

Table 1: Socio-demographic variables by HbA1c status.

		High HbA1c	Low HbA1c	p-value
Variable		Mean (SD)		
Age (years)		80.2 (7.4)	82.8 (8.1)	<0.001
	Category	n/249 (%)	n/822 (%)	
Gender	Female	142 (57.0)	457 (55.6)	0.716
	Male	107 (43.0)	365 (44.4)	
Ethnicity	European	61 (24.5)	463 (56.4)	<0.001
	Māori	35 (14.1)	76 (9.2)	
	Pacific Islander	115 (46.2)	207 (25.2)	
	Other	38 (15.2)	76 (9.2)	
Dementia subtype	Alzheimer's disease (AD)	62 (24.9)	330 (40.1)	<0.001
	Vascular dementia (VD)	133 (53.4)	299 (36.4)	
	Mixed dementia (AD/VD)	13 (5.2)	35 (4.3)	
	Other dementias	41 (16.5)	158 (19.2)	

Table 2: Dementia group status by ethnic group.

	Patient category							
Ethnicity	All (n=1077)		Dementia and HbA1c \geq 50 (n=249)		Dementia, HbA1c \geq 50, and normal CT scan (n=40)		Meeting all four DRD criteria* (n=17)	
	n (%)	HbA1c mmol/mol Mean (SD)	n (%)	HbA1c mmol/mol Mean (SD)	n (%)	HbA1c mmol/mol Mean (SD)	n (%)	HbA1c mmol/mol Mean (SD)
European	527 (48.9)	42.1 (10.5)	61 (24.5)	65.9 (14.1)	7 (17.5)	66 (22.3)	5 (29.4)	59.4 (9.4)
Māori	111 (10.3)	47.8 (14.0)	35 (14.1)	63.5 (15.0)	9 (22.5)	59 (9.14)	7 (41.2)	59.6 (10.1)
Pacific	325 (30.2)	53.0 (21.4)	115 (46.2)	75.4 (21.7)	19 (47.5)	76.1 (22.4)	4 (23.5)	80.2 (27.6)
Other	114 (10.6)	48.1 (13.7)	38 (15.3)	63.6 (13.1)	5 (12.5)	58.2 (6.91)	1 (5.9)	61.0 (-)

*DRD criteria defined as dementia, diabetes, “normal” CT scans, and less impaired memory subscore.

Table 3: Socio-demographic variables by DRD and AD for all ethnicities and for Pacific subgroup.

		All ethnicities (n=78)			Pacific subgroup (n=31)		
		DRD (n=40)	AD (n=38)	p-value	DRD (n=19)	AD (n=12)	p-value
		Mean (SD)			Mean (SD)		
Age (years)		77.7 (7.9)	83.6 (6.9)	0.001	77.4 (9.0)	80.2 (8.4)	0.215
HbA1c level (mmol/mol)		68.2 (19.8)	64.2 (12.9)	0.290	76.1 (22.4)	66.2 (17.8)	0.128
		n/40 (%)	n/38 (%)		n/19 (%)	n/12 (%)	
Gender	Female	26 (65.0)	24 (63.2)	1.000	12 (63.2)	8 (66.7)	1.000
	Male	14 (35.0)	14 (36.8)		7 (36.8)	4 (33.3)	
Ethnicity	European	7 (17.5)	15 (39.5)	0.174			
	Māori	9 (22.5)	6 (15.8)				
	Pacific	19 (47.7)	12 (31.6)				
	Other	5 (12.5)	5 (13.1)				
Dementia severity*	Mild	26 (84.6)	22 (60.61)	0.139	9 (64.3)	6 (54.5)	0.697
	Mod-Severe	8 (15.4)	15 (39.39)		5 (35.7)	5 (45.5)	
Cognitive scores** (Mean and median scores)		ACE-III (n=19) RUDAS (n=17)	ACE-III (n=20) RUDAS (n=15)	p-value	ACE-III (n=5) RUDAS (n=12)	ACE-III (n=3) RUDAS (n=9)	p-value
Total cognitive score, ACE-III or RUDAS (standardised)	Mean (SD)	0.64 (0.12)	0.59 (0.14)	0.159	0.63 (0.09)	0.51 (0.14)	0.013
Total ACE-III score (max 100)	Median (IQR)	67 (59.5, 72.5)	65.5 (55.8, 69.5)	0.693	58 (55, 60)	55 (49.5, 65)	0.881

Table 3 (continued): Socio-demographic variables by DRD and AD for all ethnicities and for Pacific subgroup.

		All ethnicities (n=78)			Pacific subgroup (n=31)		
		DRD (n=40)	AD (n=38)	p-value	DRD (n=19)	AD (n=12)	p-value
		Mean (SD)			Mean (SD)		
Cognitive scores** (Mean and median scores)		ACE-III (n=19)	ACE-III (n=20)	p-value	ACE-III (n=5)	ACE-III (n=3)	p-value
Total ACE-III score	Mean (SD)	63.6 (11.4)	63.3 (11.8)	0.932	52.9 (9.3)	58 (15.7)	0.638
Total RUDAS score (max 30)	Median (IQR)	19 (16, 21)	15 (13, 17)	0.068	20 (18.8, 21)	15 (12, 16)	0.014
Total RUDAS score	Mean (SD)	18.4 (4.1)	15.7 (4.3)	0.083	19.4 (3.0)	14.7 (3.9)	0.008
Total memory score: ACE-III or RUDAS (standardised)	Mean (SD)	0.37 (0.24)	0.31 (0.26)	0.285	0.32 (0.20)	0.19 (0.27)	0.232
ACE-III memory sub-score (max 26)	Median (IQR)	12 (9.5, 14)	10 (6, 13)	0.112	9 (9, 10)	12 (11, 12)	0.089
ACE-III memory sub-score	Mean (SD)	11.9 (4.5)	9.9 (4.1)	0.13	9 (3.3)	12 (1.2)	0.054
RUDAS memory sub-score (max 8)	Median (IQR)	2 (0, 2)	0 (0, 0)	0.304	2 (1.5, 2.5)	0 (0, 0)	0.047
RUDAS memory sub-score	Mean (SD)	1.7 (2.0)	1.4 (2.8)	0.75	2.3 (2.0)	0.8 (2.1)	0.054
ACE-III attention sub-score (max 18)	Median (IQR)	13 (11, 14)	13 (11, 16)	0.730	13 (11, 13)	12 (11.5, 14)	0.815
ACE-III attention sub-score	Mean (SD)	12.5 (2.0)	12.9 (3.4)	0.67	11.9 (2.0)	13 (2.7)	0.55

Figure 1: Flowchart showing the finding of the DRD and AD subgroups.

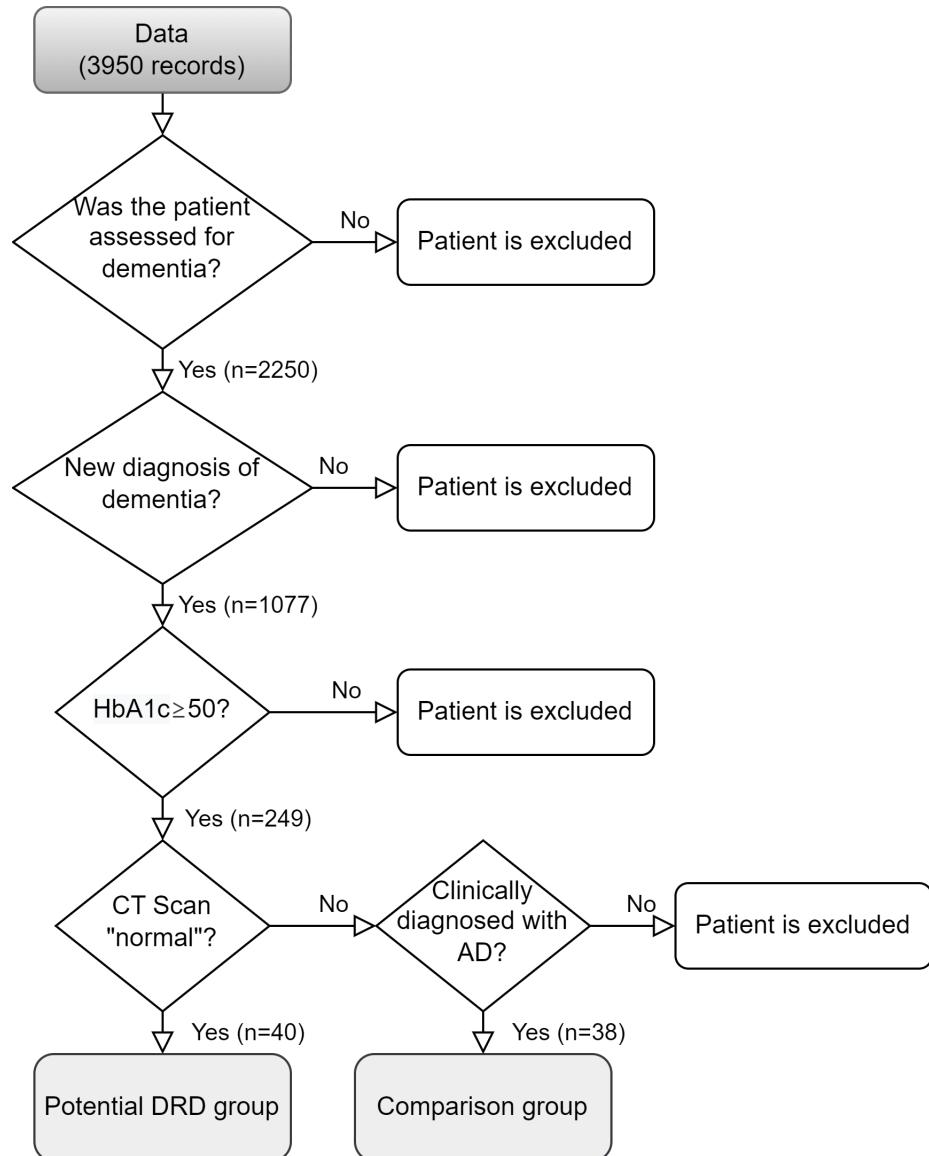
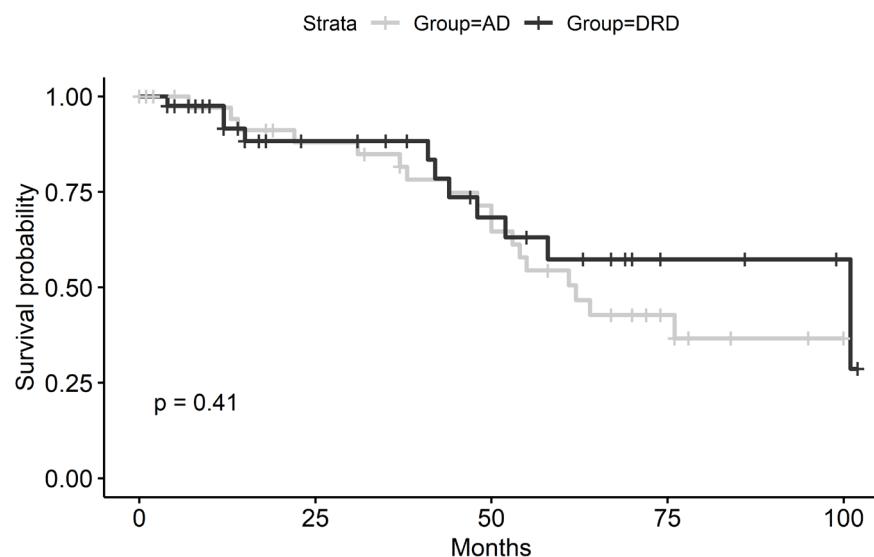


Figure 2: Kaplan–Meier plots for survival by DRD group and AD subgroup.

Whole group, all ethnicities (n=78).



Pacific subgroup (n=31).

