How to start Lantus® (insulin glargine) in Type 2 Diabetes

Please review the full product data sheets available at www.medsafe.co.nz

When printing this PDF please include the reference and product mandatory sections.

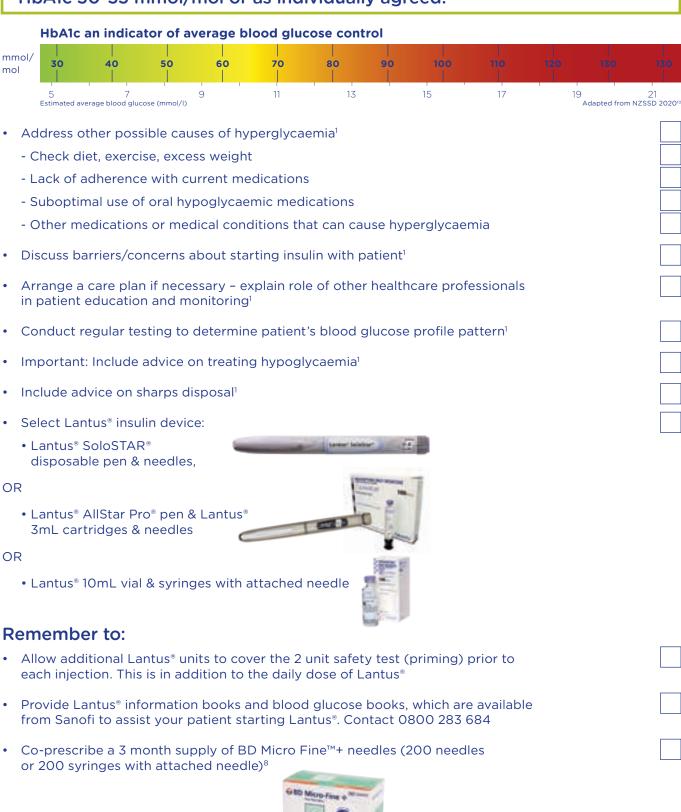
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Before Starting Lantus®

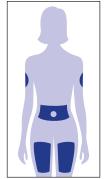
HbA1c persistently above individualised target (>3months).¹

Recommended target for Type 2 Diabetes patients: HbA1c 50-55 mmol/mol or as individually agreed.¹



Advise your patient to:2

- · Check that they have the right insulin, time and dose before injecting
- Check that their Lantus® has not expired
- Wash their hands thoroughly before starting each injection
- Prime the needle: Perform a 2 unit safety test before each injection to ensure insulin is coming out
 of the needle
- Inject Lantus® at the same time each day
- Use a new needle for each injection
- Inject Lantus® at a 90° angle
- Count to 10 before removing the needle from the injection site
- · Inject into a different place everyday. Sites for injection include abdomen, thighs and upper arms
- Keep Lantus® SoloSTAR® disposable pen, the Lantus® cartridge or vial they are using at room temperature, not higher than 30°C, and protected from the light
- Store unopened pre-filled pens, cartridges and vials in the fridge between 2°C and 8°C. Do not allow to freeze
- Discard any remaining Lantus® 28 days after first use
- Regularly test blood glucose



Recommended injection site usually the abdomen, other injection site options include thighs and upper arms



Advise patients:²

- Not to mix Lantus® with any other insulin
- Not to confuse their insulins Lantus® is clear, not cloudy. Lantus® is a long acting basal insulin
- Not to use Lantus® if their pre-filled pen, vial or cartridge becomes cracked, cloudy or particles appear
- Not to use Lantus® if the pre-filled pen, vial or cartridge has been frozen or exposed to excessive heat (30°C +)
 - 1. Advise patients that if they forget to take a dose of Lantus®, as with any insulin never take a double dose to make up for a missed dose as they will be at increased risk of hypoglycaemia.²
 - 2. Advise patient to seek healthcare advice.2

Starting Lantus®

Simple steps to achieving the right Lantus[®] dose when starting an insulin naïve patient with Type 2 Diabetes

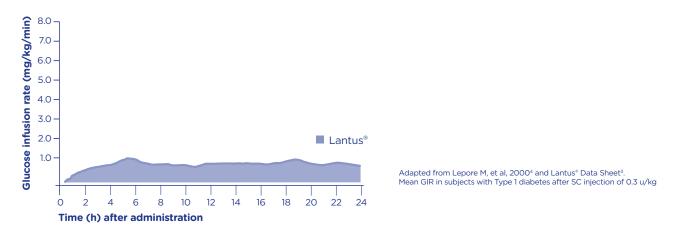
Start

Step 1:

Starting Dose

- Start patients on 10 units of Lantus®3
- Taken once-daily at the same time each day³
- Continue treatment with oral hypoglycaemic agents (OHAs)¹

Lantus® Profile^{3,4}



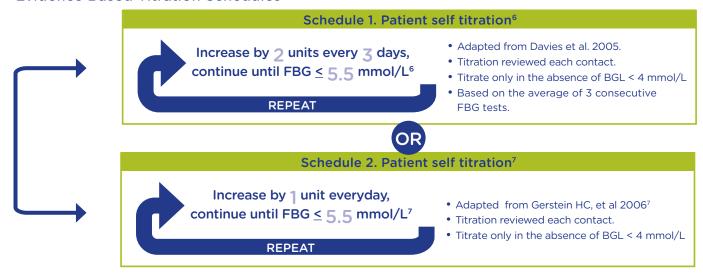
OHAs: Funded options include metformin, sulphonylureas, vildagliptin, acarbose and pioglitazone⁸

Titration: Fix the fasting blood glucose first⁶

Step 2:

Fix the fasting blood glucose - adjust the Lantus $^{\circ}$ dose using one of the schedules below to achieve a target FBG that correlates with the HbA1c target $^{\circ}$

Evidence Based Titration Schedules^{6,7}



Step 3:

Check HbA1c in 3-6 months. If on target continue monitoring FPG and titrating as necessary, if not at HbA1c target check FPG levels, if FPG is at target then move to step 4 or continue titrating Lantus to 0.7 IU/kg before moving to step 4°

Step 4:

Find hidden hyperglycaemia (if HbA1c ≥ 55 mmol/mol or agreed target)



If preprandial FPG are on target but HbA1c and postprandial BGLs are not, review need for a dose of rapid-acting insulin such as Apidra® (insulin glulisine) to manage postprandial hyperglycaemia⁵

FBG - Fasting Blood Glucose BGL - Blood Glucose Level FPG - Fasting Plasma glucose

References

Lantus®

- 1. New Zealand Primary Care Handbook 2012. Ministry of Health.
- 2. Lantus® Consumer Information. October 2017
- 3. Lantus® Data Sheet. 31 October 2017
- 4. Lepore M. et al. Diabetes. 2000; 49:2142-2148
- 5. Phillips P. Medicine Today 2007;8(3): 23-24
- 6. Davies et al. Diabetes Care 2005;28(6) 1282-1288
- 7. Gerstein HC, et al. Diabet Med 2006;23:736-42
- 8. New Zealand Pharmaceutical Schedule. April 2020
- 9. Melanie J. Davies et al. Diabetes Care 2018; 41: 2669-2701
- 10. NZSSD resource from Department of Medical Illustration, Auckland City Hospital. https://www.nzssd.org.nz/hba1c Accessed 16/04/20120

Lantus® Abridged Data Sheet

Please review Full Data Sheet before prescribing - available at www.medsafe.govt .nz or from the sponsor.

Lantus® (insulin glargine). Indication: Once-daily subcutaneous administration for type 1 and type 2 diabetes mellitus patients who require insulin for control of hyperglycaemia. Contraindications: Hypersensitivity to insulin glargine or any excipient. Precautions: Hypoglycaemia, possibly with delayed recovery or altered warning symptoms; hepatic, renal and visual impairment; lipodystrophy and other injection site or immediate-type allergic reactions; antibody production; not studied in children <6 years, pregnancy category B3, lactation; not intended for i.v. use; not recommended for treatment of diabetic ketoacidosis; LANTUS® MUST NOT BE DILUTED OR MIXED WITH ANY OTHER INSULIN OR SOLUTION. Patient instruction on intercurrent conditions, blood glucose monitoring, injection technique recommended. Interactions: Oral antidiabetic agents; cardiovascular, analgesic, anti-inflammatory, neurological, antipsychotic agents, antibiotics, corticosteroids, other hormonal therapies, diuretics, protease inhibitors, sympathomimetic agents, lithium, alcohol, sympatholytics including ß-blockers, others. Adverse effects: Hypoglycaemia; injection site reactions; visual disturbances; others. Dosage and Administration: Subcutaneous, once daily; abdominal, thigh or deltoid administration; blood glucose monitoring is recommended. Lantus® is equipotent to human insulin. Initial dose should be determined individually, depending on desired blood glucose levels and doses and timing of any antidiabetic medication, including Lantus®. For changeover from oncedaily NPH initial dose usually not changed; for changeover from twice-daily NPH to once-daily Lantus®, initial dose usually reduced by approximately 20% compared to total daily NPH dose; for initiation of type 2 patients, initial dose is usually approximately 10IU. For secondary dose adjustments, renal, hepatic impairment see full Data Sheet. Medicine Classification: Prescription Medicine. Presentations: Lantus® (insulin glargine injection) 100 U per mL is available in packs of 5x3mL cartridges, 5x3mL cartridges in SoloStar pre-filled pens and 10mL vials. Sponsor: Sanofi-Aventis New Zealand Limited trading as Sanofi, Level 8, 56 Cawley Street, Ellerslie, Auckland. Freephone 0800 283 684. Lantus® is a Funded Medicine.

Apidra®

Apidra® Abridged Data Sheet

Please review Full Data Sheet before prescribing - available at www.medsafe.govt .nz or from the sponsor.

Apidra* (insulin glulisine). Indication: Subcutaneous administration for type 1 and type 2 diabetes mellitus patients who require insulin for control of hyperglycaemia. Contraindications: Hypersensitivity to insulin glulisine or any excipient. Precautions: Hypoglycaemia; hepatic, renal and visual impairment; lipodystrophy and other injection site or immediate-type allergic reactions; patient instruction on intercurrent conditions, blood glucose monitoring, injection technique, checking insulin label if using reusable injection devices; not studied in children <4 years, pregnancy category B3, lactation; may be mixed with NPH human insulin, mixtures should not be administered intravenously. Interactions: Oral antidiabetic agents; cardiovascular, analgaesic, anti-inflammatory, neurological, antipsychotic agents (see full Data Sheet); antibiotics; corticosteroids, other hormonal therapies (see full Data Sheet); diuretics; protease inhibitors; sympathomimetic agents; lithium; alcohol; sympatholytics including ß-blockers; others, see full Data Sheet. Adverse effects: Hypoglycaemia; injection site reactions; others, see full Data Sheet. Dosage and Administration: Subcutaneous; abdominal, thigh or deltoid administration; blood glucose monitoring is recommended. Apidra* is equipotent to human insulin but with more rapid onset and shorter duration of action; should be injected within 15 minutes before or immediately after a meal. Initial dose should be determined individually, depending on desired blood glucose levels. Apidra* should normally be used in regimens that include a longer-acting or basal insulin. Apidra* can be mixed with NPH human insulin for subcutaneous administration. For secondary dose adjustments, renal, hepatic impairment: see full Data Sheet. Presentations: Apidra* (insulin glulisine injection) 100 U per mL (U 100) is available in packs of 10mL vials, 3mL cartridges and 3mL cartridges in SoloStar pre-filled pens. Medicine Classification: Prescription Medicine. Sponsor: Sanofi-Aventis New Zealand Limited trading as Sanofi, Level 8, 56 Cawley Street, Ellerslie, Auckland, New Zealand. Freephone 0800 283 684. Apidra* is a Funded Medicine.

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