

Drug Product	
Saxenda® (liraglutide) inj solution (subcutaneous)	Indication not funded
Indications	
<ul style="list-style-type: none"> • Chronic Weight Management: to be used as an adjunct to reduced-calorie diet and increased physical activity for chronic wt. management in adults with initial body mass index (BMI) of 30 kg/m² or greater (obese) or 27 kg/m² or greater (overweight) in the presence of at least one weight-related comorbidity. 	
Dosage	
<ul style="list-style-type: none"> • 0.6 mg subcutaneously once daily for 1 week, then increased by 0.6 mg/day weekly until target dose 3 mg once daily. 	
Background	
<ul style="list-style-type: none"> • Glucagon-like peptide-1 (GLP-1) is an incretin hormone that amplifies nutrient-induced insulin secretion, inhibits glucagon release, and slows gastric motility. • Liraglutide is a GLP-1 receptor agonist designed to promote weight loss primarily through appetite suppression. • Victoza® = identical strength/formulation of liraglutide but is approved by FDA for Type 2 diabetes mellitus (T2DM) at target daily dose of 1.8 mg. 	
Efficacy	
<ul style="list-style-type: none"> • Trial 1839: (n=3731): obese or overweight subjects with weight-related comorbidity <ul style="list-style-type: none"> ○ % weight change: -5.4% (95% CI, -5.8 to -4.95; p<0.0001) ○ 5% weight loss: OR 4.80 (95% CI, 4.12 to 5.60; p<0.0001) ○ 10% body weight: OR 4.34 (95% CI, 3.54 to 5.32; p<0.0001) • Trial 1922 (n=846): Obese or overweight subjects with T2DM <ul style="list-style-type: none"> ○ % weight change: -4.0% (95% CI, -4.8 to -3.1; p<0.0001) ○ 5% weight loss: OR 6.8 (95% CI, 4.3 to 10.7; p<0.0001) ○ 10% weight loss: OR 7.1 (95% CI, 3.5 to 14.5; p<0.0001) • Trial 1923 (n=422): obese or overweight subjects with ≥1 weight-related comorbidity <ul style="list-style-type: none"> ○ % weight change: -6.1% (95% CI, -7.5 to -4.6; p<0.0001) ○ 5% weight loss: OR 3.9 (95% CI, 2.4 to 6.1; p<0.0001) ○ Maintained 5% BW loss: OR 4.8 (95% CI, 3.0 to 7.7; p<0.0001) 	<ul style="list-style-type: none"> • Three Phase 3 RCTs studied liraglutide 3 mg daily versus placebo in approximately 4800 patients over 56 weeks. • Primary endpoints : <ul style="list-style-type: none"> ○ % change from baseline body weight (BW) ○ proportion subjects losing at least 5% baseline BW ○ proportion subjects losing at least 10% baseline BW* ○ maintenance of weight loss (minimum 5%) achieved after a 4-12 week run-in using a low calorie diet** <p>* = trial 1839 and 1922 only</p>
Safety	
<p>Back Box Warning: Thyroid C-cell tumors in rats and mice.</p> <p>Contraindications: History of medullary thyroid carcinoma; Multiple Endocrine Neoplasia syndrome type 2; pregnancy.</p>	<p>Caution in patients with thyroid C-cell tumors; acute pancreatitis; acute gallbladder disease; serious hypoglycemia; renal impairment; suicidal behavior/ideation.</p> <p>Common AEs: Nausea 40%, vomiting 15%; 6.4% req'd discontinuation of therapy due to GI issues</p>
Evidence Gaps/Limitations	
As with most weight loss drugs, there are no long-term cardiovascular and mortality outcomes. The drug should impact A1C outcomes related to T2DM by nature of the drug's mechanism of action; however, the Victoza® formulation has FDA approval for that indication.	
Recommendation	
Restrict use for OHP-funded conditions through Prior Authorization. Use Victoza® for management of T2DM.	
References	
<ol style="list-style-type: none"> 1. Saxenda (liraglutide) [Prescribing Information]. Plainsboro, NJ;Novo Nordisk Inc., January 2015. 2. FDA Center for Drug Evaluation and Research Summary Review. Available at: http://www.accessdata.fda.gov/drugsatfda_docs/nda/2014/206321Orig1s000SumR.pdf. Accessed November 24, 2015. 	