

**Table A1. Means and standard deviations of characteristics of dental practice(s) that provided a topical fluoride service to at least one participant during follow-up; and those that provided a prophylaxis to at least one participant during follow-up**

Dental practice characteristic	practice provided topical fluoride to at least one subject n = 42	practice did NOT provide topical fluoride to at least one subject n = 140	practice provided a prophylaxis to at least one subject n = 163	practice did NOT provide a prophylaxis to at least one subject n = 19	statistical significance*
<b>Practice setting</b>					
Practice busyness rating	2.70 (0.79)	2.62 (0.82)	2.66 (0.81)	2.47 (0.82)	--
Typical time a patient has to wait ... for a new patient exam appointment (in days)	11.11 (10.99)	14.00 (22.41)	13.47(20.89)	12.20 (15.50)	--
for a restorative dentistry appt (in days)	10.43 (12.45)	11.66 (18.75)	11.86(18.42)	7.75 (7.68)	--
in waiting room (in minutes)	8.91 (6.61)	10.41 (8.20)	9.81 (7.84)	12.26 (7.99)	--
Percent of visits in practice due to unscheduled care	7.78 (7.71)	8.79 (9.15)	8.37 (8.58)	10.13(10.85)	--
Number of patient visits each week done by dentist	55.60 (29.03)	55.24 (28.91)	55.47(29.54)	54.13(22.90)	--
Number of hours each week in direct patient care	31.17 (9.25)	33.06 (6.86)	32.71 (7.46)	31.92 (8.04)	--
Number of dental chairs regularly used	4.62 (2.29)	4.20 (1.95)	4.39 (2.11)	3.53 (1.02)	--
Number of full-time staff	4.23 (2.32)	3.67 (1.87)	3.87 (2.03)	3.18 (1.53)	--
Number of part-time staff	2.05 (1.30)	2.02 (1.32)	2.05 (1.28)	1.83 (1.63)	--
<b>Patient population</b>					
Percent of patients who are ...					
covered by a private insurance program	58.85 (23.02)	55.33 (21.05)	56.95(21.20)	49.24(23.45)	--
covered by a public program	7.86 (17.79)	5.66 (13.05)	5.67 (13.70)	10.39 (18.31)	2
not covered by any third party, pay own bills	26.71 (16.90)	34.93 (20.24)	32.71(19.36)	35.82 (23.51)	1
not covered, receive free or reduced-fee care	4.20 (10.12)	3.72 (8.80)	3.75 (9.27)	4.55 (7.58)	--

<u>Percent of practice charges derived from ...</u>					
dental insurance	53.46 (20.91)	52.27 (20.73)	52.48(20.13)	53.08 (25.90)	--
self-pay	38.87 (21.49)	40.38 (20.47)	40.08(20.18)	39.61(25.07)	--
unpaid bills	4.22 (5.07)	3.88 (4.85)	3.98 (4.94)	3.76 (4.53)	--
other	1.19 (6.81)	1.98 (8.09)	1.59 (7.59)	3.55 (9.48)	--
Percent of patients on extended payment schedules	9.95 (13.15)	11.51 (18.88)	11.37(18.10)	9.21 (13.87)	--
<u>Percent of patients who ...</u>					
seek care soon enough	60.89 (23.86)	60.32 (24.24)	61.98(23.81)	45.88 (22.38)	2
fear dentists	43.93 (27.08)	43.00 (28.01)	41.58(27.67)	57.11 (24.79)	2
visit dentists more often than necessary	3.76 (8.32)	3.34 (4.80)	3.67 (5.96)	1.47 (3.25)	2
complain about waiting	6.18 (9.80)	6.98 (14.58)	6.48 (12.76)	9.50 (19.67)	--
pay their bills	85.75 (24.86)	90.54 (11.24)	89.18(16.18)	91.61 (7.96)	1
follow advice about dental hygiene	61.49 (22.06)	59.44 (21.17)	60.24(21.65)	56.67 (18.09)	1
show for appointments as scheduled	85.02 (15.17)	85.68 (8.73)	85.97(10.63)	81.68 (8.89)	2
take responsibility for their oral health	72.83 (20.27)	71.73 (17.85)	72.45(18.60)	68.05 (16.22)	1
treat me with the respect that I deserve	87.65 (22.00)	91.87 (9.57)	91.67(13.53)	84.47 (11.53)	2
want to know details about condition of their mouths	72.08 (24.73)	72.51 (23.02)	72.95(23.58)	67.76 (21.42)	--
want to know details about treatment options	74.50 (26.20)	74.82 (22.99)	75.30(24.37)	70.00 (16.58)	--
use credit cards to pay for their treatment	23.87 (15.20)	22.16 (16.56)	22.68(16.64)	21.4 (12.52)	--
<u>Percent of patients who are ...</u>					
1-18 years old	12.31 (9.82)	13.34 (10.78)	15.67 (0.99)	13.58 (9.77)	--
19-44 years old	30.84 (13.16)	30.35 (13.34)	29.39 (1.31)	31.86 (14.02)	--
45-64 years old	35.33 (14.48)	35.19 (12.87)	35.90 (1.40)	35.83 (12.37)	--
65 years old or older	19.14 (13.80)	20.40 (11.39)	19.04 (1.30)	18.72 (8.72)	--
<u>Percent of patients who are ...</u>					
non-Hispanic White	70.28 (18.83)	66.18 (23.02)	51.52 (2.27)	60.91 (28.41)	--
non-Hispanic Black	20.41 (12.60)	22.82 (20.60)	43.49 (2.15)	21.26 (24.42)	--
Hispanic	3.65 (4.04)	5.08 (6.93)	3.25 (0.58)	5.65 (6.51)	--
of Asian descent	2.96 (3.48)	3.02 (3.27)	1.67 (0.39)	3.29 (3.75)	--
of other ethnicity	0.32 (1.33)	0.33 (1.27)	0.07 (0.17)	0.06 (0.24)	--
<b>Dental procedure characteristics</b>					
For dental extractions ... what percent are replaced eventually by ...					
Fixed bridge	38.47 (23.36)	36.06 (24.58)	37.80 (24.21)	25.56 (22.56)	--
Removable partial or full denture	25.36 (18.36)	29.56 (18.73)	28.33 (18.40)	31.03 (21.56)	--

Dental implant	8.71 (13.00)	4.90 (8.24)	6.17 (9.98)	2.03 (3.86)	1,2
Not replaced	22.34 (20.53)	23.46 (19.18)	23.16 (19.51)	23.62 (19.41)	--
Other	0.13 (0.79)	0.10 (0.69)	0.11 (0.74)	0.12 (0.49)	--
Number dental extraction patients each month	19.40 (20.98)	29.98 (60.31)	26.57 (55.06)	36.39 (43.95)	--
<u>Percent patient contact time dentist spends doing...</u>					
non-implant restorative dentistry	42.31 (29.72)	46.08 (28.22)	46.10 (28.21)	37.61 (30.94)	--
dental implants (surgery or prosthetic time)	3.19 (4.59)	2.81 (6.75)	2.97 (6.26)	2.24 (6.86)	1
removable prosthetics	7.79 (12.25)	10.49 (12.46)	9.69 (11.82)	11.42 (17.10)	1
dental extractions	10.38 (19.08)	12.47 (19.04)	11.47 (18.75)	16.39	--
periodontal therapy (surgical and non-surgical)	12.40 (26.71)	7.27 (16.48)	9.10 (20.29)	(21..23)	--
endodontic (surgical and non-surgical)	11.54 (21.75)	11.19 (22.29)	10.19 (19.80)	2.89 (5.35)	--
other (preventive and diagnostic)	10.00 (10.07)	9.01 (8.14)	9.28 (8.59)	20.58 (35.84)	--
				8.87 (8.91)	
<u>Typical fee for a ...</u>					
2-surface amalgam	72.77 (23.26)	69.86 (24.50)	69.68 (24.89)	78.31 (14.20)	--
3-canal molar root canal	483.62	451.56	448.35	544.55	--
Single uncomplicated extraction	(133.74)	(181.76)	(177.08)	(85.04)	--
Cast partial denture	79.37 (39.32)	69.50 (23.41)	72.03 (29.31)	70.13 (14.82)	--
Full denture	766.48	731.81	736.50	768.32	--
Porcelain-to-metal crown	(190.38)	(271.63)	(260.09)	(214.52)	--
	695.20	683.87	689.31	658.79	
	(184.81)	(265.35)	(254.13)	(208.47)	
	551.31	535.25	537.00	557.81	
	(126.80)	(163.25)	(161.74)	(63.80)	
<u>Percent of procedures you refer to other dentists...</u>					
Periodontal surgery	70.82 (44.27)	79.13 (36.38)	76.02 (39.20)	87.18 (29.71)	--
Prosthetic crowns and bridges (other than implants)	19.52 (39.55)	15.45 (35.24)	15.18 (35.01)	26.71 (45.02)	--
Implant surgery	72.98 (43.38)	82.70 (36.91)	79.34 (39.32)	89.47 (31.53)	--
Implant restorations	26.46 (43.16)	38.89 (47.07)	34.79 (46.15)	46.58 (48.31)	--
Full dentures	28.87 (42.33)	21.01 (38.36)	22.73 (39.13)	23.84 (42.13)	--
Removable partial dentures	20.36 (39.61)	15.02 (34.03)	15.63 (34.64)	21.61 (41.65)	--
Anterior tooth root canals	37.91 (45.75)	27.98 (41.91)	31.80 (43.55)	17.39 (35.28)	--
Molar tooth root canals	58.42 (43.95)	61.83 (41.52)	63.45 (41.23)	40.53 (44.06)	2
Endodontic surgery	85.80 (33.74)	80.31 (37.69)	83.36 (35.23)	66.32 (46.57)	--
Non-surgical extractions	29.17 (38.79)	25.82 (36.80)	26.58 (36.85)	26.82 (41.02)	--
Surgical extractions	59.11 (38.94)	60.11 (37.91)	59.79 (37.63)	60.63 (42.59)	--
Orthodontics	87.88 (30.44)	93.09 (23.69)	92.15 (24.72)	89.47 (31.53)	--

<u>Percent of patients who receive the following services at some time while in your practice...</u>					
Dental x-rays	97.92 (4.58)	95.82 (10.67)	96.80 (8.17)	92.03 (17.71)	--
Diet counseling	24.08 (27.44)	20.55 (27.50)	22.21 (28.20)	14.21 (19.00)	--
Blood pressure screening	54.38 (39.74)	37.08 (37.41)	40.45 (38.38)	46.71 (40.60)	1
Oral cancer screening examination	93.93 (16.98)	90.00 (25.73)	91.98 (21.95)	81.84 (36.71)	--
Oral hygiene instruction	85.18 (28.63)	86.43 (29.01)	87.53 (27.20)	74.21 (39.27)	--
In-office fluoride application	56.14 (37.74)	37.30 (31.84)	41.93 (33.72)	39.21 (38.34)	1
Fluoride gel/rinse prescribed/recommended for home	40.02 (33.40)	24.78 (23.21)	29.09 (27.43)	21.71 (17.56)	1
Patient education from written pamphlets	52.82 (36.11)	44.41 (33.62)	45.79 (33.72)	51.32 (39.54)	--
Patient education from videos or slides	16.51 (33.29)	14.63 (29.38)	14.68 (29.71)	18.34 (35.19)	--
Intraoral photographs taken	9.02 (15.66)	9.38 (19.82)	9.40 (18.44)	8.45 (23.04)	--
Intraoral video images taken	14.31 (24.13)	8.09 (20.35)	9.92 (21.92)	6.16 (16.00)	1
<b>Dentist individual characteristics</b>					
Dentist's current age	48.29 (8.03)	50.15 (11.76)	49.95 (10.92)	47.76 (11.96)	--
Last two figures of dentist's graduation year	76.21 (8.95)	74.62 (12.24)	74.78 (11.48)	76.74 (12.45)	--
<u>Amount of agreement with these statements...</u>					
Patients should seek second opinions ...	4.00 (0.74)	4.07 (0.98)	4.00 (0.92)	4.47 (0.84)	2
Patients better off not knowing all the facts ...	1.63 (1.05)	1.83 (1.33)	1.79 (1.23)	1.74 (1.59)	--
Dentists should present all treatment options ...	5.15 (1.27)	5.11 (1.20)	5.15 (1.19)	4.84 (1.35)	--
... dentist should try to convince patient to accept it.	3.20 (1.31)	3.18 (1.43)	3.15 (1.38)	3.50 (1.52)	--
... the patient should be dismissed from practice	2.36 (1.16)	2.50 (1.15)	2.49 (1.17)	2.32 (1.00)	--

1: the differences in means between practices that provided topical fluoride to at least one FDCS subject and those that did not is statistically significant, at  $p < 0.05$ , by Wilcoxon's rank sums test.

2: the differences in means between practices that provided a prophylaxis to at least one FDCS subject and those that did not is statistically significant, at  $p < 0.05$ , by Wilcoxon's rank sums test.

**Table A2. Percentage of patients who had a fluoride procedure; mean (S.D.) fluoride procedures among those with at least one; percentage of persons with a dental prophylaxis; mean (S.D.) prophylaxes among those with at least one; by participant characteristic**

Patient's characteristic (weighted <i>n</i> )	% of patients with at least one fluoride procedure	mean (S.D.) fluoride procedures <sup>a</sup>	% of patients with at least one prophylaxis	mean (S.D.) prophylaxes <sup>a</sup>
All participants (558)	9%	3.5 (3.8)	76%	5.0 (3.5)
<b>Characteristics of practices that this participant attended</b>				
<u>Practice reported providing in-office topical fluoride to...</u>				
less than 24% of patients (119)	<b>2% *</b>	1.7 (1.5) <sup>ns</sup>	77% <sup>ns</sup>	5.4 (3.6) <sup>ns</sup>
25% - 44% of patients (120)	<b>3%</b>	1.6 (0.6)	80%	4.4 (3.4)
45% - 75% of patients (119)	<b>10%</b>	2.1 (1.3)	69%	4.7 (3.0)
75% of patients or more (136)	<b>25%</b>	4.2 (4.6)	77%	5.8 (3.8)
missing (104)				
<u>Practice reported recommending in-home fluoride gel or rinse use to...</u>				
less than 10% of patients (127)	<b>2% *</b>	1.3 (0.7) <sup>ns</sup>	68% <sup>ns</sup>	5.3 (3.2) <sup>ns</sup>
10% - 17% of patients (117)	<b>3%</b>	1.6 (1.0)	84%	4.7 (3.6)
18% - 39% of patients (127)	<b>8%</b>	1.8 (0.6)	71%	4.4 (3.5)
40% of patients or more (121)	<b>30%</b>	4.2 (4.5)	82%	5.9 (3.7)
missing (105)				
<u>Percentage of patients in practice who are 45 years old or older</u>				
less than 49% of patients (127)	<b>8% *</b>	1.8 (1.3) <sup>ns</sup>	74% <sup>ns</sup>	<b>4.4 (4.0) *</b>
49% - 53% of patients (117)	<b>3%</b>	1.7 (0.7)	68%	<b>4.7 (2.8) *</b>
54% - 60% of patients (127)	<b>17%</b>	5.5 (5.5)	88%	<b>5.4 (3.8) **</b>
61% of patients or more (121)	<b>17%</b>	2.8 (2.8)	78%	<b>6.0 (3.5) **</b>
missing (106)				
<u>Percentage of patients in practice who follow advice about oral hygiene</u>				
less than 41% of patients (149)	<b>8% *</b>	1.5 (0.7) <sup>ns</sup>	74% <sup>ns</sup>	4.3 (3.3) <sup>ns</sup>
41% - 59% of patients (99)	<b>26%</b>	3.5 (2.4)	68%	5.3 (3.3)
60% - 69% of patients (123)	<b>31%</b>	5.1 (6.0)	89%	5.0 (3.3)
70% of patients or more (116)	<b>34%</b>	2.3 (2.0)	78%	5.9 (4.0)
missing (108)				
<u>Practice location(s)</u>				
Attended only rural practices(s) (201)	<b>4% *</b>	2.8 (1.9) <sup>ns</sup>	72% <sup>ns</sup>	4.3 (3.0) <sup>ns</sup>
Attended a mix of both types (12)	<b>0%</b>	---	64%	4.8 (5.5)
Attended only urban practice(s) (280)	<b>16%</b>	3.5 (4.1)	79%	5.6 (3.7)
missing (104)				
<b>Socio-demographic predisposing variables</b>				
<u>Approach to dental care</u>				
Problem-oriented attender (201)	<b>4% *</b>	2.1 (1.4) <sup>ns</sup>	<b>48% *</b>	<b>2.5 (1.9) *</b>
Regular attender (396)	<b>12%</b>	3.8 (4.0)	<b>90%</b>	<b>5.7 (3.5)</b>
missing (0)				
<u>Race</u>				
non-Hispanic White (478)	<b>11% *</b>	3.8 (3.9) <sup>ns</sup>	<b>84% *</b>	<b>5.3 (3.7) *</b>
non-Hispanic African-American (118)	<b>4%</b>	1.1 (0.4)	<b>45%</b>	<b>3.3 (2.1)</b>

missing (0)				
<u>Sex</u>				
Male (258)	10% <sup>ns</sup>	3.6 (3.6) <sup>ns</sup>	75% <sup>ns</sup>	5.0 (4.1) <sup>ns</sup>
Female (339)	9%	3.5 (3.9)	77%	5.1 (3.2)
missing (0)				
<u>Age group</u>				
45 – 64 years old (341)	10% <sup>ns</sup>	3.8 (4.6) <sup>ns</sup>	78% <sup>ns</sup>	4.8 (3.9) <sup>ns</sup>
65 years old or older (256)	9%	3.1 (2.5)	74%	5.3 (3.1)
missing (0)				
<u>Area of residence</u>				
Rural	<b>5% *</b>	3.6 (2.8) <sup>ns</sup>	72% <sup>ns</sup>	4.6 (3.1) <sup>ns</sup>
Urban	<b>14%</b>	3.5 (4.1)	80%	5.4 (3.8)
missing (0)				
<u>Level of formal education</u>				
Did not graduate high school (85)	<b>4% *</b>	3.3 (1.7) <sup>ns</sup>	<b>46% *</b>	4.4 (3.5) <sup>ns</sup>
Graduated high school (511)	<b>10%</b>	3.6 (3.9)	<b>81%</b>	5.1 (3.5)
missing (1)				
<u>Self-rated general health</u>				
Excellent (156)	<b>14% *</b>	4.4 (5.3) <sup>ns</sup>	<b>88% *</b>	<b>6.1 (3.9) *</b>
Very good (183)	<b>13%</b>	3.3 (3.2)	<b>81%</b>	<b>5.0 (3.7)</b>
Good (139)	<b>2%</b>	1.4 (0.4)	<b>71%</b>	<b>4.2 (2.7)</b>
Fair (83)	<b>8%</b>	2.4 (1.9)	<b>66%</b>	<b>4.0 (2.9)</b>
Poor (34)	<b>2%</b>	2.4 (0.7)	<b>40%</b>	<b>4.9 (3.1)</b>
missing (2)				
<b>Selected attitudinal predisposing variables</b>				
<u>Frustration with past dental care</u>				
Not frustrated (498)	<b>11% *</b>	3.6 (4.0) <sup>ns</sup>	<b>78% *</b>	<b>5.3 (3.5) *</b>
Has been frustrated (98)	<b>3%</b>	2.0 (0.5)	<b>66%</b>	<b>3.6 (3.1)</b>
missing (1)				
<b>Behavioral predisposing variables</b>				
<u>Smokes cigarettes</u>				
Never have smoked (275)	10% <sup>ns</sup>	3.1 (2.8) <sup>ns</sup>	<b>78% *</b>	5.2 (3.3) <sup>ns</sup>
Former smoker (230)	9%	5.0 (5.2)	<b>78%</b>	4.9 (3.6)
Current smoker (91)	8%	1.1 (0.4)	<b>65%</b>	4.8 (4.3)
missing (1)				
<u>Uses smokeless tobacco</u>				
Current user (13)	0% <sup>ns</sup>	-- <sup>nt</sup>	<b>35% *</b>	4.5 (5.0) <sup>ns</sup>
Former user (56)	5%	4.3 (2.2)	<b>65%</b>	4.4 (3.5)
Never have (520)	10%	3.4 (3.8)	<b>78%</b>	5.1 (3.5)
missing (7)				
<u>Brushing frequency</u>				
Daily or less often (194)	9% <sup>ns</sup>	3.5 (3.7) <sup>ns</sup>	<b>70% *</b>	<b>4.6 (3.5) *</b>
More than daily (402)	9%	3.6 (3.8)	<b>79%</b>	<b>5.2 (3.5)</b>
missing (1)				
<u>Flossing frequency</u>				
Flosses some (428)	<b>11% *</b>	3.9 (3.9) <sup>ns</sup>	<b>86% *</b>	<b>5.3 (3.5) *</b>
None (167)	<b>5%</b>	1.4 (0.6)	<b>51%</b>	<b>4.0 (3.3)</b>
missing (1)				
<u>Frequency of using toothpicks to clean teeth</u>				
Uses them some (202)	12% <sup>ns</sup>	4.3 (4.8) <sup>ns</sup>	79% <sup>ns</sup>	5.4 (3.8) <sup>ns</sup>
None (394)	8%	2.9 (2.6)	75%	4.9 (3.4)
missing (1)				
<b>Enabling variables</b>				

<u>Household income</u> Below \$20,000 (215) At or above \$20,000 (360) missing (23)	<b>5% *</b> <b>12%</b>	4.7 (5.2) <sup>ns</sup> 3.2 (2.9)	<b>58% *</b> <b>87%</b>	<b>4.3 (3.3) *</b> <b>5.3 (3.6)</b>
<u>100% poverty status</u> At/above 100% poverty level (504) Below the 100% level (67) missing (26)	10% <sup>ns</sup> 4%	3.6 (4.1) <sup>ns</sup> 2.6 (1.6)	<b>81% *</b> <b>48%</b>	<b>5.2 (3.9) *</b> <b>3.4 (2.0)</b>
<u>150% poverty status</u> At/above 150% poverty level (396) Below the 150% level (154) missing (47)	<b>12% *</b> <b>4%</b>	3.8 (4.3) <sup>ns</sup> 1.9 (1.4)	<b>85% *</b> <b>59%</b>	<b>5.4 (3.9) *</b> <b>3.8 (3.0)</b>
<u>Ability to pay an unexpected \$500 dental bill</u> Able to pay (323) Able to pay, but with difficulty (229) Not able to pay (44) missing (2)	10% <sup>ns</sup> 9% 3%	3.5 (3.1) <sup>ns</sup> 3.7 (4.9) 1.9 (1.0)	<b>87% *</b> <b>69%</b> <b>39%</b>	<b>5.7 (3.5) *</b> <b>4.3 (3.3)</b> <b>1.5 (0.8)</b>
<u>Covered by any type of dental insurance</u> Yes (216) No (380) missing (1)	<b>13% *</b> <b>7%</b>	2.8 (3.0) <sup>ns</sup> 4.3 (4.1)	<b>82% *</b> <b>73%</b>	5.2 (3.5) <sup>ns</sup> 4.9 (3.5)
<b>Baseline clinical status need variables</b>				
<u>Worst attachment loss in mouth</u> 0-3 mm (49) 4-6 mm (314) 7 mm or more (169) missing (65)	7% <sup>ns</sup> 11% 9%	<b>3.1 (2.4) *</b> <b>4.7 (4.3)</b> <b>1.5 (1.4)</b>	<b>83% *</b> <b>83%</b> <b>59%</b>	4.4 (2.7) <sup>ns</sup> 5.2 (3.6) 4.7 (3.6)
<u>Had active dental caries</u> No (334) Yes (261) missing (3)	<b>12% *</b> <b>6%</b>	4.1 (4.2) <sup>ns</sup> 2.0 (1.4)	<b>84% *</b> <b>66%</b>	<b>5.7 (3.5) *</b> <b>3.9 (3.3)</b>
<u>Number of teeth present</u> 1-8 (31) 9-16 (63) 17-24 (190) 25-32 (313) missing (0)	0% <sup>ns</sup> 6% 10% 11%	-- <sup>nt</sup> 2.5 (2.0) 4.3 (4.8) 3.3 (3.2)	<b>33% *</b> <b>39%</b> <b>84%</b> <b>83%</b>	<b>6.1 (5.8) *</b> <b>4.2 (2.3)</b> <b>4.2 (3.2)</b> <b>5.6 (3.6)</b>
<b>Self-reported oral health at baseline need variables</b>				
<u>Toothache</u> Yes (69) No (537) missing (1)	5% <sup>ns</sup> 10%	1.6 (0.9) <sup>ns</sup> 3.7 (3.8)	68% <sup>ns</sup> 77%	<b>3.4 (3.6) *</b> <b>5.2 (3.4)</b>
<u>Tooth that is sensitive...</u> Yes (177) No (419) missing (1)	12% <sup>ns</sup> 8%	<b>2.0 (1.7) *</b> <b>4.5 (4.2)</b>	<b>67% *</b> <b>80%</b>	<b>4.5 (3.7) *</b> <b>5.2 (3.4)</b>
<u>Abscessed tooth</u> Yes (13) No (574) missing (10)	9% <sup>ns</sup> 10%	2.0 <sup>nt</sup> 3.6 (3.8)	61% <sup>ns</sup> 77%	<b>1.9 (0.8) *</b> <b>5.1 (3.5)</b>
<u>Infected or sore gums</u>				

Yes (67) No (526) missing (4)	5% <sup>ns</sup> 10%	2.8 (1.8) <sup>ns</sup> 3.6 (3.9)	<b>49% *</b> <b>79%</b>	4.5 (3.7) <sup>ns</sup> 5.1 (3.5)
<u>Bleeding gums</u> Yes (66) No (530) missing (1)	11% <sup>ns</sup> 9%	2.2 (1.4) <sup>ns</sup> 3.7 (4.0)	<b>57% *</b> <b>79%</b>	4.3 (2.8) <sup>ns</sup> 5.1 (3.6)
<u>Loose tooth</u> Yes (72) No (519) missing (6)	9% <sup>ns</sup> 10%	2.5 (1.8) <sup>ns</sup> 3.7 (3.9)	<b>59% *</b> <b>78%</b>	4.5 (4.5) <sup>ns</sup> 5.1 (3.4)
<u>Teeth stained/look bad...</u> Yes (215) No (367) missing (15)	7% <sup>ns</sup> 11%	3.0 (2.3) <sup>ns</sup> 3.8 (4.2)	<b>68% *</b> <b>81%</b>	<b>4.5 (3.8) *</b> <b>5.3 (3.4)</b>
<u>Problem with bad breath</u> Yes (98) No (472) missing (27)	8% <sup>ns</sup> 9%	4.7 (4.2) <sup>ns</sup> 3.5 (3.9)	<b>59% *</b> <b>81%</b>	4.6 (3.5) <sup>ns</sup> 5.1 (3.6)
<u>Avoided laughing/smiling...</u> Yes (114) No (482) missing (1)	<b>4% *</b> <b>11%</b>	2.4 (1.6) <sup>ns</sup> 3.6 (4.0)	<b>61% *</b> <b>80%</b>	<b>3.8 (3.1) *</b> <b>5.3 (3.5)</b>
<u>Avoided talking ...</u> Yes (74) No (520) missing (4)	4% <sup>ns</sup> 10%	1.4 (0.6) <sup>ns</sup> 3.7 (3.9)	<b>62% *</b> <b>78%</b>	4.6 (3.6) <sup>ns</sup> 5.1 (3.5)
<u>Been embarrassed...</u> Yes (84) No (512) missing (1)	7% <sup>ns</sup> 9%	3.0 (2.0) <sup>ns</sup> 3.6 (3.9)	<b>62% *</b> <b>78%</b>	<b>4.0 (3.8) *</b> <b>5.2 (3.4)</b>
Perceive a need, but for <u>a routine check-up</u> No (460) Yes (134) missing (4)	9% <sup>ns</sup> 12%	3.2 (2.9) <sup>ns</sup> 4.3 (5.5)	<b>74% *</b> <b>83%</b>	<b>4.8 (3.3) *</b> <b>5.8 (3.9)</b>
Perceive a need, but for a <u>specific dental problem</u> No (425) Yes (168) missing (4)	10% <sup>ns</sup> 7%	3.8 (4.1) <sup>ns</sup> 2.9 (1.9)	<b>83% *</b> <b>60%</b>	<b>5.5 (3.5) *</b> <b>3.6 (3.2)</b>
Not perceiving a need, because <u>although has a problem, it can wait</u> No (556) Yes (37) missing (4)	<b>10% *</b> <b>0%</b>	3.5 (3.8) <sup>nt</sup> --	<b>78% *</b> <b>55%</b>	5.1 (3.5) <sup>ns</sup> 3.7 (3.4)
Not perceiving a need, because <u>in good shape now</u> No (321) Yes (273) missing (4)	9% <sup>ns</sup> 10%	3.7 (4.4) <sup>ns</sup> 3.4 (3.2)	<b>69% *</b> <b>85%</b>	<b>4.6 (3.7) *</b> <b>5.5 (3.2)</b>

Analysis in this table is limited to persons who had at least one dental visit during 48 months of follow-up, whose dental chart(s) could be located, and who participated for a 48-month interview (n = 597). A fluoride procedure was defined as having received either an ADA code procedure 1204 or 1205. A dental

prophylaxis was defined as having received either an ADA code procedure 1110 or 1205. A periodontal procedure was defined as having received an ADA procedure code 4000-4999. Associations between receipt of service and the characteristic of interest were tested using a Pearson  $\chi^2$  or a Mantel-Haenszel  $\chi^2$  trend test. Tests of differences in means were tested using t tests with Satterthwaite's adjustment to allow for inequality of variances.

<sup>a</sup> Means (S.D.) shown are those after limiting the analysis to persons who had at least one of these procedures during follow-up.

\* The association between participant characteristic and service receipt was statistically significant,  $p < 0.05$ .

<sup>ns</sup> The association is not statistically significant.

<sup>nt</sup> The association was not tested due to insufficient cell size(s).

**Table A3. Mean (S.D.) patient-level dental attitude ratings, by whether or not the patient had a fluoride procedure or prophylaxis procedure**

Patient's dental attitudes	Fluoride procedures		Prophylaxis procedures	
	Had at least one	Did not	Had at least one	Did not
Quality of recent dental care	<b>4.5 (0.7) *</b>	<b>4.2 (0.8)</b>	<b>4.4 (0.8) *</b>	<b>3.8 (0.8)</b>
Importance of dental visits	<b>4.5 (0.8) *</b>	<b>4.1 (1.0)</b>	<b>4.2 (1.0) *</b>	<b>3.8 (0.9)</b>
Eventuality of dental decline	<b>3.2 (0.5) *</b>	<b>3.0 (0.5)</b>	<b>3.1 (0.5) *</b>	<b>2.8 (0.6)</b>
Influence of dental care costs	2.9 (1.2)	2.7 (1.2)	<b>2.9 (1.2) *</b>	<b>2.1 (1.0)</b>
Cynicism toward dentists/dental care	2.9 (0.6)	2.9 (0.7)	2.9 (0.7)	2.8 (0.6)
Effectiveness of dental care	3.7 (0.4)	3.6 (0.5)	3.6 (0.4)	3.5 (0.5)

Analysis in this table is limited to persons who had at least one dental visit during 48 months of follow-up, whose dental chart(s) could be located, and who participated for a 48-month interview (n = 597). Differences in mean attitude values between persons who did or did not receive the procedure of interest were tested using a Wilcoxon rank sum test.

\* p < 0.05; means between persons who did or did not receive the procedure of interest were significantly different.

Quality: "quality of recent dental care" scale; 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

Importance: "importance of dental visits to prevent dental problems" scale; 1 = not at all important, 2 = slightly important, 3 = moderately important, 4 = very important, 5 = extremely important.

Eventuality: "eventuality of dental decline" scale; 1 = strongly agree, 2 = somewhat agree, 3 = somewhat disagree, 4 = strongly disagree.

Cost: "influence of dental care costs on past dental treatment" scale; 1 = strongly agree, 2 = somewhat agree, 3 = somewhat disagree, 4 = strongly disagree.

Cynicism: "cynicism toward dentists and dental care" scale; 1 = strongly agree, 2 = somewhat agree, 3 = somewhat disagree, 4 = strongly disagree for the first two items. The scale was inverted for the third item to make the sign positive for the factor loading.

Effectiveness: "effectiveness of dental care" scale; 1 = strongly disagree, 2 = somewhat disagree, 3 = somewhat agree, 4 = strongly agree.

Personal influence: "personal influence on dental decline"; 1 = strongly disagree, 2 = somewhat disagree, 3 = somewhat agree, 4 = strongly agree.

Among persons who had at least one procedure, the association between dental attitudes and number of procedures was statistically significant for number of prophylaxes, but not for number of fluoride procedures. Once limited to persons with at least one prophylaxis procedure, the number of prophylaxis

procedures was significantly associated with quality ( $r_{sp} = 0.24$ ;  $p < 0.001$ ); importance ( $r_{sp} = 0.29$ ;  $p < 0.001$ ); eventuality ( $r_{sp} = 0.19$ ;  $p < 0.005$ ); cost ( $r_{sp} = 0.32$ ;  $p < 0.001$ ); cynicism ( $r_{sp} = 0.11$ ;  $p < 0.001$ ); and effectiveness ( $r_{sp} = 0.15$ ;  $p < 0.005$ ).