Supplementary Table 1. Cough-related characteristics in chronic cough and subacute cough patients

		Chronic cough patients (N=568)			ough patients =378)
		Mean	SD	Mean	SD
Years experienced chronic cough †		3.39	3.28	N.A	N.A
		Cou	nt (%)	Cou	nt (%)
Currently smoke cigarettes	No	391	(68.8%)	249	(65.9%)
Chronic cough survey)	Yes	177	(31.2%)	129	(34.1%)
Smoked cigarettes in last 12 months	No	378	(66.5%)	241	(63.8%)
Chronic cough survey)	Yes	190	(33.5%)	137	(36.2%)
Cough more severe at a certain time of year	No	139	(66.5%)	45	(22.1%)
ough more severe at a certain time of year	Yes	70	(33.5%)	25	(12.3%)
	Spring (March, April, May)	17	(24.3%)	63	(30.9%)
N	Summer (June, July, August)	9	(12.9%)	71	(34.8%)
Cough most severe in:	Fall/Autumn (September, October, November)	17	(24.3%)	17	(4.5%)
	Winter (December, January, February)	27	(38.6%)	66	(17.5%)
	Yes	22	(7.0%)	45	(22.1%)
	No	74	(23.6%)	25	(12.3%)
Cough improves when stopped smoking	Don't know	86	(27.5%)	63	(30.9%)
	I did not stop smoking	131	(41.9%)	71	(34.8%)
	Never	41	(7.3%)	17	(4.5%)
	Rarely	105	(18.6%)	66	(17.5%)
How often do you cough up phlegm when you cough	Sometimes	211	(37.3%)	152	(40.3%)
ou cough	Often	127	(22.5%)	108	(28.6%)
	Always	81	(14.3%)	34	(9.0%)
Discussion on diet/weight loss to improve	No	11	(57.9%)	2	(40.0%)
EERD	Yes	8	(42.1%)	3	(60.0%)
	Yes	138	(24.5%)	155	(41.3%)
Cough start/exacerbate with cold or flu-like	No	312	(55.3%)	148	(39.5%)
iniess	Don't know	114	(20.2%)	72	(19.2%)

[†] Sample size: CC (N=341)

Supplementary Table 2. Point prevalence and 12-month period prevalence estimate for chronic and subacute cough *among non-smokers*

			Point prevalence (before exclusion)		_	revalence xclusion †)	12-month period prevalence		
		Total	Count	Prevalence	Count	Prevalence	Count	Prevalence	
	All respondents	19,440	478	2.46%	401	2.06%	762	3.92%	
	<60 male	5,308	120	2.26%	103	1.94%	189	3.56%	
Chronic cough	<60 female	6,192	109	1.76%	93	1.50%	232	3.75%	
	≥60 male	4,366	147	3.37%	118	2.70%	192	4.40%	
	≥60 female	3,574	102	2.85%	87	2.43%	149	4.17%	
	All respondents	19,440	355	1.82%	281	1.45%	1,084	5.58%	
	<60 male	5,308	119	2.24%	81	1.53%	324	6.10%	
Subacute cough	<60 female	6,192	116	1.87%	99	1.60%	416	6.72%	
	≥60 male	4,366	77	1.76%	63	1.44%	179	4.10%	
	≥60 female	3,574	43	1.20%	38	1.06%	165	4.62%	

[†] Respondents were excluded from the analysis if they met any of the following criteria: i) self-reported in NHWS or the chronic cough survey of any form of lung cancer, interstitial lung disease, such as idiopathic pulmonary fibrosis, or currently taking an ACE inhibitor; or ii) self-reported experienced chronic cough in the NHWS but did not participate in the chronic cough survey.

Supplementary Table 3. Demographics, health characteristics and cough severity among chronic cough patients not smoking vs. smoking.

		Total CC (N=568)		Not smoking CC (N=391)		Smoking CC (N=177)		p-value
		Mean	SD	Mean	SD	Mean	SD	
Age		56.01	15.15	57.07	15.63	53.66	13.79	0.013
Charlson Comorbidi	ty index	0.33	0.67	0.31	0.62	0.35	0.75	0.554
Adapted Charlson Co	omorbidity index	0.23	0.55	0.21	0.51	0.28	0.62	0.161
		Count	t (%)	Cou	ınt (%)	Coun	nt (%)	
C1	Male	347	(61.10%)	212	(54.20%)	135	(76.30%)	< .001
Gender	Female	221	(38.90%)	179	(45.80%)	42	(23.70%)	
Currently	No	252	(44.40%)	198	(50.60%)	54	(30.50%)	< .001
employed	Yes	316	(55.60%)	193	(49.40%)	123	(69.50%)	
	Underweight (BMI<18.5)	54	(9.50%)	41	(10.50%)	13	(7.30%)	0.043
	Normal weight (18.5≤BMI<23)	373	(65.70%)	256	(65.50%)	117	(66.10%)	
BMI category	Overweight (23≤BMI<25)	94	(16.50%)	56	(14.30%)	38	(21.50%)	
	Obese (BMI≥25)	31	(5.50%)	27	(6.90%)	4	(2.30%)	
	Decline to answer	16	(2.80%)	11	(2.80%)	5	(2.80%)	
rr	Abstain	191	(33.60%)	147	(37.60%)	44	(24.90%)	0.003
Use of alcohol	Currently consume alcohol	377	(66.40%)	244	(62.40%)	133	(75.10%)	
Vigorous exercise	No	305	(53.70%)	210	(53.70%)	95	(53.70%)	0.994
n past 30 days	Yes	263	(46.30%)	181	(46.30%)	82	(46.30%)	
Ever spoken with a	No	313	(55.10%)	185	(47.30%)	128	(72.30%)	< .001
physician for your cough †	Yes	251	(44.20%)	204	(52.20%)	47	(26.60%)	
Severity VAS (0-100) ‡		Mean	SD	Mean	SD	Mean	SD	
Severity of cough ov	er the past 2 weeks	40.54	21.6	38.72	21.46	44.60	21.43	0.003
Severity of cough on weeks	the worst day during the past 2	49.88	23.93	48.19	24.05	53.63	23.29	0.012

[†] Sample size: Total CC(N=564), Not smoking (N=389), Smoking (N=175) ‡ Sample size: Total CC (N=565), Not smoking (N=389), Smoking (N=176)

Supplementary Table 4. Demographics, health characteristics and cough severity between chronic cough patients whose underlying disease of chronic cough were unknown and all other chronic cough patients.

		Total CC (N=568)		All other CC patients (N=514)		CC patients without known underlying disease (N=54)		p-value
		Mean	SD	Mean	SD	Mean	SD	
Age		56.01	15.15	55.63	15.29	59.57	13.40	0.069
Charlson Comorbidity index		0.33	0.67	0.32	0.66	0.41	0.69	0.343
Adapted Charlson Co	omorbidity index	0.23	0.55	0.22	0.53	0.35	0.68	0.083
		Coun	t (%)	Coun	t (%)	Coun	t (%)	
Candan	Male	347	(61.1%)	317 (61.7%)	30 ((55.6%)	0.380
Gender	Female	221	(38.9%)	197 (38.3%)	24 ((44.4%)	
Currently	No	252	(44.4%)	226 (44.0%)	26 ((48.1%)	0.557
employed	Yes	316	(55.6%)	288 (56.0%)	28 ((51.9%)	
	Underweight (BMI<18.5)	54	(9.5%)	47 (9.1%)	7 ((13.0%)	0.193
	Normal weight (18.5≤BMI<23)	373	(65.7%)	333 (64.8%)	40 ((74.1%)	
BMI category	Overweight (23\(\frac{1}{2}\)BMI<25)	94	(16.5%)	90 (17.5%)	4 ((7.4%)	
	<i>Obese (BMI≥25)</i>	31	(5.5%)	28 (5.4%)	3 ((5.6%)	
	Decline to answer	16	(2.8%)	16 (3.1%)	0 ((0.0%)	
Currently smoke	No	391	(68.8%)	346 (67.3%)	45 ((83.3%)	0.016
cigarettes (cough questionnaire)	Yes	177	(31.2%)	168 (32.7%)	9 ((16.7%)	
	Abstain	191	(33.6%)	169 (32.9%)	22 ((40.7%)	0.245
Use of alcohol	Currently consume alcohol	377	(66.4%)	345 (67.1%)	32 ((59.3%)	
Vigorous exercise	No	305	(53.7%)	268 (52.1%)	37 ((68.5%)	0.022
in past 30 days	Yes	263	(46.3%)	246 (47.9%)	17 ((31.5%)	
Ever spoken with a	No	313	(55.1%)	313 (60.9%)	0 ((0.0%)	< .001
physician for your cough †	Yes	251 (44.2%)		197 (38.3%)	54 ((100.0%)	
Severity VAS (0-10	0) ‡	Mean	SD	Mean	SD	Mean	SD	
Severity of cough ov	er the past 2 weeks	40.54	21.6	40.99	21.68	36.30	20.50	0.129
Severity of cough on weeks	the worst day during the past 2	49.88	23.93	50.33	23.88	45.65	24.17	0.172

[†] Sample size: Total CC(N=564), All other CC patients (N=510), CC patients without known underlying disease (N=54)

[‡] Sample size: Total CC(N=567), All other CC patients (N=513), CC patients without known underlying disease (N=54)

Supplementary Table 5. Self-reported medication usage and satisfaction between chronic cough patients whose underlying disease were unknown and all other chronic cough patient

	Total CC (N=564)	All other C (N=5	•	CC patien known under (N=	p-value		
	Count (%)	Count	Count (%)		Count (%)		
None	289 (50.9%)	268	(52.1%)	21	(38.9%)	0.056	
Anti-tussives	69 (12.1%)	57	(11.1%)	12	(22.2%)	0.018	
Anti-epileptics	1 (0.2%)	1	(0.2%)	0	(0.0%)	0.745	
Proton pump inhibitors	10 (1.8%)	10	(1.9%)	0	(0.0%)	0.299	
H2 blockers	10 (1.8%)	9	(1.8%)	1	(1.9%)	0.963	
Nasal Steroids	21 (3.7%)	20	(3.9%)	1	(1.9%)	0.445	
Inhaled steroids	57 (10.0%)	50	(9.7%)	7	(13.0%)	0.464	
Oral steroids	13 (2.3%)	11	(2.1%)	2	(3.7%)	0.471	
Beta-agonists	11 (1.9%)	10	(1.9%)	1	(1.9%)	0.956	
1st generation antihistamines	8 (1.4%)	7	(1.4%)	1	(1.9%)	0.777	
2nd generation antihistamine	24 (4.2%)	20	(3.9%)	4	(7.4%)	0.228	
Cough drops	60 (10.6%)	59	(11.5%)	1	(1.9%)	0.028	
Antibiotics	46 (8.1%)	42	(8.2%)	4	(7.4%)	0.833	
ICS-LABA	51 (9.0%)	46	(8.9%)	5	(9.3%)	0.953	
Others	73 (12.9%)	61	(11.9%)	12	(22.2%)	0.033	

Supplementary Table 6. Comparison of demographics, health characteristics and cough severity in chronic cough patients not greatly satisfied with treatment effectiveness and other chronic cough patients

		Total (N=568)		All other CC patients (N=477)		CC patients not greatly satisfied with treatment effectiveness (N=91)		p-value	
		Mean	SD	Mean	SD	Mean SD			
Age		56.01	15.15	56.32	15.07	54.36	15.57	0.259	
Charlson Comorbidit	ty index	0.33	0.67	0.29	0.62	0.52	0.85	0.003	
Adapted Charlson Co	omorbidity index	0.23	0.55	0.22	0.52	0.27	0.68	0.384	
		Coun	t (%)	Count	(%)	Cou	nt (%)		
Gender	Male	347 ((61.1%)	307 (64.4%)	40	(44.0%)	< .001	
Gender	Female	221 ((38.9%)	170 (35.6%)	51	(56.0%)		
Currently employed	No	252 ((44.4%)	220 (46.1%)	32	(35.2%)	0.054	
	Yes	316 ((55.6%)	257 (53.9%)	59	(64.8%)	0.097	
	Underweight (BMI<18.5)	54 ((9.5%)	42 (8.8%)	12	(13.2%)		
	Normal weight (18.5≤BMI<23)	373 ((65.7%)	311 (65.2%)	62	(68.1%)		
BMI category	Overweight (23\(\frac{1}{2}\)BMI<25)	94 ((16.5%)	87 (18.2%)	7	(7.7%)		
	Obese (BMI≥25)	31 ((5.5%)	24 (5.0%)	7	(7.7%)		
	Decline to answer	16 ((2.8%)	13 (2.7%)	3	(3.3%)		
Currently smoke	No	391 ((68.8%)	318 (66.7%)	73	(80.2%)	0.011	
cigarettes (cough questionnaire)	Yes	177 ((31.2%)	159 (33.3%)	18	(19.8%)		
•	Abstain	191 ((33.6%)	162 (34.0%)	29	(31.9%)	0.698	
Use of alcohol	Currently consume alcohol	377 ((66.4%)	315 (66.0%)	62	(68.1%)		
Vigorous exercise	No	305 ((53.7%)	266 (55.8%)	39	(42.9%)	0.024	
in past 30 days	Yes	263 ((46.3%)	211 (44.2%)	52	(57.1%)		
Ever spoken with a	No	313 ((55.1%)	293 (61.4%)	20	(22.0%)	< .001	
physician for your cough †	Yes	251 ((44.2%)	180 (37.7%)	71	(78.0%)		
Severity VAS (0-100	0) ‡								
		Mean	SD	Mean	SD	Mean	SD		
Severity of cough ov	er the past 2 weeks	40.54	21.6	39.63	21.42	45.34	22.04	0.021	

Severity of cough on the worst day during the past 2 weeks	49.88	23.93	48.44	23.8	57.41	23.32	0.001
	Coun	ıt (%)	Count (%)		Coun	t (%)	
Severity VAS (0-100) exceeding 40	255	(45.0%)	207	207 (43.5%) 48 (52.7%)		(52.7%)	

[†] Sample size: Total CC(N=564), Not RCC (N=473), RCC (N=91) ‡ Sample size: Total CC(N=567), Not RCC (N=476), RCC (N=91)