

eTable 1. Periodontal measures among dentate adults 30 years or older, stratified according to age group—National Health and Nutrition Examination Survey 2009-2014 (N = 10,683).*

CLINICAL PERIODONTAL MEASURE	AGE GROUP, Y (STANDARD ERROR)			
	30-44 (n = 3,854)	45-64 (n = 4,529)	65 or Older (n = 2,300)	All (30 or Older) (N = 10,683)
Clinical Periodontal Measure				
Mean CAL, † millimeters	1.4 (0.03)	1.9 (0.04)	2.1 (0.05) [‡]	1.7 (0.03)
Prevalence of CAL ≥ 3 mm	81.3 (1.1)	92.1 (0.9)	96.5 (0.5)	88.8 (0.6)
Prevalence of CAL ≥ 5 mm	22.7 (1.4)	43.1 (1.4)	55.1 (1.9) [‡]	37.6 (1.2)
Percentage of sites with CAL ≥ 3 mm per person	11.1 (0.6)	22.1 (0.8)	27.8 (1.2) [‡]	19.0 (0.7)
Percentage of sites with CAL ≥ 5 mm per person	1.7 (0.2)	6.6 (0.4)	7.8 (0.6) [‡]	5.0 (0.3)
Percentage of teeth with CAL ≥ 3 mm per person	26.1 (1.0)	41.0 (1.2)	50.4 (1.2) [‡]	37.1 (1.0)
Percentage of teeth with CAL ≥ 5 mm per person	4.1 (0.3)	12.1 (0.6)	15.8 (0.9) [‡]	9.8 (0.5)
PPD[§]				
Mean PPD, mm	1.5 (0.02)	1.6 (0.02)	1.5 (0.03)	1.5 (0.02)
Prevalence of PPD ≥ 4 mm	33.3 (1.7)	39.9 (1.4)	40.6 (2.0) [‡]	37.5 (1.4)
Prevalence of PPD ≥ 6 mm	6.4 (0.5)	10.1 (0.8)	9.4 (1.0) [‡]	8.6 (0.6)
Percentage of sites with PPD ≥ 4 mm per person	2.8 (0.2)	4.0 (0.3)	2.7 (0.2)	3.3 (0.2)
Percentage of sites with PPD ≥ 6 mm per person	0.3 (0.03)	0.5 (0.05)	0.3 (0.05) [¶]	0.4 (0.04)
Percentage of teeth with PPD ≥ 4 mm per person	7.7 (0.5)	10.5 (0.5)	8.5 (0.6) [¶]	9.1 (0.4)
Percentage of teeth with PPD ≥ 6 mm per person	0.8 (0.1)	1.6 (0.2)	1.2 (0.2) [‡]	1.3 (0.1)

* Third molars were excluded. Prevalence differences were tested by using a χ^2 test, and mean differences were tested by using a *t* test. † CAL: Clinical attachment loss.

‡ Test for 2 age group difference, $P < .001$. § PPD: Periodontal probing depth. ¶ Test for 2 age group difference, $**P < .01$.

eTable 2. Prevalence of CAL* according to severity and overall mean among dentate adults 30 years or older according to selected characteristics, National Health and Nutrition Examination Survey 2009-2014 (N = 10,683).[†]

CHARACTERISTIC	CAL SEVERITY THRESHOLD, MILLIMETERS, % (SE [‡])					MEAN CAL, MM (SE)
	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	
Total	88.8 (0.6)	58.4 (1.4)	37.6 (1.2)	22.1 (0.9)	13.1 (0.6)	1.7 (0.03)
Age Group, y						
30-44	81.3 (1.1)	41.9 (1.7)	22.7 (1.4)	10.8 (0.7)	5.5 (0.3)	1.4 (0.03)
45-64	92.1 (0.9)	65.0 (1.5)	43.1 (1.4)	26.1 (1.2)	16.2 (0.8)	1.9 (0.04)
65 or older	96.5 (0.5)	77.0 (1.6)	55.1 (1.9)	35.7 (1.6)	21.1 (1.3)	2.1 (0.05)
Sex						
Male	92.4 (0.6)	65.9 (1.4)	45.3 (1.3)	28.0 (1.1)	17.4 (0.8)	1.9 (0.04)
Female	85.4 (0.9)	51.3 (1.6)	30.2 (1.4)	16.4 (0.9)	8.9 (0.6)	1.5 (0.03)
Race/Ethnicity						
Mexican American	95.5 (0.6)	69.2 (1.7)	49.3 (2.0)	30.9 (1.8)	18.6 (1.6)	2.0 (0.1)
Other Hispanic	91.3 (1.3)	61.6 (1.4)	40.7 (1.5)	22.9 (1.4)	13.8 (1.2)	1.8 (0.1)
Non-Hispanic white	87.4 (0.9)	54.7 (1.7)	33.7 (1.5)	18.7 (1.1)	10.5 (0.7)	1.6 (0.0)
Non-Hispanic black	90.6 (1.0)	68.6 (1.7)	48.8 (2.0)	33.5 (1.8)	22.4 (1.3)	2.1 (0.1)
Other race, including multiracial	90.8 (1.2)	64.2 (2.4)	42.4 (2.4)	26.1 (1.9)	16.4 (1.7)	1.8 (0.1)
Smoking Status						
Current smoker	94.1 (0.7)	74.0 (1.4)	54.7 (1.6)	37.8 (1.5)	24.1 (1.2)	2.4 (0.07)
Former smoker	90.1 (0.8)	63.4 (1.7)	41.1 (1.8)	25.6 (1.4)	14.7 (1.0)	1.8 (0.05)
Nonsmoker	86.6 (0.8)	51.4 (1.7)	30.7 (1.3)	15.6 (0.9)	8.9 (0.5)	1.5 (0.02)
Socioeconomic Level						
Income category A [§]						
< 100% FPL [¶]	93.4 (0.9)	72.3 (1.5)	51.5 (1.5)	34.1 (1.5)	22.9 (1.3)	2.3 (0.06)
100%-199% FPL	93.8 (0.7)	67.2 (1.8)	46.3 (1.6)	30.0 (1.5)	18.8 (1.1)	2.1 (0.06)
200%-399% FPL	88.3 (1.0)	60.4 (2.0)	39.8 (2.0)	22.8 (1.5)	12.6 (1.0)	1.7 (0.03)
> 400% FPL	85.0 (1.1)	47.8 (1.5)	26.8 (1.4)	13.2 (0.8)	7.1 (0.6)	1.4 (0.02)
Income category B [§]						
Low ≤ 130%	93.5 (0.8)	70.6 (1.7)	51.1 (1.6)	33.8 (1.5)	22.3 (1.1)	2.3 (0.05)
Middle 131%-350%	90.4 (0.7)	63.6 (1.7)	42.3 (1.7)	25.4 (1.3)	14.7 (0.8)	1.8 (0.04)
High ≥ 351%	85.3 (1.0)	48.9 (1.5)	27.7 (1.4)	14.0 (0.8)	7.5 (0.6)	1.4 (0.03)
Body Mass Index[#]						
< 25	86.4 (1.2)	55.3 (1.7)	37.4 (1.6)	22.6 (1.1)	13.1 (0.8)	1.8 (0.04)
25-30	89.9 (0.8)	58.6 (1.5)	37.6 (1.3)	21.2 (1.1)	13.3 (0.9)	1.7 (0.03)
> 30	89.5 (0.8)	60.4 (1.7)	37.6 (1.6)	22.3 (1.1)	12.8 (0.7)	1.7 (0.03)
Diabetes Mellitus						
Yes	94.7 (1.0)	73.6 (2.1)	53.9 (2.1)	36.1 (1.9)	21.2 (1.5)	2.1 (0.06)
No	88.2 (0.7)	56.8 (1.4)	35.9 (1.2)	20.6 (0.9)	12.2 (0.6)	1.7 (0.03)
Use of Dental Floss in Past 7 Days						
Yes	88.2 (0.7)	55.2 (1.4)	34.1 (1.3)	18.6 (0.8)	10.4 (0.5)	1.6 (0.02)
No	90.5 (0.8)	66.8 (1.7)	46.4 (1.5)	30.7 (1.5)	19.7 (1.3)	2.1 (0.05)

* CAL: Clinical attachment loss. † Third molars were excluded. A Wald χ^2 test was used for testing significance of proportion difference in each group. ‡ SE: Standard error. § Income values were missing in 895 respondents. ¶ FPL: Federal poverty level. # Body mass index values in kilograms per square meter were missing in 64 respondents. ** Based on data from National Health and Nutrition Examination Survey 2011-2014 only.

eTable 2. Continued

CHARACTERISTIC	CAL SEVERITY THRESHOLD, MILLIMETERS, % (SE [†])					MEAN CAL, MM (SE)
	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	
Last Dental Visit, mo**						
≤ 6	88.3 (1.1)	48.9 (2.1)	26.5 (1.6)	14.6 (1.0)	7.6 (0.7)	1.5 (0.03)
> 6-12	91.0 (1.4)	55.4 (2.2)	33.7 (2.2)	20.6 (1.9)	11.0 (1.4)	1.8 (0.05)
> 12 or never	88.9 (0.8)	65.0 (1.2)	45.2 (1.2)	27.0 (1.0)	16.9 (0.7)	1.9 (0.04)
No. of Teeth Missing						
0	81.1 (1.1)	38.5 (1.7)	19.3 (1.2)	7.8 (0.8)	3.6 (0.5)	1.3 (0.02)
1-5	91.2 (0.8)	61.5 (1.5)	37.4 (1.3)	19.9 (0.9)	10.0 (0.7)	1.6 (0.02)
6-27	96.1 (0.5)	82.8 (1.2)	65.2 (1.4)	47.3 (1.5)	32.7 (1.2)	2.7 (0.07)

eTable 3. Prevalence of PPD* according to severity and overall mean among dentate adults 30 years or older according to selected characteristics, National Health and Nutrition Examination Survey 2009-2014 (N = 10,683).[†]

CHARACTERISTIC	PPD SEVERITY THRESHOLD, MILLIMETERS, % (SE [‡])					MEAN PPD MM (SE)
	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	
Total	77.5 (1.3)	37.5 (1.4)	17.5 (0.9)	8.6 (0.6)	3.5 (0.3)	1.5 (0.02)
Age, y						
30-44	74.3 (1.5)	33.3 (1.7)	14.3 (1.0)	6.4 (0.5)	2.5 (0.4)	1.5 (0.02)
45-64	79.4 (1.4)	39.9 (1.4)	19.9 (1.1)	10.1 (0.8)	4.2 (0.4)	1.6 (0.02)
65 or older	79.5 (1.5)	40.6 (2.0)	18.3 (1.4)	9.4 (1.0)	4.1 (0.6)	1.5 (0.03)
Sex						
Male	83.8 (1.4)	45.2 (1.6)	23.3 (1.2)	12.1 (0.8)	5.3 (0.5)	1.7 (0.03)
Female	71.5 (1.4)	30.2 (1.4)	12.1 (0.8)	5.3 (0.5)	1.9 (0.3)	1.4 (0.02)
Race/Ethnicity						
Mexican American	90.6 (0.9)	57.4 (2.1)	33.0 (2.1)	18.2 (1.8)	8.9 (1.4)	1.9 (0.04)
Other Hispanic	81.0 (1.7)	44.7 (1.7)	20.0 (1.4)	9.2 (0.8)	3.2 (0.6)	1.5 (0.03)
Non-Hispanic white	74.1 (1.6)	31.9 (1.6)	13.6 (1.1)	6.3 (0.6)	2.4 (0.3)	1.4 (0.02)
Non-Hispanic black	85.9 (1.1)	53.5 (1.7)	29.4 (1.7)	15.7 (1.3)	7.4 (0.7)	1.8 (0.04)
Other race, including multiracial	80.4 (1.8)	39.4 (2.1)	18.7 (1.5)	8.6 (1.2)	3.3 (0.5)	1.6 (0.04)
Smoking Status						
Current smoker	86.1 (1.6)	56.4 (2.0)	30.8 (1.8)	15.4 (1.5)	5.7 (0.7)	1.9 (0.04)
Former smoker	78.5 (1.4)	38.5 (1.7)	16.9 (1.1)	8.9 (0.8)	4.2 (0.5)	1.5 (0.02)
Nonsmoker	74.4 (1.4)	31.3 (1.5)	13.8 (0.9)	6.4 (0.6)	2.6 (0.3)	1.4 (0.02)
Socioeconomic Level						
Income category A [§]						
< 100% FPL [¶]	86.0 (1.3)	54.5 (2.0)	28.5 (1.5)	13.5 (1.1)	5.4 (0.8)	1.9 (0.03)
100%-199% FPL	82.6 (1.5)	47.1 (1.7)	22.6 (1.5)	11.6 (1.1)	5.2 (0.6)	1.7 (0.04)
200%-399% FPL	78.6 (1.4)	38.3 (1.8)	18.0 (1.4)	9.3 (0.9)	3.7 (0.4)	1.5 (0.02)
> 400% FPL	70.8 (1.8)	26.0 (1.5)	10.5 (1.1)	4.7 (0.6)	2.0 (0.3)	1.3 (0.02)
Income category B [§]						
Low ≤ 130%	84.9 (1.3)	52.1 (1.9)	27.3 (1.5)	13.2 (1.0)	5.3 (0.7)	1.9 (0.03)
Middle 131%-350%	80.2 (1.2)	41.7 (1.6)	19.2 (1.2)	9.9 (0.8)	4.4 (0.4)	1.6 (0.02)
High ≥ 351%	71.7 (1.7)	27.4 (1.5)	11.4 (1.1)	5.3 (0.6)	2.1 (0.3)	1.4 (0.02)
Body Mass Index[#]						
< 25	72.0 (1.5)	33.1 (1.6)	15.7 (1.1)	7.5 (0.8)	3.1 (0.4)	1.5 (0.03)
25-30	78.0 (1.5)	36.9 (1.6)	17.9 (1.1)	8.9 (0.8)	3.5 (0.4)	1.5 (0.02)
> 30	80.8 (1.5)	41.2 (1.6)	18.6 (1.1)	9.2 (0.7)	3.9 (0.4)	1.6 (0.02)
Diabetes Mellitus						
Yes	84.1 (1.4)	45.7 (2.1)	23.3 (1.7)	11.3 (1.3)	5.6 (0.9)	1.7 (0.03)
No	76.8 (1.3)	36.7 (1.4)	16.9 (0.9)	8.3 (0.6)	3.3 (0.3)	1.5 (0.02)
Use of Dental Floss in Past 7 Days						
Yes	75.8 (1.4)	33.5 (1.4)	14.6 (0.9)	7.3 (0.5)	2.9 (0.3)	1.4 (0.02)
No	82.1 (1.2)	47.9 (1.7)	25.0 (1.3)	11.8 (1.1)	5.1 (0.6)	1.8 (0.03)

* PPD: Periodontal probing depth. † Third molars were excluded. A Wald χ^2 test was used for testing significance of proportion difference in each group. ‡ SE: Standard error. § Income values were missing in 895 respondents. ¶ FPL: Federal poverty level. # Body mass index values in kilograms per square meter were missing in 64 respondents. ** Based on data from National Health and Nutrition Examination Survey 2011-2014 only.

eTable 3. Continued

CHARACTERISTIC	PPD SEVERITY THRESHOLD, MILLIMETERS, % (SE [†])					MEAN PPD MM (SE)
	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7	
No. of Teeth Missing						
0	72.2 (1.6)	27.3 (1.8)	10.7 (1.0)	4.5 (0.6)	1.9 (0.4)	1.4 (0.02)
1-5	79.6 (1.4)	39.2 (1.6)	18.5 (1.2)	9.4 (0.9)	3.7 (0.5)	1.5 (0.02)
6-27	81.6 (1.4)	49.8 (1.6)	26.0 (1.4)	13.2 (1.2)	5.8 (0.7)	1.9 (0.04)
Last Dental Visit, mo^{**}						
< 6	72.7 (2.1)	26.8 (2.0)	11.1 (1.1)	4.7 (0.7)	1.8 (0.3)	1.3 (0.02)
6-12	80.0 (2.5)	34.5 (2.4)	13.9 (1.6)	7.1 (1.0)	3.1 (0.7)	1.5 (0.03)
> 12 or never	80.1 (1.2)	44.8 (1.3)	22.3 (1.2)	11.3 (0.9)	4.7 (0.5)	1.7 (0.02)

eTable 4. Site- and tooth-specific prevalence of CAL* and PPD† among dentate adults 30 years or older according to severity and extent, National Health and Nutrition Examination Survey 2009-2014 (N = 10,683).‡

EXTENT THRESHOLD	SEVERITY THRESHOLD, MILLIMETERS, % (STANDARD ERROR)				
	≥ 3	≥ 4	≥ 5	≥ 6	≥ 7
Site Specific					
CAL sites					
≥ 5%	58.3 (1.36)	30.4 (1.25)	16.1 (0.72)	8.7 (0.48)	4.8 (0.31)
≥ 10%	43.4 (1.41)	21.0 (0.96)	10.9 (0.56)	5.9 (0.37)	3.3 (0.25)
≥ 30%	20.6 (0.91)	9.4 (0.54)	4.7 (0.32)	2.6 (0.22)	1.4 (0.15)
Mean percentage of sites	19.0 [§] (0.67)	9.4 (0.43)	5.0 [§] (0.26)	2.8 (0.16)	1.4 (0.09)
PPD sites					
≥ 5%	42.4 (1.78)	15.0 (0.79)	5.3 (0.44)	1.9 (0.23)	0.5 (0.08)
≥ 10%	28.9 (1.49)	9.1 (0.53)	2.7 (0.26)	1.0 (0.13)	0.2 (0.05)
≥ 30%	11.3 (0.78)	2.7 (0.26)	0.7 (0.09)	0.2 (0.03)	DSU [¶] DSU
Mean percentage of sites	10.9 (0.55)	3.3 [§] (0.18)	1.1 (0.08)	0.4 [§] (0.04)	0.1 (0.01)
Tooth Specific					
CAL sites					
≥ 5%	80.8 (0.84)	47.1 (1.50)	29.1 (1.07)	16.4 (0.74)	9.7 (0.47)
≥ 10%	74.0 (1.12)	40.0 (1.37)	22.8 (0.90)	12.1 (0.60)	7.0 (0.44)
≥ 30%	47.3 (1.42)	22.1 (0.99)	11.1 (0.62)	5.8 (0.35)	3.2 (0.23)
Mean percentage of teeth	37.1 [§] (0.95)	18.2 (0.71)	9.8 [§] (0.45)	5.4 (0.29)	2.9 (0.18)
PPD sites					
≥ 5%	68.5 (1.49)	29.3 (1.19)	12.7 (0.71)	5.8 (0.47)	2.1 (0.20)
≥ 10%	59.3 (1.70)	22.6 (0.94)	9.0 (0.58)	3.8 (0.33)	1.2 (0.14)
≥ 30%	32.9 (1.66)	10.5 (0.59)	3.3 (0.30)	1.2 (0.15)	0.2 (0.04)
Mean percentage of teeth	26.5 (1.07)	9.1 [§] (0.42)	3.2 (0.22)	1.3 [§] (0.11)	0.4 (0.04)

* CAL: Clinical attachment loss. † PPD: Periodontal probing depth. ‡ Third molars were excluded. A Wald χ^2 test was used for testing significance of proportion difference in each group. § Values also included in Table 3. ¶ DSU: Data suppressed because of a relative standard error greater than 0.3.