

1 **Supplementary Table 2: Characteristics associated with ACVRa being performed for**
 2 **problems/diagnoses for which an ACVRa is appropriate**

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Factor group	Covariate	Class	ACVRa performed (high risk pttts)		p
			No	Yes	
Patient factors	Patient age group	<55 years	2224 (24%)	334 (27%)	<0.001
		55-64 years	2609 (28%)	405 (33%)	
		65-74 years	2442 (27%)	325 (26%)	
		75+ years	1881 (21%)	164 (13%)	
	Patient gender	Male	4273 (47%)	632 (52%)	0.012
		Female	4751 (53%)	583 (48%)	
	Aboriginal and/or Torres Strait Islander	No	8974 (98%)	1185 (96%)	0.008
		Yes	182 (2%)	43 (4%)	
	Non-English-Speaking Background	No	8184 (90%)	1085 (88%)	0.95
		Yes	953 (10%)	141 (12%)	
	Patient/practice status	Existing patient	4097 (45%)	731 (60%)	<0.001
		New to registrar	4544 (50%)	462 (38%)	
New to practice		505 (6%)	26 (2%)		
Registrar factors	Registrar gender	Male	3817 (42%)	533 (43%)	0.63
		Female	5339 (58%)	695 (57%)	
	Registrar FT or PT ¹	Part-time	1868 (21%)	240 (20%)	0.188
		Full-time	6981 (79%)	936 (80%)	
	Training term	Term 1	3460 (38%)	494 (40%)	0.99
		Term 2	3900 (43%)	523 (43%)	
		Term 3	1796 (20%)	211 (17%)	
	Worked at practice previously	No	6828 (75%)	946 (77%)	0.94
		Yes	2282 (25%)	281 (23%)	

¹ Full-time or part-time

Factor group	Covariate	Class	ACVRA performed (high risk pts)		p
			No	Yes	
Practice factors	Qualified as doctor in Australia	No	1607 (18%)	284 (23%)	0.085
		Yes	7548 (82%)	944 (77%)	
	Registrar age	mean (SD)	32.3 (6.2)	33.5 (7.2)	0.165
	Years worked	mean (SD)	3.2 (2.7)	3.7 (4.2)	0.148
	Practice size	Small	4215 (48%)	506 (43%)	0.30
		Large	4605 (52%)	666 (57%)	
	Practice routinely bulk bills	No	6017 (66%)	735 (60%)	0.137
		Yes	3106 (34%)	490 (40%)	
	Rurality	Major city	5021 (57%)	658 (56%)	0.22
			Inner regional	2528 (29%)	
Outer regional remote			1259 (14%)	153 (13%)	
Region	Region 1	1890 (21%)	193 (16%)	0.027	
		Region 2	778 (8%)		103 (8%)
		Region 3	2365 (26%)		332 (27%)
		Region 4	2663 (29%)		330 (27%)
		Region 5	1460 (16%)		270 (22%)
Consultation factors	SEIFA ² index decile	mean (SD)	5.1 (2.9)	5.2 (3.0)	0.43
	New problem seen	No	6561 (77%)	849 (73%)	<0.001
		Yes	1916 (23%)	320 (27%)	
	Sought help any source	None	8221 (90%)	947 (77%)	<0.001
		Supervisor	335 (4%)	63 (5%)	
		Other sources	600 (7%)	218 (18%)	
	Consultation duration	mean (SD)	20.2 (10.7)	22.2 (11.2)	<0.001
	Number of problems	mean (SD)	2.6 (1.0)	2.6 (1.0)	0.77
	Follow-up ordered	None	5029 (55%)	518 (42%)	<0.001

² Socio-Economic Indexes for Areas

Factor group	Covariate	Class	ACVRa performed (high risk pts)		p
			No	Yes	
		With themselves	3520 (38%)	650 (53%)	
		Other GP in the practice	607 (7%)	60 (5%)	
	Pathology ordered	No	6636 (72%)	918 (75%)	0.047
		Yes	2520 (28%)	310 (25%)	
	Referral ordered	No	8637 (94%)	1109 (90%)	0.0002
		Yes	519 (6%)	119 (10%)	
	Medication prescribed	No	5296 (58%)	731 (60%)	0.31
		Yes	3860 (42%)	497 (40%)	
	Learning goals generated	No	7360 (88%)	820 (75%)	<0.001
		Yes	967 (12%)	279 (25%)	

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