

ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS

▼ This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. NAME OF THE MEDICINAL PRODUCT

Dazparda 100 units/ml solution for injection in pre-filled pen

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each pre-filled pen contains 3 ml equivalent to 300 units. 1 ml solution contains 100 units insulin aspart* (equivalent to 3.5 mg).

*Insulin aspart is produced in *E.coli* by recombinant DNA technology.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Solution for injection in pre-filled pen (VitaClick).

Clear, colourless and aqueous.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Dazparda is indicated for treatment of diabetes mellitus in adults, adolescents and children aged 1 year and above.

4.2 Posology and method of administration

Posology

The potency of insulin analogues, including insulin aspart, is expressed in units, whereas the potency of human insulin is expressed in international units.

Dazparda dosing is individual and determined in accordance with the needs of the patient. It should normally be used in combination with intermediate-acting or long-acting insulin.

Blood glucose monitoring and insulin dose adjustments are recommended to achieve optimal glycaemic control.

The individual insulin requirement in adults and children is usually between 0.5 and 1.0 unit/kg/day. In a basal-bolus treatment regimen 50%–70% of this requirement may be provided by Dazparda and the remainder by intermediate-acting or long-acting insulin.

Adjustment of dose may be necessary if patients undertake increased physical activity, change their usual diet or during concomitant illness.

Special populations

Elderly (≥ 65 years old)

Insulin aspart can be used in elderly patients.

In elderly patients, glucose monitoring should be intensified and the insulin aspart dose adjusted on an individual basis.

Renal impairment

Renal impairment may reduce the patient's insulin requirements.

In patients with renal impairment, glucose monitoring should be intensified and the insulin aspart dose adjusted on an individual basis.

Hepatic impairment

Hepatic impairment may reduce the patient's insulin requirements.

In patients with hepatic impairment, glucose monitoring should be intensified and the insulin aspart dose adjusted on an individual basis.

Paediatric population

Insulin aspart can be used in children and adolescents aged 1 year and above in preference to soluble human insulin when a rapid onset of action might be beneficial, for example, in the timing of the injections in relation to meals (see sections 5.1 and 5.2).

The safety and efficacy of insulin aspart in children below 1 year of age have not been established. No data are available.

Transfer from other insulin medicinal products

When transferring from other insulin medicinal products, adjustment of the Dazpada dose and the dose of the basal insulin may be necessary. Dazpada has a faster onset and a shorter duration of action than soluble human insulin. When injected subcutaneously into the abdominal wall, the onset of action will occur within 10–20 minutes of injection. The maximum effect is exerted between 1 and 3 hours after the injection. The duration of action is 3 to 5 hours.

Close glucose monitoring is recommended during the transfer and in the initial weeks thereafter (see section 4.4).

Method of administration

Insulin aspart is a rapid-acting insulin analogue.

Insulin aspart is administered subcutaneously by injection in the abdominal wall, the thigh, the upper arm, the deltoid region or the gluteal region. Injection sites should always be rotated within the same region in order to reduce the risk of lipodystrophy and cutaneous amyloidosis (see sections 4.4 and 4.8). Subcutaneous injection in the abdominal wall ensures a faster absorption than other injection sites. Compared to soluble human insulin the faster onset of action of insulin aspart is maintained regardless of the injection site. The duration of action will vary according to the dose, injection site, blood flow, temperature and level of physical activity.

Due to the faster onset of action, insulin aspart should generally be given immediately before a meal. When necessary, insulin aspart can be given soon after a meal.

Dazpada 100 units/ml solution for injection in pre-filled pen

Each pre-filled pen delivers 1–60 units in increments of 1 unit. The pre-filled pen is only suitable for subcutaneous injections.

Patients must visually verify the dialled units on the dose counter of the pen. Therefore, the requirement for patients to self-inject is that they can read the dose counter on the pen. Patients who are blind or have poor vision must be instructed to always get help/assistance from another person who has good vision and is trained in using the insulin device.

Dazparda is only available as 100 units/ml solution for injection in pre-filled pen, for subcutaneous use only. Therefore, if an alternative route of administration is required, other insulin aspart medicinal products offering such options should be used.

For detailed user instructions, please refer to the package leaflet.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients (see section 6.1).

4.4 Special warnings and precautions for use

Traceability

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

Hyperglycaemia

Inadequate dosing or discontinuation of treatment, especially in type 1 diabetes, may lead to hyperglycaemia and diabetic ketoacidosis. Usually, the first symptoms of hyperglycaemia develop gradually over a period of hours or days. They include thirst, increased frequency of urination, nausea, vomiting, drowsiness, flushed dry skin, dry mouth, loss of appetite as well as acetone odour of breath. In type 1 diabetes, untreated hyperglycaemic events eventually lead to diabetic ketoacidosis, which is potentially lethal.

Hypoglycaemia

Omission of a meal or unplanned, strenuous physical exercise may lead to hypoglycaemia. Especially in children, care should be taken to match insulin doses (especially in basal-bolus regimens) with food intake, physical activities and current blood glucose level in order to minimise the risk of hypoglycaemia.

Hypoglycaemia may occur if the insulin dose is too high in relation to the insulin requirement. In case of hypoglycaemia or if hypoglycaemia is suspected insulin aspart must not be injected. After stabilisation of patient's blood glucose adjustment of the dose should be considered (see sections 4.8 and 4.9).

Patients whose blood glucose control is greatly improved, e.g. by intensified insulin therapy, may experience a change in their usual warning symptoms of hypoglycaemia, and should be advised accordingly. Usual warning symptoms may disappear in patients with longstanding diabetes.

A consequence of the pharmacodynamics of rapid-acting insulin analogues is that if hypoglycaemia occurs, it may occur earlier after an injection when compared with soluble human insulin.

Since insulin aspart should be administered in immediate relation to a meal, the rapid onset of action should be considered in patients with concomitant diseases or treatment where a delayed absorption of food might be expected.

Concomitant illness, especially infections and feverish conditions, usually increases the patient's insulin requirements. Concomitant diseases in the kidney, liver or affecting the adrenal, pituitary or thyroid gland can require changes in the insulin dose.

When patients are transferred between different types of insulin medicinal products, the early warning symptoms of hypoglycaemia may change or become less pronounced than those experienced with their previous insulin.

Transfer from other insulin medicinal products

Transferring a patient to another type or brand of insulin should be done under strict medical supervision. Changes in strength, brand (manufacturer), type, origin (animal, human insulin or human insulin analogue) and/or method of manufacture (recombinant DNA versus animal source insulin) may result in the need for a change in dose. Patients transferred to insulin aspart from another type of insulin may require an increased number of daily injections or a change in dose from that used with their usual insulin medicinal products. If an adjustment is needed, it may occur with the first dose or during the first few weeks or months.

Injection site reactions

As with any insulin therapy, injection site reactions may occur and include pain, redness, hives, inflammation, bruising, swelling and itching. Continuous rotation of the injection site within a given area reduces the risk of developing these reactions. Reactions usually resolve in a few days to a few weeks. On rare occasions, injection site reactions may require discontinuation of insulin aspart.

Skin and subcutaneous tissue disorders

Patients must be instructed to perform continuous rotation of the injection site to reduce the risk of developing lipodystrophy and cutaneous amyloidosis. There is a potential risk of delayed insulin absorption and worsened glycaemic control following insulin injections at sites with these reactions. A sudden change in the injection site to an unaffected area has been reported to result in hypoglycaemia. Blood glucose monitoring is recommended after the change in the injection site from an affected to an unaffected area, and dose adjustment of antidiabetic medications may be considered.

Combination of insulin aspart with pioglitazone

Cases of cardiac failure have been reported when pioglitazone was used in combination with insulin, especially in patients with risk factors for development of cardiac heart failure. This should be kept in mind if treatment with the combination of pioglitazone and insulin aspart is considered. If the combination is used, patients should be observed for signs and symptoms of heart failure, weight gain and oedema. Pioglitazone should be discontinued if any deterioration in cardiac symptoms occurs.

Avoidance of accidental mix-ups/medication errors

Patients must be instructed to always check the insulin label before each injection to avoid accidental mix-ups between insulin aspart and other insulin products.

Insulin antibodies

Insulin administration may cause insulin antibodies to form. In rare cases, the presence of such insulin antibodies may necessitate adjustment of the insulin dose in order to correct a tendency to hyper- or hypoglycaemia.

Travel

Before travelling between different time zones, the patient should seek the doctor's advice since this may mean that the patient has to take the insulin and meals at different times.

Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per dose, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

A number of medicinal products are known to interact with the glucose metabolism.

The following substances may reduce the patient's insulin requirements:

Oral antidiabetic medicinal products, monoamine oxidase inhibitors (MAOI), beta-blockers, angiotensin converting enzyme (ACE) inhibitors, salicylates, anabolic steroids and sulphonamides.

The following substances may increase the patient's insulin requirements:

Oral contraceptives, thiazides, glucocorticoids, thyroid hormones, sympathomimetics, growth hormone and danazol.

Beta-blockers may mask the symptoms of hypoglycaemia.

Octreotide/lanreotide may either increase or decrease the insulin requirement.

Alcohol may intensify or reduce the hypoglycaemic effect of insulin.

4.6 Fertility, pregnancy and lactation

Pregnancy

Dazparda (insulin aspart) can be used in pregnancy. Data from two randomised controlled clinical trials (322 and 27 exposed pregnancies) do not indicate any adverse effect of insulin aspart on pregnancy or on the health of the foetus/newborn when compared to human insulin (see section 5.1).

Intensified blood glucose control and monitoring of pregnant women with diabetes (type 1 diabetes, type 2 diabetes or gestational diabetes) are recommended throughout pregnancy and when contemplating pregnancy. Insulin requirements usually fall in the first trimester and increase subsequently during the second and third trimester. After delivery, insulin requirements normally return rapidly to pre-pregnancy values.

Breast-feeding

There are no restrictions on treatment with Dazparda during breast-feeding. Insulin treatment of the nursing mother presents no risk to the baby. However, the Dazparda dose may need to be adjusted.

Fertility

Animal reproduction studies have not revealed any differences between insulin aspart and human insulin regarding fertility.

4.7 Effects on ability to drive and use machines

The patient's ability to concentrate and react may be impaired as a result of hypoglycaemia. This may constitute a risk in situations where these abilities are of special importance (e.g. driving a car or operating machinery).

Patients should be advised to take precautions to avoid hypoglycaemia while driving. This is particularly important in those who have reduced or absent awareness of the warning signs of hypoglycaemia or have frequent episodes of hypoglycaemia. The advisability of driving should be considered in these circumstances.

4.8 Undesirable effects

Summary of the safety profile

Adverse reactions observed in patients using insulin aspart are mainly due to the pharmacologic effect of insulin.

The most frequently reported adverse reaction during treatment is hypoglycaemia. The frequencies of hypoglycaemia vary with patient population, dose regimens and level of glycaemic control (see section 4.8, Description of selected adverse reactions).

At the beginning of the insulin treatment, refraction anomalies, oedema and injection site reactions (pain, redness, hives, inflammation, bruising, swelling and itching at the injection site) may occur. These reactions are usually of transitory nature. Fast improvement in blood glucose control may be associated with acute painful neuropathy, which is usually reversible. Intensification of insulin therapy with abrupt improvement in glycaemic control may be associated with temporary worsening of diabetic retinopathy, while long-term improved glycaemic control decreases the risk of progression of diabetic retinopathy.

Tabulated list of adverse reactions

Adverse reactions listed below are based on clinical trial data and classified according to MedDRA frequency and System Organ Class. Frequency categories are defined according to the following convention: Very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1\ 000$ to $< 1/100$); rare ($\geq 1/10\ 000$ to $< 1/1\ 000$); very rare ($< 1/10\ 000$); not known (cannot be estimated from the available data).

Immune system disorders	Uncommon – Urticaria, rash, eruptions
	Very rare – Anaphylactic reactions*
Metabolism and nutrition disorders	Very common – Hypoglycaemia*
Nervous system disorders	Rare – Peripheral neuropathy (painful neuropathy)
Eye disorders	Uncommon – Refraction disorders
	Uncommon – Diabetic retinopathy
Skin and subcutaneous tissue disorders	Uncommon – Lipodystrophy*
	Not known – Cutaneous amyloidosis*†

General disorders and administration site conditions	Uncommon – Injection site reactions
	Uncommon – Oedema

* see section 4.8, Description of selected adverse reactions.

† ADR from post-marketing sources.

Description of selected adverse reactions

Anaphylactic reactions

The occurrence of generalised hypersensitivity reactions (including generalised skin rash, itching, sweating, gastrointestinal upset, angioneurotic oedema, difficulties in breathing, palpitation and reduction in blood pressure) is very rare but can potentially be life threatening.

Hypoglycaemia

The most frequently reported adverse reaction is hypoglycaemia. It may occur if the insulin dose is too high in relation to the insulin requirement. Severe hypoglycaemia may lead to unconsciousness and/or convulsions and may result in temporary or permanent impairment of brain function or even death. The symptoms of hypoglycaemia usually occur suddenly. They may include cold sweats, cool pale skin, fatigue, nervousness or tremor, anxiousness, unusual tiredness or weakness, confusion, difficulty in concentration, drowsiness, excessive hunger, vision changes, headache, nausea and palpitation.

In clinical trials, the frequency of hypoglycaemia varied with patient population, dose regimens and level of glycaemic control. During clinical trials the overall rates of hypoglycaemia did not differ between patients treated with insulin aspart compared to human insulin.

Skin and subcutaneous tissue disorders

Lipodystrophy (including lipohypertrophy, lipoatrophy) and cutaneous amyloidosis may occur at the injection site and delay local insulin absorption. Continuous rotation of the injection site within the given injection area may help to reduce or prevent these reactions (see section 4.4).

Paediatric population

Based on post-marketing sources and clinical trials, the frequency, type and severity of adverse reactions observed in the paediatric population do not indicate any differences to the broader experience in the general population.

Other special populations

Based on post-marketing sources and clinical trials, the frequency, type and severity of adverse reactions observed in the elderly patients and in patients with renal or hepatic impairment do not indicate any differences to the broader experience in the general population.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via **the national reporting system** listed in [Appendix V](#).

4.9 Overdose

A specific overdose for insulin cannot be defined, however, hypoglycaemia may develop over sequential stages if too high doses relative to the patient's requirement are administered:

- Mild hypoglycaemic episodes can be treated by oral administration of glucose or sugary products. It is therefore recommended that the diabetic patient always carries sugar-containing products.
- Severe hypoglycaemic episodes, where the patient has become unconscious, can be treated with glucagon (0.5 to 1 mg) given intramuscularly or subcutaneously by a trained person, or with glucose given intravenously by physicians or other healthcare staff. Glucose must be given intravenously, if the patient does not respond to glucagon within 10 to 15 minutes. Upon regaining consciousness, administration of oral carbohydrates is recommended for the patient in order to prevent a relapse.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Drugs used in diabetes. Insulins and analogues for injection, fast-acting. ATC code: A10AB05.

Dazparda is a biosimilar medicinal product. Detailed information is available on the website of the European Medicines Agency <https://www.ema.europa.eu/en>.

Mechanism of action and pharmacodynamic effects

The blood glucose lowering effect of insulin aspart is due to the facilitated uptake of glucose following binding of insulin to receptors on muscle and fat cells and to the simultaneous inhibition of glucose output from the liver.

Insulin aspart produces a more rapid onset of action compared to soluble human insulin, together with a lower glucose concentration, as assessed within the first four hours after a meal. Insulin aspart has a shorter duration of action compared to soluble human insulin after subcutaneous injection.

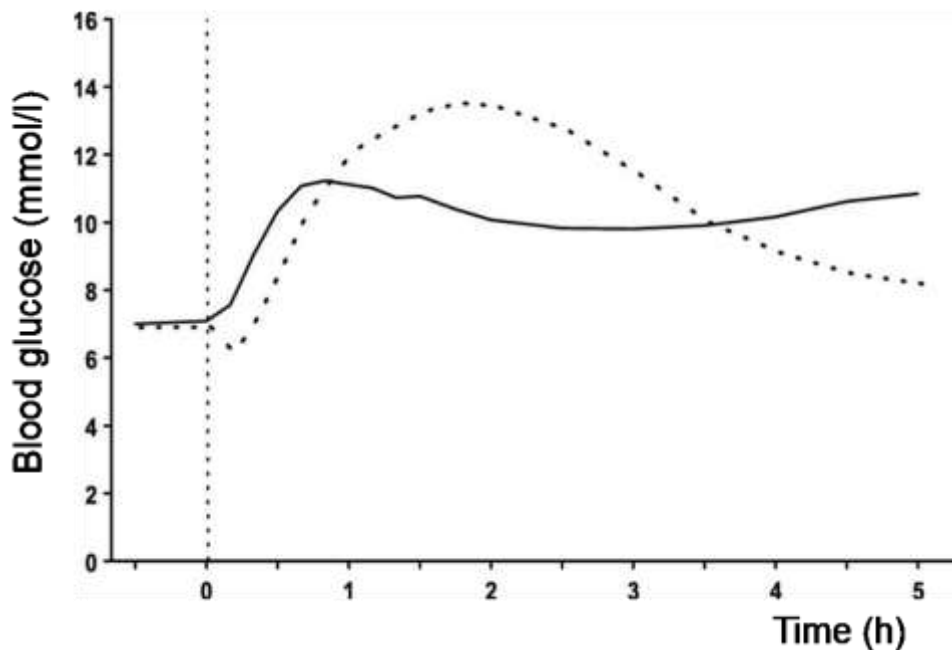


Fig. I. Blood glucose concentrations following a single pre-meal dose of insulin aspart injected immediately before a meal (solid curve) or soluble human insulin administered 30 minutes before a meal (hatched curve) in patients with type 1 diabetes mellitus.

When insulin aspart is injected subcutaneously, the onset of action will occur within 10 to 20 minutes of injection. The maximum effect is exerted between 1 and 3 hours after injection. The duration of action is 3 to 5 hours.

Clinical efficacy

Clinical trials in patients with type 1 diabetes have demonstrated a lower postprandial blood glucose with insulin aspart compared to soluble human insulin (Fig. I). In two long-term open label trials in patients with type 1 diabetes comprising 1 070 and 884 patients, respectively, insulin aspart reduced glycated haemoglobin by 0.12 [95% C.I. 0.03; 0.22] percentage points and by 0.15 [95% C.I. 0.05; 0.26] percentage points compared to human insulin; a difference of limited clinical significance.

Clinical trials in patients with type 1 diabetes have demonstrated a reduced risk of nocturnal hypoglycaemia with insulin aspart compared with soluble human insulin. The risk of daytime hypoglycaemia was not significantly increased.

Insulin aspart is equipotent to soluble human insulin on a molar basis.

Special populations

Elderly

A randomised, double-blind cross-over PK/PD trial comparing insulin aspart with soluble human insulin was performed in elderly patients with type 2 diabetes (19 patients aged 65–83 years, mean age 70 years). The relative differences in the pharmacodynamic properties (GIR_{max} , $AUC_{GIR, 0-120 \text{ min}}$) between insulin aspart and soluble human insulin in the elderly were similar to those seen in healthy subjects and in younger patients with diabetes.

Paediatric population

A clinical trial comparing preprandial soluble human insulin with postprandial insulin aspart was performed in small children (20 patients aged 2 to less than 6 years, studied for 12 weeks, among those four were younger than 4 years old) and a single dose PK/PD trial was performed in children (6–12 years) and adolescents (13–17 years). The pharmacodynamic profile of insulin aspart in children was similar to that seen in adults.

The efficacy and safety of insulin aspart given as bolus insulin in combination with either insulin detemir or insulin degludec as basal insulin has been studied for up to 12 months, in two randomised controlled clinical trials in adolescents and children aged 1 to less than 18 years ($n=712$). The trials included 167 children aged 1–5 years, 260 aged 6–11 and 285 aged 12–17. The observed improvements in HbA1c and the safety profiles were comparable between all age groups.

Pregnancy

A clinical trial comparing safety and efficacy of insulin aspart vs. human insulin in the treatment of pregnant women with type 1 diabetes (322 exposed pregnancies (insulin aspart: 157; human insulin: 165)) did not indicate any adverse effect of insulin aspart on pregnancy or on the health of the foetus/newborn.

In addition, the data from a clinical trial including 27 women with gestational diabetes randomised to treatment with insulin aspart vs. human insulin (insulin aspart: 14; human insulin: 13) showed similar safety profiles between treatments.

5.2 Pharmacokinetic properties

Absorption, distribution and elimination

In insulin aspart substitution of amino acid proline with aspartic acid at position B28 reduces the tendency to form hexamers as observed with soluble human insulin. Insulin aspart is therefore more rapidly absorbed from the subcutaneous layer compared to soluble human insulin.

The time to maximum concentration is, on average, half of that for soluble human insulin. A mean maximum plasma concentration of 492 ± 256 pmol/l was reached 40 (interquartile range: 30–40) minutes after a subcutaneous dose of 0.15 unit/kg bodyweight in type 1 diabetic patients. The insulin concentrations returned to baseline about 4 to 6 hours after dose. The absorption rate was somewhat slower in type 2 diabetic patients, resulting in a lower C_{\max} (352 ± 240 pmol/l) and later t_{\max} (60 (interquartile range: 50–90) minutes). The intra-individual variability in time to maximum concentration is significantly less for insulin aspart than for soluble human insulin, whereas the intraindividual variability in C_{\max} for insulin aspart is larger.

Special populations

Elderly

The relative differences in pharmacokinetic properties between insulin aspart and soluble human insulin in elderly patients (65–83 years, mean age 70 years) with type 2 diabetes were similar to those observed in healthy subjects and in younger patients with diabetes. A decreased absorption rate was observed in elderly patients, resulting in a later t_{\max} (82 (interquartile range: 60–120) minutes), whereas C_{\max} was similar to that observed in younger patients with type 2 diabetes and slightly lower than in patients with type 1 diabetes.

Hepatic impairment

A single dose pharmacokinetic study of insulin aspart was performed in 24 subjects with hepatic function ranging from normal to severely impaired. In patients with hepatic impairment, absorption rate was decreased and more variable, resulting in delayed t_{\max} from about 50 min in subjects with normal hepatic function to about 85 min in patients with moderate and severe hepatic impairment. AUC, C_{\max} and CL/F were similar in patients with reduced hepatic function compared with subjects with normal hepatic function.

Renal impairment

A single dose pharmacokinetic study of insulin aspart in 18 subjects with renal function ranging from normal to severely impaired was performed. No apparent effect of creatinine clearance values on AUC, C_{\max} , CL/F and t_{\max} of insulin aspart was found. Data were limited in patients with moderate and severe renal impairment. Patients with renal failure necessitating dialysis treatment were not investigated.

Paediatric population

The pharmacokinetic and pharmacodynamic properties of insulin aspart were investigated in children (6–12 years) and adolescents (13–17 years) with type 1 diabetes. Insulin aspart was rapidly absorbed in both age groups, with similar t_{\max} as in adults. However, C_{\max} differed between the age groups, stressing the importance of the individual titration of insulin aspart.

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity and toxicity to reproduction and development.

In *in vitro* tests, including binding to insulin and IGF-1 receptor sites and effects on cell growth, insulin aspart behaved in a manner that closely resembled human insulin. Studies also demonstrate that the dissociation of binding to the insulin receptor of insulin aspart is equivalent to human insulin.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Glycerol
Phenol
Metacresol
Zinc chloride
Disodium hydrogen phosphate
Sodium chloride
Hydrochloric acid (for pH adjustment)
Sodium hydroxide (for pH adjustment)
Water for injections

6.2 Incompatibilities

This medicinal product must not be diluted or mixed with other medicinal products.

6.3 Shelf life

Before opening

30 months.

During use or when carried as a spare

4 weeks.

Store below 30 °C. Do not freeze. Keep the pen cap on the pen in order to protect from light

6.4 Special precautions for storage

Store in a refrigerator (2 °C – 8 °C). Do not freeze.

For storage conditions of the medicinal product after first opening, see section 6.3.

6.5 Nature and contents of container

3 ml solution in cartridge (type 1 glass) with a plunger (bromobutyl) and a rubber closure (bromobutyl/polyisoprene) contained in a pre-filled multidose disposable pen made of polypropylene.

Pack sizes of 1 and 5 pre-filled pens (without needles). Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

Do not use this medicinal product if you notice that the solution is not clear, colourless and aqueous.

Dazparda which has been frozen must not be used.

Only use needles that are compatible for use with Dazparda pre-filled pen, which sizes compatible with this pen:

- 31G, 5 mm
- 32G, 4-6 mm
- 33G, 4 mm
- 34G, 4 mm

To prevent the possible transmission of disease, each pen must be used by one patient only, even if the needle is changed. Needles, syringes, and pre-filled pens must not be shared.

The patient should be advised to discard the needle after each injection.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Gan & Lee Pharmaceuticals Europe GmbH
Prinzenallee 11a
40549 Düsseldorf
Germany.

8. MARKETING AUTHORISATION NUMBERS

EU/1/26/2029/001
EU/1/26/2029/002

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation:

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency <https://www.ema.europa.eu>.

ANNEX II

- A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE
SUBSTANCE AND MANUFACTURERS RESPONSIBLE FOR
BATCH RELEASE**
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY
AND USE**
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE
MARKETING AUTHORISATION**
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE
SAFE AND EFFECTIVE USE OF THE MEDICINAL
PRODUCT**

A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers of the biological active substance

Gan & Lee Pharmaceuticals
No.8 Nanfeng West First Road
Huoxian Town
Tongzhou District
Beijing, China, 101109

Name and address of the manufacturers responsible for batch release

IL-CSM Clinical Supplies Management GmbH
Marie-Curie-Strasse 8
Loerrach, Baden-Wuerttemberg, 79539, Germany

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- **Periodic safety update reports (PSURs)**

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- **Risk management plan (RMP)**

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

ANNEX III
LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Dazparda 100 units/ml solution for injection in pre-filled pen
insulin aspart

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each pre-filled pen contains 3 ml equivalent to 300 units. 1 ml solution contains 100 units insulin
aspart (equivalent to 3.5 mg),

3. LIST OF EXCIPIENTS

glycerol, phenol, metacresol, zinc chloride, disodium hydrogen phosphate, sodium chloride,
hydrochloric acid/sodium hydroxide for pH adjustment and water for injections. See leaflet for further
information.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection in a pre-filled pen (VitaClick)

1 pen of 3 ml
5 pens of 3 ml

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Use solution only if clear and colourless
For use by one person only

Read the package leaflet before use
Subcutaneous use

**6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT
OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children

7. OTHER SPECIAL WARNING(S), IF NECESSARY

Only use needles that are compatible for use with Dazparda

8. EXPIRY DATE

EXP

During use: Use within 4 weeks

9. SPECIAL STORAGE CONDITIONS

Before opening: Store in a refrigerator (2°C to 8°C)

During use: Store below 30°C

Do not freeze

Keep the pen cap on in order to protect from light

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

Discard the needle after each injection

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Gan & Lee Pharmaceuticals

Europe GmbH

40549 Düsseldorf

Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/26/2029/001 1 pen of 3 ml

EU/1/26/2029/002 5 pens of 3 ml

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY**15. INSTRUCTIONS ON USE****16. INFORMATION IN BRAILLE**

Dazpada

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included

18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
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PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

PEN LABEL

1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION

Dazparda 100 units/ml solution for injection
insulin aspart
Subcutaneous use

2. METHOD OF ADMINISTRATION

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT

3 ml

6. OTHER

B. PACKAGE LEAFLET

Package leaflet: Information for the user

Dazparda 100 units/ml solution for injection in pre-filled pen insulin aspart

▼ This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, nurse or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk with your doctor, nurse or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

1. What Dazparda is and what it is used for
2. What you need to know before you use Dazparda
3. How to use Dazparda
4. Possible side effects
5. How to store Dazparda
6. Contents of the pack and other information

1. What Dazparda is and what it is used for

Dazparda is a modern insulin (insulin analogue) with a rapid-acting effect. Modern insulin products are improved versions of human insulin.

Dazparda is used to reduce the high blood sugar level in adults, adolescents and children aged 1 year and above with diabetes mellitus (diabetes). Diabetes is a disease where your body does not produce enough insulin to control the level of your blood sugar. Treatment with insulin aspart helps to prevent complications from your diabetes.

Insulin aspart will start to lower your blood sugar 10–20 minutes after you inject it, a maximum effect occurs between 1 and 3 hours after the injection and the effect lasts for 3–5 hours. Due to this short action insulin aspart should normally be taken in combination with intermediate-acting or long-acting insulin preparations.

2. What you need to know before you use Dazparda

Do not use Dazparda

- If you are allergic to insulin aspart, or any of the other ingredients of this medicine (listed in section 6).
- If you suspect hypoglycaemia (low blood sugar) is starting (see “a) Summary of serious and very common side effects” in section 4).
- If the pre-filled pen is dropped, damaged or crushed.
- If it has not been stored correctly or been frozen (see section 5 “How to store Dazparda”).

- If the insulin does not appear clear and colourless.

If any of these applies, do not use Dazparda. Talk with your doctor, nurse or pharmacist for advice.

Before using Dazparda

- Check the label to make sure it is the right type of insulin.
- Always use a new needle for each injection to prevent contamination.
- Needles and the pre-filled pen must not be shared.
- Dazparda is only suitable for injecting under the skin. Speak to your doctor if you need to inject your insulin by another method.

Warnings and precautions

Record the brand name (“Dazparda”) and Lot number (included on the outer cartons and labels of each pre-filled pen) of the product you are using and provide this information when reporting any side effects.

Some conditions and activities can affect your need for insulin. Consult your doctor:

- If you have trouble with your kidneys or liver, or with your adrenal, pituitary or thyroid glands.
- If you exercise more than usual or if you want to change your usual diet, as this may affect your blood sugar level.
- If you are ill, carry on taking your insulin and consult your doctor.
- If you are going abroad, travelling over time zones may affect your insulin needs and the timing of your injections.

Skin changes at the injection site

The injection site should be rotated to help prevent changes to the fatty tissue under the skin, such as skin thickening, skin shrinking or lumps under the skin. The insulin may not work very well if you inject into a lumpy, shrunken or thickened area (see section 3 “How to use Dazparda”). Tell your doctor if you notice any skin changes at the injection site. Tell your doctor if you are currently injecting into these affected areas before you start injecting in a different area. Your doctor may tell you to check your blood sugar more closely, and to adjust your insulin or your other antidiabetic medications dose.

Children and adolescents

Do not give this medicine to children below 1 year of age since no clinical studies have been carried out in children below the age of 1 year.

Other medicines and Dazparda

Tell your doctor, nurse or pharmacist if you are taking, have recently taken or might take any other medicines.

Some medicines affect your blood sugar level and this may mean that your insulin dose has to change. Listed below are the most common medicines which may affect your insulin treatment.

Your blood sugar level may fall (hypoglycaemia) if you take:

- Other medicines for the treatment of diabetes
- Monoamine oxidase inhibitors (MAOI) (used to treat depression)
- Beta-blockers (used to treat high blood pressure)
- Angiotensin converting enzyme (ACE) inhibitors (used to treat certain heart conditions or high blood pressure)
- Salicylates (used to relieve pain and lower fever)
- Anabolic steroids (such as testosterone)
- Sulphonamides (used to treat infections).

Your blood sugar level may rise (hyperglycaemia) if you take:

- Oral contraceptives (birth control pills)
- Thiazides (used to treat high blood pressure or excessive fluid retention)
- Glucocorticoids (such as ‘cortisone’ used to treat inflammation)

- Thyroid hormones (used to treat thyroid gland disorders)
- Sympathomimetics (such as epinephrine [adrenaline], or salbutamol, terbutaline used to treat asthma)
- Growth hormone (medicine for stimulation of skeletal and somatic growth and pronounced influence on the body's metabolic processes)
- Danazol (medicine acting on ovulation).

Octreotide and lanreotide (used for treatment of acromegaly, a rare hormonal disorder that usually occurs in middle-aged adults, caused by the pituitary gland producing excess growth hormone) may either increase or decrease your blood sugar level.

Beta-blockers (used to treat high blood pressure) may weaken or suppress entirely the first warning symptoms which help you to recognise low blood sugar.

Pioglitazone (tablets used for the treatment of type 2 diabetes)

Some patients with long-standing type 2 diabetes and heart disease or previous stroke who were treated with pioglitazone and insulin experienced the development of heart failure. Inform your doctor as soon as possible if you experience signs of heart failure such as unusual shortness of breath or rapid increase in weight or localised swelling (oedema).

If you have taken any of the medicines listed here, tell your doctor, nurse or pharmacist.

Dazparda and alcohol

If you drink alcohol, your need for insulin may change as your blood sugar level may either rise or fall. Careful monitoring is recommended.

Pregnancy and breast-feeding

If you are pregnant, think you may be pregnant or are planning to have a baby, ask your doctor for advice before taking this medicine. Dazparda can be used during pregnancy. Your insulin dose may need to be changed during pregnancy and after delivery. Careful control of your diabetes, particularly prevention of hypoglycaemia, is important for the health of your baby.

There are no restrictions on treatment with Dazparda during breast-feeding.

Ask your doctor, nurse or pharmacist for advice before taking this medicine while pregnant or breast-feeding.

Driving and using machines

Please ask your doctor whether you can drive a car or operate a machine:

- If you have frequent hypoglycaemia.
- If you find it hard to recognise hypoglycaemia.

If your blood sugar is low or high, your concentration and ability to react might be affected and therefore also your ability to drive or operate a machine. Bear in mind that you could endanger yourself or others.

Dazparda has a rapid onset of effect therefore if hypoglycaemia occurs, you may experience it earlier after an injection when compared to soluble human insulin.

Dazparda contains sodium

This medicine contains less than 1 mmol sodium (23 mg) per dose, i.e. that is to say essentially 'sodium-free'.

3. How to use Dazparda

Dose and when to use your insulin

Always use your insulin and adjust your dose exactly as your doctor has told you. Check with your doctor, nurse or pharmacist if you are not sure.

Insulin aspart is generally used immediately before a meal. Eat a meal or snack within 10 minutes of the injection to avoid low blood sugar. When necessary, insulin aspart can be given soon after a meal. See **How and where to inject** below for information.

Do not change your insulin unless your doctor tells you to. If your doctor has switched you from one type or brand of insulin to another, your dose may have to be adjusted by your doctor.

Use in children and adolescents

Insulin aspart can be used in adolescents and children aged 1 year and above instead of soluble human insulin when a rapid onset of effect is preferred. For example, when it is difficult to dose the child in relation to meals.

Use in special patient groups

If you have reduced kidney or liver function, or if you are above 65 years of age, you need to check your blood sugar more regularly and discuss changes in your insulin dose with your doctor.

How and where to inject

Dazparda is for injection under the skin (subcutaneously). You must never inject yourself directly into a vein (intravenously) or muscle (intramuscularly). Dazparda is only suitable for injecting under the skin. Speak to your doctor if you need to inject your insulin by another method.

With each injection, change the injection site within the particular area of skin that you use. This may reduce the risk of developing lumps or skin pitting (see section 4 “Possible side effects”). The best places to give yourself an injection are: the front of your waist (abdomen), the upper arm or the front of your thighs. The insulin will work more quickly if injected into the front of your waist. You should always measure your blood sugar regularly.

How to handle Dazparda pre-filled pen

Read carefully the instructions for use included in this package leaflet. You must use the pen as described in the INSTRUCTIONS FOR USE.

Always ensure you use the correct pen before you inject your insulin.

If you use more insulin than you should

If you use too much insulin your blood sugar gets too low (hypoglycaemia). See “a) Summary of serious and very common side effects” in section 4.

If you forget to use your insulin

If you forget to use your insulin your blood sugar may get too high (hyperglycaemia). See “c) Effects from diabetes” in section 4.

If you stop taking your insulin

Do not stop taking your insulin without speaking with a doctor, who will tell you what needs to be done. This could lead to very high blood sugar (severe hyperglycaemia) and ketoacidosis. See “c) Effects from diabetes” in section 4.

If you have any further questions on the use of this medicine, ask your doctor, nurse or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

a) Summary of serious and very common side effects

Low blood sugar (hypoglycaemia) is a very common side effect. It may affect more than 1 in 10 people.

Low blood sugar may occur if you:

- Inject too much insulin.
- Eat too little or miss a meal.
- Exercise more than usual.
- Drink alcohol (see “Dazparda and alcohol” in section 2).

Signs of low blood sugar: Cold sweat; cool pale skin; headache; rapid heartbeat; feeling sick; feeling very hungry; temporary changes in vision; drowsiness; unusual tiredness and weakness; nervousness or tremor; feeling anxious; feeling confused; difficulty in concentrating.

Severe low blood sugar can lead to unconsciousness. If prolonged severe low blood sugar is not treated, it can cause brain damage (temporary or permanent) and even death. You may recover more quickly from unconsciousness with an injection of the hormone glucagon by someone who knows how to use it. If you are given glucagon, you will need glucose or a sugar snack as soon as you are conscious. If you do not respond to glucagon treatment, you will have to be treated in a hospital.

What to do if you experience low blood sugar:

- If you experience low blood sugar, eat glucose tablets or another high sugar snack (e.g. sweets, biscuits, fruit juice). Measure your blood sugar if possible and rest. Always carry glucose tablets or high sugar snacks with you, just in case.
- When symptoms of low blood sugar have disappeared or when blood sugar level is stabilised, continue insulin treatment as usual.
- If you have such a low blood sugar that it makes you pass out, if you have had need for injection of glucagon, or if you have experienced many incidents of low blood sugar, talk with a doctor. The amount or timing of insulin, food or exercise may need to be adjusted.

Tell relevant people that you have diabetes and what the consequences may be, including the risk of passing out (become unconscious) due to low blood sugar. Let them know that if you pass out, they must turn you on your side and get medical help straight away. They must not give you any food or drink due to risk of suffocation.

Serious allergic reactions to Dazparda or one of its ingredients (called a systemic allergic reaction) is a very rare side effect but can potentially be life threatening. It may affect less than 1 in 10 000 people.

Seek medical advice immediately:

- If signs of allergy spread to other parts of your body.
- If you suddenly feel unwell, and you: start sweating; start being sick (vomiting); have difficulty in breathing; have a rapid heartbeat; feel dizzy.

If you notice any of these signs, seek medical advice immediately.

Skin changes at the injection site: If you inject insulin at the same place, the fatty tissue may shrink (lipoatrophy) or thicken (lipohypertrophy) (may affect less than 1 in 100 people). Lumps under the skin may also be caused by build-up of a protein called amyloid (cutaneous amyloidosis; how often this occurs is not known). The insulin may not work very well if you inject into a lumpy, shrunken or thickened area. Change the injection site with each injection to help prevent these skin changes.

b) List of other side effects

Uncommon side effects (may affect less than 1 in 100 people)

Signs of allergy: Local allergic reactions (pain, redness, hives, inflammation, bruising, swelling and itching) at the injection site may occur. These usually disappear after a few weeks of taking your insulin. If they do not disappear, or if they spread throughout your body, talk to your doctor immediately. See also Serious allergic reactions above.

Vision problems: When you first start your insulin treatment, it may disturb your vision, but the disturbance is usually temporary.

Swollen joints: When you start taking insulin, water retention may cause swelling around your ankles and other joints. Normally this soon disappears. If not, talk to your doctor.

Diabetic retinopathy (an eye disease related to diabetes which can lead to loss of vision): If you have diabetic retinopathy and your blood sugar level improves very fast, the retinopathy may get worse. Ask your doctor about this.

Rare side effects (may affect less than 1 in 1 000 people)

Painful neuropathy (pain due to nerve damage): If your blood sugar level improves very fast, you may get nerve related pain. This is called acute painful neuropathy and is usually transient.

Reporting of side effects

If you get any side effects, talk with your doctor, nurse or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via [the national reporting system](#) listed in [Appendix V](#). By reporting side effects you can help provide more information on the safety of this medicine.

c) Effects from diabetes

High blood sugar (hyperglycaemia)

High blood sugar may occur if you:

- Have not injected enough insulin.
- Forget to inject your insulin or stop taking insulin.
- Repeatedly inject less insulin than you need.
- Get an infection and/or a fever.
- Eat more than usual.
- Exercise less than usual.

Warning signs of high blood sugar:

The warning signs appear gradually. They include: increased urination; feeling thirsty; losing your appetite; feeling sick (nausea or vomiting); feeling drowsy or tired; flushed; dry skin; dry mouth and a fruity (acetone) smell of the breath.

What to do if you experience high blood sugar:

- If you get any of the above signs: test your blood sugar level, test your urine for ketones if you can, then seek medical advice immediately.
- These may be signs of a very serious condition called diabetic ketoacidosis (build-up of acid in the blood because the body is breaking down fat instead of sugar). If you do not treat it, this could lead to diabetic coma and eventually death.

5. How to store Dazparda

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the pre-filled pen label and carton, after 'EXP'. The expiry date refers to the last day of that month.

Always keep the pen cap on your pre-filled pen when you are not using it in order to protect it from light.

Before opening: Dazparda pre-filled pen that is not being used is to be stored in the refrigerator at 2°C to 8°C, away from the cooling element. Do not freeze.

During use or when carried as a spare: You can carry your Dazparda pre-filled pen with you and keep it at a temperature below 30°C for up to 4 weeks. Do not freeze.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Dazparda contains

- The active substance is insulin aspart. Each ml contains 100 units of insulin aspart. Each pre-filled pen contains 300 units of insulin aspart in 3 ml solution for injection.
- The other ingredients are glycerol, phenol, metacresol, zinc chloride, disodium hydrogen phosphate, sodium chloride, hydrochloric acid, sodium hydroxide (see section 2 "Dazparda contains sodium"), and water for injections.

What Dazparda looks like and contents of the pack

Dazparda 100 units/ml solution for injection in a pre-filled pen (VitaClick) is a clear, colourless and aqueous solution.

Pack sizes of 1 and 5 (without needles) pre-filled pens of 3 ml. Not all pack sizes may be marketed.

Marketing Authorisation Holder

Gan & Lee Pharmaceuticals Europe GmbH, Prinzenallee 11a, 40549 Düsseldorf, Germany.

Manufacturer

IL-CSM Clinical Supplies Management GmbH Marie-Curie-Strasse 8 Loerrach, Baden-Wuerttemberg, 79539, Germany

Now turn over for information on how to use your pre-filled pen.

This leaflet was last revised in

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency website:

<https://www.ema.europa.eu>.

INSTRUCTIONS FOR USE

Dazparda solution for injection in pre-filled pen (VitaClick)

Dazparda (VitaClick) is a pre-filled pen for the injection of insulin aspart.

Talk with your doctor, pharmacist or nurse about proper injection technique before using Dazparda.

People who are blind or have vision problems should not use the Pen without help from a person trained to use the pen.

Read all package leaflet information and instructions carefully before using your Dazparda. If you are not able to use Dazparda or follow all the instructions completely on your own, you must use Dazparda only if you have help from a person who is able to follow the instructions completely.

You can set doses from 1 to 60 units in steps of 1 unit. You can give yourself multiple doses using one pen. If your prescribed dose is more than 60 units, you will need to give yourself more than 1 injection.

Keep this leaflet for future reference.

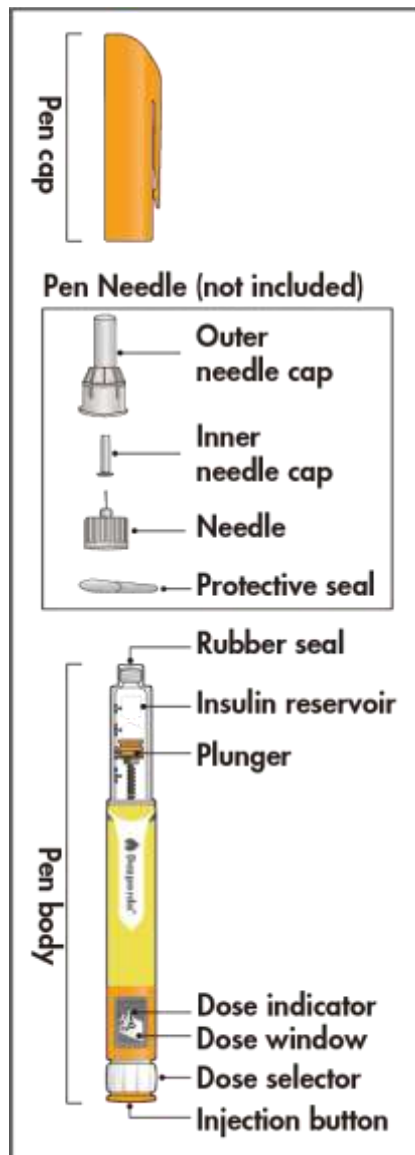


Figure A Overview Dazparda pre-filled pen (VitaClick) and needles (example)

Important information you need to know before injecting Dazparda

- **Always read the label of your pen before injecting.** If you use more than 1 type of insulin Pen, store the Pens with different medicine in separate areas and read the label of your pen before injecting. If you take the wrong type of insulin, your blood sugar level may get too high or too low.
- **Do not share your Dazparda with other people, even if the needle has been changed. This pen is only for your use.** You may give other people a serious infection, or get a serious infection from them.
- **Do not** use your pen, if it is damaged or if you are not sure that it is working properly. Be careful not to bend or damage the needle before use.
- **Do not** select a dose and/or press the injection button without a needle attached.
- **Do not** re-use needles. Always attach a new needle before each use.
- If your injection is given by another person, special caution must be taken by this person to avoid accidental needle injury and transmission of infection.
- Always perform the safety test before each injection (see **Step 3**).
- Always have a spare pen and spare needles in case they get lost or damaged.

Need Help?

If you have any questions about Dazparda or about diabetes, ask your doctor, pharmacist or nurse or call the local representative number on the front of this leaflet.

Materials needed

Make sure you have the following items:

Included in your carton

- Your Dazparda (see **Figure A**)

Not included in your carton (Obtain separately)

- New sterile needle. Only use needles that are compatible for use with Dazparda pre-filled pen, which sizes compatible with this pen:
 - **31G, 5 mm**
 - **32G, 4-6 mm**
 - **33G, 4 mm**
 - **34G, 4 mm**
- Alcohol swab
- Sharps disposal container for used needles

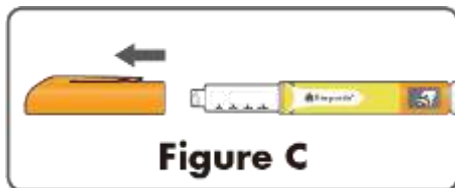
Step 1. Check the pen and insulin

If your Dazparda is in the refrigerator, take it out 1 to 2 hours before you inject to allow it to reach room temperature. Injecting cold insulin can be uncomfortable.

- Wash your hands with soap and water.
- A. Check the name of the pen, to **make sure you have the correct insulin** (see **Figure B**) – this is especially important if you have other pens.
- Dazparda is orange and yellow with an orange injection button.



- B. Check the expiration date (EXP).
- **Do not** use your pen after the expiration date.
- C. Pull off the pen cap (see **Figure C**).

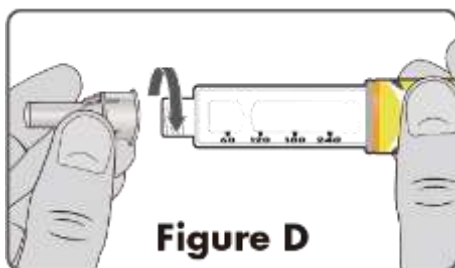


- D. Check the appearance of the insulin. Dazparda is a clear insulin.
- **Do not** use your pen, if the insulin does not appear clear and colourless.

Step 2. Attach a new needle

Always use a new sterile needle for each injection. This helps prevent contamination and potential needle blocks.

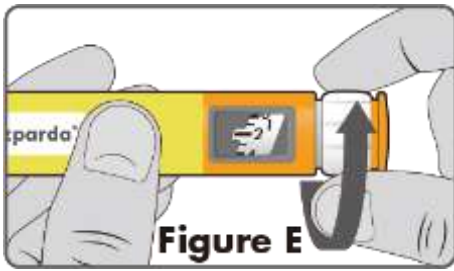
- A. Wipe the rubber seal with an alcohol swab.
- B. Remove the protective seal from a new needle.
- C. Keep the needle straight and screw it onto the pen until fixed (see **Figure D**).
- If the needle is not kept straight while you attach it, it can damage the rubber seal, cause the insulin to leak, or break the needle.



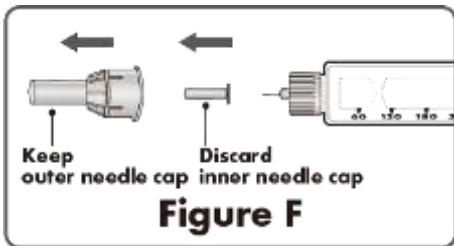
Step 3. Perform a safety test

Always perform a safety test before each injection to:

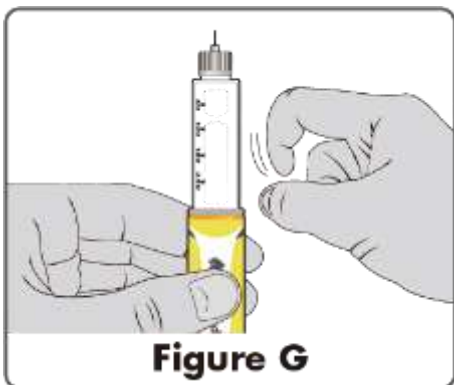
- make sure the pen and needle work properly.
 - make sure you get the correct dose by removing air bubbles.
- A. Select a dose of 2 units by turning the dose selector (see **Figure E**).
- If necessary, the selected dose can be corrected by turning the dose selector back down.



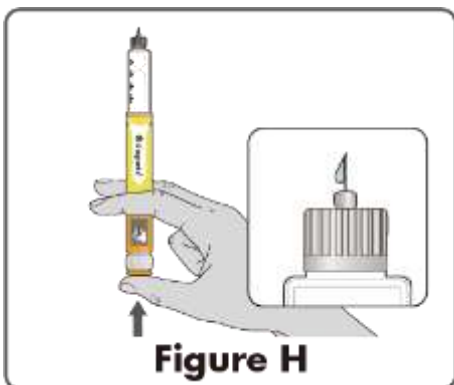
- B. Pull off the outer needle cap (see **Figure F**) and keep it to remove the used needle after injection.
- C. Pull off the inner needle cap (see **Figure F**) and discard it.



- D. Hold the pen with the needle pointing upwards. Tap the insulin reservoir (see **Figure G**) so that any air bubbles rise up towards the needle.



- E. Press the injection button all the way in (see **Figure H**).
- Check if insulin comes out of the needle tip. Your pen is working correctly if insulin comes out of the needle. If you do not check the insulin flow, you may get too little insulin or no insulin at all. This may lead to too high blood sugar level.



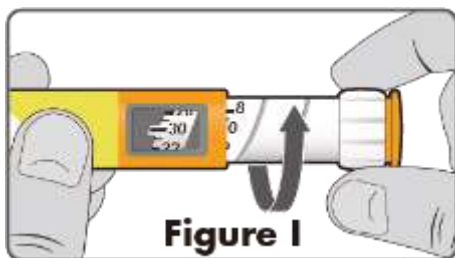
You may have to perform the safety test several times before insulin comes out of the needle tip.

- If no insulin comes out of the needle tip, check for air bubbles and repeat the safety test two more times to remove them.
- If still no insulin comes out, the needle may be blocked. Change the needle and repeat the safety test (see **Step 3**).
- If no insulin comes out after changing the needle, your pen may be damaged. **Do not** use this pen. Use a new pen.

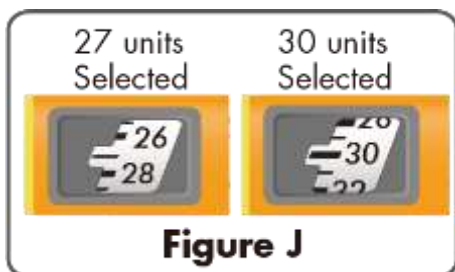
Step 4. Select your dose

You can set the dose from 1 to 60 units in steps of 1 unit of insulin (one step equals 1 unit of insulin). If you need a dose greater than 60 units, you should give it as two or more injections.

- Check that the dose window shows "0" following the safety test.
- Select your required dose by turning the dose selector until the dose indicator lines up with your dose (see **Figure I**: selected dose is 30 units in this example).



- If you turn past your dose, you can turn back down.
- You will hear a click for every single unit dialled. **Do not** set the dose by counting the number of clicks you hear because you may get an incorrect dose. Even numbers are shown in line with the dose indicator, odd numbers are shown as a line between even numbers (see **Figure J**).



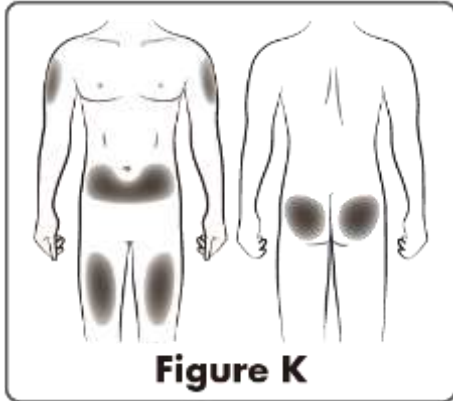
- Always check the number in the Dose Window to make sure you have dialed the correct dose.
- The pen will not let you dial more than the number of units left in the pen.
- If the insulin left in the pen is less than your dose, inject what is remaining in the pen and complete your dose with a new pen, or use a new pen for your full dose.
- You can see roughly how many units of insulin are left by looking at where the plunger is on the insulin scale. **Do not** use this scale printed on the cartridge to measure your dose of insulin.

Step 5. Inject the dose

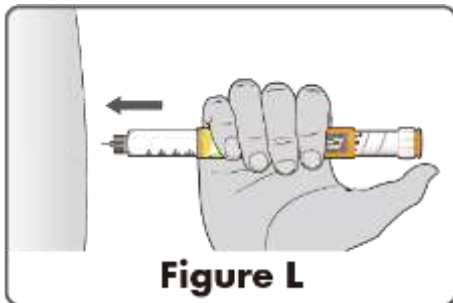
Use the injection method as instructed by your doctor, pharmacist or nurse.

- Choose your injection site.
 - The pen can be injected in your thigh, stomach area (abdomen), buttocks or upper arm (see **Figure K**).
 - Change (rotate) your injection site for each injection.
 - **Do not** inject where the skin has pits, is thickened or has lumps.

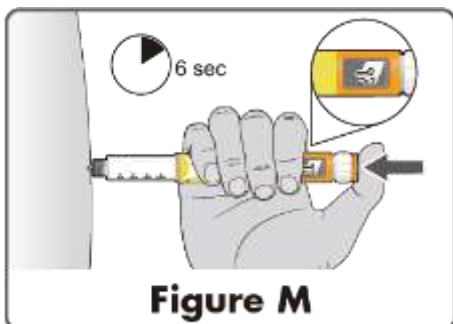
- **Do not** inject where the skin is tender, bruised, scaly or hard or into scars or damaged skin.



- B. Clean the injection site with an alcohol swab. Let it dry before injecting.
- C. Insert the needle into the skin (see **Figure L**).



- D. Press the orange injection button all the way in to deliver the dose. The number in the dose window will return to "0" as you inject. **Do not** try to inject your insulin by turning the dose selector. You will not receive your insulin by turning the dose selector.
- Always make sure that the dose selector returns to "0" after the injection. If the dose selector stops before it returns to "0", the full dose has not been delivered and the remaining units still to be injected with a new pen are shown in the dose window.
- E. **Keep holding the orange injection button pressed all the way in. Slowly count to 6** (see **Figure M**) before you pull out the needle from the skin. This ensures that the full dose is given. A drop of insulin at the needle tip is normal. It will not affect your dose.



The pen plunger moves with each dose. The plunger will reach the end of the cartridge when the total of 300 units of insulin has been used. If you see blood after you take the needle out of your skin, press the injection site lightly with a piece of gauze or a swab.

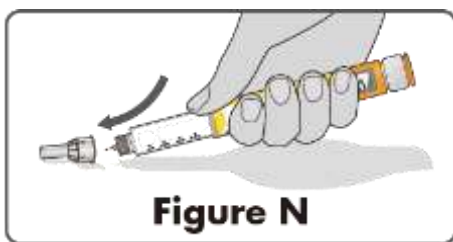
If you find it hard to press the injection button in:

- **Do not** force it as this may break your pen.
- Change the needle (see **Step 6** and **Step 2**) and prime your Pen (see **Step 3**).
- If you still find it hard to press in, get a new Pen.
- Never use a syringe to remove insulin from your pen.

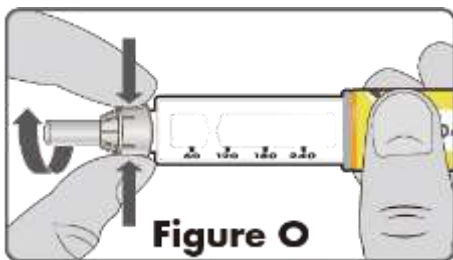
Step 6. Remove and discard the needle

Always remove the needle after each injection and store the pen without a needle attached. This helps prevent:

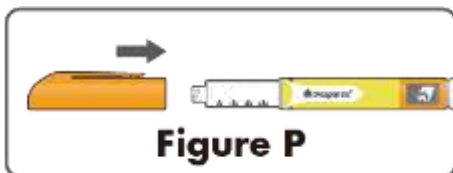
- Contamination and/or infection
 - Entry of air into the insulin reservoir and leakage of insulin, which can cause inaccurate dosing.
- A. Carefully put the outer needle cap back on the needle (see **Figure N**), to reduce the risk of accidental needle injury.
- **Never** replace the inner needle cap.



- B. Pinch the base of the outer needle cap to unscrew the used needle (See **Figure O**).



- C. Dispose of the needle safely, as instructed by your doctor, pharmacist or nurse.
- D. Always put the pen cap back on (see **Figure P**). Store the pen until your next injection.



Storage instructions

Before first use

- Keep your pen in the refrigerator between 2°C to 8°C until first use.
- **Do not** freeze. Throw away your pen if it has been frozen.

After first use

- Store the pen you are currently using at room temperature below 30°C, and away from light, dust and dirt.
- The pen in use must not be stored in a refrigerator.

- Once you take your pen out of the refrigerator, you can use it for up to 28 days. **Do not** use it after this time.
- **Do not** store your pen with the needle attached.
- **Keep your pen out of the reach and sight of children and any other persons who are not supposed to handle it.**
- When the pen is empty, throw it away without a needle on, as instructed by your doctor, pharmacist or nurse.

Maintenance

- You can clean the outside of your pen by wiping it with a damp cloth (water only).
- **Do not** soak, wash or lubricate the pen as this may damage it.
- Your pen should be handled with care. Avoid situations where the pen might be damaged. If you are concerned that your pen may be damaged, use a new one.

This instructions for used was last revised in MM/YYYY