



DEPARTMENT OF THE AIR FORCE
WILFORD HALL MEDICAL CENTER (AETC)

1 DEC 1994

MEMORANDUM FOR USAF Preventive Dentistry Officers

FROM: Dunn Dental Clinic/DSB
1615 Truemper Street
Lackland AFB TX 78236-5551

SUBJECT: Preventive Dentistry Update #14

1. **Deja Vu.** If you have been living in a cave this past year, you may not be aware of the decision to return to the days of yesteryear. The term "Dental Health" is out and "Preventive Dentistry" is in....again. So, if you haven't already done so, make the necessary changes in your operating instructions, etc.

2. **Advisor in Preventive Dentistry to the Director of Air Force Dental Services.** Another change this year is a change in venue for me. I PCS'd from Sheppard AFB in April and moved to Lackland AFB (Dunn Dental Clinic to be exact). You can now contact me at the following address and phone number: DUNN DENTAL CLINIC/DSB; 1615 TRUEMPER STREET; LACKLAND AFB 78236-5551; DSN 554-6331/6288. The latter number is connected to an answering machine on which you can leave a message should I not be available to answer your call. Also, note that the term "Special Consultant" has been changed to "Advisor."

3. **USAF Preventive Dentistry Course.** As you probably know, due to the USAF Dental Infection Control and Occupational Safety Course, we did not conduct a Preventive Dentistry Course in 1994. The two courses were originally scheduled to rotate and be held every other year. Based on the high demand for the former and a survey of the MAJCOM's need for the latter, funded quotas for FY95 have been divided between the two courses. As a result, the Preventive Dentistry Course will probably have around 20 funded quotas and is scheduled for 11-15 September 1995 at Lackland AFB (not the usual Brooks AFB location). The curriculum is under development and not finalized, but may include a clinical day with a "train-the-trainer" approach.

5. **Slide Series - Child Abuse.** Thanks to the efforts of Major Rob Malek, pediatric dentist at Misawa AB, the Child Abuse slide series has been updated. Local reproduction efforts are underway, and the series will soon be available for loan. As with all other slide series, I will loan it to you for 60 days. You may duplicate the entire package (slides and accompanying script) if you wish. Use the address or phone number in Item 2 to make your requests. First come, first served.

6. **Periodontal Screening and Recording (PSR).** Don't be too surprised if PSR supplants the Air Force Periodontal and Hygiene Indices (P&H) as our standard method of assessing periodontal needs. Preliminary trials were conducted at three Air Force bases with positive results. A recommendation from the Special Consultant in Periodontics to convert to PSR is now at HQ USAF/SGD for evaluation. Most likely, a phase-in approach will be taken. A more thorough discussion of PSR can be found in Dental Health Update #13, Item 8. While we're on the subject of indices, let me answer a question I get from time to time. Yes, other indices can be used and taken credit for on the AF Form 644, even if they are used only in your clinic. They should, however, have definite criteria and be codified so that the entire staff knows what the indices mean. Indices other than P&H or PSR might include a stain index, a bleeding index, or a gingivitis index, just to name a few.

7. **Changes to Enlisted Training.** At the recent Dental Service Utilization and Training Workshop at Sheppard AFB, the dental enlisted Career Field Manager and enlisted MAJCOM representatives met to chart a course for

future enlisted training. One of their recommendations was to remove prophylaxis training from the 12-week Dental Technician Course and institute a 2-3-week prophylaxis training course. All recommendations are pending approval from higher headquarters.

8. Caries-Active Protocol. A very interesting approach to the treatment of caries-active patients was published last year in the Journal of the American Dental Association (JADA 1993:124:37-44). The authors suggest an alternative to what they term the "surgical model" of caries treatment (drill and fill) and advocate a "medical model." This method focuses on the disease, not the symptoms. Specifically, they list the following steps in managing the caries-active patient.

- Restore the existing carious lesions with frank cavitation with caries-controlling temporary restorations until *mutans streptococci* (*ms*) have been eliminated, or permanent restorations when only a small number of lesions exist.
- Apply a fluoride-releasing pit and fissure sealant to unaffected molars and premolars to sequester these sites and prevent seeding from already infected pits. Also seal fractured, non-carious margins of amalgam restorations.
- Use chlorhexidine on a short term basis to attack the *ms* infection. A 14-day regimen of a half-ounce, 30-second rinse before bedtime will suppress the infection below the lower sensitivity limit of most caries tests.
- Apply fluoride varnishes (approved only in Europe and Canada) to smooth surfaces.
- Recommend xylitol gum (Xylifresh, Henry Schein) for patients who chew gum. (Xylitol appears to be not only non-cariogenic, but anti-cariogenic.) Two pieces, three times a day is the protocol.
- Use an ADA-approved over-the-counter fluoride rinse and dentifrice. Fluoride rinses may begin at the end of the 14-day chlorhexidine regimen.
- Recall patient to (1) determine *ms* levels; (2) perform a clinical exam; and (3) repair any defective sealants.
- Use in-office tests to assess the presence and magnitude of infection by measuring levels of *ms* in saliva.

For more detailed information, consult the article for yourself. The above is for your professional consideration and is not an official Air Force recommendation/policy.

9. Fluoride-Containing/Releasing Sealants. If you are using sealants in your adult and child patients, you may be interested to know that there are a few fluoride-containing sealants on the market that are purported to also be fluoride-releasing. Much like glass ionomer cements, these materials slowly release fluoride over time, thus offering an extra measure of protection to the surrounding tooth structure. They are:

<u>Product</u>	<u>Manufacturer</u>	<u>Price</u>	<u>Colors</u>	<u>Etching System</u>
Quickseal	Chameleon Dental Products	\$49.00	White Opaque Clear	Nitric
Teethmate-F	Morita	\$81.00	Natural Red Yellow Opaque	Phosphoric
Fluoro-Shield	L.D. Caulk	\$45.15	Opaque-White Tooth Colored	Phosphoric

10. **National Children's Dental Health Month.** The American Dental Association may have already shipped materials for 1995 National Children's Dental Health Month. Each base should receive a planning kit and 50 posters. If you haven't received yours, contact me or Ms Nina Koziol. She can be reached at 1-800-621-8099.

11. **Accepted Dental Products - Update.** Atch 1 contains the most current list of ADA Accepted Dental Therapeutics as listed in the 1993 edition of Clinical Products in Dentistry - A Desktop Reference. I've listed only the fluoride containing products; you can obtain the entire publication by contacting the Council of Dental Therapeutics.

12. **PDEP Examination and Prophylaxis.** For as long as I can remember, the American Dental Association has recommended to the general public: "See your dentist twice a year." With the advent of the Dependent Dental Plan (in which our family members can avail themselves of two exams and two prophylaxis each year), the resultant restrictions on non-active duty care in most Air Force clinics, and the impending transfer of PDEP program responsibility from the Military Personnel Flight to the Dental Service, the time may be right for us to seriously consider more frequent Type 2 exams and prophys for active duty patients who would benefit from this service. Note: this is NOT yet Air Force policy.

13. **Fluoride Supplements - New Guidelines.** The ADA, American Academy of Pediatric Dentistry and the American Academy of Pediatrics have all recommended changes in fluoride supplementation. The new guidelines include no supplementation until 6 months of age (used to start at birth); increase to 0.5 mg at age 3 (instead of age 2); increased to 1.0 mg at age 6 (instead of age 3); continue supplementation until age 16 (used to be age 14); and no supplementation if water levels are above 6.0 ppm (instead of 7.0 ppm).

<u>Age</u>	<u>Fluoride in Water (ppm)</u>		
	<u><0.3</u>	<u>0.3 - 0.6</u>	<u>>0.6</u>
Birth to 6 mo	0	0	0
6 mo - 3 yrs	0.25 mg	0	0
3-6 yrs	0.50 mg	0.25 mg	0
6 - 16 yrs	1.0 mg	0.50 mg	0

By the way, 1.0 ppm remains the standard for water fluoridation. The ADA has recommended no changes in this area. The only approved topical fluoride systems remain 2% neutral sodium fluoride, 8% stannous fluoride and 1.23% APF. A careful examination of Atch 1 reveals the absence of an ADA-approved neutral sodium or stannous fluoride office-applied topical. This issue was previously discussed in Dental Health Update #12, Item 3. There are at least two neutral sodium fluoride topical products on the market, both of which can probably be used effectively. Please note that neutral sodium fluoride originally gained acceptance using a multiple application regimen versus APF and stannous, which were approved using single applications. This is a controversy which will probably never be totally resolved, i.e., don't expect clinical trials comparing multiple and single applications of neutral sodium fluorides. There is, however, laboratory data to suggest all three fluoride systems offer the same benefits with a single application.



LAURENCE P. CRIGGER, Colonel, USAF, DC
Advisor in Preventive Dentistry to the
Director of Air Force Dental Services

Attachments

1. ADA Approved Products

- Currently Accepted Therapeutic Products (from Clinical Products in Dentistry, 1993)

Fluoride Dentifrices, Sodium Fluoride

Aqua-fresh Tarter Control Toothpaste - SmithKline Beecham Consumer Products
Colgate Fluoride Gel - Colgate Palmolive Co.
Colgate Fluoride Toothpaste - Colgate Palmolive Co.
Colgate Tartar Control Formula Gel - Colgate-Palmolive Co
Colgate Tartar Control Formula Toothpaste - Colgate-Palmolive Co
Crest Tartar Control Formula Toothpaste, Mint, Regular - Proctor & Gamble Co
Crest Toothpaste, Mint, Regular - Proctor & Gamble Co
Crest Toothpaste for Kids, Fun Fruit, SparkleFun - Proctor & Gamble Co
Gel Formula Crest - Proctor & Gamble Co
Cumberland-Swan Fluoride Toothpaste, 1 oz, 6.4 oz, Mint, Regular - Cumberland-Swan Inc. a Div of Perrigo Co.
Prevent Tartar Prevention Toothpaste with Fluoride - Johnson & Johnson Consumer Products, Inc.
Sesame Street Fluoride Toothpaste - Oral-B Laboratories, Inc.
Shane Fluoride Toothpaste - Jerome Milton, Inc.

Fluoride Dentifrices, Monofluorophosphate

Anti-Tartar Aim Plus Fluoride Toothpaste - Chesebrough-Pond, Inc.
Aqua-fresh Fluoride Toothpaste - SmithKline Beecham Consumer Products
Aqua-fresh for Kids Toothpaste - SmithKline Beecham Consumer Products
Colgate Junior with MFP Fluoride Gel - Colgate-Palmolive Co
Colgate Great Regular Flavor Fluoride Toothpaste - Colgate-Palmolive Co
Dentaguard Fluoride Toothpaste - Colgate-Palmolive Co
Extra-Strength Aim Gel - Chesebrough-Pond Inc
Extra-Strength Aim Toothpaste - Chesebrough-Pond Inc
Macleans Fluoride Toothpaste, Mildmint, Peppermint - SmithKline Beecham Consumer Brands
Regular-Strength Aim Toothpaste, Mint, Regular - Chesebrough-Pond Inc
Sensodyne Toothpaste for Sensitive Teeth and Cavity Prevention, Fresh Mint - Block Drug Co, Inc
Topol Smoker's Fluoride Gel, Peppermint-Spearmint - Dep Corp
Topol Smoker's Fluoride Toothpaste with Fluoride, Peppermint-Spearmint - Dep Corp

Systemic Supplements

Fluoritab Sodium Fluoride Oral Liquid, 22.8 ml - Fluoritab Corp
Fluoritab Sodium Fluoride Chewable Tablets, 2.2 mg, Cherry, Pineapple - Fluoritab Corp
Flura-Drops - Kirkman Laboratories, Inc
Flura-Loz - Kirkman Laboratories, Inc
Flura-Tablets - Kirkman Laboratories, Inc
Karidium Sodium Fluoride Liquid - Lorvic Corp
Karidium Sodium Fluoride Tablets - Lorvic Corp
Luride SF Lozi-Tabs - Colgate-Hoyt /Gel-Kam, Div of Colgate-Palmolive
Luride Sodium Fluoride Drops - Colgate-Hoyt /Gel-Kam, Div of Colgate-Palmolive
Luride Sodium Fluoride Lozi-Tabs, 0.25 mg, 0.5 mg, 1.0 mg - Colgate-Hoyt /Gel-Kam, Div of Colgate-Palmolive

- Currently Accepted Therapeutic Products (from Clinical Products in Dentistry, 1993)

Fluoride Dentifrices, Sodium Fluoride

Aqua-fresh Tarter Control Toothpaste - SmithKline Beecham Consumer Products
Colgate Fluoride Gel - Colgate Palmolive Co.
Colgate Fluoride Toothpaste - Colgate Palmolive Co.
Colgate Tartar Control Formula Gel - Colgate-Palmolive Co
Colgate Tartar Control Formula Toothpaste - Colgate-Palmolive Co
Crest Tartar Control Formula Toothpaste, Mint, Regular - Proctor & Gamble Co
Crest Toothpaste, Mint, Regular - Proctor & Gamble Co
Crest Toothpaste for Kids, Fun Fruit, SparkleFun - Proctor & Gamble Co
Gel Formula Crest - Proctor & Gamble Co
Cumberland-Swan Fluoride Toothpaste, 1 oz, 6.4 oz, Mint, Regular - Cumberland-Swan Inc. a Div of Perrigo Co.
Prevent Tartar Prevention Toothpaste with Fluoride - Johnson & Johnson Consumer Products, Inc.
Sesame Street Fluoride Toothpaste - Oral-B Laboratories, Inc.
Shane Fluoride Toothpaste - Jerome Milton, Inc.

Fluoride Dentifrices, Monofluorophosphate

Anti-Tartar Aim Plus Fluoride Toothpaste - Chesebrough-Pond, Inc.
Aqua-fresh Fluoride Toothpaste - SmithKline Beecham Consumer Products
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Colgate Junior with MFP Fluoride Gel - Colgate-Palmolive Co
Colgate Great Regular Flavor Fluoride Toothpaste - Colgate-Palmolive Co
Dentaguard Fluoride Toothpaste - Colgate-Palmolive Co
Extra-Strength Aim Gel - Chesebrough-Pond Inc
Extra-Strength Aim Toothpaste - Chesebrough-Pond Inc
Macleans Fluoride Toothpaste, Mildmint, Peppermint - SmithKline Beecham Consumer Brands
Regular-Strength Aim Toothpaste, Mint, Regular - Chesebrough-Pond Inc
Sensodyne Toothpaste for Sensitive Teeth and Cavity Prevention, Fresh Mint - Block Drug Co, Inc
Topol Smoker's Fluoride Gel, Peppermint-Spearmint - Dep Corp
Topol Smoker's Fluoride Toothpaste with Fluoride, Peppermint-Spearmint - Dep Corp

Systemic Supplements

Fluoritab Sodium Fluoride Oral Liquid, 22.8 ml - Fluoritab Corp
Fluoritab Sodium Fluoride Chewable Tablets, 2.2 mg, Cherry, Pineapple - Fluoritab Corp
Flura-Drops - Kirkman Laboratories, Inc
Flura-Loz - Kirkman Laboratories, Inc
Flura-Tablets - Kirkman Laboratories, Inc
Karidium Sodium Fluoride Liquid - Lorvic Corp
Karidium Sodium Fluoride Tablets - Lorvic Corp
Luride SF Lozi-Tabs - Colgate-Hoyt /Gel-Kam, Div of Colgate-Palmolive
Luride Sodium Fluoride Drops - Colgate-Hoyt /Gel-Kam, Div of Colgate-Palmolive
Luride Sodium Fluoride Lozi-Tabs, 0.25 mg, 0.5 mg, 1.0 mg - Colgate-Hoyt /Gel-Kam, Div of Colgate-Palmolive

Gel-Tin 0.4% Stannous Fluoride Dental Gel, 2 oz, Cinnamon, Grape, Lime, Mint, Orange, Raspberry - Young Dental Manufacturing
Perfect Choice 0.4% Stannous Fluoride Home Fluoride Treatment Gel, 4.3 oz - Challenge Products Inc
Quik-Gel 0.4% Stannous Fluoride Home Care Gel, 4.3 oz - Dental Resources, Inc
Schein Home Care 0.4% Stannous Fluoride Gel, Mint - Henry Schein, Inc
Stan-Guard 0.4% Stannous Fluoride Home Treatment Gel, 4.3 oz, Bubblegum, Cherry, Mint, Pina Colada, Unflavored - Pascal Co, Inc
Stop 0.4% Stannous Fluoride Home Treatment Gel, 4 oz, Bubblegum, Cinnamon, Mint, Pina Colada, Tangy Grape - Oral-B Laboratories, Inc

Topical/Office-Use Acidulated Gels and Rinses

Fluorident Liquid - Premier Dental Products Co.
Fluorident 1.23% Acidulated Phosphate Fluoride Topical Gel, Cherry, Mint - Premier Dental Products Co.
Flura-Gel 1.23% Acidulated Phosphate Fluoride Topical Gel - Cadco Dental Products
Gel II 1.23% Acidulated Phosphate Fluoride Topical Gel, 16 oz, Apple Cinnamon - Oral-B Laboratories, Inc.
Healthco Fluoride Gel VM, Quart, Bubble Gum, Orange, Strawberry, Vanilla Creme - Healthco International
Healthco Topical Fluoride Gel - Healthco International
Karidium Thixotropic Acidulated Phosphate Fluoride Topical Gel, Cherry, Grape, Orange - Lorvic Corp
Karidium Acidulated Phosphate Fluoride Topical Solution, Cherry, Grape - Lorvic Corp
Karidium Thixotropic Acidulated Phosphate Fluoride Topical Gel, Cherry, Orange - Lorvic Corp
Kerr Fluoride Gel - Kerr Manufacturing Co, a Subsidiary of Sybron Corp
Luride 1.2% Acidulated Phosphate Fluoride Topical Gel, Bubble Gum, Cherry, Mint, Raspberry, Lime Rickey, Strawberry-Banana - Colgate-Hoyt/Gel-Kam, Div of Colgate-Palmolive Co
New Age Topical Fluoride Gel, Bubble Gum, Cherry, Mint, Orange, Strawberry, Tahitian Fruit, Vanilla - Pascal Co, Inc
Nupro Flo 1.23% Acidulated Phosphate Fluoride Topical Gel, Bubble Gum, Tropical Fruit, Wild Cherry - Ash Dentsply, Ash-USA Div
Nupro 1.23% Acidulated Phosphate Fluoride Topical Gel, Bubble Gum, Tropical Fruit, Wild Cherry - Ash Dentsply, Ash-USA Div
Perfect Choice 1.23% Acidulated Phosphate Fluoride Thixotropic Topical Fluoride Gel, Banana, Bubblegum, Butterscotch, Grape, Marshmallow, Orange, Pineapple, Strawberry, Tutti Frutti, Vanilla - Challenge Products, Inc.
Phos-Flur Oral Rinse Supplement, 250 ml, 500 ml, Cherry, Cinnamon, Grape, Wintergreen - Colgate-Hoyt/Gel-Kam, Div of Colgate-Palmolive Co
Preident Topical Fluoride Treatment Gel - Harry J. Bosworth Co
Rafluor Topical Gel - Pascal Co, Inc
Rafluor Topical Solution - Pascal Co, Inc
Thixo-Flur 1.2% Acidulated Phosphate Fluoride Topical Gel, Bubble Gum, Cherry, Mint, Strawberry - Colgate-Hoyt/Gel-Kam, Div of Colgate-Palmolive Co