

1 **Supplementary Table 1: Characteristics associated with an ACVRa being performed**

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Factor group	Covariate	Class	ACVRa performed		p
			No	Yes	
Patient factors	Patient age group	<55 years	19292 (29%)	457 (27%)	<0.001
		55-64 years	18520 (27%)	555 (32%)	
		65-74 years	16040 (24%)	467 (27%)	
		75+ years	13532 (20%)	242 (14%)	
	Patient gender	Male	26930 (41%)	915 (54%)	<0.001
		Female	39549 (59%)	789 (46%)	
	Aboriginal and/or Torres Strait Islander	No	65947 (98%)	1666 (97%)	0.034
		Yes	1437 (2%)	55 (3%)	
	Non-English-Speaking Background	No	61070 (91%)	1518 (88%)	0.092
		Yes	6196 (9%)	200 (12%)	
Patient/practice status	Existing patient	31068 (46%)	1001 (59%)	<0.001	
	New to registrar	32904 (49%)	675 (39%)		
	New to practice	3325 (5%)	34 (2%)		
Registrar factors	Registrar gender	Male	26979 (40%)	732 (43%)	0.26
		Female	40405 (60%)	989 (57%)	
	Registrar FT or PT ¹	Part-time	14118 (22%)	338 (21%)	0.58
		Full-time	50886 (78%)	1304 (79%)	
	Training term	Term 1	24808 (37%)	688 (40%)	0.97
		Term 2	29307 (43%)	732 (43%)	
		Term 3	13269 (20%)	301 (17%)	
	Worked at practice previously	No	50043 (75%)	1304 (76%)	0.87
		Yes	16910 (25%)	412 (24%)	
	Qualified as doctor in Australia	No	12030 (18%)	406 (24%)	0.005
Yes		55334 (82%)	1315 (76%)		

¹ Full-time or part-time

Factor group	Covariate	Class	ACVRa performed		
			No	Yes	p
Practice factors	Registrar age	mean (SD)	32.5 (6.1)	33.5 (7.2)	0.026
	Years worked	mean (SD)	3.3 (3.0)	3.8 (4.1)	0.031
	Practice size	Small	29105 (45%)	713 (44%)	0.88
		Large	35629 (55%)	926 (56%)	
	Practice routinely bulk bills	No	45034 (67%)	1043 (61%)	0.064
		Yes	22140 (33%)	670 (39%)	
	Rurality	Major city	37171 (57%)	906 (55%)	0.33
		Inner regional	19203 (30%)	513 (31%)	
		Outer regional remote	8490 (13%)	216 (13%)	
	Region	Region 1	13453 (20%)	286 (17%)	0.109
Region 2		5678 (8%)	155 (9%)		
Region 3		17607 (26%)	459 (27%)		
Region 4		19415 (29%)	470 (27%)		
Region 5		11231 (17%)	351 (20%)		
Consultation factors	SEIFA ² index decile	mean (SD)	5.2 (2.9)	5.1 (3.0)	0.42
	New problem seen	No	33275 (53%)	1068 (66%)	<0.001
		Yes	28927 (47%)	554 (34%)	
	Sought help any source	None	55847 (83%)	1302 (76%)	<0.001
		Supervisor	4982 (7%)	127 (7%)	
		Other sources	6555 (10%)	292 (17%)	
	Consultation duration	mean (SD)	20.6 (10.8)	22.9 (11.5)	<0.001
	Number of problems	mean (SD)	2.2 (1.0)	2.54 (1.0)	<0.001
	Follow-up ordered	None	38318 (57%)	758 (44%)	<0.001
		With themselves	24593 (36%)	878 (51%)	
Other GP in the practice		4473 (7%)	85 (5%)		

² Socio-Economic Indexes for Areas

Factor group	Covariate	Class	ACVRa performed		
			No	Yes	p
	Pathology ordered	No	56236 (83%)	1272 (74%)	<0.001
		Yes	11148 (17%)	449 (26%)	
	Referral ordered	No	58901 (87%)	1494 (87%)	0.85
		Yes	8483 (13%)	227 (13%)	
	Medication prescribed	No	38883 (58%)	1074 (62%)	<0.001
		Yes	28501 (42%)	647 (38%)	
	Learning goals generated	No	50603 (82%)	1127 (73%)	<0.001
		Yes	10954 (18%)	419 (27%)	

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