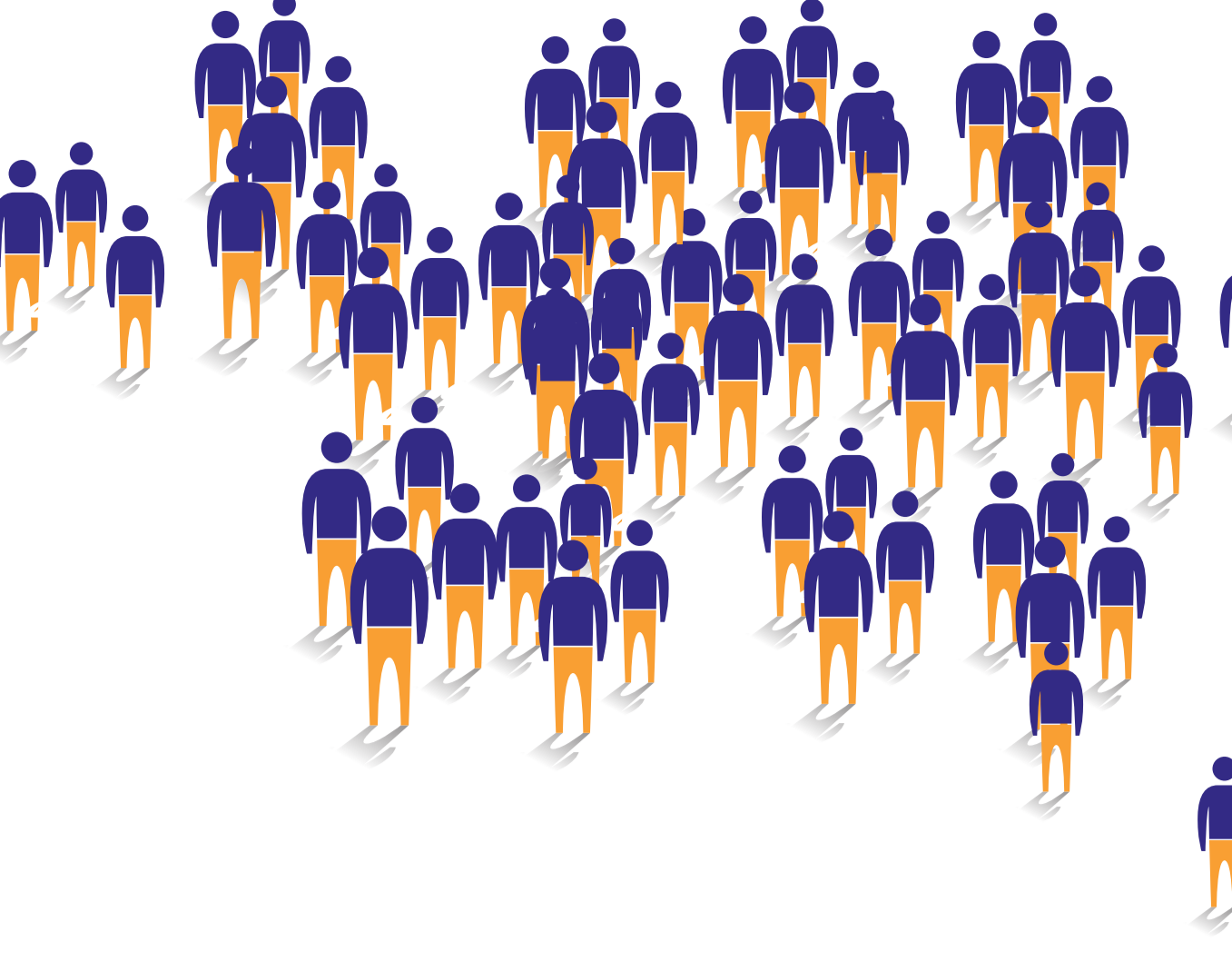


# Trajenta®

(linagliptin) 5mg tablets

**TRAJENTA® is the only DPP-4 inhibitor with 2 cardiovascular outcome trials (CVOTs). 13,000 type 2 diabetes (T2D) adult patients were included in CARMELINA® and CAROLINA® 1-6\***



**CARMELINA® 1-3**

T2D patients with established CV and/or kidney disease  
n=6,979 TRAJENTA vs. placebo

**CAROLINA® 4-6**

Relatively early T2D patients at increased CV risk n=6,037 TRAJENTA vs. glimepiride



**Recently, the long-term cardiovascular (CV) and kidney safety profile of TRAJENTA® has been comprehensively assessed via prespecified CARMELINA® and CAROLINA® subgroup analyses in >2,000 patients aged 75 and older 3,6**



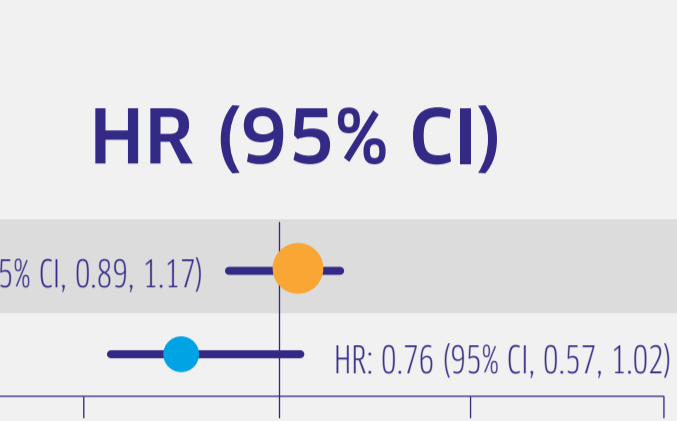
**In CARMELINA®, TRAJENTA® did not increase the risk of CV or kidney events, compared to placebo, in adult patients including those aged 75 years or older 3†**



**CARMELINA® 1-3**

**Primary Endpoint (3P-MACE) ‡**

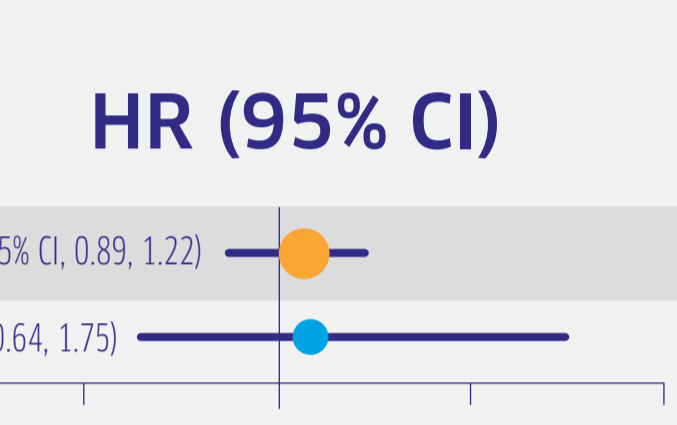
The primary endpoint occurred in 434/3,494 (12.4%) and 420/3,485 (12.1%) patients in the linagliptin and placebo groups, respectively



No significant interaction between age and treatment effect (P=0.0937 for interaction). Total population: P = 0.74 for superiority, p<0.001 for non inferiority

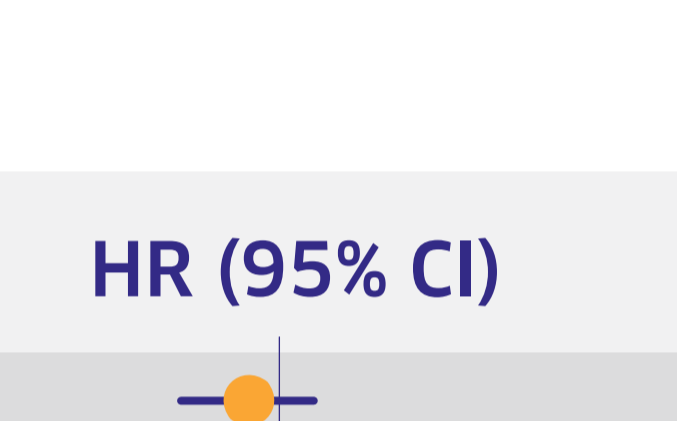
**Key Secondary Endpoint (Kidney Outcome) #**

The composite kidney outcome occurred in 327/3,494 (9.4%) and 306/3,485 (8.8%) patients in the linagliptin and placebo groups, respectively



No significant interaction between age and treatment effect (P=0.9968 for interaction). Total population: P = 0.62

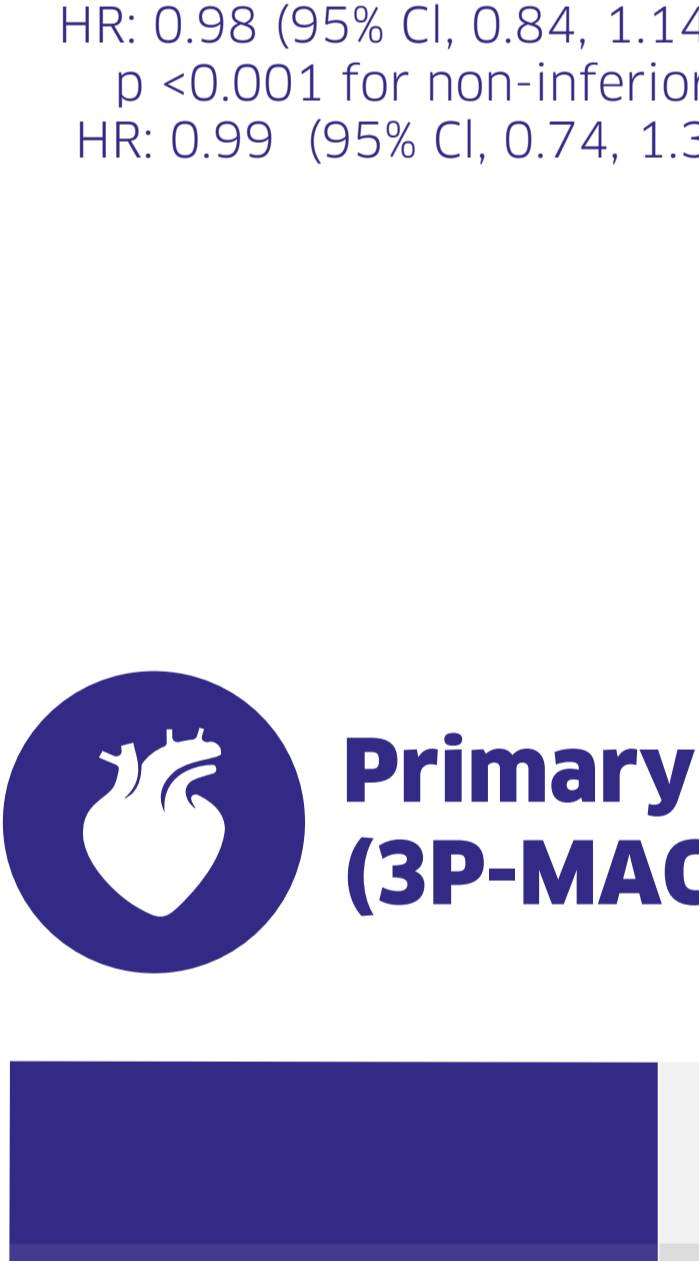
**Exploratory Endpoint (HHF) §**



No significant interaction between age and treatment effect (P = 0.9788 for interaction). Total population: P = 0.26

**CAROLINA® 4-6**

**In CAROLINA®, TRAJENTA® did not increase the risk of CV events, compared to glimepiride, in adult patients including those aged 75 years or older 6†**

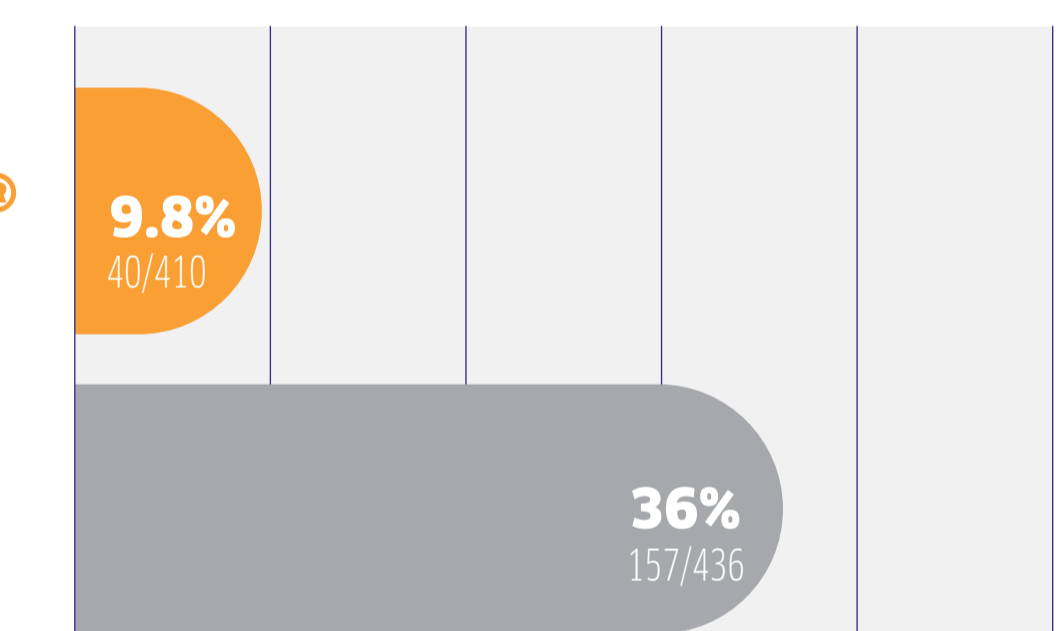


**CAROLINA® 4-6**

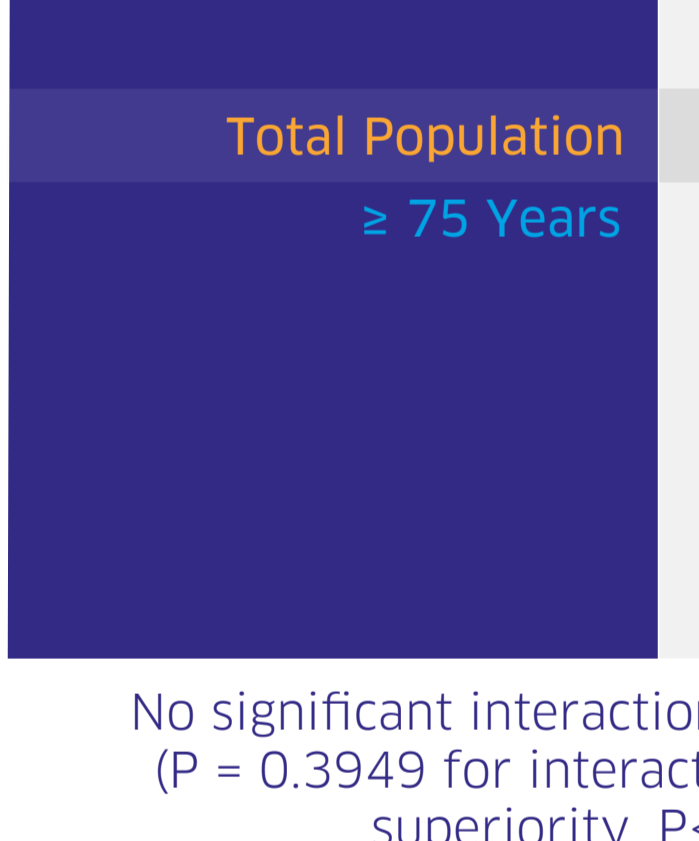
**There was a lower risk of hypoglycaemia with TRAJENTA®, compared to glimepiride 5,6\*\***

Incidence of ≥1 episode of hypoglycaemic event was lower with linagliptin (n = 320 (10.6%)) vs. glimepiride (n = 1,132 (37.7%)) across all predefined hypoglycaemia-severity categories HR: 0.23 (95% CI, 0.21, 0.26)

**Percent of patients aged 75 and older experiencing ≥1 hypoglycaemic event \*\***

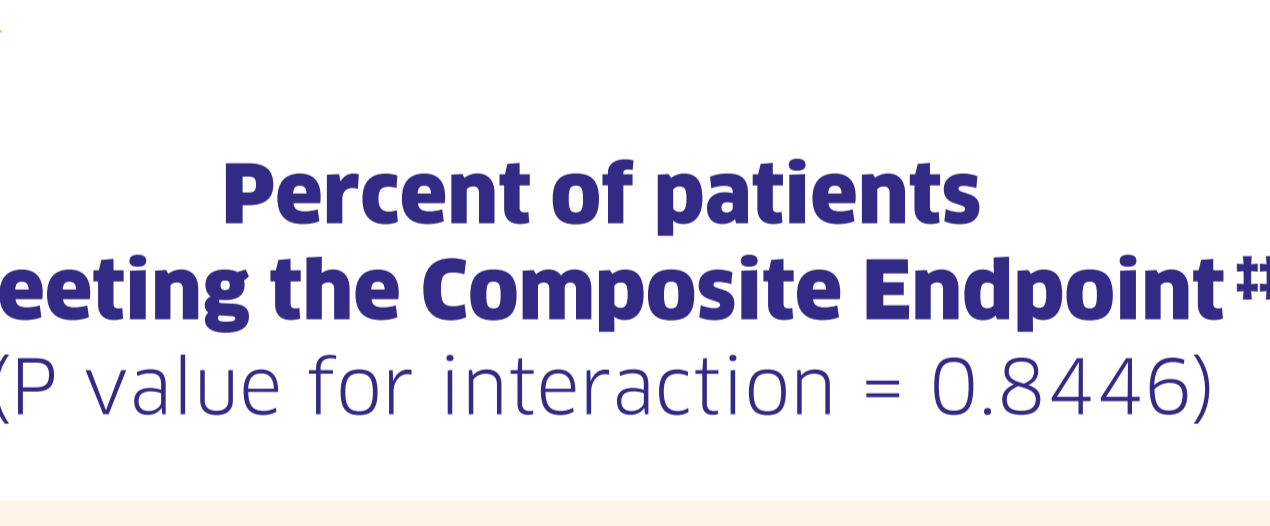


**Primary Endpoint (3P-MACE) ††**



No significant interaction between age and treatment effect (P = 0.3949 for interaction). Total population: P = 0.76 for superiority, P<0.001 for non inferiority

**Percent of patients meeting the Composite Endpoint ††**



**Importantly, more patients taking TRAJENTA® achieved target HbA1c without hypoglycaemia, weight gain and rescue medication vs glimepiride ‡‡**



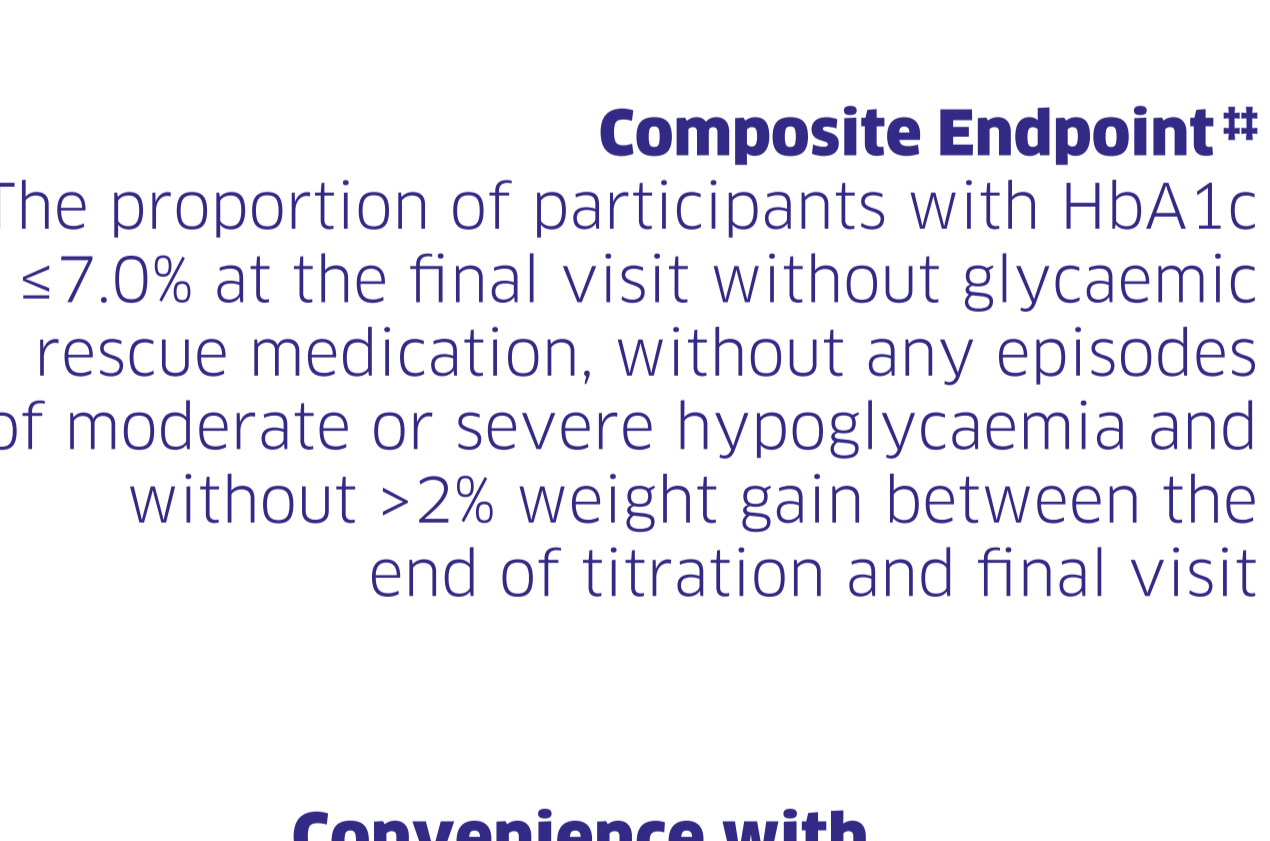
**CAROLINA® 4-6**

**TRAJENTA® Glimepiride**

**Proven HbA1c lowering efficacy vs placebo 7**



**Convenience with always one dose once daily §**



**TRAJENTA® is the only glybapentin DPP-4i that combines proven efficacy, a demonstrated CV and kidney safety profile, and the unique convenience of the always one dose, once daily**



**CAROLINA® 4-6**

**TRAJENTA® Glimepiride**

**Demonstrated long-term CV and kidney safety profile 1,5**

**A broad range adult patients with T2D \*\* can benefit from the Simplicity of TRAJENTA®**



**Footnotes**  
1. Rosenstock J, et al. JAMA 2019; 321: 679-72. 2. Rosenstock J, et al. Cardiovasc Diabetol 2018; 7: 339. 3. Cooper M, et al. Diabetes Obes Metab. 2020; 1:12-4. Marx N, et al. Diab Vasc Res. 2015; 12: 164-74. 5. Rosenstock J, et al. JAMA. 2019; 322(12):1155-1166. 6. Espeland MA, et al. Diab Obes Metab. 2020. doi: 10.1111/dom.14255. 7. Del Prato S, et al. J Diab Comp. 2013; 27:274-9. 8. TRAJENTA® (linagliptin) Summary of Product Characteristics. Available at: <https://www.medicines.org.uk/emc/product/4762/spmc>.

**Abbreviations**  
AC: Confidence intervals; CV: Cardiovascular; DPP-4: Dipeptidyl-peptidase 4; eGFR: Estimated glomerular filtration rate; ESRD: End stage renal disease; HHF: Hospitalisation for heart failure; HR: Hazard ratio; IQR: Interquartile range; MI: myocardial infarction; OR: Odds ratio

**References**  
1. Rosenstock J, et al. JAMA 2019; 321: 679-72. 2. Rosenstock J, et al. Cardiovasc Diabetol 2018; 7: 339. 3. Cooper M, et al. Diabetes Obes Metab. 2020; 1:12-4. Marx N, et al. Diab Vasc Res. 2015; 12: 164-74. 5. Rosenstock J, et al. JAMA. 2019; 322(12):1155-1166. 6. Espeland MA, et al. Diab Obes Metab. 2020. doi: 10.1111/dom.14255. 7. Del Prato S, et al. J Diab Comp. 2013; 27:274-9. 8. TRAJENTA® (linagliptin) Summary of Product Characteristics. Available at: <https://www.medicines.org.uk/emc/product/4762/spmc>.

**Prescribing information (UK) TRAJENTA® (Linagliptin)**  
Film-coated tablets containing 5 mg linagliptin. Indication: Trajenta is indicated in adults with type 2 diabetes mellitus as an adjunct to diet and exercise to improve glycaemic control as monotherapy when metformin is inappropriate due to intolerance, or contraindicated due to renal impairment; combination therapy in combination with other medicinal products for the treatment of diabetes, including insulin, when these do not provide adequate glycaemic control. **Dose and Administration:** 5 mg once daily, if added to metformin; the dose of metformin should be maintained and linagliptin administered concomitantly. When used in combination with a sulphonylurea or with insulin, a lower dose of the dose of metformin or insulin, may be considered to reduce the risk of hypoglycaemia. **Renal impairment:** no dose adjustment required. **Hepatic impairment:** pharmacokinetic studies suggest that no dose adjustment is required for other medicinal products for the treatment of diabetes, including insulin, when these do not provide adequate glycaemic control. **Elderly:** no dose adjustment is necessary based on age. **Paediatric population:** the safety and efficacy of linagliptin in children and adolescents has not yet been established. No data are available. Take the tablets with or without a meal at any time of the day. If a dose is missed, it should be taken as soon as possible but a double dose should not be taken on the same day. **Contraindications:** hypersensitivity to the active substance or to any of the excipients. **Warnings and Precautions:** Linagliptin should not be used in patients with type 1 diabetes or for the treatment of diabetic ketoacidosis. Caution is advised when linagliptin is used in combination with a sulphonylurea and/or insulin, as dose reduction of the sulphonylurea or insulin may be considered. Acute pancreatitis has been observed in patients taking linagliptin. Patients should be

informed of the characteristic symptoms of acute pancreatitis. If pancreatitis is suspected, Trajenta should be discontinued. If acute pancreatitis is confirmed, Trajenta should not be restarted. Caution should be exercised in patients with a history of pancreatitis. Bullous pemphigoid has been observed in patients taking Linagliptin. If bullous pemphigoid is suspected, Trajenta should be discontinued. **Interactions:** Linagliptin is a weak competitive and a weak to moderate mechanism-based inhibitor of CYP isozyme CYP3A4, but does not inhibit other CYP isozymes. It is not an inducer of CYP isozymes. Linagliptin is a P-glycoprotein substrate and inhibits P-glycoprotein mediated transport of digoxin with low potency. Based on these results and in vivo interaction studies, linagliptin is considered unlikely to cause interactions with other medicinal products on linagliptin is low and in clinical studies linagliptin had no clinically relevant effect on the pharmacokinetics of metformin, glimepiride and simvastatin, warfarin, digoxin or oral contraceptives (please refer to Summary of Product Characteristics for information on clinical data). **Fertility, pregnancy and lactation:** Avoid use during pregnancy. A risk to the breast-fed child cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from linagliptin therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman. No studies on the effect on human fertility have been conducted for linagliptin. **Undesirable effects:** Adverse reactions reported in patients who received linagliptin 5 mg daily as monotherapy or as add-on therapy in clinical trials and from post-marketing

experience. Frequency: Adverse reactions are defined as very common (≥1/10), common (≥1/100 to <1/10), uncommon (≥1/1,000 to <1/100), rare (≥1/10,000 to <1/1,000) or very rare (<1/10,000). **Adverse reactions with linagliptin 5 mg daily as monotherapy:** Common: lipase increased. Uncommon: nasopharyngitis, hypersensitivity, cough, rash, amylase increased. Rare: pancreatitis, angioedema, urticaria, bullous pemphigoid. **Adverse reaction with linagliptin in combination with metformin plus sulphonylurea:** Very common: hypoglycaemia. **Adverse reaction with linagliptin in combination with insulin:** Uncommon: hypoglycaemia. Prescribers should consult the Summary of Product Characteristics for further information on side effects. **Pack sizes:** 30 tablets. **Legal category:** POM. **MA number:** EMEA/HM/01/17/007/002. **Marketing Authorisation Holder:** Boehringer Ingelheim International GmbH, D-55216 Ingelheim am Rhein, Germany. Prescribers should consult the Summary of Product Characteristics for prescribing information. Additional information is available on request from Boehringer Ingelheim Ireland Ltd, The Crescent Building, Northwood, Wexford, Dublin 9. Prepared in December 2019.

**Adverse events should be reported.** Reporting forms and information can be found at [www.mhra.gov.uk/volvol](https://www.mhra.gov.uk/volvol). **Adverse events should also be reported to Boehringer Ingelheim Drug Safety on 0800 328 172 (freephone).**

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