

Insulin Order & Prescription Form

For Type 2 Diabetes Management

Refer immediately to endocrinology if client is pregnant, planning pregnancy or has T1DM

Patient Name: _____

Patient D.O.B. (m/d/y): _____

	Step 1: Choose Insulin Type to be administered subcutaneously	Step 2: Enter Starting Dose	Step 3: Enter Titration/Adjustment Instructions (Authorization) Amount to adjust dose by[units] and CBG target to adjust to [mmol/L]
BASAL	<p>Long-acting analogues (clear)</p> <input type="checkbox"/> Basaglar™ <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Lantus® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Levemir® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Tresiba® <input type="checkbox"/> U100 <input type="checkbox"/> U200 <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Toujeo™ <input type="checkbox"/> SoloSTAR <input type="checkbox"/> DoubleSTAR <input type="checkbox"/> Prefilled pen <p>Intermediate acting (cloudy)</p> <input type="checkbox"/> Humulin® N <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial	<p>Once daily dosing:</p> <p>____ units at bedtime</p> <p>____ units at: _____</p> <p>Twice daily dosing:</p> <p>____ units at: _____</p> <p>____ units at: _____</p>	<p>†Adjust dose: <input type="checkbox"/> 1 unit every 1 or more days OR <input type="checkbox"/> up to ____ units every ____ or more days</p> <p>For evening dosing adjust until Fasting CBG is between: <input type="checkbox"/> 4.0–7.0 mmol/L OR <input type="checkbox"/> ____–____ mmol/L</p> <p>OR</p> <p>For morning dosing adjust until ac Dinner CBG is between: <input type="checkbox"/> 4.0–7.0 mmol/L OR <input type="checkbox"/> ____–____ mmol/L</p>
BOLUS	<p>Rapid-acting analogues (clear) Take 0-10 min before meal</p> <input type="checkbox"/> Admelog® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Apidra® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Fiasp® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Humalog® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Humalog® 200 units/ml <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Novorapid® <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Trurapi™ <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <p>Short-acting (clear) Take 30 min before meal</p> <input type="checkbox"/> Humulin® R <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Novolin®ge Toronto <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial	<p>ac Breakfast:</p> <p>____ units</p> <p>ac Lunch:</p> <p>____ units</p> <p>ac Dinner:</p> <p>____ units</p>	<p>†Adjust BREAKFAST dose: <input type="checkbox"/> 1 unit every 1 or more days OR <input type="checkbox"/> up to ____ units every ____ or more days</p> <p>Until 2hr pc Breakfast CBG is less than: <input type="checkbox"/> 10.0 mmol/L or <input type="checkbox"/> ____ mmol/L</p> <p>OR until ac Lunch CBG is between: <input type="checkbox"/> 4.0–7.0 mmol/L or <input type="checkbox"/> ____–____ mmol/L</p> <p>†Adjust LUNCH dose: <input type="checkbox"/> 1 unit every 1 or more days OR <input type="checkbox"/> up to ____ units every ____ or more days</p> <p>Until 2 hr pc Lunch CBG is less than: <input type="checkbox"/> 10.0 mmol/L OR <input type="checkbox"/> ____ mmol/L</p> <p>OR until ac Dinner is between: <input type="checkbox"/> 4.0–7.0 mmol/L OR <input type="checkbox"/> ____–____ mmol/L</p> <p>†Adjust DINNER dose: <input type="checkbox"/> 1 unit every 1 or more days OR <input type="checkbox"/> up to ____ units every ____ or more days</p> <p>Until 2hr pc Dinner CBG is less than: <input type="checkbox"/> 10.0 mmol/L or <input type="checkbox"/> ____ mmol/L</p>
PREMIXED	<p>Premixed analogues (cloudy) Take 0-10 min before meal</p> <input type="checkbox"/> Humalog® Mix 25™ <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Humalog® Mix 50™ <input type="checkbox"/> Prefilled pen <input type="checkbox"/> Cartridge <input type="checkbox"/> Novomix® 30 <input type="checkbox"/> Cartridge <p>Premixed regular (cloudy) Take 30 min before meal</p> <input type="checkbox"/> Humulin® 30/70 <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Novolin®ge 30/70 <input type="checkbox"/> Cartridge <input type="checkbox"/> Vial <input type="checkbox"/> Novolin®ge 40/60 <input type="checkbox"/> Cartridge <input type="checkbox"/> Novolin®ge 50/50 <input type="checkbox"/> Cartridge	<p>ac Breakfast:</p> <p>____ units</p> <p>ac Dinner:</p> <p>____ units</p>	<p>†Adjust BREAKFAST dose:</p> <p><input type="checkbox"/> 1 unit every 1 or more days OR <input type="checkbox"/> up to ____ units every ____ or more days</p> <p>Until ac Dinner CBG is between: <input type="checkbox"/> 4.0 – 7.0 mmol/L or <input type="checkbox"/> ____–____ mmol/L</p> <p>Without causing hypoglycemia post-breakfast.</p> <p>†Adjust DINNER dose:</p> <p><input type="checkbox"/> 1 unit every 1 or more days OR <input type="checkbox"/> up to ____ units every ____ or more days</p> <p>Until Fasting CBG is between: <input type="checkbox"/> 4.0 – 7.0 mmol/L or <input type="checkbox"/> ____–____ mmol/L</p> <p>Without causing hypoglycemia post-dinner.</p>
MITT	<p>Insulin: ____ boxes x ____ repeats (Units/box: Cartridges & prefilled pens = 1500, Vials = 1000)</p> <p>Supplies: ____ boxes x ____ repeats <input type="checkbox"/> pen <input type="checkbox"/> pen needles <input type="checkbox"/> syringes <input type="checkbox"/> meter strips <input type="checkbox"/> lancets</p>	Notes:	<p>Prescriber Information/Stamp:</p> <p>Name (printed):</p> <p>License #:</p> <p>Address:</p> <p>Tel:</p> <p>Fax:</p> <p>Date (m/d/y):</p> <p>Signature:</p>
<p>OTHER ANTIHYPERGLYCEMIC AGENT(S) Rx: Upon Insulin Initiation</p> <p>To Discontinue: _____</p> <p>To continue (new Rx) (name, route, dose & frequency): _____</p>			

INSULIN INITIATION AND TITRATION SUGGESTIONS

(For type 2 diabetes)

People starting insulin should be counseled about the prevention, recognition and treatment of hypoglycemia .

The following are suggestions for insulin initiation and titration. Clinical judgment should always be used as the suggestions may not apply to every patient.

Basal Insulin added to Oral Antihyperglycemic Agents (Lantus®, Levemir®, Humulin® N, Novolin®ge NPH)

- Target fasting blood glucose (BG) of 4-7 mmol/L
- Most patients will need 40-50 units at bedtime to achieve target but there is no maximum dose
- Start at a low dose of 10 units at bedtime (may start at lower dose (0.1-0.2 units/kg) for lean patients (< 50 kg))
- Patient should gently self-titrate by increasing the dose by 1 unit every night until fasting BG target of 4-7 mmol/L is achieved
- When fasting BG target is achieved, the patient should remain on that dose until reassessed by their diabetes team
- If fasting hypoglycemia occurs, the dose of bedtime basal should be reduced
- Metformin and the secretagogue are usually maintained when basal insulin is added
- If daytime hypoglycemia occurs, reduce the oral antihyperglycemic agents (especially secretagogues)
- Lantus® or Levemir® can be given at bedtime or in the morning

Basal + Bolus Insulins

- When basal insulin is not enough to achieve glycemic control, bolus insulin should be added before meals. There is the option of only adding bolus insulin to the meal with the highest postprandial BG as a starting point for the patient who is not ready for more injections.
- For current basal insulin users, maintain the basal dose and add bolus insulin with each meal at a dose equivalent to 10% of the basal dose. For example, if the patient is on 50 units of basal insulin, add 5 units of bolus insulin with each meal
- For new insulin users starting with Basal + Bolus regimen, calculate total daily insulin dose (TDI) as 0.3 to 0.5 units / kg, then distribute as follows:
 - 40% of TDI dose as basal insulin (Lantus®, Levemir®, Humulin® N, Novolin®ge NPH) at bedtime
 - 20% of TDI dose as bolus insulin prior to each meal
- Rapid-acting insulin analogues (Apidra®, Humalog®, NovoRapid®) should be given immediately before eating
- Short-acting insulin (Humulin® R, Novolin®ge Toronto) should be given 30 minutes before eating
- Adjust the dose of the basal insulin to achieve the target fasting BG level (usually 4-7 mmol/L)
- Adjust the dose of the bolus insulin to achieve postprandial BG levels (usually 5-10 mmol/L)
- Consider stopping the secretagogue when bolus insulin is added

Premixed Insulin before breakfast and before dinner (Humalog® Mix25®, Humalog Mix50®, NovoMix® 30, Humulin® 30/70, Novolin®ge 30/70, Novolin®ge 40/60, Novolin®ge 50/50)

- Target fasting and presupper BG levels of 4-7 mmol/L
- Most patients with type 2 diabetes will need 40-50 units twice a day to achieve target but there is no maximum dose
- Start at a low dose of 5 to 10 units twice daily (before breakfast and before supper)
- Patient can gently self-titrate by increasing the breakfast dose by 1 unit every day until the presupper BG is at target
- Patient can gently self-titrate by increasing the supper dose by 1 unit every day until the fasting BG is at target
- Beware of hypoglycemia post-breakfast or post-supper. Stop increasing dose if this occurs
- When target BG levels are achieved, the patient should remain on that dose until reassessed by their diabetes team
- Premixed analogue insulins (Humalog® Mix25®, Humalog Mix50®, NovoMix® 30) should be given immediately before eating
- Premixed regular insulins (Humulin® 30/70, Novolin®ge 30/70 or 40/60 or 50/50) should be given 30 minutes before eating
- Continue the meformin and consider stopping the secretagogue

Basal Insulin Example
Starting dose 10 units at bedtime
Increase dose by 1 unit every 1 night until fasting blood glucose has reached the target of 4-7 mmol/L

Basal + Bolus example (80kg person)
Total daily insulin = 0.5 units/kg = 0.5 x 80 TDI = 40 units
Basal insulin = 40% of TDI = 40% x 40 units Basal bedtime = 16 units
Bolus insulin = 60% of TDI = 60% x 40 units Bolus = 24 units = 8 units with each meal

Premixed insulin example
10 units ac breakfast 10 units ac supper
Increase breakfast dose by 1 unit every 1 day until presupper blood glucose has reached the target of 4-7 mmol/L
Increase supper dose by 1 unit every 1 day until fasting blood glucose has reached the target of 4-7 mmol/L

Additional forms may be obtained on-line at www.torontodiabetesreferral.com or by calling 416-778-0676 x 2242