Masterclass PCDS NI 2023 Frailty, Diabetes & Desprescribing



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- Marianne McKenna Clinical Pharmacist WHSCT



Disclosures

Within last 3 years have received honoraria for delivering or chairing education meetings from:

Novo Nordisk

Received payment for acting as tutor for QUB for advanced practice clinical pharmacy programmes.

Aims of session

Assessing frailty and Risk

When is it appropriate to stop and reduce treatments

Principles of deprescribing and follow up.

Frailty-Definition

'Frailty is a distinctive health state related to the aging process in which multiple body systems gradually lose their inbuilt reserves'

(British Geriatrics Society)

NB: Old does not equal frail



What else is involved?

- Polypharmacy
- Cognitive Impairment
- Depression
- Urinary Incontinence
- Injurious falls
- Chronic pain
- Co-morbidities





Weight loss

Exhaustion





Low gait speed

Low grip strength



Low physical activity

Diabetes & Frailty

- Frailty is increasingly recognised as a complication of diabetes (~40% >65 yrs with diabetes have frailty)
- Type 2 diabetes is associated with accelerated biological aging (~10yr difference in exercise performance)
- Population is aging which increases prevalence of diabetes (~40% PLWD >70yrs)
- Increasing age and diabetes are risk factors for functional decline and disability

MJ Davies et al. Management of hyperglycaemia in type 2 diabetes, 2022. A consensus report by the ADA and EASD. Diabetes Care 2022; 45(110:2753-2786 Sinclair A et al. Management of frailty and associated co-morbidities in older adults with diabetes. Position statement on behalf of the Association of British Clinical Diabetologists (ABCD)

Frailty – Assessment tools: Electronic Frailty Index eFI

- The eFI uses existing electronic health records and a 'cumulative deficit' model to measure frailty on the basis of the accumulation of a range of deficits.
- These deficits include clinical signs (e.g. tremor), symptoms (e.g. vision problems), diseases, disabilities and abnormal test values.
- Higher scores=higher likelihood of frailty = higher risk adverse outcome
- ▶ 0.24 > moderate 0.36> severe

NB requires clinical judgement

CLINICAL FRAILTY SCALE

*	1	VERY FIT	People who are robust, active, energetic and motivated. They tend to exercise regularly and are among the fittest for their age.
•	2	FIT	People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g., seasonally.
Ť	3	MANAGING Well	People whose medical problems are well controlled, even if occasionally symptomatic, but often are not regularly active beyond routine walking.
•	4	LIVING WITH Very Mild Frailty	Previously "vulnerable," this category marks early transition from complete independence. While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up" and/or being tired during the day.
	5	LIVING WITH MILD Frailty	People who often have more evident slowing, and need help with high order instrumental activities of daily living (finances, transportation, heavy housework). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation, medications and begins to restrict light housework.



SCORING FRAILTY IN PEOPLE WITH DEMENTIA

The degree of frailty generally corresponds to the degree of dementia. Common symptoms in mild dementia include forgetting the details of a recent event, though still remembering the event itself, repeating the same question/story and social withdrawal.

In moderate dementia, recent memory is very impaired, even though they seemingly can remember their past life events well. They can do personal care with prompting.

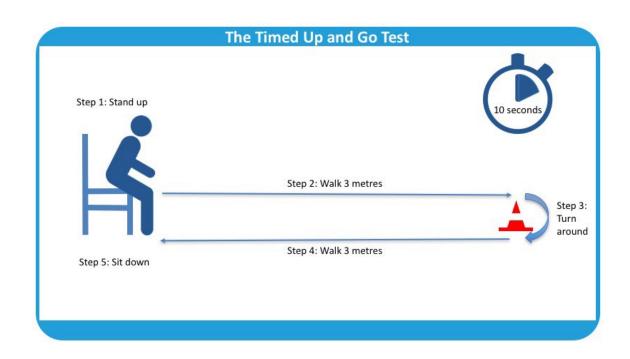
In severe dementia, they cannot do personal care without help.

In very severe dementia they are often bedfast. Many are virtually mute.



Clinical Frailty Scale ©2005–2020 Rockwood, Version 2.0 (EN). All rights reserved. For permission: www.geriatricmedicineresearch.ca Rockwood K et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:489–495.

Frailty Assessment tool: Timed Up and Go Test



- Times >14-20 seconds indicate increased risk of falls
- Other tools: Prisma 7, Gait Speed test, Sarc-F test









Informed by relevant NICE
recommendations

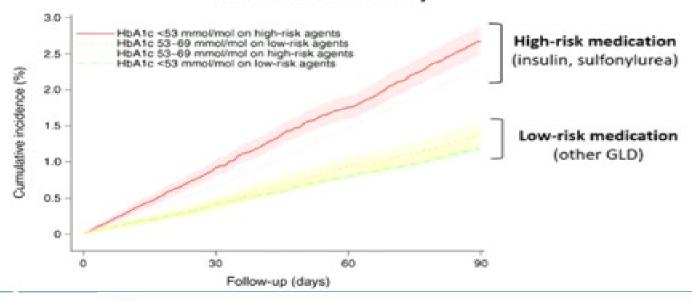
NICE National Institute for
Health and Care Excellence

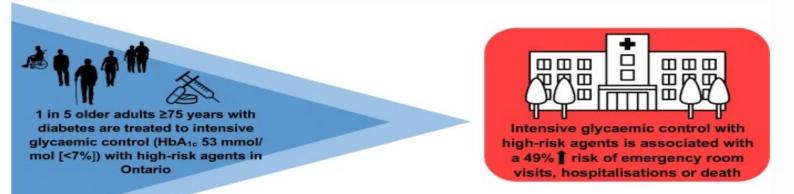
Diabetes & Frailty & Prescribing challenges

- Less benefits of tight glycaemic control but avoid hyperglycaemia.
- Increased risk of side-effects of treatments (hypoglycaemia, GI, urinary)
- Shorter life expectancy
- Increased co-morbidity (dementia, CKD)
- Self management may be a challenge
- Oral intake may decline, variable
- Most RCTs in younger populations
- Most prescribers not specialist in diabetes

Evidence of overtreatment

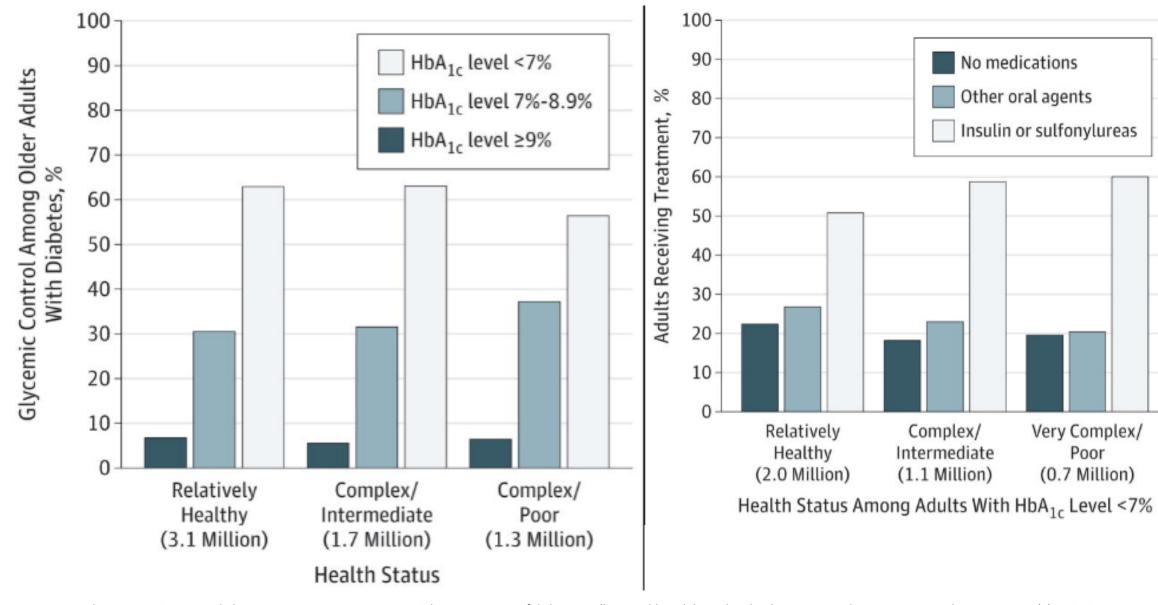
Cumulative incidence of diabetes-related ED-visits/hospitalisations and all-cause mortality





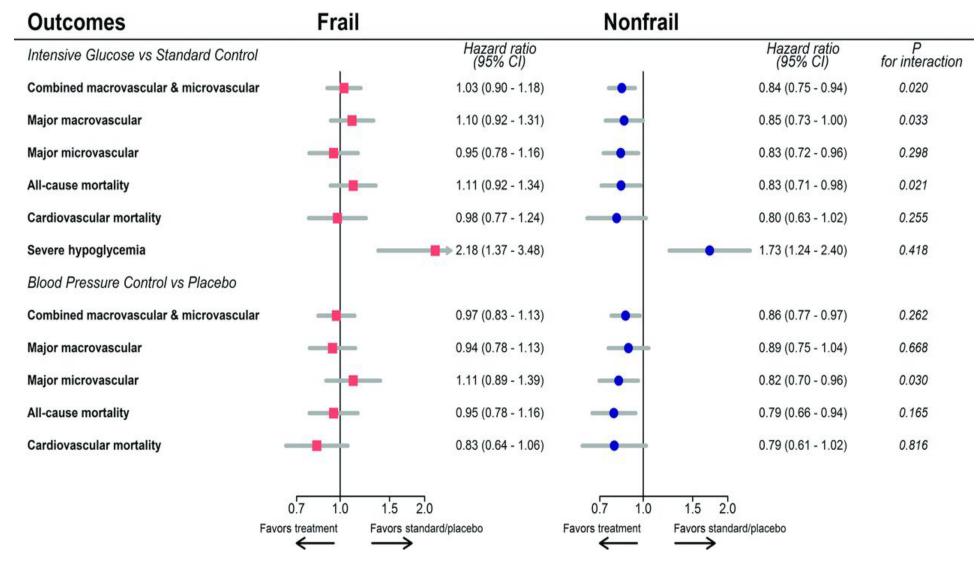
Lega, I.C., Campitelli, M.A., Austin, P.C. *et al.* Potential diabetes overtreatment and risk of adverse events among older adults in Ontario: a population-based study. *Diabetologia* **64**, 1093–1102 (2021). https://doi.org/10.1007/s00125-020-05370-7

Evidence of overtreatment



Lipska KJ, Ross JS, Miao Y, Shah ND, Lee SJ, Steinman MA. Potential overtreatment of diabetes mellitus in older adults with tight glycemic control. JAMA Intern Med. 2015 Mar;175(3):356-62. doi: 10.1001/jamainternmed.2014.7345. PMID: 25581565; PMCID: PMC4426991.

The Impact of Frailty on the Effectiveness and Safety of Intensive Glucose Control and Blood Pressure–Lowering Therapy for People With Type 2 Diabetes: Results From the ADVANCE Trial



Nguyen et al. Diabetes Care 2021;44(7):1622-1629

Hypoglycaemia

Common in older people, particularly dementia, CKD

Often under-reported

Reduced hormonal counter-regulatory responses

Increased neuroglycopaenia

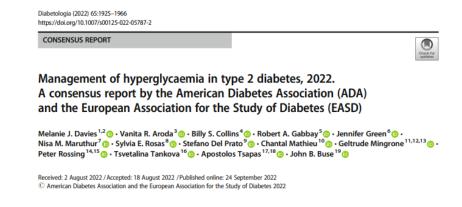
Consequences- falls, fractures, hospital admission, cardiovascular events, mortality, accelerated cognitive decline

Overall risk of hypoglycemia

Network meta-analysis comparing antihyperglycemic drugs as add-on to metformin



So what Guidance is available?





Diabetes and Frailty: An Expert Consensus Statement on the Management of Older Adults with Type 2 Diabetes

W. David Strain (b) · Su Down · Pam Brown · Amar Puttanna · Alan Sinclair

POSITION STATEMENT



Managing frailty and associated comorbidities in older adults with diabetes: Position Statement on behalf of the Association of British Clinical Diabetologists (ABCD)

ALAN SINCLAIR,1 ALISON GALLAGHER2



Inpatient Care of the Frail Older Adult with Diabetes
February 2023





▶ 1.1 Individualised care

- 1.1.1Adopt an individualised approach to diabetes care that is tailored to the needs and circumstances of adults with type 2 diabetes, taking into account their personal preferences, comorbidities and risks from polypharmacy, and their likelihood of benefiting from long-term interventions. Such an approach is especially important in the context of multimorbidity. [2015, amended 2022]
- 1.1.2Reassess the person's needs and circumstances at each review and think about whether to stop any medicines that are not effective. [2015]
- 1.1.3Take into account any disabilities, including visual impairment, when planning and delivering care for adults with type 2 diabetes. [2015]

CONSENSUS REPORT



Management of hyperglycaemia in type 2 diabetes, 2022. A consensus report by the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD)

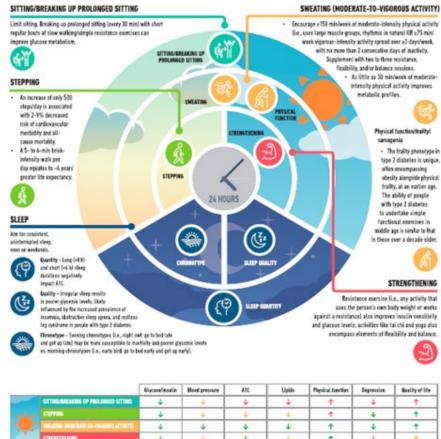
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Melanie J. Davies <sup>1,2</sup> • Vanita R. Aroda <sup>3</sup> • Billy S. Collins <sup>4</sup> • Robert A. Gabbay <sup>5</sup> • Jennifer Green <sup>6</sup> • Nisa M. Maruthur <sup>7</sup> • Sylvia E. Rosas <sup>8</sup> • Stefano Del Prato <sup>9</sup> • Chantal Mathieu <sup>10</sup> • Geltrude Mingrone <sup>11,12,13</sup> • Peter Rossing <sup>14,15</sup> • Tsvetalina Tankova <sup>16</sup> • Apostolos Tsapas <sup>17,18</sup> • John B. Buse <sup>19</sup> •
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- Medication choices for those who are frail or have multiple comorbidities may require modification for safety and tolerability
- Cardiovascular and renal benefits of GLP-1 agonists and SGLT2Is in patients >65 years are consistent with effects seen in overall population
- Recommendations for selection of medications to improve cardiovascular and renal outcomes in diabetes do not differ for older people

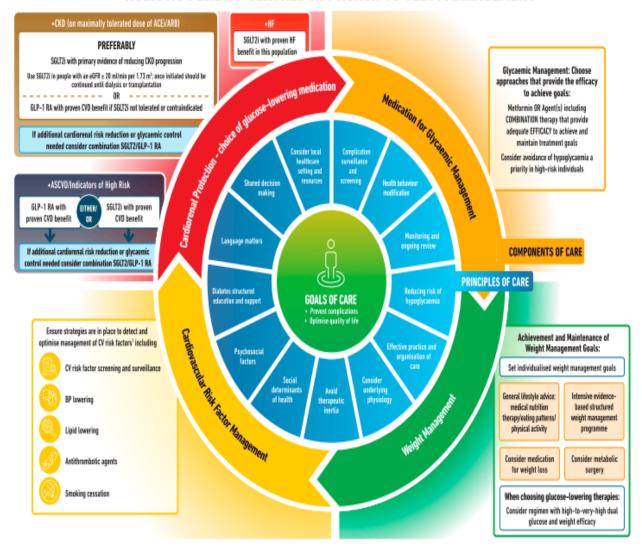
IMPORTANCE OF 24-HOUR PHYSICAL BEHAVIORS FOR TYPE 2 DIABETES



		Gaccoelinoulin	Blood pressure	ATC	Upids	Physical function	Degression	Quality of life
	SITTING-RELAXING UP PROX,DRIGED SITTING	4	4	+	4	+	+	4
	STEPPING	4	÷	+	4	•	+	4
	DECEMBER OF THE PROPERTY ACTIVITY	4	4	+	4	1	+	1
	STREMETHERINA	4	+	+	4	+	+	+
-	ADEQUATE SLEEP DURATION	4	4	+	+	•	4	+
الما	SCOR SLEEP BRALITY	+	4	+	+	0		1
	CHRONOTYPE/CONSISTENT TIMENS	4	0	4	0	0	4	0

IMPACT OF PHYSICAL BEHAVIORS ON CARDIOMETABOLIC HEALTH IN PEOPLE WITH TYPE 2 DIABETES

HOLISTIC PERSON-CENTRED APPROACH TO T2DM MANAGEMENT



[🕈] Higher levels/improvement (phosical function, quality of life): 🕹 Lower levels/improvement (plucosofinsulin, blood pressure, ATC, ligids, depression): 💿 no data available:

[🕆] Green arrows = strong evidence; 🕆 Tellow arrows = medium-strongth evidence; 🕆 Bed arrows = limited evidence

POSITION STATEMENT



Managing frailty and associated comorbidities in older adults with diabetes: Position Statement on behalf of the Association of British Clinical Diabetologists (ABCD)

ALAN SINCLAIR,1 ALISON GALLAGHER2

POSITION STATEMENT

Figure 1: ABCD Frailty Assessment Pathway in Diabetes (adapted from references 12 and 13)

Primary Care Assessments: Secondary care: Patient/carer-Usual/community follow-up: driven · Medical history/examination Clinical review reporting: Regular follow-up · Basic laboratory tests Fried Score (within 12 months) Mobility Clinical review Frail Score disturbance Encourage exercise 4m gait speed SPPB Onset of falls · Ensure adequate · Get up and go test Grip strength Weight loss nutrition · Electronic frailty index (eFI) 4m gait speed or similar test • Diagnosis of sarcopaenia (DXA scan) • Evaluate and/or exclude peripheral neuropathy (monafilament or vibration perception) • Structured history/ABPI with hand-held Abbreviations/key: Doppler ultrasound for PVD and referral ABPI - ankle brachial for further assessment if required pressure index eFI - Electronic frailty index DXA - dual energy X-ray absorptiometry Functional disturbance: PVD - peripheral vascular frailty identified disease SPPB - Short Physical Performance Battery Clinical interfaces - - -No acute illness; minor functional disturbance; no frailty Early Management Plan Agree a regular exercise plan that will prevent further weight loss and increase muscle mass

• Nutritional assessment and identify micronutrient and/or vitaman D deficiency

Set appropriate glucose and HbA_{1c} targets

POSITION STATEMENT

Table 1 Summary of glucose-lowering therapies in managing frail older adults with diabetes. Each class of agent can be used in frail people with diabetes but cautions are present. Numerous factors must be taken into account in prescribing a safe but effective glucose-lowering agent.

	HbA _{1c} reduction	Advantages	Disadvantages	Vignette in frail population
Metformin	1% (11 mmol/mol)	Low hypoglycaemia risk Low cost Well tolerated generally	Many contraindications in population with high comorbidity burden. May cause weight loss, GI upset in frail patients	Can be used until eGFR <30 mL/min Use with caution if previous episode of acute kidney injury Extended release formulation has lower complexity and fewer GI side effects Assess and replace vitamin B12
Sulfonylureas	1% (11 mmol/mol)	Low cost Established glucose-lowering medication Can be used in moderate to severe renal impairment	High risk of hypoglycaemia Avoid glibenclamide (glyburide)	Avoid in patients with inconsistent eating pattern such as in advanced dementia and malignancy High risk of hypoglycaemia during acute illness or weight loss Consider discontinuing if already receiving substantial amount of insulin (approximately >40 units/day) Have a high threshold for use with insulin in frail older adults
Meglitinides	0.4–0.9% (4.4–9.9 mmol/mol)	Shorter duration of action compared with sulfonylurea	Higher cost than sulfonylurea Increased regimen complexity due to multiple daily doses with meals	Can be withheld if patient refuses to eat any particular meal

TZDs, Pioglitazone	1% (11 mmol/mol)	Low hypoglycaemia risk Low cost Once a day dosing Can be used in moderate to severe renal impairment	Many contraindications in population with high comorbidity burden such as CHF, leg oedema, anaemia, fractures Use with caution in combination with insulin	Good efficacy in older patients with high insulin resistance
DPP-4 inhibitors	0.5–0.8% (6–9 mmol/mol)	Low hypoglycaemia risk Once a day oral medication Well tolerated Can be used in renal impairment but dose adjustment required (except linagliptin)	Medium/high cost HbA _{1c} reduction modest compared with other agents Potential risk of heart failure in at-risk individuals	Can be combined with basal insulin for a low complexity regimen
SGLT-2 inhibitors	0.8–1.0% (9–11 mmol/mol)	Low hypoglycaemia risk Reasonable efficacy Risk of other adverse effects moderate Diuretic, blood pressure-lowering effect	High cost Limited experience in older population but evidence increasing Low risk of diabetic ketoacidosis which may be euglycaemic and unrecognised	In frail adults, watch for increased urinary frequency, incontinence, lower BP, genital infections, dehydration; do not initiate if eGFR is <60 mL/min; dose reduction required in the presence of renal impairment Withhold SGLT-2 inhibitors at times of acute illness or major surgery
GLP-1 receptor agonists	0.8–1.0% (9–11 mmol/mol)	Low hypoglycaemia risk Once a day and once a week formulation New formulations available in combination with basal insulin	High cost Injectable GI side effects	Monitor for anorexia, weight loss; do not use in severe renal impairment (eGFR <30 mL/min); dose reduction needed in moderate impairment (except for liraglutide and dulaglutide) Once-weekly formulations may be helpful if carer support is necessary to deliver injectable therapy
Insulin	>1% (>11 mmol/mol)	No ceiling effect Many different types including high concentrated forms have variable serum half-life and can be used to target hyperglycaemia at different times of the day; can be used in renal impairment	High risk of hypoglycaemia Need for matching carbohydrate content in patients with variable appetite when using prandial insulin Carer education and training needed if involved in administration Blood glucose testing necessary adding to cost	Use of basal insulin with other agents to lower post-prandial glucose can lower complexity of management and reduce the risk of hypoglycaemia

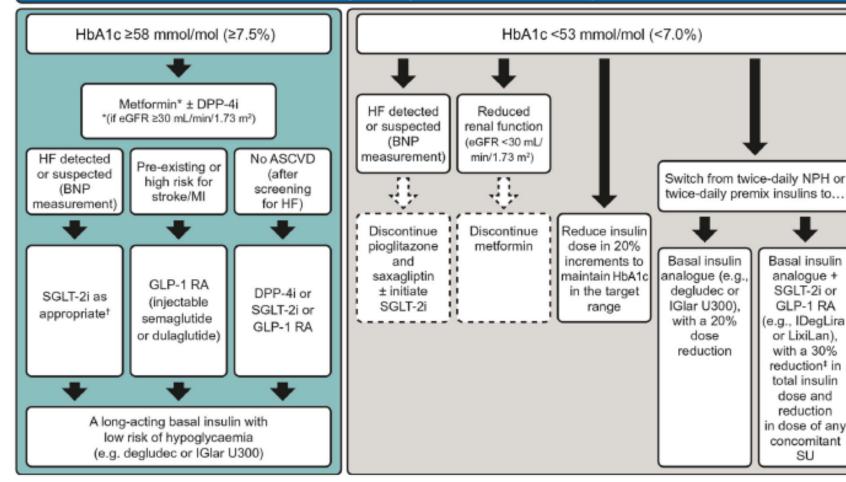
Glycaemic Targets

- Lack of evidence for glycaemic targets in older, frail adults
- Consider risk of hypoglycaemia
- HbA1C <53mmol/mol likely to indicate over-treatment in frail older people
- Glycaemic targets should be individualised, taking into account functional status and co-morbidities
- ABCD advise target range 53-64mmol/mol in mild/moderate frailty
 59-69 mmol/mol in severe frailty
- Caution in interpretation of HbA1C in presence of anaemia

Blood Pressure Targets

- Target BP for adults < 80 years <140/90 mmHg (NICE)
- Target BP for adults >80 years <150/90 mmHg (NICE)
- <150/90mmHg target in frail, dependent, older adults with diabetes (ABCD)
- Lying and standing BP where possible
- 'Start low and go slow'
- First line treatment in older adults ACEI
- Monitor renal function and electrolytes

Healthy/pre-frail/mild frailty Re-evaluate level of frailty annually and within 3 months of any intervention



Diabetes Ther (2021) 12:1227-1247 https://doi.org/10.1007/s13300-021-01035-9

REVIEW

Basal insulin analogue +

SGLT-2i or

GLP-1 RA

(e.g., IDegLira

or LixiLan),

with a 30%

reduction[‡] in total insulin dose and reduction

in dose of any

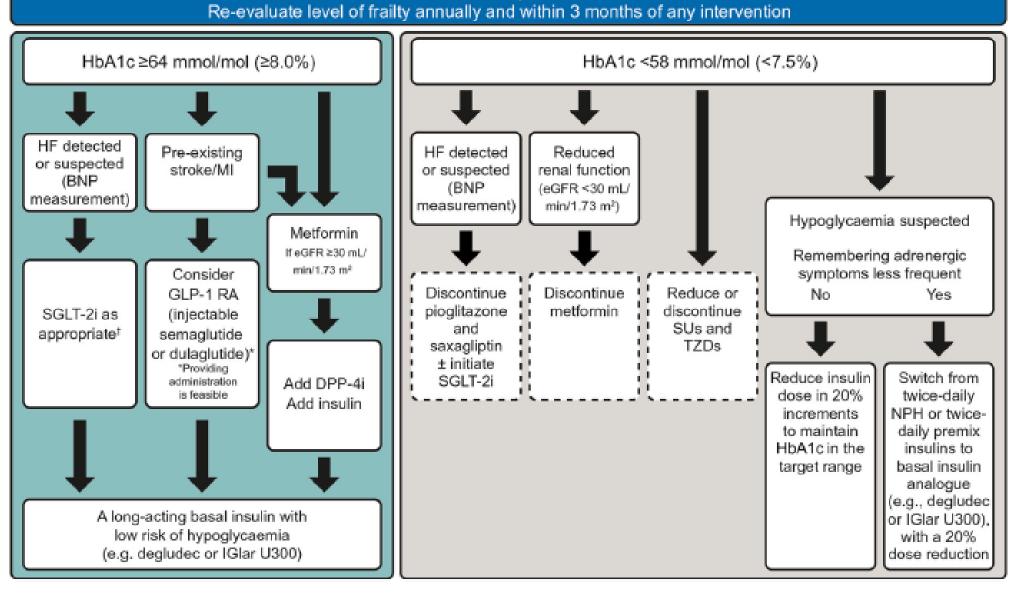
concomitant

SU

Diabetes and Frailty: An Expert Consensus Statement on the Management of Older Adults with Type 2 Diabetes

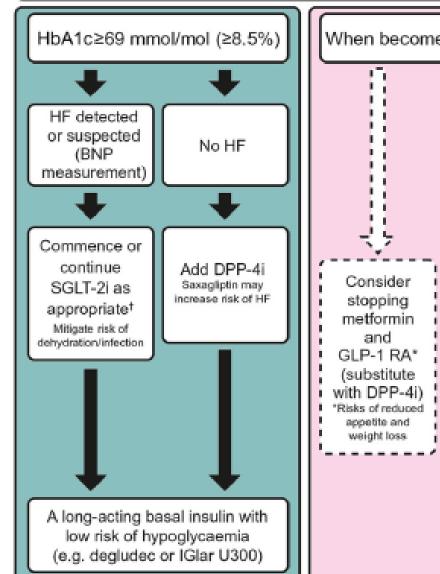
W. David Strain 6 · Su Down · Pam Brown · Amar Puttanna Alan Sinclair

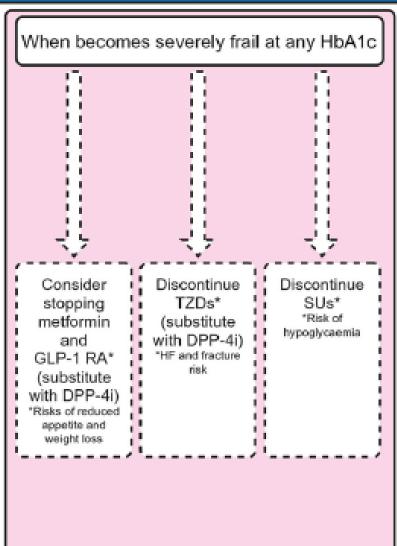
Moderately frail evaluate level of frailty appually and within 3 months of

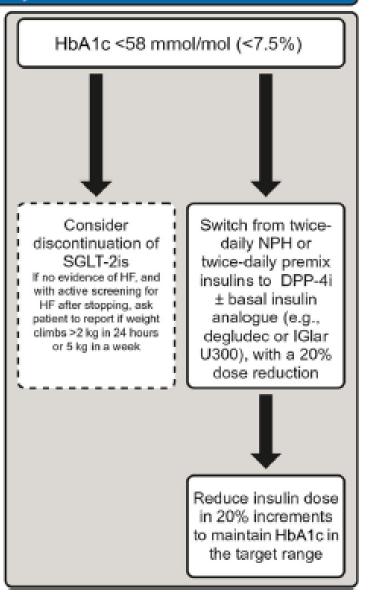


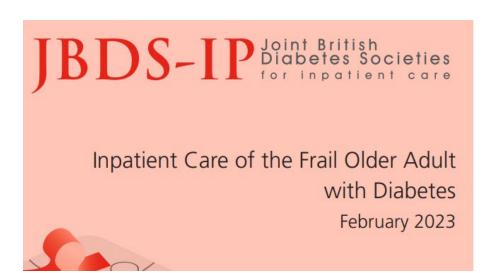
Severely frail

Re-evaluate level of frailty annually and within 3 months of any intervention









Glycaemic targets should **not** be the only priority Greater focus on:

- Risk of hypoglycaemia
- Falls
- Quality of life

Align inpatient glycaemic targets with frailty category e.g. Rockwood Clinical Frailty Scale



Guideline for the Review of Diabetes Medicines for Inpatients with Type 2 Diabetes and Frailty

March 2023

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Table 1: Review of diabetes medicines for inpatients with Type 2 diabetes and frailty, according to Clinical Frailty Scale (CFS)

		gested glycaemic goals gets should be individualised		Recommended actions for Type 2 diabetes medicines Examples of groups of medicines: sulphonylureas – gliclazide; SGLT2-inhibitors – dapagliflozin;	Blood pressure target (mmHg)	Lipids
<u>INK</u>		HbA1c (mmol/mol)	CBG (mmol/L)	DPP-4 inhibitors – linagliptin; GLP1RAs: liraglutide		
	n to fr	ailty, also con		f hypoglycaemia, falls, and cognitive decline including delirium, muscle loss (sarcopenia), overall treatr	nent burden and imp	act on Qo
-4 t older		≤58 Target	6-10 Target	As per NICE guidelines		
dults		≤53 Prompt for de-escalation	6-12 Acceptable			
	》	≤64 Target	7.8-10 Target	General	150/90	
nild railty	mmol/L	<70 CKD	7.0 To Target	Review timing of administration of diabetes medicines in relation to timing of meals and snacks Measure HbA1c on admission if no value available for within last 6 months	for hypertension	enefits will be realised in remaining . Benefits from trials were generally Resources include Polypharmacy
B)	>15	≤58 Prompt for de-escalation	6-12 Acceptable	Avoid initiating agents that may cause hypoglycaemia (e.g. sulfonylureas) Check whether the agent is contraindicated in impaired renal function e.g. metformin:	Reduce or stop anti-	rem
(and	ioi de-escalation	· · · · · · · · · · · · · · · · · · ·	eGFR < 30ml/min - contraindicated; eGFR 30-44ml/min, maximum daily dose 1000mg	hypertensives as	din
oderate	4 ar			Metformin First-line agent; benefits seen even at low dose and/or once daily	appropriate to avoid	alise als
ailty	7			Consider slow release preparation if nausea, diarrhoea or appetite suppression experienced	hypotension	l be realise from trials
	Se			Sulfonylureas and short-acting insulins Evaluate long-acting sulfonylureas and short-acting insulin therapy that may cause hypoglycaemia	(NB consider if for indications	fror i
	alucose			Reduce or discontinue sulfonylureas if HbA1c below de-escalation threshold	other than hyper-	whether benefits will be wit frailty. Benefits from
	g			SGLT2-inhibitors Clarify indication/s. May provide additional benefit in heart failure and CKD.	tension e.g. HF)	Ben
	poold			Care in hypovolaemia, hypotension, infection/candidiasis – consider holding, especially for surgery;		- F e
	걸	-70	7.5.40	check ketones if acutely unwell	4	wrt frailty.
vere	9	<70 Target	7.5-12 Target	As for CFS 5 and 6 plus: For short-acting insulins, once acute illness resolved: T2DM only – discuss with MDT consider		Consider wheth time-span wrt f
ailty	8	≤64 Prompt		switch to alternative insulin or stopping insulin if only on a small dose		pan
al	Y,	for de-escalation	6-12 Acceptable	Consider a DPP-4 inhibitors if new or alternative therapy needed Avoid SGLT2-inhibitors for T2DM – NB. consider whether using/needed for other indication/s		Consider time-spar
ABILY	S			Use of SGLT2-inhibitors (for T2DM) and GLP1RAs limited		ု မိုးမို့
	Strictly AVOID			As for CFS 7 but also:	Avoid	Stop lip
ry vere		No measurem	ent of Hb∆1c	Withdraw sulfonylureas Consider End of Life diabetes care	hypotension	lowering
ilty		Avoid hypogly		Contract Life of Life diabeted out		aiciap
-						
- "	Term	inally ill Cons	sult End of Life	specialists and guidance, including Diabetes at EOL Guidelines - All Documents (n-i.nhs.uk)	1	_

Recommendations are for Type 2 diabetes. In Type 1 diabetes, always maintain background insulin. Only stop in End of Life care and progressing to active dying.

De-escalation of treatment and targets

- Loosening of blood glucose control targets and other measures to reduce burden of diabetes treatment and monitoring
- De-prescribing
- Part of routine diabetes care
- Individualised
- Shared decisions with patient, carers, family

When to consider de-escalation, deprescribing?

- HbA1C <53 mmol/mol</p>
- Previous severe hypoglycaemia
- Multiple co-morbidities
- Short life expectancy
- Low functional status
- Recurrent falls

Adverse effects of medications

- Burdensome over-monitoring
- Patient goals, preference

Plan

- Identify the problems
- Determine patients goals for diabetes care
- Identify if the patient is suitable for deintensification of treatment

- Discuss de-prescribing
 Risks of current treatment, treatment targets
 Present options
 - Shared decision making

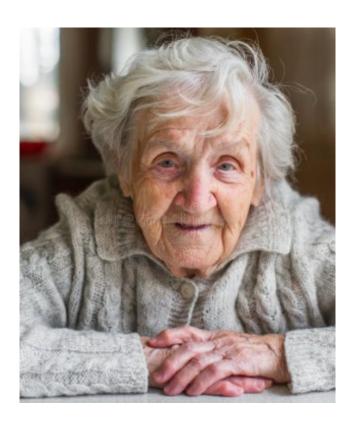
Plan

- Stopping or reduced dose of medication
- Start with drug most likely to cause harm or side-effects
- Consider switching to medication with lower risk or harm
- Consider simplification of insulin regimen(if using)
- Step-wise approach
- Check HbA1C after a few months

Case

- ▶ 75 year old man
- Type 2 diabetes, diagnosed 26 years ago
- Widowed, lives alone, non-driver
- Mobile short distances, lives independently (CFS~4) mild frailty
- PMH IHD (STEMI, CABG), impaired LV function, CVA, carotid endarterectomy, PVD
- Medications- metformin 500mg bd, gliclazide 40mg bd, atorvastatin 40mg daily, Entresto, nebivolol, clopidogrel, furosemide 20mg daily, spironolactone 12.5 mg daily, dapagliflozin 10mg daily
- CBGs 5-6 mmol/L, no hypo symptoms
- HbA1C 45, eGFR 52, ACR 5, BP 104/66 mmHg 90kg

Case study: Margaret



- Age: 88
- Admitted via ED
- Fall c/o pain L shoulder; unsure if hit head
- AKI
- (+ vulvo-vaginal candidiasis)
- Fourth admission in 12 months, (falls, UTI)
- Med Hx: T2DM, HTN, recurrent UTIs, slow AF, CKD 3
- POC x 2. CFS 5-6 lives with husband who has dementia.

Other clinical parameters

- Baseline SrCr: 81 micromol/L
- Current SrCr: 139 micromol/L
- Baseline eGFR: 55-59 mL/min
- K: 3.6 mmol/L
- Na: 138 mmol/L
- Urea: 10.1 mmol/L

- Weight: 55kg
- **BG: 5-6** mmol/L
- HbA1c: 36 mmol/mol
- Last 24 hours **SBP: 90-100** mmHg
- Last 24 hours DBP: 54-60 mmHg

Pre-admission medicines

- Adcal D3 caplets two tabs twice daily
- Apixaban 2.5mg BD
- Amlodipine 5mg daily
- Dapagliflozin 10mg daily
- Metformin 1g twice daily breakfast and evening meal

 Allergies and intolerances: beta-blockers (fatigue) and Ace-Inhibitors (cough)

Medicines for discharge

- Stop amlodipine
- Complete course clotrimazole cream
- Prn paracetamol
- Restart metformin? Dose?
- Restart Dapagliflozin?

Follow-up

- Repeat HbA1c in 3-6 months
- Check BP 1-2 weeks
- Communicate target/s

Case Study 2 : Derek Background

 75 year old male BIBA to ED 09.03.23 referred by GP with unstable blood glucose, urinary retention and safeguarding concerns

Past Medical History

- T2DM on Novomix 30 10 units daily plus Metformin 1g BD
- (incorrectly clerked as T1DM)
- Depression
- Osteoarthritis RH
- Renal Stones

Social History

- Lives alone in an isolated rural bungalow, no POC, sisters visit 4-5 times daily providing ADLs
- Reduced mobility since December 22
- Declining social services input

Relevant Drug History

 Metformin 1g BD Tamsulosin, Diazepam 6mg BD, Duloxetine, Pyridoxine, Salbutamol MDI, Aspirin, Simvastatin, Irbesartan, Novomix 30 10 units Mane, lansoprazole, Temazepam, Clomipramine

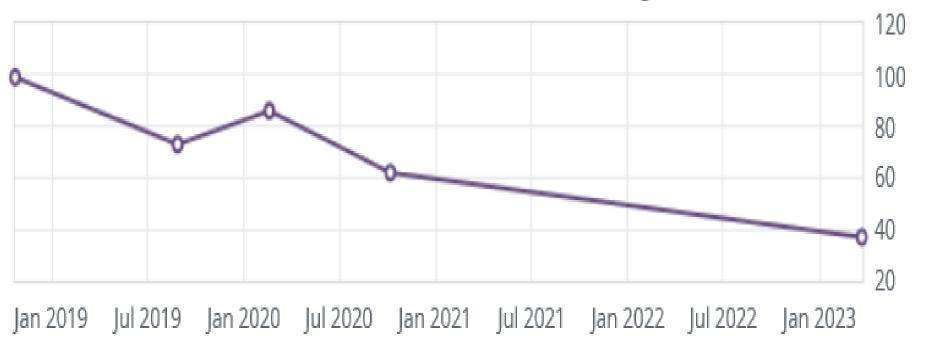
On Review

- Off functional baseline
- RCFS (1-9) = 7 (severe frailty, dependent on personal care, stable seems stable and not at risk of dying within ~6 months)
- Evidence of urinary retention- catheterised
- Low folate, B12, vitamin D, Hb 96, hba1c 37.

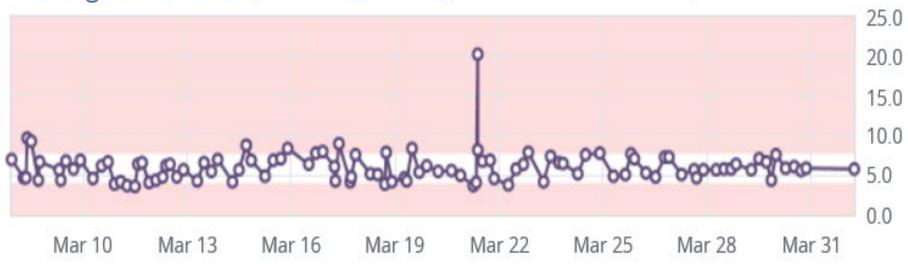
Outcome

- Spent 3 weeks in hospital gradually mobilising
- Initial hypoglycaemia followed by normal blood glucose levels once all diabetes agents stopped
- CTMA 31.03.23 discharged on nil diabetes meds.
- MDT review 26.04.23

HbA1c levl - IFCC standardised (mmol/mol) § showing from 22-Oct-2018 to 22-Mar-2023



Blood glucose level (mmol/L) Showing from 07-Mar-2023 to 01-Apr-2023



Any thoughts?

- Risks going forward?
- How to review?
- Any other suggestions re care or Rx?

Summary

Frailty is common in older people with diabetes

Identification of frailty is important in management in older people with diabetes

Older, frail adults with diabetes are less likely to benefit from intensive diabetes treatment

Hypoglycaemia is a particular risk for older frail adults

Individualise care and treatment targets

Emphasis on patient safety

Thank you!