



## **Appendix 5**

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

Appendix to: Chalasani S, Peiris DP, Usherwood T, et al. Reducing cardiovascular disease risk in diabetes: a randomised controlled trial of a quality improvement initiative. *Med J Aust* 2017; 206: 446-441. doi: 10.5694/mja16.00332.

Appendix 5 – Predictors of sub-optimal drug treatment of risk factors in patients with diabetes

Variable	Not on appropriate therapy*		Not on Glucose Lowering therapy		Not on BP Lowering therapy		Not on Lipid Lowering therapy	
	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value
Age (5 years older)	0.93 (0.91 0.95)	<.001	1.08 (1.05 1.11)	<.001	0.82 (0.75 0.89)	<.001	0.91 (0.88 0.94)	<.001
Sex (male vs female)	0.94 (0.86 1.03)	0.22	0.94 (0.86 1.02)	0.15	1.03 (0.94 1.13)	0.49	0.93 (0.85 1.02)	0.11
Weight (1 kg higher)	1.00 (1.00 1.00)	0.11	0.99 (0.99 1.00)	0.018	1.00 (0.99 1.00)	0.08	1.00 (1.00 1.00)	0.37
HbA1c (11 mmol/mol higher)	0.98 (0.97 1.00)	0.030	0.91 (0.80 1.05)	0.19	1.01 (0.99 1.03)	0.25	1.00 (0.98 1.03)	0.79
Albuminuria (yes vs no)	0.72 (0.64 0.82)	<.001	0.92 (0.82 1.04)	0.19	0.65 (0.52 0.81)	<.001	0.85 (0.76 0.97)	0.013
Indigenous (yes vs no)	0.86 (0.76 0.99)	0.030	0.77 (0.62 0.95)	0.016	1.09 (0.89 1.33)	0.40	1.14 (0.97 1.33)	0.11
SBP (5 mmHg increase)	0.97 (0.96 0.99)	<.001	1.01 (1.00 1.02)	0.047	0.92 (0.90 0.95)	<.001	1.00 (0.99 1.01)	0.57
Total cholesterol (1 mmol higher)	1.45 (1.35 1.55)	<.001	1.14 (1.07 1.21)	<.001	1.25 (1.17 1.34)	<.001	1.38 (1.28 1.48)	<.001
LDL cholesterol (1 mmol higher)	1.69 (1.52 1.87)	<.001	1.24 (1.14 1.36)	<.001	1.40 (1.28 1.53)	<.001	1.75 (1.55 1.97)	<.001
HDL (1 mmol higher)	1.39 (1.19 1.63)	<.001	1.38 (1.18 1.63)	<.001	1.11 (0.97 1.28)	0.13	1.17 (1.01 1.35)	0.033
Type of service								
General practice	0.91 (0.61 1.35)	0.63	0.75 (0.39 1.44)	0.39	0.64 (0.36 1.15)	0.14	0.56 (0.34 0.93)	0.024
ACCHS	1.10 (0.74 1.64)	0.63	1.33 (0.70 2.54)	0.39	1.56 (0.87 2.79)	0.14	1.79 (1.08 2.98)	0.024
Medicare Health Assessment item								
Health assessment	0.81 (0.69 0.96)	0.012	0.96 (0.76 1.21)	0.74	0.65 (0.55 0.77)	<.001	0.73 (0.59 0.89)	0.002
721 GP MP	0.78 (0.71 0.86)	<.001	0.78 (0.68 0.89)	<.001	0.78 (0.66 0.91)	0.001	0.73 (0.65 0.81)	<.001
723 Team Care Arrangement	0.80 (0.71 0.90)	<.001	0.75 (0.65 0.87)	<.001	0.78 (0.66 0.92)	0.003	0.75 (0.66 0.84)	<.001

\* The Odds Ratio is estimated for the “not receiving therapy” by either per unit increase for continuous risk factors or “yes vs no” for binary factors.