

Supplementary Materials: Built environment features and cardiometabolic mortality and morbidity in remote Indigenous communities in the Northern Territory, Australia

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Table S1. EnRICH health outcomes documentation.

| Definition of health outcome measures |
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| <p>A. Individual de-identified comprehensive cardiometabolic disease and risk profile data from the Northern Territory (NT) Department of Health for the period 1 January 2010 to 31 December 2015, including:</p> <ol style="list-style-type: none"> 1) Inpatient Activity (diagnosis and procedures at a hospital) 2) Emergency Department Data Collection (presentation at a hospital emergency department) 3) Primary Health Care Collection (diagnosis/clinical assessment at primary health care centre) |
| <p>B. De-identified mortality data from the Births, Deaths, and Marriages Office (NT Department of the Attorney-General and Justice) for the period 1 January 2010 to 31 December 2015.</p> <ol style="list-style-type: none"> 1) all-cause mortality, and 2) and cardiovascular-specific |
| <p>For A1 Inpatient Activity (<i>diagnosis and procedures at a hospital</i>), and A2 Emergency Department Data Collection (<i>presentation at a hospital emergency department</i>):</p> <p>Study population = all patients with ICD-10 diagnosis codes</p> <p>E11 Type 2 diabetes mellitus E16 Other disorders of pancreatic internal secretion E66 Obesity E78 Disorders of lipoprotein metabolism and other lipidaemias E88 Other metabolic disorders I10 Essential (primary) hypertension I11 Hypertensive heart disease I12 Hypertensive renal disease I13 Hypertensive heart and renal disease I15 Secondary hypertension I20 Angina pectoris I21 Acute myocardial infarction I22 Subsequent myocardial infarction I23 Certain current complications following acute myocardial infarction I24 Other acute ischaemic heart diseases I25 Chronic ischaemic heart disease I26 Pulmonary embolism I27 Other pulmonary heart diseases I28 Other diseases of pulmonary vessels I60 Subarachnoid haemorrhage I61 Intracerebral haemorrhage I62 Other nontraumatic intracranial haemorrhage I63 Cerebral infarction I64 Stroke, not specified as haemorrhage or infarction I65 Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarction I66 Occlusion and stenosis of cerebral arteries, not resulting in cerebral infarction</p> |

Definition of health outcome measures

I67 Other cerebrovascular diseases
I68 Cerebrovascular disorders in diseases classified elsewhere
I69 Sequelae of cerebrovascular disease
I70 Atherosclerosis
I71 Aortic aneurysm and dissection
I72 Other aneurysm and dissection
I74 Arterial embolism and thrombosis
I77 Other disorders of arteries and arterioles
I79 Disorders of arteries, arterioles and capillaries in diseases classified elsewhere
N00 Acute nephritic syndrome
N01 Rapidly progressive nephritic syndrome
N02 Recurrent and persistent haematuria
N03 Chronic nephritic syndrome
N04 Nephrotic syndrome
N17 Acute renal failure
N18 Chronic renal failure
N19 Unspecified kidney failure

Inpatient Activity coded for patient unique ID, DOB, gender, Indigenous status, Community name (suburb or locality) as text (usual or most recent residence), discharge date, all discharge diagnoses – ICD-coded, all discharge diagnoses – text, ICD version number.

Emergency Department Data Collection coded for patient unique ID, DOB, gender, Indigenous status, Community name (suburb or locality) as text (usual or most recent residence), presentation diagnosis date, presentation diagnosis – ICD-coded, ICD version number.

For **A3 Primary Health Care Collection** (*diagnosis/clinical assessment at primary health care centre*)

Study population = ICPC Diagnosis code relating to cardiometabolic and behavioural risk factors

ICPC-2 Rubric including ICPC-2 PLUS codes where indicated (ICPC-2 Rubric label)

T89 (Diabetes; insulin-dependent)

T90 (Diabetes; non-insulin-dependent)

W85 (Gestational diabetes)

K85 (Elevated blood pressure (without hypertension))

K86 (Hypertension; uncomplicated)

K87 including ICPC-2 PLUS codes W81002-W81003 (Hypertension; complicated)

K74 (Ischaemic heart disease with angina)

K76 (Ischaemic heart disease without angina)

A34005 (Test; C reactive protein)

D34005 (Test; aspartate aminotransferase)

K34003 (Test; cardiac enzymes)

K34004 (Test; creatine kinase)

T34010 (Test; HbA1c)

T34017 (Test; fructosamine)

T34022 (Test; HBA1)

T34005 (Test; glucose)

T34009 (Test; glucose tolerance)

T34023 (Test; glucose (fasting/random))

Definition of health outcome measures

T34025 (Test; glucose; fasting)
T34026 (Test; glucose; random)
B34026 (Test; fibrinogen)
K86 (Hypertension; uncomplicated)
K87 (Hypertension; complicated)
K74 (Ischaemic heart disease with angina)
K75 (Acute myocardial infarction)
K76 (Ischaemic heart disease without angina)
T93 including ICPC-2 PLUS codes T99075 (Lipid disorder)
T82 (Obesity)
T83 (Overweight)
K84017 (Cardiomyopathy; primary)
K84034 (Cardiomyopathy; secondary)
K84035 (Cardiomyopathy; congestive)
K84036 (Cardiomyopathy; restrictive)
K84037 (Cardiomyopathy; hypertrophic)
K84041 (Cardiomyopathy)
K74 (Ischaemic heart disease with angina)
K75 (Acute myocardial infarction)
K76 (Ischaemic heart disease without angina)
K77 (Heart failure)
K78 (Atrial fibrillation/flutter)
K79 (Paroxysmal tachycardia)
K80 (Cardiac arrhythmia NOS)
K83 (Heart valve disease NOS)
K84 including ICPC-2 PLUS codes K03001 - K99032 (Heart disease, other)
K06 (Prominent; veins)
K22 (Risk factor; cardiovascular disease)
K85 (Elevated blood pressure)
K86 (Hypertension, uncomplicated)
K87 (Hypertension, complicated)
K88 (Postural hypotension)
K92 (Atherosclerosis/peripheral vascular disease)
K93 (Pulmonary embolism)
K94 (Phlebitis/thrombophlebitis)
K89 (Transient cerebral ischaemia)
K90 (Stroke/cerebrovascular accident)
K91 (Cerebrovascular disease)
W85 (Gestational diabetes)

Primary Health Care Collection coded for patient unique ID, current age, diagnosis date, Indigenous status, usual clinic name (attributed to suburb/locality and aggregated to form community-level outcomes), suburb/locality associated with clinic, residency status (resident, visitor, or tourist), ICPC Diagnosis code.

Definition of health outcome measures

For B Territory-wide Mortality data

- 1) all-cause mortality (see: <http://apps.who.int/classifications/icd10/browse/2010/en>)
- 2) cardiovascular-specific mortality, including:
 - ischaemic heart disease (ICD-10 codes I20–I25)
 - cerebrovascular disease (ICD-10 codes I60–I69), and
 - diseases of the arteries, arterioles and capillaries (ICD-10 codes I70–I78)