

Supplementary files: Transformation to a patient-centred medical home led and delivered by an urban Aboriginal and Torres Strait Islander community, and association with engagement and quality-of-care: quantitative findings from a pilot study.

Supplementary table S1. Clinical indicators and case definitions for chronic diseases

Chronic diseases	Clinical indicator/ source data for case definition	Care plan	Observations	Medications (MIMS classification)	Medications	Medical History (Free text)
Type 2 Diabetes	Care plan, medical history, medications, HbA1c $\geq$ 6.5% on 2 occasions, fasting blood glucose $\geq$ 7 on 2 occasions, random blood glucose $\geq$ 11 on 2 occasions	Diabetes care plan; Diabetes retinopathy	Fasting blood sugar; random blood sugar; HbA1c	6D, 6E	Insulin & hypoglycaemics	Diabetes; Adult-Onset Diabetes Mellitus; Diabetes Mellitus; non-insulin-dependent Diabetes mellitus; Type 2 diabetes
Chronic Heart disease	Care plan and medical history	Structural heart disease; heart failure	NA	NA	NA	Heart Failure; Ventricular failure; atrial fibrillation; cardiomyopathy, endocarditis; cardiac arrest; chronic heart disease, valvular disorders
Ischaemic Heart disease	Care plan and medical history	Ischaemic Heart Disease	NA	NA	NA	Acute myocardial infarction; heart attack, angina; ischaemic heart disease; coronary heart disease; Atherosclerosis, CABG
Cerebrovascular disease	Care plan and medical history	Cerebrovascular disease	NA	NA	NA	stroke, transient ischaemic attack, cerebrovascular disease, cerebrovascular attack, transient ischaemic event
Hypertension	Care plan and medical history	Hypertension	NA	NA	Agents not specific for hypertension	Hypertension; high blood pressure, elevated blood pressure

					, category included for secondary prevention but not used for case definition	
Asthma	Care plan, medical history, and medications (asthma meds prescribed in last 12 months)	Asthma	NA	11B to 11E	Bronchodilators or aerosols and inhalations; preventive aerosols and inhalations	Asthma
Chronic Obstructive Pulmonary Disease	Care plan, medical history, and medications; smoking history and if on bronchodilator	COPD	NA	11B to 11E	Preventive aerosols and inhalations	Chronic obstructive airways disease; chronic obstructive pulmonary disease
Chronic Lung disease	Care plan and medical history	Chronic lung disease	NA	NA	NA	Lung disease -silicosis; pneumococcus; interstitial lung disease; restrictive lung disease; farmers lung
Depression/ Anxiety	Care plan, medical history, and medications	Mental illness	NA	3D	antidepressants	Depression, major depression, anxiety, generalised anxiety disorder, depressed; obsessive compulsive disorder
Other mental health conditions	Care plan, medical history, and medications	Mental illness	NA	3C	antipsychotics	schizophrenia; psychosis; personality disorder, post traumatic stress disorder, mental illness (NOS)

Behavioural conditions	Medical history	Nil	NA	NA	NA	Autism; Asperger; attention deficit hyperactivity disorder, behaviour
Neurological Conditions	Care plan, medical history, medications	Epilepsy	NA	3E to 3H	Central nervous system agents; anticonvulsants	Epilepsy; migraine; headache disorders
Dementia	Medical history	NA	NA	NA	NA	Dementia; short term memory loss; cognitive impairment
Cancer	Medical history	Nil	NA	NA	NA	breast/colon/colorectal/prostate/ovarian cancer any cancer, melanoma
Chronic gastrointestinal conditions	Care plan and medical history	Nil	NA	NA	NA	Gastro-oesophageal reflux disease; inflammatory bowel disease; peptic ulcer disease; irritable bowel syndrome, gastritis, pancreatitis, bowel obstruction
Osteoporosis/Osteoarthritis	Care plan, medical history, and medications	Osteoarthritis-Knee and Hip; Osteoporosis; Prolia (Denosumab)	NA	6G, 5B & 5E	Agents affecting calcium and bone metabolism; Antirheumatoid agents	Osteoporosis, osteoarthritis, Prolia (Denosumab)
Thyroid disease	Care plan, medical history, and medications	Thyroid disease	NA	6F	thyroid hormones and antithyroid medications;	Hyperthyroidism; hypothyroidism; Hashimoto's disease; graves' disease
Chronic Kidney disease	Care plan, medical history, and medications; observations	Chronic Kidney disease- Stage 3 to 5; Macroalbuminuria	eGFR stage 3 or more; ACR macroalbuminuria	NA	NA	Chronic kidney disease; kidney disease; renal impairment; renal failure

	eGFR stage 3 or 4 or 5, macroalbuminuria based on ACR	a – ACR; Renal transplant				
Chronic Liver disease	Care plan and medical history	Chronic Hepatitis B & C; Chronic liver disease	NA	NA	NA	Hepatitis; liver disease; liver failure; cirrhosis; hepatic steatosis
Obstructive sleep apnoea	Care plan and medical history	OSA	NA	NA	NA	sleep apnoea; continuous positive airway pressure

Notes: Abbrev. ACR, albumin-creatinine ratio; COPD, chronic obstructive pulmonary disease; CABG, coronary artery bypass graft; eGFR estimated glomerular filtration rate; HbA1c, glycosylated haemoglobin; OSA, obstructive sleep apnoea. Case definitions based on: whether the condition was listed as a care plan; medical history diagnosis; a prescription related to that condition had been added to a patient record; or clinical observations consistent with a diagnosis of the condition was recorded in the patient record (depending on the condition). Care plans are a standardised template of scheduled activities relating to a particular condition that can be added to the patient record. Medications were categorised using the Monthly Index of Medical Specialties (MIMS) classification of medications (<https://www.mims.com.au/index.php>)

Supplementary Table S2. Medicare Schedule Benefit (MBS) items included for health assessments and chronic disease services.

MBS service category	MBS Item numbers
Health assessments CDM/TCA	701-715, 224-228, 92004-92016; 92011-92023 721-723, 731, 229-230, 92024, 92068, 92025, 92069, 92055, 92099, 92056, 92100
CDM/TCA reviews CDM follow-up services	732, 233, 92028, 92072, 92059, 92103 10951-10970, 81305-81360, 93000, 93048, 93013, 93061, 10983-10987, 10987, 10997, 10950, 81300, 93200, 93201, 93202, 93203

Notes: CDM, chronic disease management, TCA; team care arrangements. Phone and video MBS items introduced for whole of population telehealth during the COVID-19 pandemic also included.

Supplementary Table S3. Processes of care and clinical outcomes for risk factors and chronic disease, total regular client population

Risk factors and clinical outcomes	Pre- implementation (n=1,186)	Post- implementation (n=1,606)
BP recorded (n, %)*	921 (77.7)	1,275 (79.3)
No. BP measures (mean [SD], median [IQR])^a	7.5 (14.2), 4 (2-7)	4.5 (5.0), 3 (1-5)
Systolic BP mmHg (mean, SD)	126 (14)	127 (15)
HbA1c recorded, n (%)*	455 (38.4)	852 (53.1)
No. HbA1c measures (mean [SD], median [IQR])^a	1.5 (0.9), 1 (1-2)	1.5 (8.0), 1 (1-2)
HbA1c (mean, SD)	6.0 (1.5)	5.9 (1.5)

Notes: ^aNumber of blood pressure and HbA1c measurements in the last 12 months when at least one measure taken. ^bRisk factors for CVD calculation include systolic blood pressure, HDL, Cholesterol, smoking status, gender, and age; ^cincludes both clinically determined and Framingham risk equations.