.71%	59.80%
CBP	*Controlling High Blood Pressure	69.59%	69.10%	71.91%	69.42%	54.26%	62.63%	86.00%	85.29%	49.15%	71.04%	63.47%	60.83%
CDF	Screening for Depression and follow upScreening	16.30%	16.54%	22.67%	32.17%	0.93%	1.31%	19.20%	0.21%				
	Screening for Depression and follow upFollow Up	38.42%	3.08%	43.06%	62.14%	40.74%	61.29%	29.14%	38.46%				
	All-Cause Readmissions (lower is better)	15.09%	15.54%	15.92%	16.37%	12.89%	14.12%	12.57%	11.06%			16.27%	21.64%
ACR	All-Cause Readmission, SPDs	17.30%	19.15%	18.51%	20.95%	14.75%	14.61%	12.80%	12.00%				
	All-Cause Readmission, Non SPDs	13.15%	13.11%	13.72%	13.24%	10.96%	13.79%	12.37%	10.48%				
МРМ	Monitoring for Patients on persistent Medications - ACE or ARB	87.74%	88.83%	86.82%	87.93%	86.34%	87.98%	93.98%	93.23%	85.97%	92.87%	88.24%	85.61%
IVIFIVI	Monitoring for Patients on persistent Medications - Diuretics	87.70%	88.57%	86.58%	88.04%	86.23%	85.23%	92.61%	93.15%	86.06%	92.90%	87.88%	87.57%
	Ambulatory Care - Outpatient Visits per 1000 Member Months	295.57	452.10	268.25	243.49	258.58	106.71	432.73	101.90	307.98	467.96	284.64	193.34
AMB	Ambulatory Care - Emergency Department Visits per 1000 Member												
	Months	51.47	50.25	58.19	29.31	43.69	12.75	44.01	8.19	50.63	82.21	44.10	44.94
	Children and Adolescents' Access to Primary Care Practitioners - 12-24												
	Months	93.32%	93.97%	92.39%	94.77%	90.71%	90.20%	98.33%	97.25%	93.64%	97.71%	92.99%	94.33%
	Children and Adolescents' Access to Primary Care Practitioners - 25												
CAP	Months-6 Years	83.45%	85.04%	82.52%	84.06%	80.30%	83.94%	89.92%	88.46%	84.39%	92.88%	84.43%	89.86%
1	Children and Adolescents' Access to Primary Care Practitioners - 7-11												
	Years Children and Adelessantal Assess to Britanay, Gave Breatitioners, 12-10.	85.55%	86.42%	83.60%	85.52%	83.14%	85.78%	92.61%	88.95%	87.73%	96.18%	86.85%	89.22%
	Children and Adolescents' Access to Primary Care Practitioners - 12-19	02.420/	02.550/	00.750/	02.460/	76.0461	04.370/	04.0001	07.76%	05.040/	04.750/	04.4407	00.000/
	Years	82.42%	83.66%	80.75%	83.16%	76.94%	81.27%	91.98%	87.76%	85.81%	94.75%	84.44%	86.28%

below Minimum Performance Level (MPL), national Medicaid 25th above High Performance Level (HPL), national Medicaid 90th

^{*}included in default algorithm