

Hypoglycemia for Long-term Care 10.3.7PR



Procedures are a series of required steps to complete a task, activity or action

Purpose:	 Hypoglycemia (low blood glucose) with diabetes can be a serious and underestimated clinical problem that has significant morbidity and mortality. 					
	More specifically the older persons with diabetes:					
	 May have fewer symptoms of hypoglycemia 					
	 May experience more severe and prolonged episodes, that can precipitate a cardiovascular event 					
	 Are frequently on multiple medications and/or have kidney or liver impairment which may lead to impaired breakdown of medications 					
	It is important to prevent, recognize, and treat hypoglycemic episodes promptly					
	and to raise the blood glucose to a safe level greater than 5 mmol/L.					
Scope:	RN/RPN/LPN/Dietitian/Physician					
·	Long-term Care, Island Wide					
Outcomes:	 Hypoglycemic episodes (low blood glucose) will be prevented and/or recognized and treated promptly. 					
	The blood glucose will be raised to a safe level in order to avoid acute complications of					
	hypoglycemia.					

1.0 Equipment

- Bedside Blood Glucose Monitoring (BBGM)
- Glucose monitoring strips
- Carbohydrate

2.0 Procedure

Steps	Rationale/Key Points
 If Bedside Blood Glucose Monitoring (BBGM) is less than 5 mmol/L initiates hypoglycemia guideline (see below) and notify physician (URGENT). If Bedside Blood Glucose Monitoring (BBGM) is less than 5 mmol/L and resident is able to ingest: Give oral ingestion of 15g carbohydrate (CHO) Wait 15 minutes and retest Blood Glucose. 	Examples of 15g of carbohydrate (CHO) for treatment of hypoglycemia include: • 3 teaspoons (15 ml) or 3 packets of table sugar dissolved in water • 3/4cup (175 ml) juice or regular soft drink • 1 packet (15 ml) honey or jam • 6 life savers (1 = 2.5g CHO) • 15g glucose in the form of glucose tablets • 15g glucose in the form of glucose gel
If Bedside Blood Glucose Monitoring (BBMG) is	

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 less than 5 mmol/L re-treat with 15g CHO, wait 15 minutes and retest Blood Glucose. Continue to treat/test until Bedside Blood Glucose 	
Monitoring (BBGM) is greater than 5 mmol/L.	Example of snack:
If a meal is more than 30 minutes away, a snack	1 slice bread and 1 oz (30g) cheese or
containing CHO and protein should be provided.	meat
 If Bedside Blood Glucose Monitoring (BBGM) is less than 5 mmol/L and resident is unable to ingest but is conscious: Give 1 mg glucagon (intramuscularly). Wait 10 minutes and retest Bedside Blood Glucose Monitoring (BBGM). If Bedside Blood Glucose Monitoring is less than 5 mmol/L give 1 mg glucagon (intramuscularly). 	
Notify physician.	
 If Bedside Blood Glucose Monitoring (BBGM) is less or equal to 5 mmol/L and resident is unconscious: 	
Give 1 mg glucagon (intramuscularly).	
Wait 10 minutes and retest Bedside Blood Glucose	
Monitoring (BBGM) is less than 5mmol/L give 1 mg glucagon (intramuscularly).	
Notify physician.	
If physician is not available, calling 11 and transfer to Emergency if resident is unconscious or unresponsive.	
 Notify family of the event and outcomes. 	
Documentation:	
 Resident Health Record and Blood Glucose form. 	
 In Electronic Health Record (EHR) in 	
Interactive I&O (Quick View)	
Review/Update Plan of Care as required.	
In EHR: Interdisciplinary Plan of Care (IPOC)	
Following a hypoglycemic event:	Update Plan of Care if new interventions are
 Assess factors that may have contributed to the hypoglycemia such as inadequate carbohydrate (CHO) intake at meals/snacks or change in physical activity. Consult with dietician. Review with physician/pharmacist the 	necessary to prevent future occurrences.
antihyperglycemic medication and adjust treatment if needed.	

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3.0 Definitions

- **Hypoglycemia:** A blood glucose reading less than 4 mmol/L with symptoms (e.g. trembling, sweating, palpitations, nausea, hunger, confusion, drowsiness, weakness. Difficulty speaking and headache.
- Hypoglycemia specific to an older population: Blood glucose reading less than 5 mmol/L.

4.0 References

• Link to Glucose Meters Learning Hub: https://intranet.viha.ca/departments/laboratory_services/poct/Pages/glucosemeters.aspx

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