

Fluoride Varnish Training

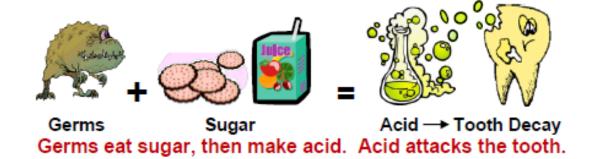


Training Objectives

- Re emphasize the importance of oral health as part of overall health
- 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 primary care medical offices
- **Establish** a protocol to apply fluoride varnish in primary care medical offices
- Learn how to use and document dental classifications
- Learn how to apply fluoride varnish with confidence



Importance of Oral Health









Importance of Oral Health

- According to Healthy People 2020 (1)
 - Oral health is essential to overall health
 - Good oral health improves a person's ability to speak, smile, smell, taste, chew, swallow, and make facial expressions
- Poor oral health correlates to other diseases per the NIH (2)
 - Diabetes
 - Heart disease
 - Stroke
 - Adverse pregnancy outcomes



Dental Caries

- Dental caries is an infectious disease that is preventable
- It is the most common chronic childhood disease in the US (silent epidemic)
- Early childhood caries are the greatest risk factor for caries in permanent teeth



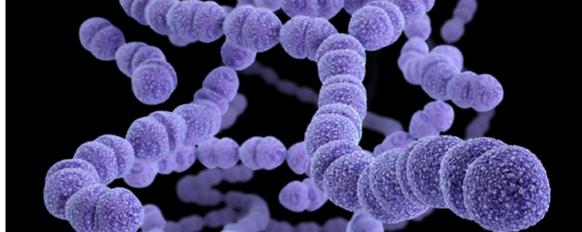


Cavity Causing Bacteria

Streptococcus Mutans

- Is the bacteria that causes this infectious disease.
- It is a gram-positive coccus commonly found in the human oral cavity and is a significant contributor to tooth decay
- It can progress from to local to systemic infections and death





The importance in applying Fluoride Varnish in Primary Care Offices

- Young children are seen earlier and more frequently by medical providers than by dentists.
- Low income, young children are at a higher risk for dental decay.
- Research shows high efficacy of fluoride varnish*.
- Medical providers are now commonly using fluoride varnish to prevent. decay
 - It is a billable Medi-Cal benefit CPT Code 99188





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

Identifying Children at Risk for Dental Decay



DENTAL CARIES ARE PREVENTABLE!!!



Who Needs Fluoride Varnish?

- Low Socioeconomic Status (SES) families
- Active or Past Tooth Decay
 - In parents/caregivers, siblings or child
 - White spot lesions on teeth
- Poor Feeding Habits
 - Frequent snacking on carbohydrates
 - Sticky, sugary foods
 - Sweet/acidic drinks
 - Bottle in bed
 - Bottle after age 1 year









Who Needs Fluoride Varnish? (cont.)

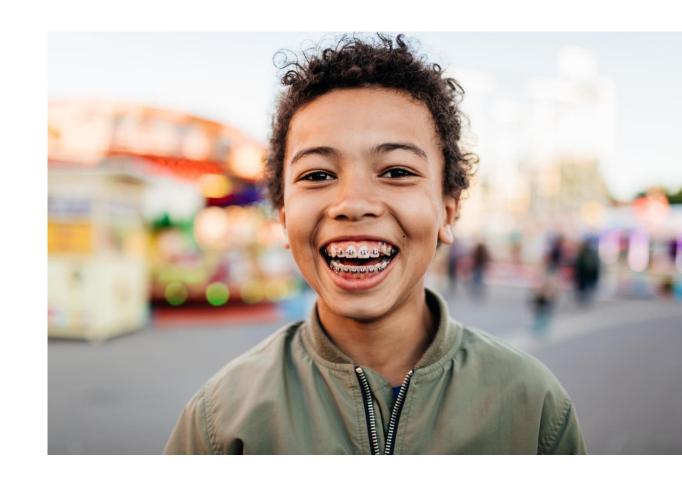
- Those with lack of fluoride in:
 - Drinking water**
 - Vitamins/Supplements
 - Toothpaste
- Have had no recent dental visit (last 12 months)
- Poor homecare
 - Lack of daily brushing & flossing
- Children with special health care needs
- All EPSDT/ CHDP children are at high risk!!!





Fluoride Varnish & Braces

- It is ok to apply fluoride varnish to children with braces
- Dry the teeth to the best of your ability and apply the varnish around the braces

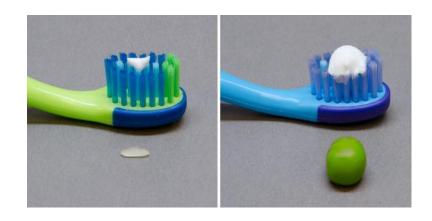




Oral Health Anticipatory Guidance

Five Easy Steps to Oral Health

- 1. Brush teeth 2 minutes two times a day
- 2. Floss teeth daily
- 3. Get fluoride protection
- 4. Eat healthy snacks
- 5. Regular visit (every 6 months) to the dentist beginning at 1 year of age









Injury Prevention & Dental Emergencies

First Aid

If a tooth is knocked out of the mouth:

- If the tooth is dirty, rinse it in the person's saliva or in milk
- Put the tooth back in place as quickly as possible
- Hold the tooth in position
- If the tooth cannot be reinserted, store it in milk
- Immediately go to Dentist

Do Not:

- Scrub the tooth clean
- Touch the roots
- Let the tooth dry out
- Store it in water









Dental Classifications

Let's learn about how teeth are classified and how using dental classifications can help determine the risk level and the need for Fluoride Varnish application.





Please take a moment to review this Dental Referral Classification Guide

This guide is intended to be used by providers and staff when referring children for dental services.

Classifications are determined by the urgency of treatment needs.



No Visible Dental Problems (no decalcification, caries, or gingivitis)

Mandated annual routine dental referral (beginning no later than age 1 and recommended every 6 months)





Appears Healthy but Needs Routine Referral

Beginning Dental Problems (white decalcification/initial decay, small carious lesions, or gingivitis)

The patient is asymptomatic. Condition is not urgent, yet requires a dental referral "before progression occurs."





Small Carious Lesions

Mild Gingivitis

Class III:

Urgent Dental Problems

(large carious lesions, abscess, extensive gingivitis, or pain)

Urgent dental care is needed. If abscess is suspected ensure that child is seen within 24 hours. Condition can progress rapidly to an emergency.

Note: For severe medically handicapping malocclusion or craniofacial anomaly refer child to a dentist or California Children's Services (CCS).



Large Carious Lesions



Abscess





Extensive Gingivitis

Class IV:

Emergent Dental Problems (acute injury, oral infection, or other painful condition)

Immediate dental referral. Emergency dental treatment is required within 24 hours.





Oral infection/Cellulitis

Fluoride Varnish Application





Fluoride Varnish Facts

- Risk for fluorosis is very low for fluoride varnish due to it's adhesion and direct uptake into the tooth enamel very little is swallowed.
- Fluoride varnish is a topical fluoride treatment that prevents new caries from forming and helps reverse early caries by depositing fluoride onto the tooth to make it stronger.
 - o Protective resin coating of sodium fluoride
- Even if the child has had a fluoride application at the dental office the week before, this does not contraindicate another fluoride varnish application in the medical office.







Fluoride Varnish Facts (cont.)

- Application is quick, easy and painless. Some children may cry which only improves visibility and access.
 - Painted on teeth ~ 1 minute
- Though extremely rare, fluoride varnish allergic reactions can occur when there is a sensitivity to colophony (resin from pine trees). For this reason, fluoride varnish is contraindicated for children with pine nut allergy.
- 1 application can reduce decay risk up to 59%*
- Applied up to 6x/year
 - 3x in medical office (Bill CenCal Health Use CPT code 99188)
 - 3x in dental office







Application Frequency

American Academy of Pediatric Dentistry recommendation:

- Every 3-6 months
- Schedule during a Well-Child Exam, follow-up visit, or stand-alone appointment
- Moderate to high risk for dental caries –
 3month interval recommended





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





Who Can Apply Fluoride Varnish?

Medical Office

- MD's
- RN's & MA's with MD Rx*

Community Setting

- School, health fair or government program
- Any trained person:
 - With signed parental permission
 - Under doctor/dentist prescription
 - Following doctor/dentist protocol







Fluoride Varnish – Supplies Needed

MD/RN/MA should gather all supplies before meeting with patient:

- 2-3 gauze squares to dry teeth
- 1 packet of FV (not expired)
- Tray or napkin(s) upon which to set supplies
- Paper towels/napkin to place under infant/toddler head if using "knee-to-knee" positioning
- (Optional) Toothbrush to remove food debris and plaque, especially on molars
- Hand sanitizer to use before gloving
- Provide post procedure written material to remind caregivers that this FV application does not replace a dental visit. It is an additional preventive treatment.





Fluoride Varnish Procedure

Please follow these 3 Steps to prepare for treatment before positioning the child:

STEP 1: OPEN the packet of varnish

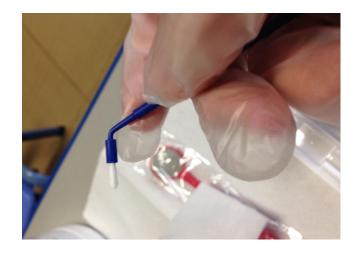
Let child know you are going to "tickle their hand" with a dry brush. Tickle the child's hand and outside of cheek to show it doesn't hurt, while explaining the procedure to the caregiver. This will calm both child and parent.

STEP 2: BEND the Brush (if applicable)

Bending the FV brush is important, as it makes it easier to apply the FV in hard-to-reach and vulnerable tooth surfaces: fissures of molars, backs of upper molars, back of upper front teeth (lingual and distal surfaces).

STEP 3: WRAP the gauze around finger

Wrap the gauze around the pointer finger of your non-dominant hand and use to retract the cheek and lips, and to dry up excess saliva.







Fluoride Varnish Procedure (cont.)

Follow steps 4 & 5 to Position the child:

Quick Tip: Before moving child explain to caregiver that s/he should gently but securely hold the child's arms and legs, while provider applies fluoride varnish quickly.

STEP 4: STIR varnish to guarantee proper mixing of varnish and fluoride with applicator

STEP 5: DRY teeth lightly with gauze

If food debris is present remove plaque and food debris from the teeth with a toothbrush, cotton gauze, or a cotton roll. Dry the teeth with gauze by section or quadrant and retract cheek.





Fluoride Varnish Procedure (cont.)

Follow steps 6 – 11 and use your gauzed finger to retract cheeks and lips.

Quick Tip: Keep the gauzed finger "retractor" in the mouth until completely finished with entire mouth. This will allow you to move quickly, and not have to reintroduce something into the child's mouth. It also prevents the child from tasting the unfamiliar taste of the varnish.

STEP 6: Work in sections

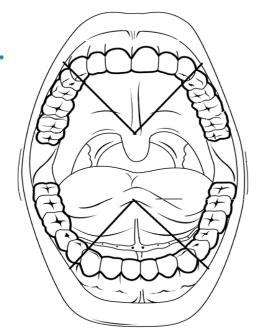
STEP 7: Retract cheeks with gauzed finger

STEP 8: Begin with upper right section of teeth

STEP 9: Repeat on left side

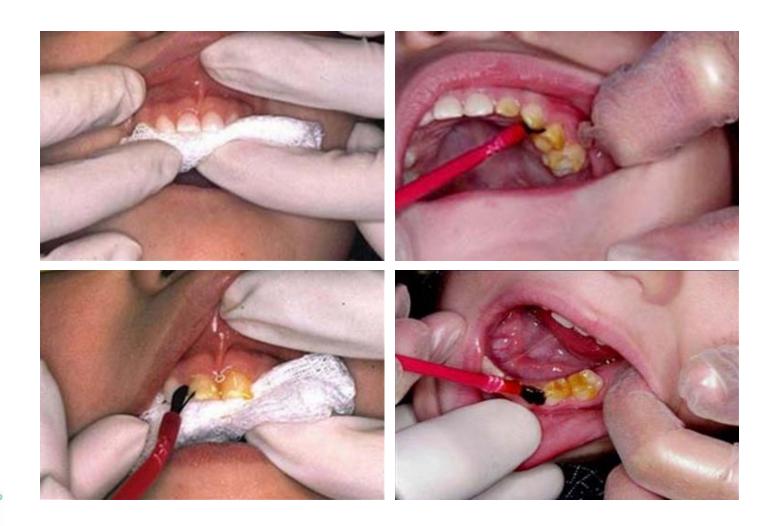
STEP 10: Continue this method on lower right and left sections

STEP 11: Do the upper incisive teeth last to avoid wiping off the varnish while working on other areas





Fluoride Varnish – Application Examples





Fluoride Varnish Online Resources

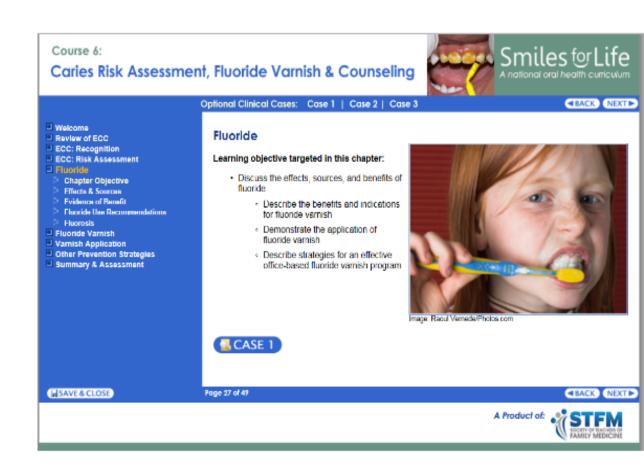
Smiles for Life Training Course www.smilesforlifeoralhealth.org/

American Academy of Pediatrics: Fluoride Remains a Powerful Tool to Prevent Tooth Decay

https://www.aap.org/en/news-room/news-releases/aap/2020/american-academy-of-pediatrics-fluoride-remains-a-powerful-tool-to-prevent-tooth-decay/

CenCal Health Pediatric Oral Health

<u>providers/care-guidelines/medi-cal-for-kids-teens-</u>services/pediatric-oral-health/





Fluoride Varnish – Parent After Care Info

- Do not eat or drink anything except water for 1 hour
- 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

Print copies of *Fluoride Varnish – Helping Smiles Stay Strong* brochure

https://www.dhcs.ca.gov/formsandpubs/publications/Documents/Fluoride-Varnish-Helping-Smiles-Stay-Strong.pdf

Fluoride Varnish



Helping
Smiles
Stay Strong

Fluoride Varnish – Important 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 applications in medical offices, dentists can also provide fluoride varnish or other topical fluoride treatments three times a year



Documentation





Oral Health Assessment Documentation

- Oral health exams must be completed and documented in the EHR/EMR at each well child exam
- Oral health assessment is different from mouth and throat and must explicitly address:
 - The status of the teeth including the dental classification,
 - The child's oral health habits
 - If the child has a dental home
 - The last time the child saw the dentist
 - The routine dental referral (educating parents to)
- Routine dental referral or FV applications must be documented.
- Anticipatory guidance must be clearly documented and include recommendation of seeing the dentist at least every 6 months

HER/EMR Documentation of Dental Class II, III, & IV

- Dental problem and dental classification must be indicated (i.e. tooth decay, caries, gingivitis)
- Referral to a dentist is mandatory and must be documented
- Referral made to CHDP using care coordination form (FFS/Gateway clients ONLY at this time)
- Anticipatory guidance must be documented



Office Protocol





How to Implement in Your Practice

- Get leadership commitment
- Establish Health Records (EMR) for documentation
- Engage staff information meetings
- Identify workflow
- Provide practicum training
- Train on documentation
- Publicize to parents
- Set a start date







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 small and go slow





Billing





Billing Information

- Reimbursable 3 times in a 12-month period
- For children birth through5 years of age
- Fee-for-Service Medi-Cal clients:
 - Billing code: CPT 99188*
 - Reimbursement \$18 per application

Managed Care Plan:

- Reimbursement varies
- Contact individual plan

FQHC/RHC/HIS

 Not billable as a separate procedure – absorbed into encounter reimbursement



Common ICD 10

Common Dental Diagnosis	ICD-10 Code*
Prophylactic Fluoride Administration (e.g. for normal exam)	Z41.8
Demineralization = white spots = caries limited to enamel	K02.61
Plaque/Tartar	K03.6
Gingivitis (chronic, plaque induced)	K05.10
Caries (unspecified)	K02.9



Dental Classification Quiz



















The answer is:

CLASS III - Severe Dental Problem

Large carious lesions, chronic abscess, extensive gingivitis or history of pain

Dental care is URGENT!













The answer is:

CLASS I - No visible dental problem













The answer is:

CLASS IV -Emergency Dental problem

- Treatment required
- Acute injury, oral infection or other painful condition.
- IMMEDIATE dental referral

Acute injury or infection!

















The answer is:

CLASS II -Small carious lesions or gingivitis

- Child is asymptomatic
- Not an urgent condition, but requires a dental referral









5) Which Teeth Benefit from FV Application?

These photos represent the various stages in which dental caries can progress:



No Visible Decay:
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:
Reversible with fluoride
varnish and better home
care to inhibit
progression of caries





Teeth Without pulp exposure or open lesions

- when stomatitis is present and should not be applied on large open lesions of the teeth or gums.
- Avoid these areas, but apply fluoride varnish to all other teeth in the mouth

TIP: Providers should always show white/brown/black areas to the parents, encourage better brushing along the gum line and explain the need to reduce fermentable carbohydrate exposures.

Fluoride Varnish Quiz





For children six years or younger, which in-office fluoride treatment type is recommended?

- A. Fluoride Foam
- B. Fluoride Varnish
- C. Fluoride Gel
- D. None of the above



For children six years or younger, which in-office fluoride treatment type is recommended?

A. Fluoride Foam



D. None of the above



TRUE or FALSE

Fluoride is a naturally occurring mineral compound and exists naturally in virtually all bodies of water on Earth.





Fluoride is a naturally occurring mineral compound and exists naturally in virtually all bodies of water on Earth.



Who needs Fluoride Varnish in children?

- A. Those with lack of fluoride in Drinking water, Vitamins/Supplements and Toothpaste
- B. Those with no recent dental visit (last 12 months)
- C. Those with poor homecare with lack of daily brushing & flossing
- D. Children with special health care needs
- E. All EPSDT/ CHDP children are at high risk!!!



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Important Next Steps:

cencalhealth.org/providers/care-guidelines/medi-cal-for-kids-teens-services/pediatric-oral-health/

- 1. Please take a moment to work with your Clinical Trainer and walk through a fluoride varnish application process practice session.
- 2. Once complete, please submit the CenCal Health Training Acknowledgement Form to receive your Fluoride Varnish Training Certificate of Completion for your records.



- Fluoride Varnish
- General Information
 - www.astdd.org/docs/Sept2007FINALFlyarnishpaper.pdf
 - www2.aap.org/oralhealth/PracticeTools.html
 - www.cdc.gov/fluoridation/safety/dental fluorosis.htm #10
 - o www.cdph.ca.gov/certlic/drinkingwater/Documents/Fluoridation/PWS%20Statewide%20Fluoridation%20Table%202010.pdf
- National Effort
 - o http://www.pewstates.org/research/analysis/reimbursing-physicians-for-fluoride-varnish-85899377335
- Effectiveness
 - www.ncbi.nlm.nih.gov/pmc/articles/PMC2257982/?tool=pubmed
- Risk Assessment Tool
 - http://www2.aap.org/commpeds/dochs/oralhealth/docs/RiskAssessmentTool.pdf
- Who Can Apply
 - o www.dhcs.ca.gov/services/chdp/Documents/Letters/chdppin0608.pdf
 - o files.medi-cal.ca.gov/pubsdoco/publications/masters-mtp/part2/dental m00o03o09.doc
 - o <u>cda.org/popup/cda-sponsored legislation clarifies who can place topical fluoride including fluoride varnish</u>
- Parent Brochure
 - www.cdph.ca.gov/programs/MCAHOralHealth/Documents/MO-OHP-FluorideVarnish-English.pdf



- Training Modules
 - o <u>www.youtube.com/watch?v=cV5OmL7C8K4&feature=player_embedded</u>
 - www.youtube.com/watch?v=zNOIGS1ggSg&feature=player_embedded
 - www.ohmdkids.org/flvarnish/
- Billing Code
 - o <u>files.medi-cal.ca.gov/pubsdoco/publications/masters-mtp/part2/dental_m00o03o09.doc</u>
- MD-DDS Referral Form
 - o http://www.dhcs.ca.gov/services/chdp/Documents/CHDPDental/DTMPReferral.pdf

For CHDP Dental and other trainings:

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

For local CHDP contact information:

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

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To return to the beginning of the Fluoride Varnish Training click <u>HERE</u>



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 - o Retrieved from http://yalaro.com/sugary-drinks-bad-carbs-tied-to-these-cancers.html
- White spot lesions image. Hesnson. (July 2013). Baby bottle tootch decay.
 - o Retrieved from http://www.hensondds.com/248/



Together we can stop the epidemic of dental disease!



Medical Providers



Dental Providers



Parents / Caregivers



Individuals

