

periodontal code :523.1, 523.4
 data collection in 1997-2004
 3 clinical visits

variation	Total		Chronic Periodontitis					
	n	%	No		Yes		p	
age								
40-49	6808	42.06	4539	42.06	2269	42.05	>0.999	
50-59	4610	28.48	3073	28.47	1537	28.48		
60-69	2939	18.16	1959	18.15	980	18.16		
70+	1831	11.31	1221	11.31	610	11.3		
Total	16188	100	10792	100	5396	100		
gender								
F	7461	46.09	4974	46.09	2487	46.09	>0.999	
M	8727	53.91	5818	53.91	2909	53.91		
Hypertension								
No	7461	46.09	4974	46.09	2487	46.09	0.1834	
Yes	8727	53.91	5818	53.91	2909	53.91		
Hyperlipidemia								
No	13015	80.4	8817	81.7	4198	77.8	<0.0001	
Yes	3173	19.6	1975	18.3	1198	22.2		
Chronic kidney disease								
No	11256	69.53	7529	69.76	3727	69.07	0.3651	
Yes	4932	30.47	3263	30.24	1669	30.93		
Depression								
No	13829	85.43	9307	86.24	4522	83.8	<0.0001	
Yes	2359	14.57	1485	13.76	874	16.2		
Stroke								
No	13434	82.99	8956	82.99	4478	82.99	>0.999	
Yes	2754	17.01	1836	17.01	918	17.01		
Traumatic brain injury								
No	13517	83.5	8972	83.14	4545	84.23	0.0773	
Yes	2671	16.5	1820	16.86	851	15.77		
CCI								
0	1719	10.62	1178	10.92	541	10.03	0.0010	
1	2455	15.17	1708	15.83	747	13.84		
2	2583	15.96	1711	15.85	872	16.16		
>=3	9431	58.26	6195	57.4	3236	59.97		
Urbanization level								
level 1	10479	64.73	3817	70.79	6662	61.71	<0.0001	
level 2	4337	26.79	1261	23.39	3076	28.49		
level 3	1372	8.48	314	5.82	1058	9.8		
Parkinson's Disease								
No	15737	97.21	10517	97.45	5220	96.74	0.0093	
Yes	451	2.79	275	2.55	176	3.26		

incidence

variation	Chronic Periodontitis										sig	Adjusted HR	95%CI-LL	95%CI-UL	p	
	No			Yes				95%CI-LL	95%CI-UL							
age																
40-49	18	5611.4	32.1	5	2751.4	18.2	0.57	0.32	1.01	0.716	0.264	1.946	0.5129			
50-59	48	3710.0	129.4	26	1899.9	143.7	1.11	0.88	1.41	1.414	0.867	2.306	0.1657			
60-69	107	2388.4	448.0	64	1157.5	552.0	1.23	1.09	1.39	1.204	0.878	1.651	0.2483			
70+	102	1443.7	706.5	81	686.0	1108.8	1.67	1.52	1.83	1.615	1.198	2.177	0.0017			
Total	275	13153.4	209.1	176	640.48	274.8	1.31	1.09	1.57	1.364	1.125	1.654	0.0016			
gender																
F	119	6074.8	195.9	62	2954.7	209.8	1.07	0.88	1.30	1.145	0.839	1.564	0.3932			
M	156	7078.6	220.4	114	3450.1	330.4	1.50	1.26	1.78	1.557	1.216	1.993	0.0004			
Hypertension																
No	24	4624.2	51.9	17	2351.3	72.3	1.39	0.97	1.99	1.563	0.815	2.997	0.1785			
Yes	251	8529.2	294.3	159	4053.4	392.3	1.33	1.14	1.55	1.365	1.115	1.671	0.0026			
Hyperlipidemia																
No	214	10721.9	199.6	133	4969.3	267.6	1.34	1.12	1.61	1.471	1.180	1.833	0.0006			
Yes	61	2431.5	280.9	43	1435.4	299.6	1.19	1.01	1.41	1.097	0.739	1.629	0.6457			
Chronic kidney disease																
No	141	9148.6	154.1	86	4419.1	194.6	1.26	1.02	1.56	1.363	1.037	1.793	0.0266			
Yes	134	4004.9	334.6	90	1985.7	453.2	1.35	1.17	1.55	1.370	1.044	1.797	0.0232			
Depression																
No	184	11341.7	162.2	113	5383.2	209.9	1.29	1.05	1.58	1.408	1.108	1.788	0.0050			
Yes	91	1811.7	502.3	63	1021.6	616.7	1.23	1.09	1.38	1.313	0.946	1.822	0.1038			
Stroke																
No	123	10909.4	112.7	70	5331.0	131.3	1.16	0.90	1.49	1.209	0.896	1.633	0.2144			
Yes	152	2244.0	677.4	106	1073.7	987.2	1.46	1.32	1.61	1.479	1.149	1.904	0.0024			
Traumatic brain injury																
No	186	10925.9	170.2	112	5411.1	207.0	1.22	1.00	1.49	1.213	0.956	1.539	0.1121			
Yes	89	2227.6	390.5	64	993.6	644.1	1.61	1.42	1.82	1.490	1.215	2.350	0.0018			
Urbanization level																
level 1	144	8142.6	176.8	124	4560.6	271.9	1.54	1.27	1.86	1.467	1.151	1.871	0.0020			
level 2	84	3719.7	225.8	44	1474.7	298.4	1.32	1.11	1.57	1.426	0.986	2.062	0.0593			
level 3	47	1291.1	364.0	8	369.5	216.5	0.59	0.50	0.70	0.581	0.272	1.241	0.1606			
CCI																
0	2	1413.2	14.2	1	634.6	15.8	1.11	0.54	2.27	1.495	0.025	88.223	0.8468			
1	8	2039.9	39.2	6	876.7	68.4	1.75	1.18	2.59	2.139	0.711	6.439	0.1762			
2	17	2069.8	82.1	9	1034.3	87.0	1.06	0.78	1.43	1.463	0.636	3.365	0.3706			
>=3	248	7630.5	325.0	160	3859.1	414.6	1.28	1.11	1.48	1.328	1.084	1.626	0.0061			

ID : Incidence Density, PYs x100,000

IDR=ID1/ID0

sig : significance

Uni-Cox-regression

Parameter	DF	Estimate	StdErr	ChiSq	ProbChiSq	HazardRat	HRLowerC	HRUpperC
group	1	0.35232	0.10185	11.9668	0.0005	1.422	1.165	1.737
Hypertension	1	0.94235	0.20204	21.7541	<.0001	2.566	1.727	3.813
Hyperlipidemia	1	0.94235	0.20204	21.7541	<.0001	2.566	1.727	3.813
Chronic kidney disease	1	0.30596	0.12507	5.9849	0.0144	1.358	1.063	1.735
Depression	1	0.97595	0.14565	44.8995	<.0001	2.654	1.995	3.53
Stroke	1	1.09213	0.13462	65.8142	<.0001	2.981	2.289	3.881
Traumatic brain injury	1	0.71064	0.13958	25.921	<.0001	2.035	1.548	2.676
Urbanization level 2 to 1	1	0.25279	0.14059	3.2328	0.0722	1.288	0.977	1.696
Urbanization level 3 to 1	1	0.17116	0.19872	0.7418	0.3891	1.187	0.804	1.752
ccl_1 to 0	1	1.32915	0.68917	3.7195	0.0538	3.778	0.979	14.584
ccl_2 to 0	1	1.43562	0.65872	4.7499	0.0293	4.202	1.156	15.282
ccl_3 to 0	1	2.24838	0.61804	13.2344	0.0003	9.472	2.821	31.808

Match Cox-regression

multi-Cox-regression

parameter	DF	estimate	StdErr	ChiSq	Pr > ChiSq	HazardRat	HRUpper	HRLower	CL
group	1	0.35803	0.11558	9.5951	0.0020	1.431	1.141	1.794	
Hypertension	1	0.55712	0.22912	5.9125	0.0150	1.746	1.114	2.735	
Hyperlipidemia	1	0.01819	0.14754	0.0152	0.9019	1.018	0.763	1.36	
Chronic kidney disease	1	-0.00757	0.14567	0.0027	0.9586	0.992	0.746	1.32	
Depression	1	0.74953	0.15866	22.317	<.0001	2.116	1.55	2.888	
Stroke	1	0.81386	0.14653	30.848	<.0001	2.257	1.693	3.007	
Traumatic brain injury	1	0.49774	0.15378	10.4762	0.0012	1.645	1.217	2.224	
Urbanization level 2 to 1	1	0.20674	0.1564	1.7473	0.1862	1.230	0.905	1.671	
Urbanization level 3 to 1	1	0.12446	0.23613	0.2778	0.5981	1.133	0.713	1.799	
ccl_1 to 0	1	1.2353	0.7125	2.9971	0.0834	3.433	0.85	13.873	
ccl_2 to 0	1	1.03993	0.67562	2.3692	0.1238	2.829	0.753	10.635	
ccl_3 to 0	1	1.43665	0.65231	4.8505	0.0276	4.207	1.171	15.107	

Match Cox-regression

