

Clinical Policy: Glucagon-Like Peptide-1 (GLP-1) Receptor Agonists

Reference Number: HIM.PA.53

Effective Date: 03.01.18 Last Review Date: 02.22 Line of Business: HIM

Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

The following agents contain a synthetic glucagon-like peptide-1 (GLP-1) receptor agonist and require prior authorization: dulaglutide (Trulicity®), exenatide ER (Bydureon®, Bydureon BCise®), exenatide IR (Byetta®), liraglutide (Victoza®), liraglutide/insulin degludec (Xultophy®), lixisenatide (Adlyxin®), lixisenatide/insulin glargine (Soliqua®), semaglutide (Ozempic®, Rybelsus®), and tirzepatide* (Mounjaro™).

FDA Approved Indication(s)

GLP-1 receptor agonists are indicated as adjunct to diet and exercise to improve glycemic control with type 2 diabetes mellitus. Bydureon, Bydureon BCise, and Victoza are indicated in patients 10 years of age and older, while the other GLP-1 receptor agonists are indicated in adults.

Ozempic, Trulicity and Victoza are also indicated to reduce the risk of major adverse cardiovascular events in adults with type 2 diabetes mellitus and:

- Established cardiovascular disease (*Ozempic*, *Trulicity*, *Victoza*);
- Cardiovascular risk factors (*Trulicity only*).

Limitation(s) of use:

- Bydureon, Bydureon BCise, Xultophy, and Rybelsus are not recommended as a first-line therapy for patients inadequately controlled on diet and exercise.
- GLP-1 receptor agonists should not be used for the treatment of type 1 diabetes. Xultophy and Soliqua are not for the treatment of diabetic ketoacidosis.
- Xultophy and Soliqua have not been studied in combination with prandial insulin. In addition, they are not recommended for use in combination with any other product containing a GLP-1 receptor agonist.
- Other than Victoza and Xultophy, GLP-1 receptor agonists have not been studied in patients with a history of pancreatitis. Other antidiabetic therapies should be considered.
- Trulicity is not for patients with pre-existing severe gastrointestinal disease.
- Adlyxin and Soliqua are not recommended in patients with gastroparesis.
- Bydureon and Bydureon BCise are extended-release formulations of exenatide. Do not coadminister with other exenatide containing products.
- Victoza and Xultophy contain liraglutide and should not be co-administered with other liraglutide-containing products.

^{*} Tirzepatide is a combination GLP-1 and glucose-dependent insulinotropic polypeptide (GIP) receptor agonist.



Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that GLP-1 receptor agonists are **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Type 2 Diabetes Mellitus (must meet all):

- 1. Diagnosis of type 2 diabetes mellitus;
- 2. Age is one of the following (a or b):
 - a. Bydureon, Bydureon BCise, Victoza: ≥ 10 years;
 - b. All other GLP-1 receptor agonists: ≥ 18 years;
- 3. Member meets one of the following (a or b):
 - a. Failure of ≥ 3 consecutive months of metformin as evidenced by HbA1c $\geq 7\%$, unless contraindicated or clinically significant adverse effects are experienced;
 - b. For antidiabetic medication-naïve members, requested agent is approvable if intended for concurrent use with metformin due to HbA1c \geq 8.5% (drawn within the past 3 months);
- 4. If request is for Adlyxin, Bydureon, Bydureon BCise, Byetta, or Mounjaro: Failure of ≥ 3 consecutive months of all of the following, unless clinically significant adverse effects are experienced or all are contraindicated: Victoza, Trulicity, Ozempic;
- 5. If request is for Soliqua, failure of ≥ 3 consecutive months of all of the following, unless clinically significant adverse effects are experienced or all are contraindicated: Xultophy, Victoza, Trulicity, Ozempic;
- 6. If request is for Rybelsus, failure of a sodium-glucose co-transporter 2 (SGLT2) inhibitor (see *Appendix B*), unless clinically significant adverse effects are experienced or all are contraindicated;
- 7. Dose does not exceed the FDA-approved maximum recommended dose (*see Section V*).

Approval duration: 12 months

B. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PA.154 for health insurance marketplace.

II. Continued Therapy

A. Type 2 Diabetes Mellitus (must meet all):

- 1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
- 2. Member is responding positively to therapy;
- 3. If request is for a dose increase, new dose does not exceed the FDA-approved maximum recommended dose (*see Section V*).

Approval duration: 12 months



B. Other diagnoses/indications (must meet 1 or 2):

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.

Approval duration: Duration of request or 12 months (whichever is less); or

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PA.154 for health insurance marketplace.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – HIM.PA.154 for health insurance marketplace or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key AACE: American Association of Clinical

Endocrinologists

ACE: American College of Endocrinology ADA: American Diabetes Association

ER: extended-release

FDA: Food and Drug Administration

GIP: glucose-dependent insulinotropic

polypeptide

GLP-1: glucagon-like peptide-1 HbA1c: glycated hemoglobin

IR: immediate-release

SGLT2: sodium-glucose co-transporter 2

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

una may require prior authorization.			
Drug Name	Dosing Regimen	Dose Limit/	
		Maximum Dose	
metformin (Fortamet [®] , Glucophage [®] , Glucophage [®] XR, Glumetza [®])	Regular-release (Glucophage): 500 mg PO BID or 850 mg PO QD; increase as needed in increments of 500 mg/week or 850 mg every 2 weeks	Regular-release: 2,550 mg/day	
	 Extended-release: Fortamet, Glumetza: 1,000 mg PO QD; increase as needed in increments of 500 mg/week Glucophage XR: 500 mg PO QD; increase as needed in increments of 500 mg/week 	Extended- release: 2,000 mg/day	
SGLT2 Inhibitors			
Farxiga® (dapagliflozin)	5 mg PO QD	10 mg/day	
	To reduce the risk of hospitalization for heart failure, the recommended dose is 10 mg PO QD		



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
Glyxambi [®] (empagliflozin/ linagliptin)	One 10/5 mg tablet PO QD	25/5 mg/day
Invokamet® (canagliflozin/metformin)	One 50/500 mg tablet PO BID	300/2,000 mg/day
Invokamet® XR (canagliflozin/ metformin)	Two 50/500 mg tablets PO QD	300/2,000 mg/day
Invokana® (canagliflozin)	100 mg PO QD	300 mg/day
Jardiance® (empagliflozin) Qtern® (dapagliflozin/saxagliptin)	10 mg PO QD One 5/5 mg tablet PO QD	25 mg/day 10/5 mg/day
Qternmet® XR (dapagliflozin/saxagliptin/metformin)	Individualized dose PO QD	10/5/2,000 mg/day
Segluromet [™] (ertugliflozin/metformin)	Individualized dose PO BID	15/2,000 mg/day
Steglatro [™] (ertugliflozin)	5 mg PO QD	15 mg/day
Steglatro [™] (ertugliflozin) Steglujan [™] (ertugliflozin/sitagliptin)	One 5/100 mg tablet PO QD	15/100 mg/day
Synjardy [®] (empagliflozin/metformin)	Individualized dose PO BID	25/2,000 mg/day
Synjardy® XR (empagliflozin/metformin)	Individualized dose PO QD	25/2,000 mg/day
Trijardy [™] XR (empagliflozin/linagliptin/metformin)	Individualized dose PO QD	25/5/2,000 mg/day
Xigduo® XR (dapagliflozin/ metformin)	Individualized dose PO QD	10/2,000 mg/day

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - Hypersensitivity to any product components
 - Personal or family history of medullary thyroid carcinoma or multiple endocrine neoplasia syndrome type 2 (all GLP-1 receptor agonists other than Byetta, Adlyxin, and Soliqua)
 - Use during episodes of hypoglycemia (Soliqua and Xultophy only)
 - o History of drug-induced immune-mediated thrombocytopenia from exenatide products (*Bydureon, Bydureon BCise, and Byetta only*)
- Boxed warning(s): thyroid C-cell tumors (all GLP-1 receptor agonists other than Byetta, Adlyxin, and Soliqua)

Appendix D: General Information

• Per the American Diabetes Association (ADA) and American Association of Clinical Endocrinologists and American College of Endocrinology (AACE/ACE) guidelines:



- Metformin is recommended for all patients with type 2 diabetes. Monotherapy is recommended for most patients; however:
 - Starting with dual therapy (i.e., metformin plus another agent, such as a sulfonylurea, thiazolidinedione, dipeptidyl peptidase-4 inhibitor, sodium-glucose co-transporter inhibitor, GLP-1 receptor agonist, or basal insulin) may be considered for patients with baseline HbA1c ≥ 1.5% above their target per the ADA (≥ 7.5% per the AACE/ACE). According to the ADA, a reasonable HbA1c target for many non-pregnant adults is < 7% (≤ 6.5% per the AACE/ACE).
 - Starting with combination therapy with insulin may be considered for patients with baseline HbA1c > 10% per the ADA (> 9% if symptoms are present per the AACE/ACE).
- o If the target HbA1c is not achieved after approximately 3 months of monotherapy, dual therapy should be initiated. If dual therapy is inadequate after 3 months, triple therapy should be initiated. Finally, if triple therapy fails to bring a patient to goal, combination therapy with insulin should be initiated. Each non-insulin agent added to initial therapy can lower HbA1c by 0.7-1%.

V. Dosage and Administration

Drug Name	Dosing Regimen	Maximum Dose
Adlyxin (lixisenatide)	Initial dose: 10 mcg SC QD for 14 days	20 mcg/day
	Maintenance dose: 20 mcg SC QD	
Bydureon (exenatide ER)	2 mg SC once weekly	2 mg/week
Bydureon BCise	2 mg SC once weekly	2 mg/week
(exenatide ER)		
Byetta (exenatide IR)	5 mcg to 10 mcg SC BID	20 mcg/day
Mounjaro (tirzepatide)	Initial dose: 2.5 mg SC once weekly.	15 mg/week
	May increase by 2.5 mg every 4 weeks	
	up to 15 mg once weekly	
Ozempic (semaglutide)	0.25 mg to 2 mg SC once weekly,	2 mg/week
	increased no more frequently than every	
	4 weeks	
Rybelsus (semaglutide)	Initial dose: 3 mg PO QD. After 30 days	14 mg/day
	on the 3 mg dose, increase to 7 mg PO	
	QD. May increase to 14 mg PO QD if	
	needed after at least 30 days on the 7 mg	
	dose	
Soliqua (lixisenatide/	Treatment naïve to basal insulin or GLP-	60 units insulin/20
insulin glargine)	1 receptor agonist, currently on a GLP-1	mcg
	receptor agonist, or currently on less than	lixisenatide/day
	30 units of basal insulin daily: 15 units	
	(15 units insulin/5 mcg lixisenatide) SC	
	QD	
	Currently on 30 to 60 units of basal	
	insulin daily, with or without GLP-1	
	receptor agonist: 30 units (30 units	
	insulin/10 mcg lixisenatide) SC QD	



Drug Name	Dosing Regimen	Maximum Dose
Trulicity (dulaglutide)	0.75 mg to 1.5 mg SC once weekly. May increase to 3 mg once weekly if needed after at least 4 weeks on 1.5 mg dose. May further increase to 4.5 mg once weekly if needed after at least 4 weeks on 3 mg dose.	4.5 mg/week
Victoza (liraglutide)	Initial: 0.6 mg SC QD for 7 days Maintenance: 1.2 mg to 1.8 mg SC QD	1.8 mg/day
Xultophy (liraglutide/insulin degludec)	Treatment naïve to basal insulin or GLP-1 receptor agonist: 10 units (10 units of insulin/0.36 mg liraglutide) SC QD Treatment experienced to basal insulin or GLP-1 receptor agonist: 16 units (16 units insulin/0.58 mg liraglutide) SC QD	50 units insulin/1.8 mg liraglutide/day

VI. Product Availability

Programme Name	A socilabilities	
Drug Name	Availability	
Adlyxin (lixisenatide)	Multi-dose prefilled pen: 50 mcg/mL in 3 mL (14 doses; 10	
	mcg/dose), 100 mcg/mL in 3 mL (14 doses; 20 mcg/dose)	
Bydureon (exenatide ER)	• Single-dose tray: 2 mg vial	
	Single-dose prefilled pen: 2 mg pen	
Bydureon BCise	Single-dose autoinjector: 2 mg	
(exenatide ER)		
Byetta (exenatide IR)	Prefilled pen: 5 mcg/dose (0.02 mL) in 1.2 mL (60 doses), 10	
	mcg/dose (0.04 mL) in 2.4 mL (60 doses)	
Mounjaro (tirzepatide)	Single-dose prefilled pen: 2.5 mg/0.5 mL, 5 mg/0.5 mL, 7.5	
	mg/0.5 mL, 10 mg/0.5 mL, 12.5 mg/0.5 mL, 15 mg/0.5 mL	
Ozempic (semaglutide)	Prefilled pen: 2 mg/1.5 mL (1.34 mg/mL) for 0.25 mg dose (4	
	doses of 0.25 mg and 2 doses of 0.5 mg per pen) or 0.5 mg	
	dose (4 doses per pen); 2 mg/1.5mL (1.34 mg/mL) for 1 mg	
	dose (2 doses per pen); 4 mg/3 mL (1.34 mg/mL) for 1 mg	
	dose (4 doses per pen); 8 mg/3 mL (2.68 mg/mL) for 2 mg	
	dose (4 doses per pen)	
Rybelsus (semaglutide)	Tablets: 3 mg, 7 mg, 14 mg	
Soliqua (lixisenatide/	Single-patient use pen: 33 mcg/100 units per mL in 3 mL	
insulin glargine)		
Trulicity (dulaglutide)	Single-dose prefilled pen: 0.75 mg/0.5 mL, 1.5 mg/0.5 mL, 3	
	mg/0.5 mL, 4.5 mg/0.5 mL	
Victoza (liraglutide)	Multi-dose prefilled pen: 18 mg/3 mL (6 mg/mL; delivers	
	doses of 0.6 mg, 1.2 mg, or 1.8 mg)	
Xultophy (liraglutide/	Single-patient use pen: 3.6 mg/100 units per mL in 3 mL	
insulin degludec)		



VII. References

- 1. American Diabetes Association. Standards of medical care in diabetes—2022. Diabetes Care. 2022; 45(suppl 1): S1-S264. Updated December 2021. Accessed April 13, 2022.
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- 8. Garber AJ, Handelsman Y, Grunberger G, et al. Consensus statement by the American Association of Clinical Endocrinologists and American College of Endocrinology on the comprehensive type 2 diabetes management algorithm 2020 executive summary. Endocr Pract. 2020; 26(1): 107-139.
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- 11. Soliqua Prescribing Information. Bridgewater, NJ: Sanofi-aventis US LLC; July 2021. Available at: www.soliqua.com. Accessed September 16, 2021.
- 12. Ozempic Prescribing Information. Bagsvaerd, Denmark: Novo Nordisk A/S; March 2022. Available at: www.ozempic.com. Accessed April 13, 2022.
- 13. Mounjaro Prescribing Information. Indianapolis, IN: Lilly USA, LLC; May 2022. Available at: www.mounjaro.com. Accessed May 31, 2022.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Removed requirement for diagnosis	11.17	02.18
Removed requirement for A1C submission		
Changed requirement for Metformin trial to be for 3 months		
without mandating a specific dose		
Allow first line use for members with A1C >= 9%		
References reviewed and updated		
1Q 2019 annual review: clarified that all GLP-1 receptor agonists	09.19.18	02.19
require PA (rather than ST) and added diagnosis per SDC; added		
Xultophy; removed Tanzeum as GlaxoSmithKline discontinued its		
manufacturing/sale in July 2018; modified minimum A1c related		
for concurrent use of metformin from 9% to 8.5% based on 2019		
ADA guidelines; references reviewed and updated.		



Reviews, Revisions, and Approvals	Date	P&T
		Approval
	02.12.10	Date
No significant changes; updated FDA approved indication for	03.12.19	
Xultophy to remove requirement for failure of basal insulin and		
liraglutide; updated dosage and administration for treatment naïve		
patients; references reviewed and updated.	04.22.10	05.10
Clarified that failure of metformin must be evidenced by HbA1c at least 7%.	04.22.19	05.19
RT4: updated criteria to reflect Victoza's pediatric expansion to ages 10 and older.	06.25.19	
Per SDC and prior clinical guidance, added Bydureon and	10.23.19	
Bydureon BCise to criteria.		
1Q 2020 annual review: no significant changes; references reviewed and updated.	10.29.19	02.20
Added reference to HIM.PA.02 for Rybelsus requests per SDC and	02.25.20	
prior clinical guidance.	02.20.20	
"FDA Approved Indications" section updated to include Trulicity's	04.07.20	08.20
new FDA indication: cardiovascular risk reduction in patients with		
established cardiovascular disease or with multiple cardiovascular		
risk factors; added new exenatide contraindication to Appendix C;		
references reviewed and updated.		
RT4: added new dosage strength (3 mg, 4.5 mg) forms for	09.29.20	
Trulicity.		
Added Adlyxin, Ozempic, and Soliqua to policy; for Adlyxin,	08.19.20	
Bydureon, Bydureon BCise, Byetta, Soliqua, and Xultophy		
requests, added redirection to Victoza, Trulicity, Ozempic per		
August SDC and prior clinical guidance.		
1Q 2021 annual review: added criteria for Rybelsus (adapted from	10.26.20	02.21
HIM.PA.02, now retired); references to HIM.PA.21 revised to		
HIM.PA.154; references reviewed and updated.		
Removed Trulicity step-wise dose escalation criteria based on	03.11.21	
cost/PA analysis and low anticipation for inappropriate usage.		
Per March SDC and prior clinical guidance, for Xultophy remove	03.26.21	05.21
trial of Victoza, Trulicity, and Ozempic; add for Soliqua requests a		
required trial of Xultophy. Ad hoc: Added Steglatro and		
Segluromet to Appendix B; added new dosage strength (4 mg/3		
mL) form for Ozempic.	0.0.1.	
RT4: updated indication and age limits down to 10 years of age for	08.03.21	
Bydureon and Bydureon BCise per updated prescribing		
information.	004555	0.0.0.0
1Q 2022 annual review: no significant changes; references	09.16.21	02.22
reviewed and updated.	04.12.22	
RT4: added new dosage strength (2 mg) form for Ozempic.	04.13.22	
RT4: added newly FDA approved drug, Mounjaro.	05.31.22	



Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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