

**Appendix Table 2: Characteristics associated with prescribing antibiotics for acute bronchitis over time**

Variable	Class	Antibiotics prescribed (n, unadjusted proportion %)				p-value
		No		Yes		
<b>Longitudinal factors</b>						
Year of consultation	Mean (SD)					
	2010	17	18%	76	82%	<0.001
	2011	39	16%	204	84%	
	2012	85	23%	285	77%	
	2013	99	24%	321	76%	
	2014	125	24%	404	76%	
	2015	131	21%	489	79%	
	2016	105	31%	233	69%	
	2017	179	28%	462	72%	
	2018	268	28%	693	72%	
	2019	292	27%	782	73%	
<b>Patient factors</b>						
Patient age group	0-<5 years	551	59%	388	41%	<0.001
	05-14 years	78	21%	295	79%	
	15-24 years	73	18%	328	82%	
	25-44 years	225	19%	941	81%	
	45-64 years	234	18%	1062	82%	
	65 years+	167	16%	883	84%	
Patient gender	Female	696	24%	2176	76%	0.098
	Male	611	26%	1698	74%	
Aboriginal and/or Torres Strait Islander	No	1218	25%	3601	75%	0.32
	Yes	32	29%	79	71%	
Non-english speaking background	No	1165	25%	3456	75%	0.75
	Yes	88	27%	241	73%	
Patient/practice status	Existing patient	400	28%	1023	72%	0.04
	New to practice	117	25%	352	75%	
	New to registrar	797	24%	2482	76%	
<b>Registrar factors</b>						
Registrar age	Mean, years (SD)	32	(6)	33	(6)	0.017
Registrar gender	Female	784	25%	2390	75%	0.43
	Male	556	26%	1559	74%	
Registrar FT or PT	Full-time	1020	26%	2967	74%	0.47
	Part-time	272	25%	801	75%	
Term	Term 1	532	28%	1387	72%	0.003
	Term 2	469	23%	1537	77%	
	Term 3	339	25%	1025	75%	
Worked at practice previously	No	1055	26%	2999	74%	0.056
	Yes	268	23%	898	77%	
Qualified as doctor in Australia	No	274	23%	905	77%	0.071
	Yes	1062	26%	3023	74%	
<b>Practice factors</b>						
SEIFA index	Mean (SD)	6	(3)	6	(3)	0.84
Practice size	Large	800	24%	2489	76%	0.065
	Small	493	27%	1307	73%	
Practice routinely bulk bills	No	980	25%	2921	75%	0.81
	Yes	353	26%	998	74%	
Rurality	Inner regional	336	23%	1141	77%	0.042
	Major city	873	27%	2399	73%	

Variable	Class	Antibiotics prescribed (n, unadjusted proportion %)				p-value
		No		Yes		
Training Region	Outer regional remote	131	24%	409	76%	0.20
	Region 1	83	28%	209	72%	
	Region 2	143	27%	383	73%	
	Region 3	411	22%	1461	78%	
	Region 4	24	22%	87	78%	
	Region 5	241	29%	586	71%	
	Region 6	126	28%	328	72%	
	Region 7	312	26%	895	74%	
<b>Consultation factors</b>						
Consultation duration	Mean, minutes (SD)	18	(8)	(17)	(7)	<0.001
Number of problems	mean (SD)	1	(1)	(1)	(1)	0.99
Sought help any source	None	1095	26%	3108	74%	<0.001
	Other sources	149	18%	665	82%	
	Supervisor	96	35%	176	65%	
Pathology ordered	No	1220	26%	3500	74%	0.009
	Yes	120	21%	449	79%	
Imaging ordered	No	1250	27%	3453	73%	<0.001
	Yes	90	15%	496	85%	
Referral ordered	No	1243	24%	3918	76%	<0.001
	Yes	97	76%	31	24%	
Follow-up ordered	GP appointment or phone	548	23%	1836	77%	0.002
	None	723	28%	1903	72%	
	With someone else	69	25%	210	75%	
Learning goals generated	No	1077	25%	3258	75%	0.087
	Yes	175	28%	446	72%	