## Self-Monitoring Blood Glucose (SMBG)

## Frequency & Pattern Tool

http://quidelines.diabetes.ca/bloodglucoselowering/smbqcalculator

## **Pattern Recommendation:**

## **Insulin pump**

Typically given as a rapid-acting analogue (bolus) before each meal and a continuous rapid-acting insulin analogue throughout the day and night.

SMBG at least as often as insulin is being given.

- After meal testing is usually done 2 hours after the start of a meal.
- SMBG should be QID, pre-meal and bedtime in order to assess previous dose and to adjust next dose. Some patients find post-prandial checking can also be helpful.
- For people with type 2 diabetes, insulin pump therapy may be given in combination with non-secretagogue or injectable (GLP-1 analogue) medications.
- · Insulin pump therapy would not typically be used in combination with secretagogue medications.

	breakfast		lunch		supper		b o dtime :	uni sele t
	before	after	before	after	before	after	bedtime	night
Insulin	rapid (bolus)		rapid (bolus)		rapid (bolus)			
	rapid (basal)							
SMBG pattern 1: Starting or Stable	SMBG test		SMBG test		SMBG test		SMBG test	
SMBG pattern 2: Stable Focus on post-meal BG	SMBG test	SMBG test		SMBG test		SMBG test		
SMBG pattern 3: Intensive management	SMBG test	SMBG test	SMBG test	SMBG test	SMBG test	SMBG test	SMBG test	SMBG test
Adjustment	Basal insulin (night) ↑ if BG hi ↓ if BG low	Pre-breakfast bolus insulin ↑ if BG hi ↓ if BG low		Pre-lunch bolus insulin ↑ if BG hi ↓ if BG low or adjust basal insulin (day)		Pre-supper bolus insulin ↑ if BG hi ↓ if BG low		Basal insulin (night) ↓ if BG low