Table 1 The study's methodological aspects

		Regulator	y need					
	National standards and targets	Variables	Frequency of use: # of times the intervention should be received					
a	ds an	Resol	2 1/2					
	arc	Topical gel fluoride	5 to 19 years old	2 times a year				
	P D	Application of sealants on fissures	3 to 15 years old	2 times a year				
	sta	Bacterial plaque control and removal	2 to 19 years old	2 times a year				
	<u></u>		Over the age of 20	1 time a year				
o o	<u>.</u>		ement 029 of 2011	2.11				
D ₀	lat	Topical fluoride varnish	1 to 17 years old	2 times a year				
Expected coverage			ution 4505 of 2012					
	All screening activities at 100%							
	Expressed need							
	Variables	Prevalence - Ec / Nt	Prevalence - Ec / Nt * Affiliated population					
		Ec: # of existing cases at any given time	services to					
		regarding a diagnosis		affiliates				
		Nt: City population						
	Sources Prevalence of ENSAB IV, RIPS							
	Expected coverage was estimated from the prevalence of caries and periodontitis, diagnoses with							
	representative prevalence for the city.							
	At the city level							
	Variables	# of patients treated, procedures and diagnoses.						
9	Sources	RIPS, Ministry of Health and Social Protection (SISPRO).						
Actual coverage		Semi-structured interview with six HMOs: Direct consultation with OH referents on: care model, service network, induced demand, culture of use of services, epidemiological profile, opportunity of care, considerations on inclusions in the PBS, assessment of coverage goals						
Ac		achieved.						
	Variables	# of patients treated by income level, age group, procedures and diagnoses.						
	Sources	Records of access to OH services provided by three participating HMOs.						
Gap analysis								
		Gap = Expected Coverage – Act	ual Coverage					

Source: by the authors

Table 2. Medellin: Expected coverage in specific OH protection and early detection actions, 2015

Activities	Target population	Number of users	Frequency of use a year	# Activities	
Topical fluoride application	(5-19 years)	521,066	2	1,042,132	
Fluoride varnish application	(0-5 years)	147,701	2	295,402	
Sealants application	(3-15 years)	411,799	2	823,598	
Bacterial plaque control	(2-19 years old)	597,732	2	1,195,464	
Bacterial plaque control	(20 years and older)	1,873,617	1	1,873,617	
Supragingival curettage	(12 years and older)	2,174,620	2	4,349,240	
Total specific protection and early detection activities					

Source: Resolution 412 of 2000 (modified by Resolution 4505/12) and SISPRO

Table 3. Medellin: Expected coverage for caries and periodontitis care, 2015 (Population to be treated according to diagnosis and dentition type)

Description of prevalence	Affiliated population	Prevalence (%)	Population to be served	
Caries	ророшоси	(1-7		
Prevalence of caries in primary dentition*	128,524	24.28	31,206	
Prevalence of caries in mixed dentition**	253,539	36.60	92,795	
Prevalence of caries in permanent dentition***	2,115,432	28.94	612,206	
Periodontitis				
Periodontitis from 18 to 79 years of age	1,898,388	40.53	769,417	
Total people			1.505.624	

Source: ENSAB IV prevalence: * Temporal dentition: Reference population: 1, 3 and 5 years, ** Mixed dentition: Reference population: 5 and 12 years, and *** Permanent teething: Reference population: 12, 15, 18, 20 to 79 years. Periodontitis: includes mild, moderate, and severe classifications of the disease

Table 4. Medellin: Estimation of the OH procedures needed to address the prevalence of caries and periodontitis, 2015

	Caries					Periodontitis		
Services and procedures	Temporary dentition* Mixed dentition***		Permanent dentition***		18 to 79 years old			
Co. Mees and procedures	Weighter*	Total activities	Weighter*	Total activities	Weighter*	Total activities	Weighter*	Total activities
First-time consultation for general dentistry	1.00	31,206	1.00	92,795	1.00	612,206	1.00	769,417
Dental sealing by surface, with amalgamation	0.19	5,773	0.20	18,559	0.21	129,788	0.07	53,859
Supragingival curettage	-	-	0.02	1,392	1.00	612,206	1.00	769,417
Dental plaque control ncoc	1.00	31,206	1.00	92,795	1.00	612,206	1.00	769,417
Dental sealing by surface, with photocuring resin	0.11	3,464	0.06	5,289	0.12	74,689	0.04	30,777
Individual health education, by dentistry	1.00	31,206	1.00	92,795	1.00	612,206	1.00	769,417
Topical gel fluoride	1.00	31,206	0.22	20,322	0.04	22,039	0.02	15,388
Millimeter periapical intraoral x-rays	0.02	530	0.03	3,062	0.07	41,018	0.02	15,388
Extraction of permanent multiradicular teeth	-	-	-	-	0.03	18,978	0.02	15,388
Unirradicular surgical extraction	-	-	-	-	0.02	12,244	0.02	15,388
Incisal angle reconstruction, with photocuring resin	0.02	499	-	-	0.02	9,795	0.01	7,694
Photocuring sealant application	1.00	31,206	1.00	92,795	-	-	-	-
Application of preventive resin	0.01	437	0.03	2,505	-	-	0.01	7,694
Topical varnish fluoride	1.00	31,206	-	-	-	-	-	-
Extraction of temporary teeth sod	-	-	0.02	1,670	-	-	-	-
Other services	0.05	1,498	0.07	6,496	0.07	43,467	0.10	76,942
Total		199,435		430,477		2,800,842		3,316,186

Source: Ministry of Health and Social Protection, Resolution 412 of 2000

*Weighter: Corresponds to the probability of performing each service (caries by type of teething and periodontitis)

**Activity frequency: Corresponds to the average of the activity

^{*} Temporal dentition: Reference population: 1, 3 and 5 years, ** Mixed dentition: Reference population: 5 and 12 years, and *** Permanent dentition: Reference population: 12, 15, 18, 20 to 79 years.