Supplementary Tables

Suppl. Table 1: Number of participating diabetes centres and patients by state or territory

State/Territory	Participating centres	Number of patients included
Australian Capital Territory	1	49
New South Wales	13	1246
Northern Territory	1	91
Queensland	9	758
South Australia	1	44
Tasmania	3	140
Victoria	20	1119
Western Australia	1	45
Total	49	3492

Suppl. Table 2: Unadjusted and adjusted odds of variables associated with prescribing gaps

	HbA1c > 8.0% and not on insulin				Hypertension and not on BP medication				Dyslipidaemia and not on lipid medication			
	Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis	
	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value
Age (y)												
≥60 (ref)												
<60	1.23 (1.01-1.50)	0.041	0.80 (0.61-1.04)	0.090	2.71 (1.91-3.83)	<0.001	1.84 (1.16-2.92)	0.010	2.17 (1.79-2.63)	<0.001	1.48 (1.15-1.90)	0.002
Duration of Diabetes (y)												
<10 (ref)												
≥10	0.28 (0.23-0.35)	<0.001	0.28 (0.22-0.36)	<0.001	0.39 (0.28-0.56)	<0.001	0.46 (0.29-0.71)	0.001	0.41 (0.34-0.50)	<0.001	0.54 (0.42-0.69)	<0.001
Gender												
Male (ref)												
Female	0.89 (0.73-1.08)	0.239	0.87 (0.69-1.11)	0.260	0.96 (0.68-1.36)	0.818	0.97 (0.62-1.51)	0.890	1.37 (1.13-1.66)	0.001	1.19 (0.93-1.51)	0.160
Smoking												
Never (ref)												
Past	0.83 (0.66-1.05)	0.117			0.57 (0.38-0.86)	0.008	0.66 (0.41-1.09)	0.103	0.71 (0.57-0.90)	0.005	0.76 (0.59-0.99)	0.043
Current	0.97 (0.71-1.33)	0.861			1.57 (0.94-2.64)	0.087	1.40 (0.74-2.65)	0.301	1.06 (0.78-1.44)	0.711	1.03 (0.73-1.46)	0.856
eGFR (ml/min) (per unit)	1.01 (1.00-1.01)	0.001	1.00 (1.00-1.01)	0.049	1.02 (1.01-1.02)	<0.001	1.01 (1.00-1.01)	0.012	1.01 (1.01-1.01)	<0.001	1.01 (1.00-1.01)	0.005
BMI (kg/m^2) (per unit)	0.98 (0.97-1.00)	0.021	0.98 (0.96-0.99)	0.004	0.98 (0.96-1.00)	0.100	0.95 (0.93-0.98)	0.002	0.99 (0.98-1.01)	0.238		
HbA1c (%) (per unit)					1.05 (0.95-1.16)	0.331			0.98 (0.93-1.04)	0.497		
Vascular disease												
No (ref)												
Yes					0.37 (0.26-0.53)	<0.001	0.48 (0.31-0.75)	0.001	0.36 (0.29-0.44)	<0.001	0.51 (0.40-0.66)	<0.001

*Multivariable analyses are, where appropriate, adjusted for gender, diabetes duration, smoking, estimated glomerular filtration rates, body mass index and HbA1c.
#Hypertension is defined as systolic blood pressure >140mmHg and/or diastolic blood pressure >90 mmHg
†Dyslipidaemia is defined as either total cholesterol >4.0 mmol/L, high density lipoprotein <1.0 mmol/L, low density lipoprotein >2.0 mmol/L or triglycerides >2.0 mmol/L

Suppl. Table 3: Unadjusted and adjusted odds of variables associated with suboptimal glycaemic control and adverse cardiovascular risk factor levels, excluding patients with diabetes duration ≤ 2 years.

	HbA1c above target (7.0%, 53 mmol/mol)				Hypertension				Dyslipidaemia				Obesity				Current Smoker			
	Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis	
	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value
Age																				
≥60 y (ref)																				
<60 y	1.47 (1.22-1.77)	<0.001	1.59 (1.27-2.00)	<0.001	0.88 (0.74-1.04)	0.122	0.90 (0.72-1.12)	0.339	2.17 (1.71-2.76)	<0.001	1.89 (1.41-2.53)	<0.001	1.31 (1.11-1.54)	0.001	1.28 (1.06-1.55)	0.010	2.50 (1.96-3.17)	<0.001	2.19 (1.64-2.92)	<0.001
Duration																				
<10 y (ref)																				
≥10 y	1.65 (1.37-1.98)	<0.001	2.05 (1.66-2.54)	<0.001	1.10 (0.92-1.31)	0.295			0.80 (0.63-1.01)	0.065	0.93 (0.70-1.25)	0.631	1.02 (0.86-1.21)	0.793			0.71 (0.55-0.92)	0.009	1.00 (0.75-1.35)	0.983
Sex																				
Male (ref)																				
Female	1.18 (0.99-1.40)	0.062	1.18 (0.97-1.44)	0.093	1.05 (0.90-1.23)	0.555	0.96 (0.78-1.17)	0.657	0.75 (0.61-0.92)	0.006	0.70 (0.54-0.90)	0.006	1.29 (1.11-1.50)	0.001	1.35 (1.12-1.62)	0.001	0.74 (0.58-0.94)	0.015	0.77 (0.59-1.01)	0.060
Smoking																				
Never (ref)																				
Past	1.08 (0.88-1.32)	0.484			0.92 (0.77-1.11)	0.387	0.97 (0.78-1.19)	0.748	1.08 (0.85-1.37)	0.539	0.97 (0.74-1.28)	0.853	1.51 (1.26-1.81)	<0.001	1.69 (1.38-2.06)	<0.001				
Current	1.22 (0.89-1.66)	0.215			0.68 (0.51-0.90)	0.006	0.74 (0.53-1.02)	0.062	1.46 (0.99-2.17)	0.058	1.18 (0.77-1.81)	0.446	0.95 (0.74-1.23)	0.712	0.90 (0.69-1.19)	0.468				
eGFR (ml/min/1.73m²) (per unit)	1.00 (1.00-1.01)	0.002	1.00 (1.00-1.01)	0.014	1.00 (0.99-1.00)	0.005	1.00 (0.99-1.00)	0.011	1.00 (1.00-1.00)	0.655			1.00 (1.00-1.00)	0.175			1.01 (1.01-1.01)	<0.001	1.01 (1.00-1.01)	0.001
BMI (kg/m²) (per unit)	1.03 (1.02-1.05)	<0.001	1.03 (1.02-1.05)	<0.001	1.02 (1.01-1.03)	<0.001	1.02 (1.00-1.03)	0.009	1.02 (1.00-1.04)	0.013	1.02 (1.00-1.03)	0.097					0.98 (0.96-1.00)	0.016	0.96 (0.95-0.98)	<0.001
HbA1c (%) (per unit)					1.04 (1.00-1.09)	0.075	1.02 (0.97-1.08)	0.477	1.21 (1.12-1.29)	<0.001	1.14 (1.05-1.23)	0.002	1.09 (1.04-1.14)	<0.001	1.05 (1.00-1.11)	0.040				

*Multivariable analyses are, where appropriate, adjusted for gender, diabetes duration, smoking, estimated glomerular filtration rates, body mass index and HbA1c.

#Hypertension is defined as systolic blood pressure >140mmHg and/or diastolic blood pressure >90 mmHg

†Dyslipidaemia is defined as either total cholesterol >4.0 mmol/L, high density lipoprotein <1.0 mmol/L, low density lipoprotein >2.0 mmol/L or triglycerides >2.0 mmol/L

‡Obesity is defined as Body Mass Index >30 kg/m²

Suppl. Table 4: Unadjusted and adjusted odds of variables associated with suboptimal glycaemic control and adverse cardiovascular risk factor levels, adjusted for diabetes centre type.

	HbA1c above target (7.0%, 53 mmol/mol)				Hypertension				Dyslipidaemia				Obesity				Current Smoker			
	Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis		Univariable Analysis		Multivariable Analysis	
	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value	OR (95%CI)	p value
Age ≥60 y (ref)																				
<60 y	1.26 (1.07-1.49)	0.005	1.51 (1.23-1.86)	<0.001	0.81 (0.70-0.95)	0.008	0.86 (0.70-1.05)	0.133	2.41 (1.91-3.03)	<0.001	2.05 (1.55-2.72)	<0.001	1.26 (1.09-1.46)	0.002	1.26 (1.06-1.50)	0.009	2.60 (2.09-3.22)	<0.001	2.09 (1.61-2.72)	<0.001
Duration of Diabetes <10 y (ref)																				
≥10 y	2.05 (1.74-2.40)	<0.001	2.52 (2.08-3.05)	<0.001	1.16 (0.99-1.35)	0.067	1.04 (0.86-1.26)	0.702	0.66 (0.53-0.81)	<0.001	0.80 (0.61-1.05)	0.115	1.04 (0.90-1.20)	0.597			0.59 (0.48-0.73)	<0.001	0.81 (0.63-1.04)	0.099
Sex Male (ref)																				
Female	1.18 (1.01-1.38)	0.039	1.15 (0.96-1.38)	0.119	1.02 (0.88-1.18)	0.828	0.87 (0.72-1.04)	0.121	0.76 (0.62-0.92)	0.005	0.70 (0.55-0.90)	0.005	1.34 (1.16-1.54)	<0.001	1.37 (1.16-1.63)	<0.001	0.70 (0.56-0.87)	0.001	0.71 (0.55-0.90)	0.005
Smoking Never (ref)																				
Past	1.09 (0.9-1.32)	0.368			0.93 (0.79-1.10)	0.418	0.90 (0.74-1.09)	0.281	1.10 (0.87-1.38)	0.419	1.01 (0.78-1.32)	0.920	1.44 (1.22-1.71)	<0.001	1.63 (1.35-1.97)	<0.001				
Current	1.09 (0.84-1.42)	0.512			0.65 (0.50-0.84)	0.001	0.72 (0.54-0.96)	0.025	1.73 (1.18-2.52)	0.005	1.34 (0.89-2.02)	0.164	0.93 (0.74-1.17)	0.517	0.93 (0.73-1.19)	0.562				
eGFR (ml/min/1.73m²) (per unit)	1.00 (0.99-1.00)	0.073	1.00 (1.00-1.01)	0.040	1.00 (0.99-1.00)	0.001	1.00 (0.99-1.00)	0.007	1.00 (1.00-1.01)	0.144			1.00 (1.00-1.00)	0.307			1.01 (1.01-1.01)	<0.001	1.01 (1.00-1.01)	0.001
BMI (kg/m²) (per unit)	1.03 (1.02-1.04)	<0.001	1.03 (1.02-1.04)	<0.001	1.02 (1.01-1.03)	<0.001	1.02 (1.01-1.03)	0.001	1.02 (1.01-1.04)	0.004	1.02 (1.00-1.03)	0.088					0.98 (0.97-1.00)	0.017	0.97 (0.96-0.99)	0.001
HbA1c (%) (per unit)					1.03 (0.99-1.07)	0.156			1.18 (1.11-1.26)	<0.001	1.13 (1.05-1.22)	0.001	1.07 (1.03-1.12)	0.001	1.05 (1.00-1.09)	0.054				
Centre type^	1.06 (0.83-1.36)	0.617	1.25 (0.94-1.67)	0.122	1.18 (0.96-1.45)	0.115	1.07 (0.85-1.35)	0.576	1.04 (0.79-1.36)	0.802	1.25 (0.88-1.78)	0.203	1.15 (0.94-1.41)	0.180	1.18 (0.93-1.50)	0.170	0.17 (0.15-0.18)	<0.001	0.75 (0.53-1.07)	0.113

*Multivariable analyses are, where appropriate, adjusted for gender, diabetes duration, smoking, estimated glomerular filtration rates, body mass index and HbA1c.

#Hypertension is defined as systolic blood pressure >140mmHg and/or diastolic blood pressure >90 mmHg

†Dyslipidaemia is defined as either total cholesterol >4.0 mmol/L, high density lipoprotein <1.0 mmol/L, low density lipoprotein >2.0 mmol/L or triglycerides >2.0 mmol/L

‡Obesity is defined as Body Mass Index >30 kg/m²

^ Tertiary care centres (reference group) compared with primary and secondary care centres