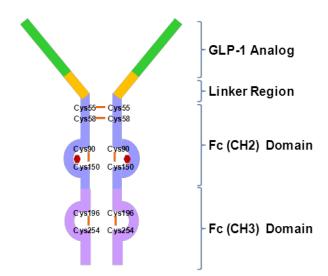
TRULICITY® (dulaglutide rch)

NAME OF THE MEDICINE

Dulaglutide rch

Dulaglutide consists of 2 identical disulfide-linked chains, each containing a modified human glucagon-like peptide 1 (GLP-1) analogue sequence covalently linked to a modified human immunoglobulin G4 (IgG4) heavy chain fragment (Fc) by a small peptide linker. The GLP-1 analogue portion of dulaglutide is approximately 90% homologous to native human GLP-1 (7-37).



The GLP-1 analogue, linker region, and IgG4 Fc CH2 and CH3 domains are depicted above. The 12 Cys residues that are involved in the inter-chain and intra-chain disulfide bonding are also shown. The hexagonal symbol represents the *N*-linked glycosylation at Asn126 in each polypeptide chain.

The molecular weight of dulaglutide with the predominant form of *N*—linked glycosylation is 62,561 Da.

CAS number 923950-08-7

DESCRIPTION

TRULICITY is supplied as a single use pen or a prefilled syringe containing dulaglutide 1.5 mg per 0.5 mL. It is a clear, colourless, essentially free from particles, sterile and non-pyrogenic solution for subcutaneous administration. TRULICITY contains the excipients sodium citrate, citric acid - anyhydrous, mannitol, polysorbate 80 and water for injections.

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PHARMACOLOGY

Mechanism of Action

Dulaglutide is a long acting GLP-1 receptor agonist. Native GLP-1 has a half-life of 1.5 - 2 minutes due to degradation by dipeptidyl peptidase-4 (DPP-4) and renal clearance. In contrast to native GLP-1, dulaglutide is relatively resistant to degradation by DPP-4, and has a large size that slows absorption and reduces renal clearance. These engineering features result in a soluble formulation and a prolonged half life of 4.7 days, which makes it suitable for once-weekly subcutaneous administration. In addition, the dulaglutide molecule was engineered to prevent the Fcγ-receptor dependent immune response and to reduce its immunogenic potential.

Dulaglutide exhibits several antihyperglycaemic actions of GLP-1. In the presence of elevated glucose concentrations, dulaglutide increases intracellular cyclic AMP in pancreatic beta cells leading to insulin release. Dulaglutide suppresses glucagon secretion which is known to be inappropriately elevated in patients with type 2 diabetes. Lower glucagon concentrations lead to decreased hepatic glucose output. Dulaglutide also slows gastric emptying.

Pharmacodynamics

Dulaglutide improves glycaemic control through the sustained effects of lowering fasting, pre-meal and postprandial glucose concentrations in patients with type 2 diabetes starting after the first dulaglutide administration and is sustained throughout the once weekly dosing interval.

A pharmacodynamic study with TRULICITY demonstrated, in patients with type 2 diabetes, a restoration of first phase insulin secretion to a level that exceeded levels observed in healthy subjects on placebo, and improved second phase insulin secretion in response to an intravenous bolus of glucose, as shown in Figure 1. In the same study, a single 1.5 mg dose of TRULICITY appeared to increase maximal insulin secretion from the β cells, and to enhance β cell function in subjects with type 2 diabetes mellitus as compared with placebo.

Consistent with the pharmacokinetic profile, dulaglutide has a pharmacodynamic profile suitable for once weekly administration (see **Pharmacokinetics**).

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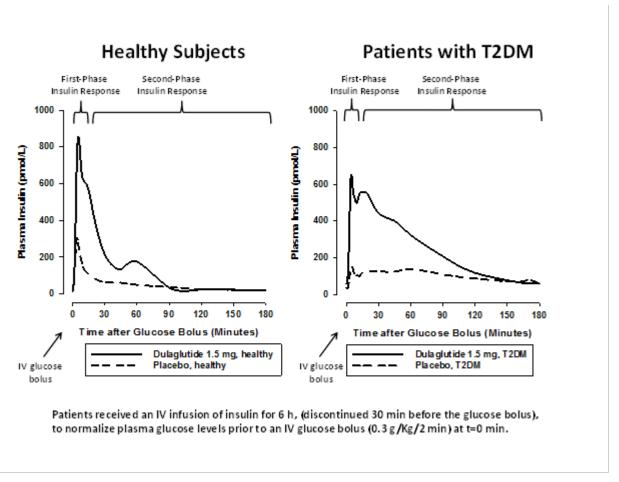


Figure 1: Effect of dulaglutide on first and second phase insulin secretion

Pharmacokinetics

<u>Absorption</u>

Following subcutaneous administration to patients with type 2 diabetes, dulaglutide reaches peak plasma concentrations in 48 hours. The mean peak (Cmax) and total (AUC) exposures were approximately 114 ng/mL and 14,000 ng·h/mL, respectively after multiple subcutaneous 1.5 mg doses of dulaglutide in patients with type 2 diabetes. Steady state plasma concentrations were achieved after 2 to 4 weeks of once-weekly administration of dulaglutide 1.5 mg. Exposures after subcutaneous administration of single 1.5 mg dulaglutide doses in the abdomen, thigh or upper arm were comparable. The mean absolute bioavailability of dulaglutide following a single dose subcutaneous administration of one 1.5 mg dose was approximately 47%.

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Distribution

The mean volume of distribution after subcutaneous administration of dulaglutide 1.5 mg to steady state in patients with type 2 diabetes mellitus was approximately 17.4 L.

Metabolism

Dulaglutide is presumed to be degraded into its component amino acids by general protein catabolism pathways.

Elimination

The mean apparent clearance of dulaglutide in humans at steady state was 0.107 L/h with an elimination half- life of 4.7 days.

Special Populations

No dose adjustment is needed based on age, gender, race, ethnicity, body weight, or renal or hepatic impairment.

Elderly

Age had no clinically relevant effect on the pharmacokinetics or pharmacodynamics of dulaglutide.

Gender and race

Gender and race had no clinically meaningful effect on the pharmacokinetics of dulaglutide.

Renal Impairment

The pharmacokinetics of dulaglutide were evaluated in subjects with varying degrees of renal impairment, and were generally similar between healthy subjects and patients with mild to severe renal impairment (creatine clearance <30mL/min), including end stage renal disease requiring dialysis.

Hepatic Impairment

The pharmacokinetics of dulaglutide were evaluated in subjects with varying degrees of hepatic impairment. Subjects with hepatic impairment had statistically significant decreases in dulaglutide exposure of up to 30% and 33% for mean C_{max} and AUC, respectively, compared to healthy controls. There was a general increase in t_{max} of dulaglutide with increased hepatic impairment, however no trend in dulaglutide exposure was observed relative to the degree of hepatic impairment. These effects were not considered clinically relevant.

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Body weight or body mass index

Pharmacokinetic analyses have demonstrated a statistically significant inverse relationship between body weight or body mass index (BMI) and dulaglutide exposure, although there was no clinically relevant impact of weight or BMI on glycaemic control.

CLINICAL TRIALS

The efficacy of TRULICITY has been established in five pivotal Phase 3 studies involving 4,572 patients with type 2 diabetes mellitus. These studies were designed to assess safety and efficacy in patients across different stages of the type 2 diabetes mellitus treatment continuum from monotherapy, combination with one or two oral antidiabetic medications, to combination with insulin. These studies included 2,837 patients treated with TRULICITY, of whom 1,420 were treated with TRULICITY 1.5 mg once weekly. In all studies, TRULICITY produced clinically significant improvements in glycaemic control as measured by glycosylated haemoglobin A1c (HbA1c). Superiority of dulaglutide to comparators for HbA1c change from baseline was consistently demonstrated across the five studies. Treatment with dulaglutide was associated with modest weight loss. Table 1 provides a summary for all five studies; change in HbA1c (%) was the primary endpoint, other important secondary outcomes included change in fasting blood glucose (FBG), percentage of patients achieving a target HbA1c <7.0%, and change in body weight at the primary and final study time points.

The type 2 diabetes mellitus population was well represented by patients participating in the Phase 3 studies of dulaglutide, with approximately 51% being male and a mean baseline age of 56.2 years. Of the 4,572 patients included in the studies, 847 (18.5%) were aged \geq 65 years, of whom 86 were aged \geq 75 years (1.9%). Across the five studies at baseline, the mean duration of diabetes ranged from 2.6 to 12.7 years, mean baseline HbA1c ranged from 7.6% to 8.5% and mean body mass index ranged from 31.2 kg/m² to 33.3 kg/m².

Table 1 Summary of Efficacy Results from Dulaglutide Phase 3 studies (Intention to Treat)

	Study	N	HbA1c (%)		Change	%Patients	Change
			Change	Endpoint	FBG	at target	body weight
					(mmol/L)	<7.0%	(kg)
Monotherapy Study H9X-MC-GBDC							
Primary Time	Dulaglutide 1.5mg	269	$-0.78^{\dagger\dagger}$	$6.81^{\dagger\dagger}$	-1.61	61.5#	-2.29
Point 26 weeks	Metformin	268	-0.56	7.03	-1.34	53.6	-2.22
Final Time Point	Dulaglutide 1.5mg	269	$-0.70^{\dagger\dagger}$	$6.89^{\dagger\dagger}$	-1.56#	60.0#	-1.93
52 weeks	Metformin	268	-0.51	7.08	-1.15	48.3	-2.20
Add on to metformin Study H9X-MC-GBCF							
Primary Time	Dulaglutide 1.5mg	304	$-1.10^{\dagger\dagger}$	$7.02^{\dagger\dagger}$	-2.38##	57.6##	-3.03##
Point 52 weeks	Sitagliptin	315	-0.39	7.73	-0.90	33.0	-1.53
Final Time Point	Dulaglutide 1.5mg	304	$-0.99^{\dagger\dagger}$	$7.13^{\dagger\dagger}$	-1.99##	54.3##	-2.88##
104 weeks	Sitagliptin	315	-0.32	7.80	-0.47	31.1	-1.75
Add on to metformin & TZD Study H9X-MC-GBDA							

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Attachment 1: Product information for AusPAR Trulicity Eli Lilly Australia Pty Ltd PM-2013-03639-1-5 Final 27 July 2015. This Product Information was approved at the time this AusPAR was published.

Primary Time Point 26 weeks	Dulaglutide 1.5mg	279	-1.51 ^{‡‡,††}	$6.55^{\ddagger\ddagger,\dagger\dagger}$	-2.36**,##	78.2**,##	-1.30**
	Placebo	141	-0.46	7.44	-0.26	42.9	1.24
	Exenatide BID	276	-0.99**	7.05**	-1.35**	52.3*	-1.07**
Final Time Point	Dulaglutide 1.5mg	279	$-1.36^{\dagger\dagger}$	$6.66^{\dagger\dagger}$	-2.04##	70.8##	-1.10
52 weeks	Exenatide BID	276	-0.80	7.23	-1.03	49.2	-0.80
Add on to metformin & sulfonylurea Study H9X-MC-GBDB							
Primary Time	Dulaglutide 1.5mg	273	-1.08 ^{††}	7.05 ^{††}	-1.50	53.2##	-1.87##
Point 52 weeks	Insulin glargine	262	-0.63	7.50	-1.76	30.9	1.44
Final Time Point	Dulaglutide 1.5mg	273	$-0.90^{\dagger\dagger}$	$7.23^{\dagger\dagger}$	-1.10#	49.0#	-1.96##
78 weeks	Insulin glargine	262	-0.59	7.54	-1.58	30.5	1.28
Add on to insulin lispro ± metformin Study H9X-MC-GBDD							
Primary Time	Dulaglutide 1.5mg	295	$-1.64^{\dagger\dagger}$	6.83 ^{††}	-0.27##	67.6#	-0.87##
Point 26 weeks	Insulin glargine	296	-1.41	7.05	-1.58	56.8	2.33
Final Time Point	Dulaglutide 1.5mg	295	$-1.48^{\dagger\dagger}$	$6.99^{\dagger\dagger}$	0.08##	58.5 [#]	-0.35##
52 weeks	Insulin glargine	296	-1.23	7.23	-1.01	49.3	2.89

Abbreviations: BID = twice daily injections, HbA1c = glycosylated haemoglobin A1c, TZD = thiazolidinedione † multiplicity adjusted 1-sided p-value <0.025 for noninferiority of dulaglutide compared to comparator, assessed only for HbA1c; †† multiplicity adjusted 1-sided p-value <0.025 for superiority of dulaglutide compared to comparator, assessed only for HbA1c ‡‡ multiplicity adjusted 1-sided p-value <0.001 for superiority of dulaglutide compared to placebo, assessed only for HbA1c *p<0.05 dulaglutide or exenatide BID compared to placebo; **p<0.001 dulaglutide or exenatide BID compared to placebo #p<0.05 dulaglutide compared to active comparator; ## p<0.001 dulaglutide compared to active comparator

Monotherapy

Study GBDC was a 52-week Phase 3, randomised, parallel-arm, double-blind, double-dummy, active-comparator trial to assess the safety and efficacy of 2 doses of once weekly dulaglutide (1.5 mg and 0.75 mg) as monotherapy in patients with early type 2 diabetes mellitus. In this study, patients discontinued their prior oral antidiabetic medication and were then randomised to TRULICITY once weekly or metformin following a two week lead in period. TRULICITY 1.5 mg was superior to metformin (1500-2000 mg/day) in the reduction in HbA1c from baseline (mean baseline 7.6%) and a significantly greater proportion of patients reached an HbA1c target of <7.0% (p< 0.05) and ≤6.5% (p< 0.001) with TRULICITY compared to metformin at 26 weeks. These effects were sustained for up to 52 weeks of treatment. The rate of documented symptomatic hypoglycaemia with TRULICITY 1.5mg alone was 0.62 episodes/patient/year and with metformin was 0.09 episodes/patient/year. No cases of severe hypoglycaemia were observed.

Combination with Oral Antidiabetic Medications Combination with metformin

Study GBCF was a 104-week, adaptive, Phase 2/3, placebo-controlled, safety, and efficacy study of once weekly dulaglutide compared to sitagliptin in patients on metformin. In the initial dose-finding portion of the study, 7 doses of dulaglutide (0.25 mg, 0.5 mg, 0.75 mg, 1.0 mg, 1.5 mg, 2.0 mg, and 3.0 mg), sitagliptin, and placebo were assessed. An optimal or maximum utility dose was to be selected based on the use of a pre-defined clinical utility index combining efficacy (HbA1c and weight) and safety (diastolic blood pressure and heart rate) measures. At the completion of the dose-finding portion, the

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dulaglutide 1.5 mg dose was selected as the optimal dose. The dulaglutide 0.75 mg dose was additionally selected to move forward as a contingency dose. Following completion of the dose-finding stage, evaluation of the safety and efficacy of these 2 doses and comparator arms continued in Study GBCF. Treatment with TRULICITY 1.5 mg resulted in a superior reduction in HbA1c compared to placebo (at 26 weeks). TRULICITY was also superior to sitagliptin for reduction in HbA1c at 52 weeks accompanied by a significantly (p< 0.001) greater proportion of patients achieving HbA1c targets of < 7.0% and \leq 6.5%. Treatment with TRULICITY also resulted in significantly (p< 0.001) greater reductions in fasting plasma glucose and body weight than observed for sitagliptin. These effects were sustained to the end of the study (104 weeks). The rate of documented symptomatic hypoglycaemia with TRULICITY 1.5 mg was 0.19 episodes/patient/year and with sitagliptin was 0.17 episodes/patient/year. No cases of severe hypoglycaemia with TRULICITY were observed.

Combination with metformin and thiazolidinedione

Study GBDA was a 52-week, Phase 3, randomized, parallel-arm, placebo-controlled, open-label to active-comparator (exenatide twice daily) trial. It was double-blind with respect to dulaplutide 1.5 mg, dulaplutide 0.75 mg, and placebo treatment assignment to 26 weeks. For those patients randomized to placebo who were then switched to dulaglutide after 26 weeks, it was also double-blind with respect to the dulaglutide dose assignment (1.5 mg or 0.75 mg) to 52 weeks. This study was designed to assess the safety and efficacy of dulaplutide 1.5 mg and dulaplutide 0.75 mg in patients who were on stable doses of metformin and pioglitazone. In this study, TRULICITY 1.5 mg demonstrated a significant improvement in HbA1c change compared to placebo at 26 weeks. TRULICITY also demonstrated superiority for HbA1c reduction in comparison to exenatide at 26 weeks and at 52 weeks. This was accompanied by significantly (p< 0.001) greater reductions in fasting serum glucose and a greater percentage of patients achieving HbA1c targets of < 7.0% or ≤ 6.5% at 26 and 52 weeks. Weight loss with TRULICITY was comparable to exenatide. The rate of documented symptomatic hypoglycaemia with TRULICITY 1.5 mg was 0.19 episodes/patient/year and with exenatide twice daily was 0.75 episodes/patient/year (p=0.006 by paired stepwise comparison). No cases of severe hypoglycaemia were observed for TRULICITY and two cases of severe hypoglycaemia were observed with exenatide twice daily.

Combination with metformin and sulfonylurea

Study GBDB was a 78-week Phase 3, randomised, parallel-arm, open-label (double-blind with respect to dulaglutide dose assignment), active comparator (insulin glargine) trial to assess the safety and efficacy of 2 doses of once weekly dulaglutide (1.5 mg and 0.75 mg) in patients who were on stable doses of metformin and glimepiride. At 52 weeks, TRULICITY 1.5 mg demonstrated superior lowering in HbA1c to insulin glargine which was maintained at 78 weeks. This was accompanied by a significantly (p< 0.001) higher percentage of subjects reaching a target HbA1c of < 7.0 % or \leq 6.5% at primary (52 weeks) and final (78 weeks) time points. Subjects treated with TRULICITY lost a mean of 1.87 kg in comparison to a gain of 1.44 kg in the insulin glargine arm (p< 0.001) in the first 52 weeks and this effect was sustained to 78 weeks. The rate of documented symptomatic hypoglycaemia with TRULICITY 1.5 mg was 1.67 episodes/patient/year and with insulin

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glargine was 3.03 episodes/patient/year (p=0.012). Two cases of severe hypoglycaemia were observed with TRULICITY and two cases of severe hypoglycaemia were observed with insulin glargine.

Combination with Insulin

Study GBDD was a 52-week Phase 3, randomized, parallel-arm, open-label (double-blind with respect to dulaglutide dose assignment), active comparator (insulin glargine) trial to assess the safety and efficacy of 2 doses of once weekly dulaglutide (1.5 mg and 0.75 mg), both in combination with insulin lispro, with or without metformin, in patients previously treated with a stable, conventional insulin regimen for at least 3 months. In this study, patients on 1 or 2 insulin injections per day prior to study entry, discontinued their pre-study insulin regimen and were randomised to TRULICITY once weekly or insulin glargine once daily, both in combination with prandial insulin lispro three times daily, with or without metformin. At 26 weeks, TRULICITY 1.5 mg was superior to insulin glargine in lowering of HbA1c and this effect was sustained at 52 weeks. This was accompanied by a significant (p< 0.001) weight loss in comparison to insulin glargine, where weight gain was observed over the course of the study. A greater percentage of patients also achieved HbA1c targets of < 7.0 % or $\le 6.5\%$ at 26 weeks (p< 0.05) and < 7.0 % at 52 weeks (p< 0.05) when treated with TRULICITY than with insulin glargine. The rate of documented symptomatic hypoglycaemia with TRULICITY 1.5 mg was 31.06 episodes/patient/year and with insulin glargine was 40.95 episodes/patient/year. Ten patients reported severe hypoglycaemia with TRULICITY and fifteen with insulin glargine.

Fasting Blood glucose

Treatment with TRULICITY 1.5 mg resulted in significant reductions from baseline in fasting blood glucose (least-square mean changes from baseline to primary time point - 0.27 mmol/L to -2.38 mmol/L). The majority of the effect on fasting blood glucose concentrations occurred by 2 weeks. The improvement in fasting glucose was sustained through the longest study duration of 104 weeks.

Postprandial glucose

Treatment with TRULICITY 1.5 mg resulted in significant reductions in self-monitored mean post prandial glucose from baseline (least-square mean changes from baseline to primary time point -1.95 mmol/L to -4.23 mmol/L).

Beta cell function

Clinical studies with TRULICITY 1.5 mg have indicated enhanced beta-cell function as measured by homeostasis model assessment (HOMA2-%B). The durability of effect on beta-cell function was maintained through the longest study duration of 104 weeks.

Body Weight

TRULICITY 1.5 mg was associated with sustained weight reduction over the duration of studies (least square mean change from baseline to final time point -0.35 kg to -2.88 kg). This was significant (p< 0.001) in comparison to sitagliptin and insulin glargine and

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comparable to exenatide twice daily and metformin. Reduction in body weight was observed in patients treated with TRULICITY irrespective of nausea, though the reduction was numerically larger in the group with nausea.

Patient Reported Outcomes

TRULICITY 1.5 mg significantly improved (p< 0.05) total treatment satisfaction as measured by the Diabetes Treatment Satisfaction Questionnaire (DTSQs) compared to exenatide twice daily. In addition, there was significantly (p< 0.05) lower perceived frequency of hyperglycaemia and hypoglycaemia compared to exenatide twice daily.

Blood Pressure

The effect of TRULICITY 1.5 mg on blood pressure as assessed by Ambulatory Blood Pressure Monitoring was evaluated in a study of 755 patients with type 2 diabetes. Treatment with TRULICITY provided reductions in systolic blood pressure (SBP) (-2.8 mmHg difference compared to placebo) at 16 weeks. There was no difference in diastolic blood pressure (DBP). Similar results for SBP and DBP were demonstrated at the final 26 week time point of the study.

Immunogenicity

Across four Phase 2 and five Phase 3 clinical studies, 64 (1.6%) TRULICITY treated patients developed anti-drug antibodies (ADAs) to the active ingredient in TRULICITY (i.e. dulaglutide). Of the 64 dulaglutide-treated patients that developed dulaglutide ADAs, 34 patients (0.9% of the overall population) had dulaglutide-neutralising antibodies, and 36 patients (0.9% of the overall population) developed antibodies against native GLP-1.

Patients with dulaglutide ADAs generally had low titres and although the number of patients developing dulaglutide ADAs was low, examination of the phase III data revealed no clear impact of dulaglutide ADAs on changes in HbA1c.

The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralising antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, the incidence of antibodies to dulaglutide cannot be directly compared with the incidence of antibodies of other products.

Hypersensitivity

In the Phase 2 and Phase 3 clinical studies, systemic hypersensitivity events (e.g., urticaria, oedema) have been reported in 0.5% of patients receiving dulaglutide at any dose for any duration. None of the patients with systemic hypersensitivity developed dulaglutide anti-drug antibodies.

Cardiovascular risk

A total of 51 patients (dulaglutide: 26 [N = 3885]; all comparators: 25 [N = 2125]) experienced at least one cardiovascular (CV) event (death due to CV causes, nonfatal MI, nonfatal stroke, or hospitalisation for unstable angina). The results showed that there was

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no increase in CV risk with dulaglutide compared with control therapies (HR: 0.57; adjusted 98.02 % CI: [0.30, 1.10]; p=0.046).

QTc Interval

Dulaglutide did not prolong QTc interval at supratherapeutic doses of 4mg and 7mg as assessed in a thorough QTc study.

INDICATIONS

TRULICITY is indicated as an adjunct to diet and exercise to improve glycaemic control in adults with type 2 diabetes mellitus:

- As monotherapy
- In combination with the following oral glucose-lowering medications (metformin, metformin and sulfonylurea, metformin and thiazolidinedione)
- In combination with prandial insulin, with or without metformin

CONTRAINDICATIONS

TRULICITY is contraindicated in patients with known hypersensitivity to dulaglutide or any of the excipients in the product.

PRECAUTIONS

TRULICITY should not be used in patients with Type 1 diabetes mellitus or for the treatment of diabetic ketoacidosis.

Use in Patients with Severe Gastrointestinal Disease

Use of GLP-1 receptor agonists may be associated with gastrointestinal adverse reactions (see ADVERSE EFFECTS). Dulaglutide has not been studied in patients with severe gastrointestinal disease, including severe gastroparesis, and is therefore not recommended in these patients.

Pancreatitis

Pancreatitis has been reported with use of GLP-1 receptor agonists, including dulaglutide. Patients should be informed of the symptoms of pancreatitis. If pancreatitis is suspected TRULICITY should be discontinued until evaluation is complete. In the absence of other signs and symptoms of acute pancreatitis, elevations in pancreatic enzymes alone are not predictive of acute pancreatitis (see ADVERSE EFFECTS). If the diagnosis of pancreatitis is confirmed, TRULICITY should be permanently discontinued.

Risk of hypoglycaemia

Patients receiving TRULICITY in combination with sulfonylurea or prandial insulin may have an increased risk of hypoglycaemia. The risk of hypoglycaemia may be lowered by a reduction in the dose of sulfonylurea or insulin.

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Use in Patients with Congestive Heart Failure

There is limited therapeutic experience in patients with congestive heart failure.

Macrovascular Outcomes

There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with TRULICITY or any other antidiabetic drug.

Effects on fertility

No adverse effects on fertility were observed in male and female rats given subcutaneous doses of dulaglutide at ≤16.3 mg/kg every 3 days, yielding exposure to dulaglutide (based on plasma AUC) ≥30 times higher than that in patients at the maximum recommended human dose.

Use in Pregnancy

Pregnancy Category B3

There are no adequate and well controlled studies of dulaglutide in pregnant women. Administer TRULICITY to pregnant women only if the potential benefit justifies the potential risk to the fetus.

High doses of dulaglutide (11 to 44 times the human clinical exposure following once weekly administration of 1.5 mg dulaglutide) during the period of organogenesis to pregnant rats and rabbits caused increased post-implantation loss, reduced fetal growth, and skeletal and visceral abnormalities (including malformations in rabbits). These findings were observed in association with maternal effects (decreased maternal food intake and decreased weight gain) and are not considered likely to reflect direct embryofetal toxicity or teratogenicity. Memory deficits were observed in the female offspring of rats treated throughout pregnancy and lactation at 1.63 mg/kg every 3 days (yielding 16 times the human clinical exposure). No adverse effects on embryofetal development were seen in rats and rabbits at subcutaneous doses of 0.49 mg/kg and ≤0.12 mg/kg, respectively, given every 3 days (yielding exposures approximately 4 times higher than that in patients at the maximum recommended human dose).

Use in Lactation

It is not known whether dulaglutide is excreted in human milk. Administer TRULICITY to nursing women only if the potential benefit to the mother justifies the potential risk to the infant. In rats, treatment with dulaglutide throughout pregnancy and lactation at 1.63 mg/kg every 3 days delayed postnatal growth and development and produced memory deficits in the offspring. No adverse effects on postnatal development were observed in rats with subcutaneous dosing at 0.49 mg/kg every 3 days (yielding 4.5 times the exposure in patients at the maximum recommended human dose).

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Paediatric Use

The safety and effectiveness of dulaglutide have not been established in patients under 18 years of age.

Use in Elderly

No dose adjustment is required based on age. The therapeutic experience in patients aged ≥75 years is limited.

Genotoxicity

The genotoxic potential of dulaglutide has not been assessed. As a large molecular weight protein, dulaglutide is not expected to interact with DNA or other chromosomal material.

Carcinogenicity

In a 93 week carcinogenicity study in rats, dulaglutide caused statistically significant, dose-related increases in the incidence of thyroid C-cell tumours (adenomas and carcinomas combined) with subcutaneous administration at ≥ 0.5 mg/kg twice weekly, yielding ≥ 7 times the human clinical exposure following once weekly administration of 1.5 mg dulaglutide. Exposure (plasma AUC) at the no observable effect level for carcinogenicity in the rat (0.05 mg/kg) was subclinical. The human relevance of these findings is unknown. There was no tumourigenic response in a 6-month carcinogenicity study in transgenic mice with subcutaneous doses ≤ 3 mg/kg twice weekly, yielding exposures up to 5 times higher than that in patients at the maximum recommended human dose.

Effect on laboratory tests

No information on the effect of dulaglutide on laboratory tests is available.

Use in Patients with Renal Impairment

There is limited therapeutic experience in patients with severe renal impairment (GFR <30mL/min/1.73m²) or end stage renal disease, therefore TRULICITY is not recommended in this population. (See DOSAGE and ADMINISTRATION).

Use in Hepatic Impairment

No dose adjustment is required based on hepatic impairment.

Effects on ability to drive and use machines

No studies on the effects on ability to drive or use machinery have been performed. When TRULICITY is used in combination with a sulfonylurea or insulin patients should be advised to take precautions to avoid hypoglycaemia while driving or using machinery.

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INTERACTIONS WITH OTHER MEDICINES

Dulaglutide causes a delay in gastric emptying, and thereby has the potential to impact the absorption of concomitantly administered oral medications. In clinical pharmacology studies, dulaglutide did not affect the absorption of the orally administered medications tested to any clinically relevant degree (e.g., warfarin, metformin, lisinopril, metoprolol, digoxin, paracetamol, norelgestromin, ethinyloestradiol, sitagliptin, atorvastatin). No dosage adjustments of concomitant medications are required.

As elimination of dulaglutide is presumed to be by proteolytic degradation into its amino acid components and is not anticipated to be eliminated intact in the urine or metabolised by cytochrome P450 enzymes, pharmacokinetic interactions with drugs primarily renally eliminated or metabolised by cytochrome P450 enzymes are not expected.

ADVERSE EFFECTS

Clinical Trial Data

In phase 2 and 3 studies 4,006 individuals received at least one dose of dulaglutide for a total of 3,531 patient years, 703 received placebo for 284 patient years and 1,541 received active comparator for 1,722 patient years. The 1.5 mg dose of dulaglutide was received by 1,762 individuals for 1,689 patient years. In studies of 26 weeks duration, 69.9% of patients who received dulaglutide 1.5 mg reported one or more treatment emergent adverse event compared to 66.0% of patients who received placebo. In studies of 26 weeks duration the incidence of discontinuation due to adverse events was 6.1% for TRULICITY 1.5 mg versus 3.7% for placebo, which was not statistically significantly different. Through the full study duration (up to 104 weeks) the incidence of discontinuation due to adverse events was 8.4% for dulaglutide 1.5 mg. The most frequent adverse events leading to discontinuation were nausea (1.9%), diarrhoea (0.6%) and vomiting (0.6%), and were generally reported within the first 4-6 weeks.

The following related adverse effects have been identified based on evaluation of the full duration of Phase 2 and Phase 3 clinical studies and are listed below as MedDRA preferred term by system organ class and in order of decreasing incidence. Within each incidence grouping, adverse reactions are presented in order of decreasing frequency.

Table 2 Adverse Reactions in Placebo-Controlled Trial Reported in ≥5% of TRULICITY Patients

Adverse Reaction	Dulaglutide 1.5 mg	Placebo	
	N= 834	N=568	
Nausea	21.1%	5.3%	
Diarrhoea ^a	12.6%	6.7%	
Vomiting ^b	12.7%	2.3%	
Abdominal Pain ^c	9.4%	4.9%	
Decreased Appetite	8.6%	1.6%	
Dyspepsia	5.8%	2.3%	
Fatigue ^d	5.6%	2.6%	

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Note: Percentages reflect the number of patients that reported at least 1 treatment-emergent occurrence of the adverse reaction.

Gastrointestinal disorders

Gastrointestinal events (nausea, vomiting and diarrhoea) reported were typically mild or moderate in severity. The onset of nausea, vomiting and diarrhoea was observed to peak during the first two weeks of treatment and rapidly decline over the next four weeks, after which they remained relatively constant.

In clinical pharmacology studies conducted in patients with type 2 diabetes mellitus up to 6 weeks, the majority of gastrointestinal events were reported during the first 2-3 days after the initial dose and declined with subsequent doses.

General Disorders and Administration Site Conditions

Potentially immune-mediated injection site adverse events (e.g., rash, erythema) have been reported in 0.7% of patients receiving dulaglutide and have usually been mild.

Immunogenicity – In clinical studies treatment with dulaglutide at any dose was associated with a 1.6% incidence of treatment emergent dulaglutide anti-drug antibodies.

Hypersensitivity - Systemic hypersensitivity events (eg urticaria, oedema) have been reported in 0.3% of patients receiving dulaglutide 1.5 mg once weekly, compared to 0.7% in placebo. Systemic hypersensitivity events were reported in 0.5% of patients receiving dulaglutide at any dose. In the 1.6% of dulaglutide-treated patients with treatment emergent anti-drug antibodies, there were no systemic hypersensitivity adverse events reported.

Investigations

Dulaglutide is associated with a small mean increase in heart rate of 2 to 4 beats per minute and a 1.4% incidence of sinus tachycardia with a concomitant increase from baseline of ≥15 beats per minute.

Dulaglutide is associated with small mean increases from baseline in PR interval of 2 to 3 msec and a 2.4% incidence of first-degree atrioventricular block.

Dulaglutide is associated with mean increases from baseline in pancreatic enzymes (pancreatic amylase and/or lipase) of 15% to 20% (see Warnings and Precautions)

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^a includes diarrhoea, fecal volume increased, frequent bowel movements.

^b includes retching, vomiting, vomiting projectile.

^c includes abdominal discomfort, abdominal pain, abdominal pain lower, abdominal pain upper, abdominal tenderness, gastrointestinal pain.

^d includes fatigue asthenia, malaise.

Metabolic and Nutrition Disorders Table 3 Rates of Symptomatic Hypoglycaemia in Phase 3 Studies for Dulaglutide (1.5 mg)

Study	N	n ^a (%)				
Monotherapy Study H9X-MC-GBDC						
Dulaglutide	269	17 (6.3%)				
Metformin	268	13 (4.9%)				
Add on to metformin Study H9X-MC-GBCF						
Dulaglutide	304	33 (10.9%)				
Sitagliptin	315	18 (5.7%)				
Add on to metformin & TZD Study H9X-MC-GBDA						
Dulaglutide	279	18 (6.5%)				
Exenatide	276	37 (13.4%)				
Add on to metformin & sulfonylurea Study H9X-MC-GBDB						
Dulaglutide	273	110 (40.3%)				
Insulin glargine	262	134 (51.1%)				
Add on to insulin lispro ± metformin Study H9X-MC-GBDD						
Dulaglutide	295	236 (80.0%)				
Insulin glargine	296	247 (83.4%)				

a number of patients experiencing at least one episode of documented symptomatic hypoglycaemia (plasma glucose ≤70 mg/dL)

Combination with insulin secretagogues and/or insulin – Documented symptomatic hypoglycaemia was reported very commonly when TRULICITY was administered concomitantly with metformin plus glimepiride and when TRULICITY was administered concomitantly with prandial insulin. When dulaglutide was used in combination with metformin and a sulfonylurea or with prandial insulin the rates of hypoglycaemia were 1.67 events/patient/year and 31.06 events/patient/year, respectively. The rates of severe hypoglycaemia events were 0.01 events/patient/year and 0.06 events/patient/year, respectively.

Combination with non-secretagogues – Documented symptomatic hypoglycaemia was reported very commonly when TRULICITY was administered concomitantly with metformin and was reported commonly when TRULICITY was administered concomitantly with metformin and pioglitazone. When dulaglutide was used in combination with a non-secretagogue, the rates of hypoglycaemia were 0.19 to 0.26events/patient/year, and no episodes of severe hypoglycaemia were reported.

Monotherapy – documented symptomatic hypoglycaemia was reported commonly when TRULICITY was administered as monotherapy. The rate of hypoglycaemia was 0.62 events/patient/year and no episodes of severe hypoglycaemia were reported.

DOSAGE AND ADMINISTRATION

General

TRULICITY should be administered once weekly. The dose can be administered at any time of the day, with or without meals, and can be injected subcutaneously in the

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abdomen, thigh or upper arm. TRULICITY should not be administered intravenously or intramuscularly. TRULICITY is for single use in one patient only. Discard the pen once the injection is completed.

Use in Adults (≥ 18 years)

The recommended dose of TRULICITY is 1.5 mg per week. Administer TRULICITY once weekly, at any time of day, independently of meals.

Use in Elderly (≥ 65 years)

No dose adjustment is required based on age. The therapeutic experience in patients ≥75 years is limited.

Use in Children and adolescents

The safety and effectiveness of TRULICITY have not been established in children and adolescents under 18 years of age.

Use in Renal Impairment

No dose adjustment is required in patients with mild or moderate renal impairment. There is limited experience in patients with severe renal impairment (eGFR [by CKD EPI] <30 ml/min/1.73 m²) or end-stage renal disease, therefore TRULICITY is not recommended in this population (see PRECAUTIONS).

Use in Hepatic Impairment

No dose adjustment is required based on hepatic impairment.

Missed dose - If a dose is missed, it should be administered as soon as possible if there are at least 3 days (72 hours) until the next scheduled dose. If less than 3 days remain before the next scheduled dose, the missed dose should be skipped and the next dose should be administered on the regularly scheduled day. In each case, patients can then resume their regular once weekly dosing schedule.

Changing Weekly Dosage Schedule - The day of weekly administration can be changed, if necessary, as long as the last dose was administered 3 or more days before.

OVERDOSAGE

Effects of overdose in dulaglutide studies have included gastrointestinal disorders and hypoglycaemia. In the event of overdose, appropriate supportive treatments should be initiated according to the patient's clinical signs and symptoms.

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PRESENTATION AND STORAGE CONDITIONS

TRULICITY is available as a single use pen or a prefilled syringe. The product is contained in a 1mL-long, Type 1 borosilicate glass, syringe with a bromobutyl plunger. The syringe has a 29G thin wall ½" staked needle.

TRULICITY is available in pack sizes of 1, 2 or 4 single use pens or prefilled syringes. Not all variants or pack sizes may be marketed.

Storage Conditions

TRULICITY single use pens and prefilled syringes should be stored at 2 - 8°C. Refrigerate. Do not freeze. TRULICITY may be stored unrefrigerated for up to 14 days at temperatures up to 30°C. Protect from light.

NAME AND ADDRESS OF SPONSOR

Eli Lilly Australia Pty. Limited 112 Wharf Road, West Ryde, NSW 2114 AUSTRALIA

POISON SCHEDULE OF THE MEDICINE

S4

DATE OF FIRST INCLUSION IN THE AUSTRALIAN REGISTER OF THERAPEUTIC GOODS (THE ARTG)

19 January 2015

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