

Insulin Administration and Blood Glucose Monitoring Record for Adults in Care Homes (Nursing and Residential)



Patient Name and Date of Birth:

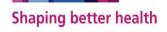
Type of Diabetes:

<u>Blood Glucose Target</u> (It will be different for each individual, see diabetes and frailty guidelines for more information):

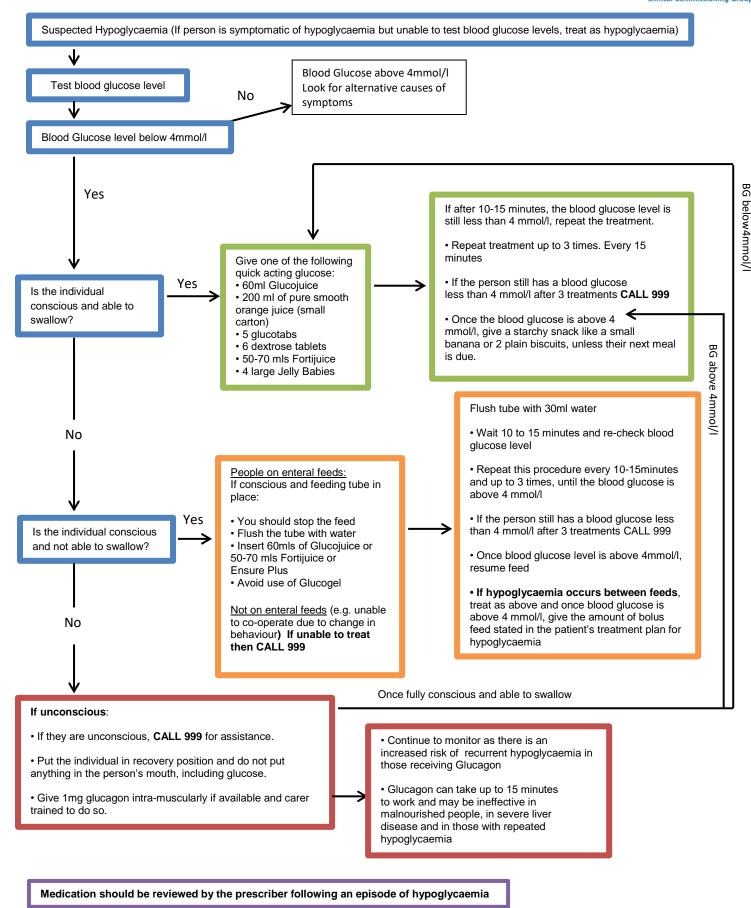
Please always refer to the patient's individual diabetes treatment plan if available. The information contained in this document is only intended for patients who do not have an individual treatment plan in place.

If your resident is admitted to hospital please send a copy of the document with them to hospital.

Author and Job Title: Raquel Iniesta, Medicines Optimisation Pharmacist Date approved: 16th September 2019, BNSSG Area Prescribing & Medicines Optimisation Committee Review: September 2021



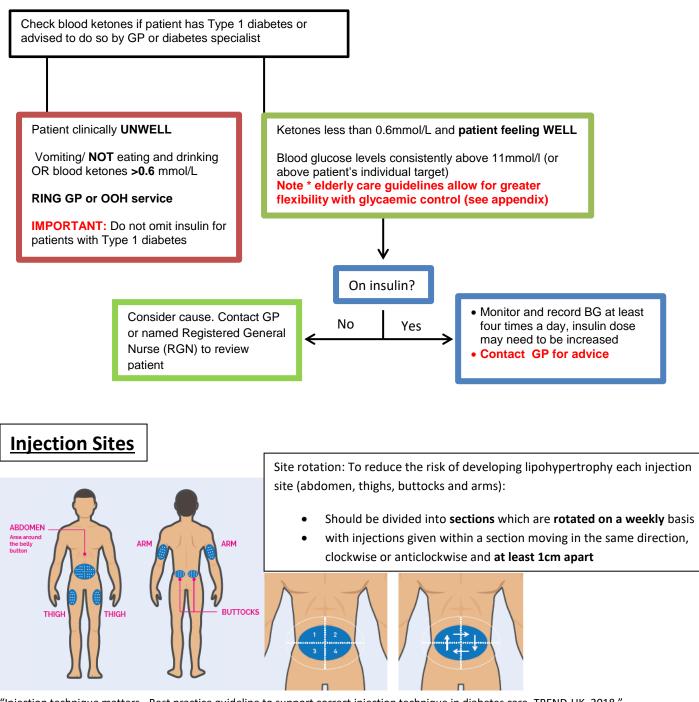
Hypoglycaemia treatment flowchart:



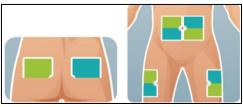
Adjusted from "Hypoglycaemia in adults in the community: recognition, management and prevention". TREND-UK. 2018

Hyperglycaemia Flowchart (see Appendix for additional information for prescribers):

- If patient is unwell and blood glucose is frequently above target range, inform GP as review will be required.
- Consider the cause; consider concurrent illness, missed/incorrect oral hypoglycaemic agents or insulin, dietary changes



"Injection technique matters - Best practice guideline to support correct injection technique in diabetes care. TREND-UK. 2018."



"The UK Injection Technique recommendations 3rd Edition. Forum for Injection Technique UK(FIT UK). September 2015."

In underweight individuals (BMI<18.5) consider if skin lift required for injection.

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NILIC

Indicate the readings on the colour zones with 'x'

F

Rar	nge (mmol/L)	Action to be taken	Target Range of Blood Glucose level for this patient if different from
	≥ 16.0	Hyperglycaemia; seek advice; may indicate infection. Sick day rules? Urine/blood ketones test required?	above
	10.1 –15.9	Sub-optimal; check food and fluid intake	
	4.1-10.0	Normal: If BG readings 4 to 5 mmol/L regularly, treatment may need review	mmol/L tommol/L
	≤ 4.0	Hypoglycaemia; ask for review if this occurs regularly or a trend develops. See page 9	
			Nurse' Signature: Date

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			Nurse' Signature: Date

Patient Name: _____DOB: _____ Insulin Administration Record

	ulin N Ind nam									Time of new cartridge star	ted	Batch numbe	r	Expiry Dat	te
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as	appro	priate)			•	•									
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(ple	ease c	ircle)							-						
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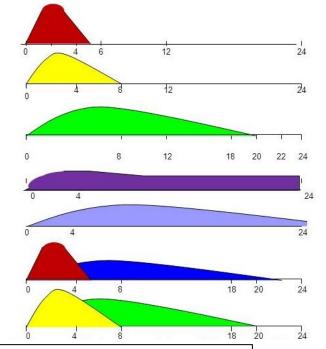
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Patient Name: _____DOB: _____DOB: _____

	ulin N	lame:								Time of new cartridge star	ted	Batch numbe	r	Expiry Dat	te
		cross out priate)	Pen & Cartridg	e / Disposa	ble pen /	Vial									
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(pl	ease c	sircle)	Rapid/Interme	diate Mixtur	e Sh	ort/Interm	ediate Mix	xture							
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	Breakfast	Site													
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	Lunch	Units													
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e: Su	eal	Units													
Rout	N gu	Site													
	Evening Meal	Time/ Signature													
	me	Units													
	Bedtime	Site													
		Time/ Signature													



INSULIN ACTIONS AND PROFILES



RAPID-ACTING ANALOGUE e.g. Humalog*, Novorapid, Apidra, Lispro Sanofi

SHORT-ACTING (SOLUBLE) e. g. Humulin S, Actrapid, Insuman Rapid

INTERMEDIATE ACTING (ISOPHANE) e.g. Insulatard, Humulin I, Insuman Basal

ULTRA-LONG ACTING ANALOGUE e.g. Degludec*

LONG-ACTING ANALOGUE e.g. Lantus, Levemir, Semglee, Abasaglar, Toujeo*

RAPID ACTING ANALOGUE – INTERMEDIATE MIXTURE

e.g. Humalog Mix 25, Humalog Mix50 or Novomix 30

SHORT ACTING ANALOGUE – INTERMEDIATE MIXTURE

e.g. Humulin M3, Insuman Comb 15,25, 50

*<u>Important</u> Degludec & Humalog are available in strengths of 100 units/ml and 200 units/ml and Toujeo is only available in 300 units/ml strength, ensure correct strength is prescribed

TIME OF SUBCUTANEOUS INSUL	IN INJECTION IN RELATION TO FOOD INTAKE
Rapid-Acting analogue	Immediately before, with or after a meal containing carbohydrates (based on individual treatment plan)
Short-Acting (Soluble)	20 – 30 minutes before a meal containing carbohydrates
Intermediate Acting (Isophane)	Give at regular time of day
Long Acting Analogue	Once or twice daily. Give at regular times of day
Ultra-Long Acting	Once daily (at a similar time each day where possible or as prescribed)
Rapid Acting Analogue-	Immediately before, with or after breakfast and evening meal (Based on individual treatment plan) (additional
Intermediate Mixture	lunchtime dose may be recommended in some patients)
Short Acting-Intermediate	20 – 30 min before breakfast and evening meal
Mixture	

APPENDIX – Additional information for prescribers.

• Hyperglycaemia:

IF THE PERSON IS UNWELL WITH AN ILLNESS OR INFECTION the Insulin dose may need to be increased:

(Always follow patient's individual treatment plan for illness if available)

- 11.1 to 17 mmol/L-- Add 2 extra units to each dose
- 17.1 to 22 mmol/L-- Add 4 extra units to each dose
- Over 22 mmol/L-- Add 6 extra units to each dose

If taking more than 50 units in total daily, double the adjustments. All adjustments are incremental and should be reduced gradually as the illness subsides.

Contact diabetes specialist nurse for advice if unsure about adjusting insulin doses

If patients with diabetes become ill and are unable to maintain adequate fluid intake, they may need to **stop** the following medications until they recover and eat/drink normal:

- S- Sulfonylureas
- A- ACE inhibitors (e.g. ramipril, enalapril, lisinopril)
- D- Diuretics (e.g. furosemide, bendroflumethiazide)
- M- Metformin
- A- ARBs (e.g. losartan, valsartan, candesartan)
- N- NSAIDs (e.g. ibuprofen, naproxen, diclofenac)
- S- SGLT-2 inhibitors (e.g. canagliflozin, dapagliflozin, empagliflozin)
- GLP-1 receptor agonists (e.g. exenatide, liraglutide, lixisenatide, dulaalutide)