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Appendix

This appendix was part of the submitted manuscript and has been peer reviewed.
It is posted as supplied by the authors.

Appendix to: Bismark MM, Spittal, MJ, Plueckhahn TM, Studdert DM. Mandatory reports of concerns about the health, performance and conduct of health practitioners. *Med J Aust* 2014; online first 11 Sep. doi: 10.5694/mja14.00210.

Appendix 1

Our analysis of the risk of notification began by constructing a dataset consisting of all possible combinations of categories associated with these respondent variables (k=1512 combinations). For each combination, we calculated counts of notifications against respondent subpopulations with those characteristics (using notifications data) and the total size of the corresponding subpopulation of the health practitioner workforce (using register data).

The dependent variable in the regression analyses was the count of notifications, the independent variables were the five respondent variables mentioned above, and the relevant workforce counts for each covariate combination were included as an offset term in the equation.

Finally, we used the coefficients from this multivariate model to calculate marginal effects—that is, the predicted incidence of notifications associated with each characteristic, adjusting for all other covariates in the model. This technique allows us to report multivariate results as adjusted incidence measures (i.e. mandatory notifications per 10,000 practitioners per year).

Multivariable estimates are based on data from 746 cases in a population of 384,195 health practitioners. Results are shown in **Table A1.**

Table A1: Negative binomial regression analysis predicting risk of notification among all registered practitioners

	Adjusted RR	**95% CI**	**p-value**
Profession			< 0.001
Medical practitioner	1.00		
Nurse/Midwife	0.97	0.79-1.19	
Psychologist	1.15	0.82-1.61	
Pharmacist	0.66	0.44-0.99	
Dentist	0.49	0.29-0.84	
Other allied health practitioners	0.20	0.12-0.32	
Sex			< 0.001
Male	1.00		
Female	0.37	0.31-0.44	
Age			< 0.001
Under 24	1.00		
25 to 34	1.00	1.00-1.00	
35 to 44	1.08	0.62-1.86	
45 to 54	1.89	1.11-3.21	
55 to 64	1.99	1.17-3.38	
Over 65	1.65	0.96-2.84	
State			< 0.001
Victoria	1.00		
Tasmania	1.28	0.80-2.07	
South Australia	4.19	3.30-5.31	
Western Australia	1.54	1.15-2.05	
Queensland	2.64	2.13-3.29	
Northern Territory	0.89	0.42-1.87	
Australian Capital Territory	3.68	2.45-5.53	
Remoteness			< 0.001
Major cities	1.00		
Inner/Outer Regional	1.47	1.22-1.77	
Remote/Very Remote	3.46	2.46-4.88	