Supplementary Table S1: Summary of key demographic and clinical characteristics of personas developed during codesign process.

Name, Age,	Ethnicity,	Social	Medical	Biophysical	Cognition	Pathology/Imaging	Medications	Function	Prior surgery	TAD
Gender	preferred	characteristics	History	parameters						
	language									
Harold, 42yo,	First	Office manager,	Nil	BMI 29	No	Fasting Glucose 5.7	Glucosamine	Independent	ACL repair	Non-smoker,
Male	Nations,	lives with		BP 135/90	impairment		Fish oil	Active sports		No alcohol,
	English	female partner,		Pulse 88				player		No drug use
		two children		Resp 16						
Gina, 59yo,	Italian,	Teacher, lives	T2DM	BMI 30	No	HbA1c 6%	Meloxicam	Independent	Hysterectomy	Non-smoker,
Female	English	alone	Chronic	BP 124/80	impairment	eGFR >90	Empagliflozin	Frailty Score 3		1-2 standard
		(divorced), no	backpain	Pulse 72			+ Metformin	DASS 18.95		drinks/day
		children, carer	Recent	Resp 12			Amitriptyline			
		for mother	COVID-19							
Sam, 55yo,	Arabic,	Tradie, married,	IHD	BMI 30	No	Hb 102	Aspirin	Independent	Nil	Smoker, 30
Male	limited	4 kids, lives with	Bowel cancer	BP 140/80	impairment	Iron deficiency	Clopidogrel			pack years,
	English	extended family	Iron	Pulse 80		anaemia - low ferritin	Fish oil			20/day
			deficiency	Resp 16		and iron	Ramipril			5-6 standard
			anaemia			Albumin 30				drinks/week
Tim, 58yo,	Korean,	Chef, single,	T2DM	BMI 27	No	HbA1c 9.5%	Metformin	Independent	Hernia repair	Non-smoker,
Male	English	lives alone, no		BP 120/70	impairment		Dapagliflozin			5-6 standard
(transgender)		family in		Pulse 70						drinks/week
		Australia		Resp 14						
Margaret,	English	Retired, widow,	Atrial	BMI 19	No	CrCl 50 mL/min	Apixaban	Independent,	Hysterectomy	Ex-smoker,
80yo, Female		no children,	fibrillation	BP 110-909	impairment	HbA1c 0%	Furosemide	assistance	THR	independent
		lives alone with	T2DM	Pulse 90	Prior post-op	Mild anaemia	Metformin	with shopping	Cataracts	
		niece close by	Mild renal	Resp 15	delirium		Empagliflozin	Frailty Score 4		
			impairment				Insulin			
			Urinary				Metoprolol			
			incontinence				Oxybutynin			
	Gender Harold, 42yo, Male Gina, 59yo, Female Sam, 55yo, Male Tim, 58yo, Male (transgender)	Gender language Harold, 42yo, Male First Nations, English Gina, 59yo, English Sam, 55yo, Arabic, Ilmited English Tim, 58yo, Male (transgender) Korean, English Margaret, English	Gender language Characteristics Harold, 42yo, Male Nations, English female partner, two children Gina, 59yo, English alone (divorced), no children, carer for mother Sam, 55yo, Male limited English extended family Tim, 58yo, Male (transgender) Korean, English lives alone, no family in Australia Margaret, 80yo, Female Margaret, English Retired, widow, no children, lives alone with	Gender language Characteristics History Harold, 42yo, Male Nations, English Female partner, two children Gina, 59yo, English alone (divorced), no children, carer for mother COVID-19 Sam, 55yo, Male limited Akids, lives with English extended family Iron deficiency anaemia Tim, 58yo, Male English lives alone, no family in Australia Margaret, 80yo, Female Margaret, Boys alone with niece close by Mild renal impairment Urinary	Gender languagepreferred languagecharacteristics Prist MaleHistory Nations, EnglishHistory Pulse Pulse Pulse Pulse Pulse Pulse Pulse Pulse Resp Pulse<	Gender language preferred language characteristics History parameters Harold, 42yo, Male First Nations, English Office manager, Ives with female partner, two children Nil BMI 29 BP 135/90 impairment Gina, 59yo, Female Italian, English Teacher, lives alone (divorced), no children, carer for mother T2DM BMI 30 Dackpain Pulse 72 Recent COVID-19 No impairment Sam, 55yo, Male (Imited English 4 kids, lives with extended family extended family in Australia Iron Pulse 80 deficiency anaemia No BP 140/80 impairment Tim, 58yo, Male (Itransgender) Korean, Australia Chef, single, Ives alone, no family in Australia T2DM BMI 27 Resp 16 BMI 27 Resp 16 BMI 27 BP 120/70 impairment No BMI 27 BMI 27 BMI 27 BP 120/70 impairment Margaret, 80yo, Female Roy,	Gender language preferred language characteristics History parameters Image: Comparison of the part of	Gender language preferred language characteristics language History parameters No Fasting Glucose 5.7 Glucosamine Fish oil Harold, 42yo, Male First Nations, English lives with female partner, two children No BP 135/90 impairment Polse 88 Resp 16 Polse 88 Resp 16 Polse 88 Resp 16 No HbA1c 6% Meloxicam Empagliflozin + Metformin Amitriptyline Gina, 59yo, Female Arabic, Ilimited Tradie, married, Aids, lives with extended family Iron (transgender) HID BMI 30 Pl 40/80 impairment No Hb 102 Hb 102 impairment Aspirin Clopidogrel anaemia - low ferritin and iron Albumin 30 Tim, 58yo, Male (transgender) Korean, Chef, single, Iwes alone, no family in Australia T2DM BMI 27 Resp 14 No HbA1c 9.5% Metformin Apixaban Furosemide Metformin Insulin impairment Margaret, Boyo, Female English ince close by Retired, widow, no children, lives alone with niece close by Atrial impairment Urinary BMI 27 Pluse 90 Pluse 90 Prior post-op Mild anaemia Mild anaemia Apixaban Furosemide Metformin Insulin impairment	Harold, 42yo, Male Margaret, Benglish extended family Male Male English extended family Male Margaret, Barn, 58yo, Male English extended family Male English extended family Male English extended family Male English Male English extended family Male English Male English extended family Male English extended family Male English Male English Male English extended family Male (transgender) Male English Male (transgender) Male (transgend	Harold, 42yo, First Male Harold, 42yo, Find Harold, 42yo, Find Harold, 42yo, Harold, 42yo,

6	Mei, 85yo	Mandarin,	From nursing	Atrial	Weight 46 kg	Vascular	Hb 98	Apixaban	Dependent	Carotid	Non-smoker,
	Female	no English	home, son and	fibrillation	BP 145/90	dementia	Cr 120 / eGFR 28	Metformin	ADLs	endarterectomy	no alcohol
			daughter in-law	PPM	Pulse 80	(RUDAS		Sitagliptin	Mobilises with	NOF repair	
			support care	CCF	Resp 20	18/30)		Digoxin	walking frame		
				Hypertension		Son is		Simvastatin	Frailty Score 7		
				T2DM		medical		Telmisartan			
				Diabetic foot		decision-		Furosemide			
				ulcer		maker		Citalopram			
				Early				Vitamin D			
				vascular				Denosumab			
				dementia				injection			
				MCA stroke				Paracetamol			
				without							
				deficit							
7	Carl, 64yo,	English	IT consultant,	IHD	BMI 36.5	No	Cr 188 / eGFR 30	Insulin	Independent	TURP	Smoker,
	Male		single, lives	LHF EF 35%	BP 145/88	impairment	HbAc1 8%	Metformin	Frailty Score 4	Coronary stent	20/day, 6
			alone, rural	T2DM	Pulse 60			Aspirin		Cataracts	standard
			resident	TIA	Resp 14			Clopidogrel			drinks/day
				TURP for				Escitalopram			
				cancer				Amlodipine			
				Major				Ramipril			
				depression				Tamsulosin			
								Atorvastatin			
								Esomeprazole			
								PRN GTN			
								Fluticasone			
								propionate +			
								Salmeterol			
								inhaler			

TAD: Tobacco Alcohol and Disability; BMI: Body Mass Index; BP: Blood Pressure; ACL: Anterior Cruciate Ligament; T2DM: Type 2 Diabetes Mellitus; Hb: Haemoglobin; HbA1c: Glycated Haemoglobin; eGFR: estimated Glomerular Filtration Rate; DAS: Depression Anxiety Stress Scale; IHD: Ischaemic Heart Disease; CrCl: Creatinine Clearance; THR: Total Hip Replacement; PPM: Permanent Pacemaker; CCF: Congestive Cardiac Failure; MCA: Mid Cerebral Artery; RUDAS: Rowland Universal Dementia Assessment Scale; ADLs: Activities of Daily Living; NOF: Neck of Femur; LHF EF: Left Heart Failure Ejection Fraction; TIA: Transient Ischaemic Attack; TURP: Transurethral Resection of the Prostate; PRN GTN: Glyceryl Trinitrate 'as needed'.