HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BYDUREON BCISE safely and effectively. See full prescribing information for BYDUREON BCISE.

BYDUREON® BCISETM (exenatide extended-release) injectable suspension, for subcutaneous use. Initial U.S. Approval: 2005

WARNING: RISK OF THYROID C-CELL TUMORS

See full prescribing information for complete boxed warning.

- Exenatide extended-release causes thyroid C-cell tumors at clinically relevant exposures in rats. It is unknown whether BYDUREON BCISE causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC) in humans, as the human relevance of exenatide extended-release-induced rodent thyroid Ccell tumors has not been determined. (5.1, 13.1)
- BYDUREON BCISE is contraindicated in patients with a personal
 or family history of MTC or in patients with Multiple Endocrine
 Neoplasia syndrome type 2 (MEN 2). Counsel patients regarding
 the potential risk of MTC and the symptoms of thyroid tumors. (4,
 5.1)

----- INDICATIONS AND USAGE

BYDUREON BCISE is a glucagon-like peptide-1 (GLP-1) receptor agonist indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus. (1, 14)

Limitations of Use:

- Not recommended as first-line therapy for patients inadequately controlled on diet and exercise. (1)
- Should not be used to treat type 1 diabetes or diabetic ketoacidosis. (1)
- Use with insulin has not been studied and is not recommended. (1)
- BYDUREON BCISE is an extended-release formulation of exenatide.
 Do not coadminister with other exenatide containing products. (1)
- Has not been studied in patients with a history of pancreatitis. Consider other antidiabetic therapies in patients with a history of pancreatitis. (1, 5.2)

----- DOSAGE AND ADMINISTRATION -----

- Administer 2 mg by subcutaneous injection once every seven days (weekly), at any time of day and with or without meals. (2.1)
- Administer immediately after the dose is prepared. (2.3)

----- DOSAGE FORMS AND STRENGTHS ------

Extended-release injectable suspension: 2 mg of exenatide in a 0.85 mL single-dose autoinjector. (3)

------ CONTRAINDICATIONS

 Personal or family history of medullary thyroid carcinoma or in patients with Multiple Endocrine Neoplasia syndrome type 2. (4) Prior serious hypersensitivity reaction to exenatide or any of the product components. (4)

----- WARNINGS AND PRECAUTIONS ------

- <u>Acute Pancreatitis</u>: Including fatal and non-fatal hemorrhagic or necrotizing pancreatitis has been reported. Discontinue promptly if pancreatitis is suspected. Do not restart if pancreatitis is confirmed. Consider other antidiabetic therapies if patient has history of pancreatitis. (5.2)
- <u>Hypoglycemia</u>: When is used in combination with an insulin secretagogue (e.g., a sulfonylurea) or insulin, consider lowering dose of the secretagogue or insulin to reduce risk of hypoglycemia. (5.3)
- Acute Kidney Injury and Impairment of Renal Function: Sometimes
 requiring hemodialysis and kidney transplantation have been reported.
 Not recommended if patient has severe renal impairment or end-stage
 renal disease. Use with caution in patients with renal transplantation or
 moderate renal impairment. (5.4)
- <u>Gastrointestinal Disease</u>: Not recommended in patients with severe gastrointestinal disease (e.g., gastroparesis). (5.5)
- Immunogenicity: Patients may develop antibodies to exenatide. If there
 is worsening glycemic control or failure to achieve target glycemic
 control, consider alternative antidiabetic therapy. (5.6)
- <u>Hypersensitivity</u>: Serious hypersensitivity reactions (e.g., anaphylaxis and angioedema) have been reported. Discontinue BYDUREON BCISE and promptly seek medical advice. (5.7)
- <u>Injection-site Reactions</u>: Serious injection-site reactions with or without subcutaneous nodules have been reported. (5.8)
- <u>Macrovascular Outcomes</u>: There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with exenatide. (5.9)

----- ADVERSE REACTIONS ------

Most common (≥5%) in clinical trials: injection-site nodule, nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact AstraZeneca at 1-800-236-9933 and www.bydureonbcise.com or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- DRUG INTERACTIONS -----

- May impact absorption of orally administered medications. (7)
- Warfarin: Postmarketing reports with exenatide of increased international normalized ratio (INR) sometimes associated with bleeding. Monitor INR frequently until stable upon initiation of BYDUREON BCISE therapy. (7)

----- USE IN SPECIFIC POPULATIONS ------

 <u>Pregnancy</u>: Use during pregnancy only if the potential benefit justifies the risk to the fetus. (8.1)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 10/2017

FULL PRESCRIBING INFORMATION: CONTENTS*

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^{*}Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

WARNING: RISK OF THYROID C-CELL TUMORS

- Exenatide extended-release causes an increased incidence in thyroid C-cell tumors at clinically relevant exposures in rats compared to controls. It is unknown whether BYDUREON BCISE causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans, as the human relevance of exenatide extended-release-induced rodent thyroid C-cell tumors has not been determined [see Warnings and Precautions (5.1) and Nonclinical Toxicology (13.1)].
- BYDUREON BCISE is contraindicated in patients with a personal or family history of MTC and in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2). Counsel patients regarding the potential risk for MTC with the use of BYDUREON BCISE and inform them of symptoms of thyroid tumors (e.g., mass in the neck, dysphagia, dyspnea, persistent hoarseness). Routine monitoring of serum calcitonin or using thyroid ultrasound is of uncertain value for detection of MTC in patients treated with BYDUREON BCISE [see Contraindications (4) and Warnings and Precautions (5.1)].

1 INDICATIONS AND USAGE

BYDUREON BCISE is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus [see Clinical Studies (14)].

Limitations of Use

- BYDUREON BCISE is not recommended as first-line therapy for patients who have inadequate glycemic control on diet and exercise because of the uncertain relevance of the rat thyroid C-cell tumor findings to humans [see Warnings and Precautions (5.1)].
- BYDUREON BCISE is not a substitute for insulin. BYDUREON BCISE is not indicated for use in patients with type 1 diabetes mellitus or for the treatment of diabetic ketoacidosis, as it would not be effective in these settings.
- The concurrent use of BYDUREON BCISE with insulin has not been studied and is not recommended.
- BYDUREON BCISE is an extended-release formulation of exenatide. BYDUREON BCISE should not be used with other products containing the active ingredient exenatide.
- BYDUREON BCISE has not been studied in patients with a history of pancreatitis. Consider other antidiabetic therapies in patients with a history of pancreatitis [see Warnings and Precautions (5.2) and Adverse Reactions (6.3)].

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

The recommended dose of BYDUREON BCISE is 2 mg subcutaneously once every 7 days (weekly). The dose can be administered at any time of day, with or without meals.

The day of weekly administration can be changed if necessary as long as the last dose was administered 3 or more days before the new day of administration.

2.2 Missed Dose

If a dose is missed, administer the dose as soon as noticed, provided the next regularly scheduled dose is due at least 3 days later. Thereafter, patients can resume their usual dosing schedule of once every 7 days (weekly).

If a dose is missed and the next regularly scheduled dose is due 1 or 2 days later, do not administer the missed dose and instead resume BYDUREON BCISE with the next regularly scheduled dose.

2.3 Administration Instructions

- BYDUREON BCISE is intended for patient self-administration. Prior to initiation, train patients on
 proper mixing and injection technique to ensure the product is adequately mixed and a full dose is
 delivered [see Instructions for Use].
- Remove the autoinjector from the refrigerator 15 minutes prior to mixing the injection, in order to reach room temperature.
- Mix by shaking vigorously for at least 15 seconds. After mixing, BYDUREON BCISE should
 appear as an opaque, white to off-white suspension, evenly mixed with no residual medicine along
 the side, bottom or top of the inspection window.
- Inspect visually for particulate matter and discoloration prior to administration (BYDUREON BCISE contains microspheres which appear as white to off-white particles). Do not use if foreign particulate matter is present or if discoloration is observed. Refer patients to the accompanying Instructions for Use for disposal information [see Instructions for Use].
- Administer BYDUREON BCISE immediately after the autoinjector is prepared as a subcutaneous injection in the abdomen, thigh, or upper arm region. Advise patients to use a different injection site each week when injecting in the same region.
- Do not administer BYDUREON BCISE intravenously or intramuscularly.
- Refer patients to the accompanying Instructions for Use for complete administration instructions with illustrations [see Instructions for Use].

2.4 Initiating BYDUREON BCISE Therapy

Prior treatment with an immediate- or extended-release exenatide product is not required when initiating BYDUREON BCISE therapy. Discontinue an immediate- or extended-release exenatide product prior to initiation of BYDUREON BCISE.

Patients changing from immediate-release exenatide to BYDUREON BCISE may experience transient (approximately 2 to 4 weeks) elevations in blood glucose concentrations.

Patients changing from another extended-release exenatide product to BYDUREON BCISE may do so at the next regularly scheduled dose.

3 DOSAGE FORMS AND STRENGTHS

Extended-release injectable suspension: 2 mg of exenatide per 0.85 mL suspension, in a pre-filled disposable single dose autoinjector. Redispersion by mixing provides a white to off-white, opaque, suspension.

4 CONTRAINDICATIONS

BYDUREON BCISE is contraindicated in patients with:

- A personal or family history of medullary thyroid carcinoma (MTC) or in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2).
- A prior serious hypersensitivity reaction to exenatide or to any of the components of BYDUREON BCISE. Serious hypersensitivity reactions including anaphylactic reactions and angioedema have been reported with exenatide [see Warnings and Precautions (5.7)].

5 WARNINGS AND PRECAUTIONS

5.1 Risk of Thyroid C-cell Tumors

In both genders of rats, exenatide extended-release caused a dose-related and treatment-duration—dependent increase in the incidence of thyroid C-cell tumors (adenomas and/or carcinomas) at clinically relevant exposures compared to controls [see Nonclinical Toxicology (13.1)]. A statistically significant increase in malignant thyroid C-cell carcinomas was observed in female rats receiving exenatide extended-release at 27-times clinical exposure compared to controls and higher incidences were noted in males above controls in all treated groups at ≥2-times clinical exposure. The potential of exenatide extended-release to induce C-cell tumors in mice has not been evaluated. Other GLP-1 receptor agonists have also induced thyroid C-cell adenomas and carcinomas in male and female mice and rats at clinically relevant exposures. It is unknown whether BYDUREON BCISE will cause thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans as the human relevance of exenatide extended-release—induced rodent thyroid C-cell tumors has not been determined.

Cases of MTC in patients treated with liraglutide, another GLP-1 receptor agonist, have been reported in the postmarketing period; the data in these reports are insufficient to establish or exclude a causal relationship between MTC and GLP-1 receptor agonist use in humans.

BYDUREON BCISE is contraindicated in patients with a personal or family history of MTC or in patients with MEN 2. Counsel patients regarding the potential risk of MTC with the use of BYDUREON BCISE and inform them of symptoms of thyroid tumors (e.g., a mass in the neck, dysphagia, dyspnea, persistent hoarseness).

Routine monitoring of serum calcitonin or using thyroid ultrasound is of uncertain value for early detection of MTC in patients treated with BYDUREON BCISE. Such monitoring may increase the risk of unnecessary procedures, due to the low specificity of serum calcitonin testing for MTC and a high background incidence of thyroid disease. Significantly elevated serum calcitonin may indicate MTC and patients with MTC usually have values >50 ng/L. If serum calcitonin is measured and found to be elevated, the patient should be further evaluated. Patients with thyroid nodules noted on physical examination or neck imaging should also be further evaluated.

5.2 Acute Pancreatitis

Based on postmarketing data, exenatide has been associated with acute pancreatitis, including fatal and non-fatal hemorrhagic or necrotizing pancreatitis. After initiation of BYDUREON BCISE, observe patients carefully for signs and symptoms of pancreatitis (including persistent severe abdominal pain, sometimes radiating to the back, which may or may not be accompanied by vomiting). If pancreatitis is suspected, BYDUREON BCISE should promptly be discontinued and appropriate management should be initiated. If pancreatitis is confirmed, BYDUREON BCISE should not be restarted. Consider antidiabetic therapies other than BYDUREON BCISE in patients with a history of pancreatitis. In clinical trials of BYDUREON BCISE acute pancreatitis occurred in 0.4% of patients.

5.3 Hypoglycemia with Concomitant Use of Insulin Secretagogues or Insulin

The risk of hypoglycemia is increased when BYDUREON BCISE is used in combination with insulin secretagogues (e.g., sulfonylureas) or insulin. Patients may require a lower dose of the secretagogue or insulin to reduce the risk of hypoglycemia in this setting [see Adverse Reactions (6.1)].

5.4 Acute Kidney Injury and Impairment of Renal Function

There have been postmarketing reports of altered renal function with exenatide, including increased serum creatinine, renal impairment, worsened chronic renal failure and acute renal failure, sometimes requiring hemodialysis or kidney transplantation. Some of these events occurred in patients receiving one or more pharmacologic agents known to affect renal function or hydration status such as angiotensin converting enzyme inhibitors, nonsteroidal anti-inflammatory drugs, or diuretics. Some events occurred in patients who had been experiencing nausea, vomiting, or diarrhea, with or without dehydration. Reversibility of altered renal function has been observed in many cases with supportive treatment and discontinuation of potentially causative agents, including exenatide. Exenatide has not been found to be directly nephrotoxic in preclinical or clinical studies.

BYDUREON BCISE is not recommended for use in patients with severe renal impairment (creatinine clearance (CrCL) <30 mL/min, eGFR <30 mL/min/1.73m²) or end-stage renal disease and should be used with caution in patients with renal transplantation [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)]. Because BYDUREON BCISE may induce nausea and vomiting with transient hypovolemia, treatment may worsen renal function. Use BYDUREON BCISE with caution in patients

with moderate renal impairment (CrCL 30-59 mL/min, eGFR 30-59 mL/min/1.73m²) [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)]. BYDUREON BCISE has not been studied in patients with end-stage renal disease or severe renal impairment.

5.5 Gastrointestinal Disease

Exenatide has not been studied in patients with severe gastrointestinal disease, including gastroparesis. Because exenatide is commonly associated with gastrointestinal adverse reactions, including nausea, vomiting, and diarrhea, the use of BYDUREON BCISE is not recommended in patients with severe gastrointestinal disease.

5.6 Immunogenicity

Patients may develop antibodies to exenatide following treatment with BYDUREON BCISE. Antiexenatide antibodies were measured in BYDUREON BCISE-treated patients in two comparatorcontrolled 28-week studies of BYDUREON BCISE. Patients with higher titer antibodies may have an attenuated HbA1c response. If there is worsening glycemic control or failure to achieve targeted glycemic control, consider alternative antidiabetic therapy [see Adverse Reactions (6.2)].

5.7 Hypersensitivity

There have been postmarketing reports of serious hypersensitivity reactions (e.g., anaphylaxis and angioedema) in patients treated with exenatide. If a hypersensitivity reaction occurs, the patient should discontinue BYDUREON BCISE and promptly seek medical advice [see Contraindications (4) and Adverse Reactions (6.3)]. Inform and closely monitor patients with a history of anaphylaxis or angioedema with another GLP-1 receptor agonist for allergic reactions, because it is unknown whether such patients will be predisposed to anaphylaxis with BYDUREON BCISE.

5.8 Injection-Site Reactions

There have been postmarketing reports of serious injection-site reactions (e.g., abscess, cellulitis, and necrosis), with or without subcutaneous nodules, with the use of BYDUREON [see Adverse Reactions (6.3)]. Isolated cases required surgical intervention.

5.9 Macrovascular Outcomes

There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with exenatide.

6 ADVERSE REACTIONS

The following serious adverse reactions are described below or elsewhere in the prescribing information:

- Risk of Thyroid C-cell Tumors [see Warnings and Precautions (5.1)]
- Acute Pancreatitis [see Warnings and Precautions (5.2)]
- Hypoglycemia [see Warnings and Precautions (5.3)]
- Acute Kidney Injury and Impairment of Renal Function [see Warnings and Precautions (5.4)]
- Gastrointestinal Disease [see Warnings and Precautions (5.5)]
- Immunogenicity [see Warnings and Precautions (5.6)]

- Hypersensitivity [see Warnings and Precautions (5.7)]
- Injection-Site Reactions [see Warnings and Precautions (5.8)]

6.1 Clinical Trial Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The data in this section are derived from pooled data from the controlled period of the 2 comparator-controlled trials as well as data from the extension phase of one of these trials [see Clinical Studies (14)]. There were 410 patients exposed to BYDUREON BCISE 2 mg for 28 weeks during the controlled phases, and an additional 116 patients exposed to BYDUREON BCISE 2 mg during an uncontrolled extension for an additional 24 weeks. Overall, there were 526 patients exposed to BYDUREON BCISE 2 mg with a mean duration of exposure of 35 weeks in the controlled and extension phases of the two trials. Across the treatment arms in the controlled periods, the mean age of patients was 55 years, 2% were 75 years or older and 59% were male. The population in these studies was 78% White, 15% Black or African American, 5% Asian; 1% American Indian or Alaska Native; <1 % were Native Hawaiian or Pacific Islander; and <1% were other races. This population included 42% of Hispanic or Latino ethnicity. At baseline, the population had diabetes for an average of 8.3 years and had a mean HbA1c of 8.5%. Baseline estimated renal function was normal or mildly impaired (eGFR ≥60mL/min/1.73 m²) in 93% of the pooled study populations.

Common Adverse Reactions

Table 1 summarizes the adverse reactions with an incidence ≥5% occurring in BYDUREON BCISE-treated patients in the pooled data from the controlled and extension phases, including 10 weeks of follow-up, of the two comparator-controlled 28-week clinical trials. Adverse reactions were identified based on known adverse reactions associated with BYDUREON.

Table 1: Adverse Reactions Reported in ≥5% of BYDUREON BCISE-Treated Patients from Pooled Clinical Trial Data in Patients with Type 2 Diabetes Mellitus

	BYDUREON BCISE 2 mg	
	N=526	
	%	
Injection	10.5	
site		
nodule		
Nausea	8.2	

Note: Percentages are based on the number of patients who were randomized and received at least one dose of BYDUREON BCISE.

Nausea was a common adverse reaction associated with initiation of treatment with BYDUREON BCISE and usually decreased over time with continued use. The incidence of nausea and/or vomiting was 2% in the first week of therapy compared to 1% in the 4th week of therapy.

Less Common Adverse Reactions

Adverse reactions that occurred in >2% and <5% of patients receiving BYDUREON BCISE during the controlled and extension phases, including 10 weeks of follow-up, of the two comparator-controlled 28-week clinical trials include: headache (4.4%), diarrhea (4.0%), vomiting (3.4%), injection site pruritus (3.2%), dizziness (2.5%), injection site erythema (2.3%), and constipation (2.1%).

Adverse Reactions Leading to Discontinuation of Therapy

The incidence of discontinuation of therapy due to adverse reactions was 3.9% for BYDUREON BCISE-treated patients in the two comparator-controlled 28-week trials. The most common classes of adverse reactions leading to discontinuation of therapy for BYDUREON BCISE-treated patients were Gastrointestinal Disorders 2.0% and General Disorders and Administration Site Conditions 1.2%. For BYDUREON BCISE-treated patients, the most frequent adverse reactions leading to discontinuation of therapy within each of these respective classes were diarrhea (0.7%), nausea (0.7%), vomiting (0.5%) and injection-site nodule (0.5%).

Other Adverse Reactions

Hypoglycemia

Table 2 summarizes the incidence of glucose level <54 mg/dL regardless of hypoglycemia clinical symptoms and the incidence of severe hypoglycemia in the two comparator-controlled 28-week trials of BYDUREON BCISE.

Table 2: Incidence (% of Subjects) of Hypoglycemia (glucose <54 mg/dL) and Severe Hypoglycemia in Clinical Trials in Patients with Type 2 Diabetes Mellitus

Incidence of Hypoglycemia (glucose <54 mg/dL)					
Mono- or Combination Therapy with One or Two OADs Trial (28 weeks)					
With Concomitant Sulfonylurea Use					
BYDUREON BCISE 2 mg (N=88)	25.0%				
Without Concomitant Sulfonylurea Use					
BYDUREON BCISE 2 mg (N=141)	2.1%				
Add-On to Metforn	Add-On to Metformin Trial (28 weeks)				
All treated subjects					
BYDUREON BCISE 2 mg (N=181)	0.0%				
Incidence of Severe Hypoglycemia					
Mono- or Combination Therapy with	One or Two OADs Trial (28 weeks)				
With Concomitant Sulfonylurea Use					
BYDUREON BCISE 2 mg (N=88)	2.3%				
Without Concomitant Sulfonylurea Use					
BYDUREON BCISE 2 mg (N=141)	0.7%				
Add-On to Metformin Trial (28 weeks)					
All treated subjects					
BYDUREON BCISE 2 mg (N=181)	0.0%				

Note: N and percentages are based on the number of patients who were randomized and received at least one dose of BYDUREON BCISE.

Severe hypoglycemia was defined as clinical symptoms that were considered to result from hypoglycemia in which the patient required the assistance of another person and associated with recovery after oral carbohydrates, intravenous glucose or glucagon administration if no plasma glucose was available.

Injection-Site Adverse Reactions

In the two comparator-controlled 28-week trials, injection site reactions (including injection site nodule, injection site pruritus, injection site bruising) were observed in 23.9% of patients treated with BYDUREON BCISE. The formation of subcutaneous nodules is consistent with the properties of the microspheres used in BYDUREON BCISE.

Increase in Heart Rate

In clinical trials of BYDUREON BCISE the mean increase from baseline in heart rate was 2.4 beats per minute. The long-term effects of the increase in heart rate have not been established.

6.2 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to exenatide in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

Anti-exenatide antibodies were measured at prespecified intervals in 393 BYDUREON BCISE-treated patients in the two comparator-controlled studies. In these trials 42.2% of these patients developed low titer antibodies to exenatide and approximately 31.8% of patients developed high titer antibodies at any time during the studies. The percentage of patients with positive antibody titers, in particular high titers, peaked at approximately weeks 8-16 of dosing and then diminished over time.

Change in HbA1c from baseline in patients with low titer antibodies at the last visit was generally comparable to that observed in antibody-negative patients at the last visit. However, patients with higher titer antibodies may have an attenuated HbA1c response.

Amongst BYDUREON BCISE-treated patients evaluable for antibodies (N=393), the incidence of potentially immunogenic injection site reactions (most commonly injection site nodule) during the 28-week studies was approximately 19.6%. These reactions were less commonly observed in antibodynegative patients (15.7%) and patients with low titer antibodies (16.3%) compared with those with high titer antibodies (27.2%).

A total of 246 patients with antibodies to exenatide in the BYETTA and BYDUREON clinical trials were tested for the presence of cross-reactive antibodies to GLP-1 and/or glucagon. No treatment-emergent cross-reactive antibodies were observed across the range of titers.

6.3 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of other formulations of exenatide. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Allergy/Hypersensitivity: injection-site reactions, generalized pruritus and/or urticaria, macular or papular rash, angioedema; anaphylactic reaction.

Drug Interactions: increased international normalized ratio (INR) sometimes associated with bleeding, with concomitant warfarin [see *Drug Interactions* (7)].

Gastrointestinal: nausea, vomiting, and/or diarrhea resulting in dehydration; abdominal distension, abdominal pain, eructation, constipation, flatulence, acute pancreatitis, hemorrhagic and necrotizing pancreatitis sometimes resulting in death [see Indications and Usage (1)].

Neurologic: dysgeusia; somnolence

Renal and Urinary Disorders: altered renal function, including increased serum creatinine, renal impairment, worsened chronic renal failure or acute renal failure (sometimes requiring hemodialysis), kidney transplant and kidney transplant dysfunction.

Skin and Subcutaneous Tissue Disorders: alopecia

7 DRUG INTERACTIONS

Table 3: Clinically Relevant Interactions Affecting Drugs Co-Administered with BYDUREON BCISE and Other Exenatide-Containing Products

Orally Administered Drugs (e.g., acetaminophen)		
Clinical Impact	Exenatide slows gastric emptying. Therefore, BYDUREON BCISE has the potential to reduce the rate of absorption of orally administered drugs.	
	[see Clinical Pharmacology (12.3)].	
Intervention	Use caution when administering oral medications with BYDUREON BCISE where a slower rate of oral absorption may be clinically meaningful.	
Warfarin		
Clinical Impact	BYDUREON BCISE has not been studied with warfarin. However, in a drug interaction study, BYETTA did not have a significant effect on INR [see Clinical Pharmacology (12.3)]. There have been postmarketing reports for exenatide of increased INR with concomitant use of warfarin, sometimes associated with bleeding [see Adverse Reactions (6.3)].	
Intervention	In patients taking warfarin, the INR should be monitored more frequently after initiating BYDUREON BCISE. Once a stable INR has been documented, the INR can be monitored at the intervals usually recommended for patients on warfarin.	
Concomitant Use of Insulin Secretagogues or Insulin		
Clinical Impact	Exenatide promotes insulin release from pancreatic beta-cells in the presence of	

	elevated glucose concentrations. The risk of hypoglycemia is increased when exenatide is used in combination with insulin secretagogues (e.g., sulfonylureas) or insulin [see Adverse Reactions (6.1)].
Intervention	Patients may require a lower dose of the secretagogue or insulin to reduce the risk of hypoglycemia in this setting.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Limited data with exenatide, the active ingredient in BYDUREON BCISE, in pregnant women are not sufficient to determine a drug-associated risk for major birth defects or miscarriage. There are risks to the mother and fetus associated with poorly controlled diabetes in pregnancy (*see Clinical Considerations*). Based on animal reproduction studies, there may be risks to the fetus from exposure to BYDUREON BCISE during pregnancy. BYDUREON BCISE should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Animal reproduction studies identified increased adverse fetal and neonatal outcomes from exposure to exenatide extended-release during pregnancy or from exposure to exenatide during pregnancy and lactation, in association with maternal effects. In rats, exenatide extended-release, administered during the period of organogenesis, reduced fetal growth and produced skeletal ossification deficits at doses that approximate clinical exposures at the maximum recommended human dose (MRHD) of 2 mg/week. In mice, exenatide administered during gestation and lactation, caused increased neonatal deaths at doses that approximate clinical exposures at the MRHD (*see Data*). Based on animal data, advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects is 6-10% in women with pre-gestational diabetes with an HbA1c >7 and has been reported to be as high as 20-25% in women with HbA1c >10. The estimated background risk of miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Clinical Considerations

Disease-associated maternal and/or embryo/fetal risk

Poorly controlled diabetes in pregnancy increases the maternal risk for diabetic ketoacidosis, preeclampsia, spontaneous abortions, preterm delivery, still birth and delivery complications. Poorly controlled diabetes increases the fetal risk for major birth defects, stillbirth, and macrosomia related morbidity.

<u>Data</u>

Animal Data

Pregnant rats given subcutaneous doses of 0.3, 1, or 3 mg/kg exenatide extended-release every 3 days during organogenesis had systemic exposures 3-, 8-, and 19-times human exposure, respectively, at the MRHD of 2 mg/week BYDUREON BCISE based on plasma exenatide exposure (AUC) comparison. Reduced fetal growth at all doses and skeletal ossification deficits at 1 and 3 mg/kg occurred at doses that decreased maternal food intake and body weight gain.

In studies evaluating reproduction and development in pregnant mice and rabbits, maternal animals were administered exenatide, the active ingredient in BYDUREON BCISE, by subcutaneous injection twice a day. Differences in embryo-fetal developmental toxicity from subcutaneously injected exenatide extended-release and exenatide were not evaluated in mice, rats, or rabbits.

In pregnant mice given 6, 68, 460, or 760 mcg/kg/day exenatide during fetal organogenesis, skeletal variations associated with slowed fetal growth, including changes in number of rib pairs or vertebral ossifications sites, and wavy ribs were observed at 760 mcg/kg/day, a dose that produced maternal toxicity and yielded systemic exposure 200 times the human exposure resulting from the MRHD of BYDUREON BCISE based on AUC comparison.

In pregnant rabbits given 0.2, 2, 22, 156, or 260 mcg/kg/day exenatide during fetal organogenesis, irregular fetal skeletal ossifications were observed at 2 mcg/kg/day, a dose yielding systemic exposure up to 6 times the human exposure from the MRHD of BYDUREON BCISE based on AUC comparison.

In maternal mice given 6, 68, or 760 mcg/kg/day exenatide from gestation day 6 through lactation day 20 (weaning), an increased number of neonatal deaths at 6 mcg/kg/day were observed on postpartum days 2 to 4 in dams given 6 mcg/kg/day, a dose yielding a systemic exposure equivalent to the human exposure from the MRHD of BYDUREON BCISE based on AUC comparison.

8.2 Lactation

Risk Summary

There is no information regarding the presence of exenatide, in human milk, the effects of exenatide on the breastfed infant, or the effects of exenatide on milk production. Exenatide, the active ingredient in BYDUREON BCISE was present in the milk of lactating mice. However, due to species-specific differences in lactation physiology, the clinical relevance of these data is not clear (*see Data*). The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for exenatide and any potential adverse effects on the breastfed child from exenatide or from the underlying maternal condition.

Data

In lactating mice subcutaneously injected twice a day with exenatide, the active ingredient in BYDUREON BCISE, the concentration of exenatide in milk was up to 2.5% of the concentration in maternal plasma.

8.4 Pediatric Use

Safety and effectiveness of BYDUREON BCISE have not been established in pediatric patients. BYDUREON BCISE is not recommended for use in pediatric patients.

8.5 Geriatric Use

In two comparator-controlled 28-week trials, BYDUREON BCISE was studied in 74 patients (18.0%) who were at least 65 years old and 10 patients who were at least 75 years old. No meaningful differences in safety and efficacy were observed between these patients and younger patients, but the small sample size for patients \geq 75 years old limits conclusions.

Because elderly patients are more likely to have decreased renal function, use caution when initiating BYDUREON BCISE in the elderly.

8.6 Renal Impairment

BYDUREON BCISE is not recommended for use in patients with severe renal impairment (CrCL <30 mL/min, eGFR <30 mL/min /1.73m²) or end-stage renal disease and should be used with caution in patients with renal transplantation [see Warnings and Precautions (5.4) and Clinical Pharmacology (12.3)]. Use BYDUREON BCISE with caution in patients with moderate renal impairment (CrCL 30-59 mL/min, eGFR 30-59 mL/min /1.73m²) [see Warnings and Precautions (5.4) and Clinical Pharmacology (12.3)].

10 OVERDOSAGE

Effects of overdoses with BYETTA, another formulation of exenatide, included severe nausea, severe vomiting, and rapidly declining blood glucose concentrations, including severe hypoglycemia requiring parenteral glucose administration. In the event of overdose, appropriate supportive treatment should be initiated according to the patient's clinical signs and symptoms.

11 DESCRIPTION

BYDUREON BCISE (exenatide extended-release) injectable suspension is a GLP-1 receptor agonist supplied as a sterile suspension of exenatide extended-release microspheres in an oil-based vehicle of medium chain triglycerides (MCT), in a single-dose autoinjector. Redispersion by mixing provides a white to off-white-opaque suspension to be administered by subcutaneous injection. Each autoinjector contains sufficient suspension to deliver 2 mg of exenatide extended-release in a volume of 0.85 mL.

Exenatide is a 39-amino acid synthetic peptide amide with an empirical formula of $C_{184}H_{282}N_{50}O_{60}S$ and a molecular weight of 4186.6 Daltons. The amino acid sequence for exenatide is shown below.

Exenatide is incorporated in an extended-release microsphere formulation containing the 50:50 poly(D,L-lactide-co-glycolide) polymer (37.2 mg per dose) along with sucrose (0.8 mg per dose), suspended in the vehicle, MCT (774.4 mg per dose).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Incretins, such as glucagon-like peptide-1 (GLP-1), enhance glucose-dependent insulin secretion and exhibit other antihyperglycemic actions following their release into the circulation from the gut. Exenatide is a GLP-1 receptor agonist that enhances glucose-dependent insulin secretion by the pancreatic beta-cell, suppresses inappropriately elevated glucagon secretion, and slows gastric emptying.

The amino acid sequence of exenatide partially overlaps that of human GLP-1. Exenatide is a GLP-1 receptor agonist that has been shown to bind and activate the human GLP-1 receptor *in vitro*. This leads to an increase in both glucose-dependent synthesis of insulin and *in vivo* secretion of insulin from pancreatic beta-cells, by mechanisms involving cyclic AMP and/or other intracellular signaling pathways. Exenatide promotes insulin release from pancreatic beta-cells in the presence of elevated glucose concentrations.

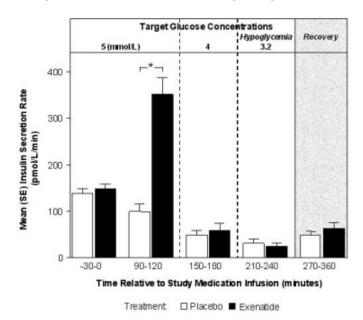
12.2 Pharmacodynamics

Exenatide improves glycemic control through the actions described below.

Glucose-Dependent Insulin Secretion

The effect of exenatide infusion on glucose-dependent insulin secretion rates (ISR) was investigated in 11 healthy subjects. In these healthy subjects, on average, the ISR response was glucose-dependent (Figure 1). Exenatide did not impair the normal glucagon response to hypoglycemia.

Figure 1: Mean (SE) Insulin Secretion Rates During Infusion of Exenatide or Placebo by Treatment, Time, and Glycemic Condition in Healthy Subjects



SE = standard error.

Notes: 5 mmol = 90 mg/dL, 4 mmol/L = 72 mg/dL, 3.2 mmol/L = 58 mg/dL; Study medication infusion was started at time = 0 minutes.

Statistical assessments were for the last 30 minutes of each glycemic step, during which the target glucose concentrations were

maintained.

*p <0.05, exenatide treatment relative to placebo.

Glucagon Secretion

In patients with type 2 diabetes, exenatide moderates glucagon secretion and lowers serum glucagon concentrations during periods of hyperglycemia.

Gastric Emptying

Exenatide slows gastric emptying, thereby reducing the rate at which postprandial glucose appears in the circulation.

Fasting and Postprandial Glucose

In a 12-week clinical pharmacology study of exenatide microspheres suspended in MCT-oil in adults with type 2 diabetes mellitus, reductions in fasting plasma glucose were evident after 2 weeks of treatment, and after 12 weeks resulted in a reduction of fasting plasma glucose concentrations of -40.4 mg/dL, when compared to placebo.

In a clinical study of BYDUREON BCISE, 2-hour postprandial glucose levels were measured at Week 16, during a mixed meal tolerance test, in a subset of patients with type 2 diabetes mellitus. The mean change from baseline was -78 mg/dL.

Cardiac Electrophysiology

The effect of exenatide at therapeutic (253 pg/mL) and supratherapeutic (627 pg/mL) concentrations, following an intravenous infusion on QTc interval was evaluated in a randomized, placebo- and active-controlled (moxifloxacin 400 mg) three-period crossover thorough QT study in 74 healthy subjects. The upper bound of the one-sided 95% confidence interval for the largest placebo adjusted, baseline-corrected QTc based on population correction method (QTcP) was below 10 ms. Therefore, exenatide was not associated with prolongation of the QTc interval at therapeutic and supratherapeutic concentrations.

12.3 Pharmacokinetics

Absorption

Following a single subcutaneous dose of exenatide microspheres suspended in MCT-oil, there is an initial period of release of surface-bound exenatide followed by a gradual release of exenatide from the microspheres, which results in a peak of plasma exenatide concentration at around Week 6 to Week 7 representing the hydration and erosion of the microspheres.

Following initiation of once every 7 days (weekly) administration of 2 mg BYDUREON BCISE, a gradual increase in the plasma exenatide concentration is observed up to approximately Week 10. From Week 10 mean plasma exenatide concentrations of approximately 208 pg/mL were maintained over once every 7 days (weekly) dosing intervals indicating that steady state was achieved.

Distribution

The mean apparent volume of distribution of exenatide following subcutaneous administration of a single dose of BYETTA is 28.3 L and is expected to remain unchanged for BYDUREON BCISE.

Metabolism

Elimination

Nonclinical studies have shown that exenatide is predominantly eliminated by glomerular filtration with subsequent proteolytic degradation. The mean apparent clearance of exenatide in humans is 9.1 L/hour and is independent of the dose. Approximately 10 weeks after discontinuation of BYDUREON BCISE therapy, plasma exenatide concentrations generally fall below the minimal quantifiable concentration of 20 pg/mL.

Drug Interaction Studies

The following drug interactions have been studied using BYDUREON. The potential for drug-drug interaction with BYDUREON BCISE is expected to be similar to that of BYDUREON.

Acetaminophen

When 1000 mg acetaminophen tablets were administered, either with or without a meal, following 14 weeks of BYDUREON therapy (2 mg weekly), no significant changes in acetaminophen AUC were observed compared to the control period. Acetaminophen C_{max} decreased by 16% (fasting) and 5% (fed) and T_{max} was increased from approximately 1 hour in the control period to 1.4 hours (fasting) and 1.3 hours (fed).

The following drug interactions have been studied using BYETTA. The potential for drug-drug interaction with BYDUREON BCISE is expected to be similar to that of BYETTA.

Digoxin

Administration of repeated doses of BYETTA 30 minutes before oral digoxin (0.25 mg once daily) decreased the C_{max} of digoxin by 17% and delayed the T_{max} of digoxin by approximately 2.5 hours; however, the overall steady-state pharmacokinetic exposure (e.g., AUC) of digoxin was not changed.

Lovastatin

Administration of BYETTA (10 mcg twice daily) 30 minutes before a single oral dose of lovastatin (40 mg) decreased the AUC and C_{max} of lovastatin by approximately 40% and 28%, respectively, and delayed the T_{max} by about 4 hours compared with lovastatin administered alone. In the 30-week controlled clinical trials of BYETTA, the use of BYETTA in patients already receiving HMG CoA reductase inhibitors was not associated with consistent changes in lipid profiles compared to baseline.

Lisinopril

In patients with mild to moderate hypertension stabilized on lisinopril (5-20 mg/day), BYETTA (10 mcg twice daily) did not alter steady-state C_{max} or AUC of lisinopril. Lisinopril steady-state T_{max} was delayed by 2 hours. There were no changes in 24-hour mean systolic and diastolic blood pressure.

Oral Contraceptives

The effect of BYETTA (10 mcg twice daily) on single and on multiple doses of a combination oral contraceptive (30 mcg ethinyl estradiol plus 150 mcg levonorgestrel) was studied in healthy female subjects. Repeated daily doses of the oral contraceptive (OC) given 30 minutes after BYETTA administration decreased the C_{max} of ethinyl estradiol and levonorgestrel by 45% and 27%, respectively, and delayed the T_{max} of ethinyl estradiol and levonorgestrel by 3.0 hours and 3.5 hours, respectively, as compared to the oral contraceptive administred alone. Administration of repeated daily doses of the OC one hour prior to BYETTA administration decreased the mean C_{max} of ethinyl estradiol by 15%, but the mean C_{max} of levonorgestrel was not significantly changed as compared to when the OC was given alone. BYETTA did not alter the mean trough concentrations of levonorgestrel after repeated daily dosing of the oral contraceptive for both regimens. However, the mean trough concentration of ethinyl estradiol was increased by 20% when the OC was administered 30 minutes after BYETTA administration injection as compared to when the OC was given alone. The effect of BYETTA on OC pharmacokinetics is confounded by the possible food effect on OC in this study [see Drug Interactions (7)].

Warfarin

Administration of warfarin (25 mg) 35 minutes after repeated doses of BYETTA (5 mcg twice daily on days 1-2 and 10 mcg twice daily on days 3-9) in healthy volunteers delayed warfarin T_{max} by approximately 2 hours. No clinically relevant effects on C_{max} or AUC of S- and R-enantiomers of warfarin were observed. BYETTA did not significantly alter the pharmacodynamic properties (e.g., international normalized ratio) of warfarin [see Drug Interactions (7)].

Specific Populations

Patients with Renal Impairment

BYDUREON BCISE has not been studied in patients with severe renal impairment (CrCL <30 mL/min, eGFR <30 mL/min/1.73m²) or end-stage renal disease receiving dialysis. Pharmacokinetic analysis of patients receiving 2 mg BYDUREON BCISE indicated that there was an 28% and 69% higher systemic exposure to exenatide in patients with mild (N=96) or moderate (N=24) renal impairment, respectively, as compared to patients with normal renal function (N=70) [see Warnings and Precautions (5.4) and Use in Specific Populations (8.6)]. In a study of BYETTA in subjects with end-stage renal disease receiving dialysis, mean exenatide exposure increased by 3.4-fold compared to that of subjects with normal renal function [see Warnings and Precautions (5.4) and Use in Specific Populations (8.6)].

Patients with Hepatic Impairment

BYDUREON BCISE has not been studied in patients with acute or chronic hepatic impairment.

Age, Male and Female Patients, Race, and Body Weight

Age, gender, race and body weight did not alter the pharmacokinetics of BYDUREON BCISE in population pharmacokinetic analyses.

Pediatric Patients

BYDUREON BCISE has not been studied in pediatric patients [see Use in Specific Populations (8.4)].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Thyroid C-cell tumors have been observed in rats and mice with GLP-1 receptor agonists.

A 2-year carcinogenicity study was conducted with exenatide extended-release, the active component of BYDUREON BCISE, in male and female rats at doses of 0.3, 1.0, and 3.0 mg/kg (2-, 10-, and 27-times human systemic exposure at the maximum recommended human dose (MRHD) of 2 mg/week. BYDUREON BCISE based on plasma exenatide AUC, respectively) administered by subcutaneous injection every other week. In this study there was an increased incidence of C-cell adenomas and C-cell carcinomas at all doses. An increase in benign fibromas was seen in the skin subcutis at injection sites of males given 3 mg/kg. No treatment-related injection-site fibrosarcomas were observed at any dose. The human relevance of these findings is currently unknown.

Carcinogenicity of exenatide extended-release has not been evaluated in mice.

Exenatide, the active ingredient in BYDUREON BCISE, was not mutagenic or clastogenic, with or without metabolic activation, in the Ames bacterial mutagenicity assay or chromosomal aberration assay in Chinese hamster ovary cells. Exenatide was negative in the *in vivo* mouse micronucleus assay.

In mouse fertility studies with exenatide, the active ingredient in BYDUREON BCISE, at twice-daily subcutaneous doses of 6, 68, or 760 mcg/kg/day, males were treated for 4 weeks prior to and throughout mating, and females were treated 2 weeks prior to mating and throughout mating until gestation day 7. No adverse effect on fertility was observed at 760 mcg/kg/day, a systemic exposure 163 times the human exposure resulting from the recommended dose of 2 mg/week, based on AUC.

14 CLINICAL STUDIES

BYDUREON BCISE has been studied as monotherapy and in combination with metformin, a sulfonylurea, a thiazolidinedione, a combination of metformin and a sulfonylurea, or a combination of metformin and a thiazolidinedione.

BYDUREON BCISE versus BYETTA, Both as Monotherapy or as Add-on to Metformin, a Sulfonylurea, a Thiazolidinedione, or Combination of Oral Agents

A 28-week, randomized, open-label comparator-controlled trial was conducted to compare the safety and efficacy of BYDUREON BCISE to BYETTA in patients with type 2 diabetes and inadequate glycemic control with diet and exercise alone or with oral antidiabetic therapy, including metformin, a sulfonylurea, a thiazolidinedione, or a combination of any two of these therapies (NCT 00877890).

A total of 375 patients were studied: 278 (74%) were Caucasian, 61(16%) Black or African American, 25 (7%) Asian, 5 (1%) listed as other, 5 (1%) American Indian or Alaska Native, and 1 (<1%) Native Hawaiian or Other Pacific Islander. Patients were treated with diet and exercise alone (13%), a single oral antidiabetic agent (49%), or combination therapy of oral antidiabetic agents (38%). The mean baseline HbA1c was 8.5%. Patients were randomly assigned to receive BYDUREON BCISE 2 mg once every 7

days (weekly) (n=229) or BYETTA (10 mcg twice daily) (n=146), in addition to existing oral antidiabetic agents. Patients assigned to BYETTA initiated treatment with 5 mcg twice daily then increased the dose to 10 mcg twice daily after 4 weeks.

The primary endpoint was change in HbA1c from baseline to week 28. The results for the primary endpoint at week 28 are summarized in Table 4. Treatment with BYDUREON BCISE 2 mg once weekly (QW) resulted in a statistically significantly greater reduction in HbA1c compared to BYETTA 10 mcg twice daily. The mean reduction in HbA1c was non-inferior compared with BYETTA 10 mcg twice daily at the pre-specified non-inferiority margin +0.4% in this study. BYDUREON BCISE 2 mg QW was statistically superior to BYETTA 10 mcg twice daily (ANCOVA p-value=0.0032).

Table 4: Results of 28-Week Trial of BYDUREON BCISE versus BYETTA, Both as Monotherapy or as Add-On to Metformin, a Sulfonylurea, a Thiazolidinedione, or Combination of Oral Agents in Patients with Type 2 Diabetes Mellitus

	BYDUREON BCISE	BYETTA 10 mcg twice daily [†]	
Intent-to-Treat Population (N)	2 mg QW 229	146	
HbA1c (%)		140	
Mean Baseline	8.5	8.5	
Mean Change at Week 28	-1.39	-1.03	
Difference from BYETTA [±] [95% CI]	-0.36*		
	(-0.66, -0.14)		

N= number of patients in each treatment group, CI= unadjusted confidence interval, QW= once weekly. *p-value <0.05

The proportions of subjects achieving HbA1c <7.0% at Week 28 were 40% in BYDUREON BCISE group compared to 38% in BYETTA group. Subjects with missing values at Week 28 counted as non-responders. The mean changes from baseline to Week 28 for fasting plasma glucose were -36 mg/dL and -27 mg/dL for BYDUREON BCISE and BYETTA respectively, and for body weight were -1.4 kg and -1.9 kg for BYDUREON BCISE and BYETTA, respectively.

BYDUREON BCISE versus Sitagliptin and Placebo, All as Add-on to Metformin Therapy

A 28-week open-label (oral medication blinded), comparator- and placebo-controlled trial was conducted to compare the safety and efficacy of BYDUREON BCISE to sitagliptin and placebo in patients with type 2 diabetes whose glycemic control was inadequate with metformin therapy (NCT 00637273).

A total of 364 patients were studied, 296 (81%) were Caucasian, 49 (14%) Black or African American, 14 (4%) Asian and 3 (<1%) American Indian or Alaska Native, 1 (<1%) Native Hawaiian or Other Pacific Islander and 1 (<1%) was classified otherwise. The mean baseline HbA1c was 8.5%. Patients were randomly assigned to receive BYDUREON BCISE 2 mg once every 7 days (weekly) (n=181), sitagliptin 100 mg/day (n=122) or placebo (n=61), in addition to their existing metformin therapy.

[†] Least squares means were obtained using an Analysis of Covariance (ANCOVA) model with treatment, baseline HbA1c, baseline HbA1c stratum (<9% or ≥9%), diabetes management method at screening (diet/exercise alone, SU use, or non-SU use), and renal function (normal, mild, or moderate renal impairment) in the population included subjects discontinued treatment before 28 weeks regardless of initiation of rescue medicine.

[‡] p-value < 0.01

The primary endpoint was change in HbA1c from baseline to week 28. Results for the primary endpoint at 28 weeks are summarized in Table 5. In this study, treatment with BYDUREON BCISE 2 mg once weekly resulted in a statistically significant mean reduction in HbA1c compared to placebo and was statistically superior BYDUREON BCISE 2 mg QW to placebo (ANCOVA p-value=0.02).

Table 5: Results of 28-Week Trial of BYDUREON BCISE versus Sitagliptin and Placebo	,
All as Add-On to Metformin Therapy	

	BYDUREON BCISE 2 mg QW	Sitagliptin 100 mg/day	Placebo once daily
Intent-to-Treat Population (N)	181	122	61
HbA1c (%)			
Mean Baseline	8.4	8.5	8.5
Mean Change at Week 28	-1.07	-0.79	-0.59
Difference from sitagliptin ^{†,‡}	-0.28		
[95% CI]	(-0.62, 0.02)		
Difference from placebo [†]	-0.49		
[95% CI]	(-0.91, -0.07)*		

N = number of patients in each treatment group, CI = unadjusted confidence interval, QW = once weekly.

The proportions of subjects who achieved an HbA1c <7.0% at Week 28 were 41%, 31%, and 26% in BYDUREON BCISE, Sitagliptin and Placebo groups, respectively. Subjects with missing values at Week 28 counted as non-responders. The mean changes from baseline to Week 28 for fasting plasma glucose were -24 mg/dL, -19 mg/dL and -1 mg/dL for BYDUREON BCISE, Sitagliptin and Placebo, respectively, and for body weight were -1.4 kg, -1.2 kg, and 0.4 kg for BYDUREON BCISE, Sitagliptin and Placebo, respectively.

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

BYDUREON BCISE contains 2 mg of exenatide in 0.85 mL vehicle, in a pre-filled, disposable, single dose autoinjector. Redispersion by mixing provides a white to off-white, opaque, extended release injectable suspension, available in cartons that contain four single-dose autoinjectors (NDC 0310-6540-04).

Storage and Handling

- BYDUREON BCISE must be stored FLAT.
- Store the autoinjector in the original package. Protect from light.
- BYDUREON BCISE should be stored in the refrigerator at 36°F to 46°F (2°C to 8°C), up to the expiration date or until preparing for use. BYDUREON BCISE should not be used past the expiration date. The expiration date can be found on the carton, or on the autoinjector label.

^{*} p-value < 0.05

[†] Least squares means were obtained using an Analysis of Covariance (ANCOVA) model with treatment, baseline HbA1c and baseline HbA1c stratum (<9% or ≥ 9%) in the population included subjects discontinued treatment before 28 weeks regardless of initiation of rescue medicine.

[‡] Sitagliptin 100 mg/day did not show the superiority to placebo in this study.

- BYDUREON BCISE can be kept at room temperature not to exceed 86°F (30°C) for no more than a total of 4 weeks, if needed.
- Use a puncture-resistant container to discard BYDUREON BCISE.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide and Instructions for Use).

Risk of Thyroid C-cell Tumors

Inform patients that exenatide extended-release causes benign and malignant thyroid C-cell tumors in rats and that the human relevance of this finding has not been determined. Counsel patients to report symptoms of thyroid tumors (e.g., a lump in the neck, hoarseness, dysphagia, or dyspnea) to their physician [see Boxed Warning and Warnings and Precautions (5.1)].

Risk of Pancreatitis

Inform patients treated with BYDUREON BCISE of the potential risk for pancreatitis. Explain that persistent severe abdominal pain that may radiate to the back, and which may or may not be accompanied by vomiting, is the hallmark symptom of acute pancreatitis. Instruct patients to discontinue BYDUREON BCISE promptly and contact their healthcare provider if persistent severe abdominal pain occurs [see Warnings and Precautions (5.2)].

Risk of Hypoglycemia

Inform patients that the risk of hypoglycemia is increased when BYDUREON BCISE is used in combination with an agent that induces hypoglycemia, such as a sulfonylurea or insulin [see Warnings and Precautions (5.3)]. Explain the symptoms, treatment, and conditions that predispose to the development of hypoglycemia. Review and reinforce instructions for hypoglycemia management when initiating BYDUREON BCISE therapy, particularly when concomitantly administered with a sulfonylurea or insulin [see Warnings and Precautions (5.3)].

Risk of Acute Kidney Injury

Inform patients treated with BYDUREON BCISE of the potential risk for worsening kidney function and explain the associated signs and symptoms of renal impairment, as well as the possibility of dialysis as a medical intervention if renal failure occurs [see Warnings and Precautions (5.4)].

Risk of Hypersensitivity Reactions

Inform patients that serious hypersensitivity reactions have been reported during postmarketing use of exenatide. Inform patients that if symptoms of hypersensitivity reaction occur, stop taking BYDUREON BCISE and seek medical advice promptly [see Warnings and Precautions (5.7)].

Risk of Injection-Site Reactions

Inform patients that there have been postmarketing reports of serious injection-site reactions with or without subcutaneous nodules, with the use of BYDUREON. Isolated cases of injection-site reactions

required surgical intervention. Advise patients to seek medical advice if symptomatic nodules occur, or for any signs or symptoms of abscess, cellulitis, or necrosis [see Warnings and Precautions (5.8)].

Instructions

Patients should be trained on how to use BYDUREON BCISE properly prior to self-administration. Instruct patients on proper mixing and injection technique to ensure the product is adequately mixed and a full dose is delivered. Refer patients to the accompanying Instructions for Use for complete administration instructions with illustrations.

Inform patients formerly on BYETTA who start BYDUREON BCISE may experience transient elevations in blood glucose concentrations, which generally improve within the first 4 weeks after initiation of therapy [see Dosage and Administration (2.4)].

Treatment with BYDUREON BCISE may also result in nausea, particularly upon initiation of therapy [see Adverse Reactions (6)].

Inform patients about the importance of proper storage of BYDUREON BCISE [see How Supplied/Storage and Handling (16)].

Instruct the patient to review the BYDUREON BCISE Medication Guide and the Instructions for Use each time the prescription is refilled.

Manufactured for: AstraZeneca Pharmaceuticals LP Wilmington, DE 19850

By:

Amylin Ohio LLC West Chester, OH 45071

and

Vetter Pharma-Fertigung GmbH & Co. KG 88214 Ravensburg Germany

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MEDICATION GUIDE

BYDUREON® BCISE™ (by-DUR-ee-on B-cise)

(exenatide extended-release)

injectable suspension, for subcutaneous use

What is the most important information I should know about BYDUREON BCISE? BYDUREON BCISE may cause serious side effects, including:

- Possible thyroid tumors, including cancer. Tell your healthcare provider if you get a lump or swelling in your neck, hoarseness, trouble swallowing, or shortness of breath. These may be symptoms of thyroid cancer. In studies with rats, BYDUREON and medicines that work like BYDUREON caused thyroid tumors, including thyroid cancer. It is not known if BYDUREON BCISE will cause thyroid tumors or a type of thyroid cancer called medullary thyroid carcinoma (MTC) in people.
- Do not use BYDUREON BCISE if you or any of your family have ever had a type of thyroid cancer called medullary thyroid carcinoma (MTC), or if you have an endocrine system condition called Multiple Endocrine Neoplasia syndrome type 2 (MEN 2).

What is BYDUREON BCISE?

- BYDUREON BCISE is an injectable prescription medicine that may improve blood sugar (glucose) in adults with type 2 diabetes mellitus, and should be used along with diet and exercise.
- BYDUREON BCISE is not recommended as the first choice of medicine for treating diabetes.
- BYDUREON BCISE is not a substitute for insulin and is not for use in people with type 1 diabetes or people with diabetic ketoacidosis.
- BYDUREON BCISE and BYDUREON are long-acting forms of the medicine in BYETTA (exenatide). BYDUREON BCISE should not be used at the same time as BYETTA or BYDUREON.
- It is not known if BYDUREON BCISE can be used in people who have had pancreatitis.
- It is not known if BYDUREON BCISE is safe and effective for use in children.

Do not use BYDUREON BCISE if:

- you or any of your family have ever had a type of thyroid cancer called medullary thyroid carcinoma (MTC) or if you have an endocrine system condition called Multiple Endocrine Neoplasia syndrome type 2 (MEN 2).
- you are allergic to exenatide or any of the ingredients in BYDUREON BCISE. See the end
 of this Medication Guide for a complete list of ingredients in BYDUREON BCISE.

Before using BYDUREON BCISE, tell your healthcare provider about all of your medical conditions, including if you:

- have or have had problems with your pancreas or kidneys.
- have severe problems with your stomach, such as slowed emptying of your stomach (gastroparesis) or problems with digesting food.
- are pregnant or plan to become pregnant. BYDUREON BCISE may harm your unborn baby. Tell your healthcare provider if you become pregnant while using BYDUREON BCISE. Talk to your healthcare provider about the best way to control your blood sugar if you plan to become pregnant or while you are pregnant.
- are breastfeeding or plan to breastfeed. It is not known if BYDUREON BCISE passes into your breast milk. You should talk with your healthcare provider about the best way to feed your baby while using BYDUREON BCISE.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. BYDUREON BCISE may affect the way some medicines work and some medicines may affect the way BYDUREON BCISE works.

Before using BYDUREON BCISE, talk to your healthcare provider about low blood sugar and how to manage it. Tell your healthcare provider if you are taking other

medicines to treat diabetes including insulin or sulfonylureas.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I use BYDUREON BCISE?

- Read the Instructions for Use that comes with BYDUREON BCISE.
- Use BYDUREON BCISE exactly as your healthcare provider tells you to.
- BYDUREON BCISE should be injected right away after you prepare your dose.
- Your healthcare provider should show you how to use BYDUREON BCISE before you use it for the first time.
- BYDUREON BCISE is injected under the skin (subcutaneously) of your stomach (abdomen), thigh, or upper arm. **Do not** inject BYDUREON BCISE into a muscle (intramuscularly) or vein (intravenously).
- Use BYDUREON BCISE 1 time each week on the same day each week at any time of the day.
- BYDUREON BCISE may be taken with or without food.
- If you miss a dose of BYDUREON BCISE, take the missed dose as soon as possible if there are at least 3 days (72 hours) until your next scheduled dose. If there are less than 3 days remaining, skip the missed dose and take your next dose on the regularly scheduled day. **Do not** take 2 doses of BYDUREON BCISE within 3 days of each other.
- You may change the day of the week as long as your last dose was given 3 or more days before.
- **Do not** mix insulin and BYDUREON BCISE together in the same injection.
- You may give an injection of BYDUREON BCISE and insulin in the same body area (such as, your stomach area), but not right next to each other.
- Change (rotate) your injection site with each weekly injection. **Do not** use the same site for each injection.
- Your dose of other diabetes medicines may need to change because of: change in level of physical activity or exercise, weight gain or loss, increased stress, illness, change in diet, or because of other medicines you take.
- **Do not share** your BYDUREON BCISE pen, syringe, or needles with another person. You may give another person an infection or get an infection from them.

What are the possible side effects of BYDUREON BCISE? BYDUREON BCISE may cause serious side effects, including:

- See "What is the most important information I should know about BYDUREON BCISE?"
- inflammation of your pancreas (pancreatitis). Stop using BYDUREON BCISE and call your healthcare provider right away if you have severe pain in your stomach area (abdomen) that will not go away, with or without vomiting. You may feel the pain from your abdomen to your back.
- **low blood sugar (hypoglycemia).** Your risk for getting low blood sugar may be higher if you use BYDUREON BCISE with another medicine that can cause low blood sugar, such as a sulfonylurea or insulin. **Signs and symptoms of low blood sugar may include:**
 - dizziness or light- headedness
 sweating
 confusion or drowsiness
 headedness
 o slurred speech or hunger
 o shakiness or light- headedness
 o slurred speech or hunger
 o shakiness or light- headedness
 o feeling jittery
- **kidney problems (kidney failure).** In people who have kidney problems, diarrhea, nausea, and vomiting may cause a loss of fluids (dehydration) which may cause kidney problems to get worse.
- **stomach problems.** Other medicines like BYDUREON BCISE may cause severe stomach problems. It is not known if BYDUREON BCISE causes or worsens stomach problems.

- **serious allergic reactions.** Stop using BYDUREON BCISE, and get medical help right away if you have any symptoms of a serious allergic reaction, including itching, rash, or difficulty breathing.
- **injection-site reactions.** Serious injection-site reactions, with or without bumps (nodules), have happened in some people who use BYDUREON. Some of these injection-site reactions have required surgery. Call your healthcare provider if you have any symptoms of an injection-site reaction, including severe pain, swelling, blisters, an open wound, a dark scab.

The most common side effects of BYDUREON BCISE may include a bump (nodule) at the injection site and nausea.

Nausea is most common when you first start using BYDUREON BCISE, but decreases over time in most people as their body gets used to the medicine.

Talk to your healthcare provider about any side effect that bothers you or does not go away. These are not all the possible side effects of BYDUREON BCISE.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

Keep BYDUREON BCISE and all medicines out of the reach of children.

General information about the safe and effective use of BYDUREON BCISE.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use BYDUREON BCISE for a condition for which it was not prescribed. Do not give your BYDUREON BCISE to other people, even if they have the same symptoms you have. It may harm them.

You can ask your pharmacist or healthcare provider for information about BYDUREON BCISE that is written for health professionals.

What are the ingredients in BYDUREON BCISE?

Contents of the powder:
Active Ingredient: exenatide

Inactive Ingredients: polylactide-co-glycolide and sucrose

Contents of liquid (diluent):

Inactive Ingredients: medium chain triglycerides

BYDUREON, BCISE and BYETTA are trademarks of the AstraZeneca group of companies. All other marks are the marks of their respective owners.

Manufactured for:

AstraZeneca Pharmaceuticals LP

Wilmington, DE 19850

Ву:

Amylin Ohio LLC

West Chester, OH 45071 and

Vetter Pharma-Fertigung GmbH & Co. KG

88214 Ravensburg

Germany

For more information about BYDUREON BCISE, go to www.BYDUREONBCISE.com or call 1-877-700-7365.

This Medication Guide has been approved by the U.S. Food and Drug Administration. Issued: 10/2017

INSTRUCTIONS FOR USE

Once-weekly
BYDUREON® BCISE™
(exenatide extended-release), injectable suspension
For subcutaneous use only
Single-dose Autoinjector once weekly
2 mg



Read the Instructions for Use before you start using BYDUREON BCISE. Before using BYDUREON BCISE, talk to your healthcare provider about how to use it the right way.

Before You Begin

The autoinjector:

- Is a single use, fixed dose autoinjector that automatically injects your medicine.
- Is injected 1 time per week under the skin.
- Comes in the locked position before you use it. Do not unlock the autoinjector until you are ready to inject it.
- Needle is hidden. You do not see it before, during, or after using the autoinjector.
- Do not use the autoinjector if any parts look to be broken or damaged.
- Store flat in the refrigerator between 36°F to 46°F (2°C to 8°C).
- Never share your BYDUREON BCSE autoinjector with anyone else. You may give an infection to them or get an infection from them.
- BYDUREON BCISE should **not** be used by people who are blind or cannot see well, unless another
 person who is trained to use this device can help.
- Keep the autoinjector, and all medicines, out of the reach of children.

Before Use



Figure A

Supplies needed to give your injection:

BYDUREON BCISE autoinjector, Alcohol swab, A clean, flat surface, Sharps container (see "disposal" instructions at the end of these instructions)

Step 1: Prepare for Injection

A. Let your autoinjector come to room temperature.

Remove 1 autoinjector from the refrigerator and rest it flat for 15 minutes. Autoinjector can be kept at room temperature for up to 4 weeks.



Figure B

B. Check the expiration date (labeled EXP) printed on the autoinjector label.

Do not use the autoinjector past the expiration date. If the expiration date has passed, throw it away and get a new autoinjector.



Figure C

C. Wash your hands.

D. Choose your injection site.

You can inject into your stomach, thigh, or back of the upper arm, see Figure D.

Each week you can use the same area of your body, but choose a different injection site in that area of your body.

Clean the area with an alcohol swab.

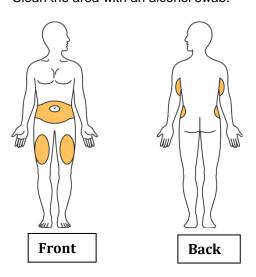


Figure D

Step 2: Mix the medicine

A. Look in the window.

You may see white medicine along the sides, bottom or top. This means the medicine is not mixed evenly.

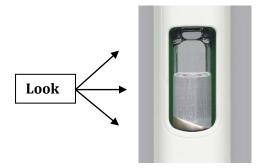


Figure E

B. Shake the autoinjector hard,

in an up-and-down motion, until the medicine is mixed evenly and you do not see any white medicine along the sides, bottom or top. Shake for at least 15 seconds. The autoinjector may need to be shaken longer than 15 seconds if the autoinjector has not been correctly stored flat.

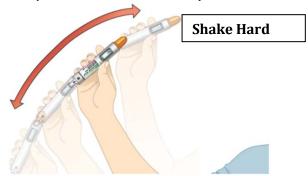


Figure F

C. Check the mix.

Hold the autoinjector up to the light and look through both sides and the bottom of the window. If not mixed well, repeat Step 2 and check again.

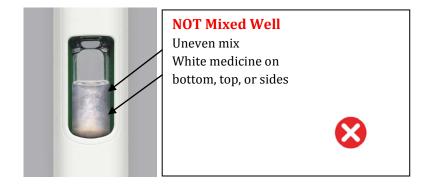


Figure G

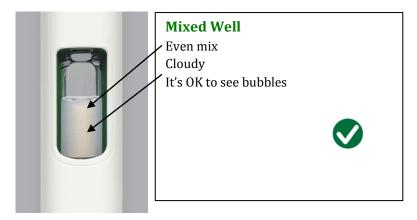


Figure H



Do not go to the next step unless your medicine is mixed well. To get a full dose, the medicine must be mixed well and look cloudy.

If not mixed well, continue to shake hard.

Step 3: Prepare the Autoinjector

Important: After the medicine is fully mixed, you must complete the preparation steps **right away**, and inject to get the full dose. Do not save it to use later.

Only unlock the autoinjector when you are ready to inject

A. Unlock the autoinjector.

Hold the autoinjector up straight with the orange cap toward the ceiling. Turn the knob from the Lock to the Unlock position until you hear a click.



Figure I

Unlock



Figure J

B. While still holding the autoinjector straight up, firmly unscrew the orange cap.

- You may need to turn the cap a few times before it loosens (if you hear clicking you are turning in the wrong direction).
- Continue holding the autoinjector upright to prevent the medicine from accidently leaking.
- A green shield will pop up after the cap is removed. The green shield hides the needle. It is normal to see a few drops of liquid inside the cap. **Do not** recap the autoinjector. Throw away the cap.

Hold upright and firmly unscrew in a counterclockwise direction.



Figure K

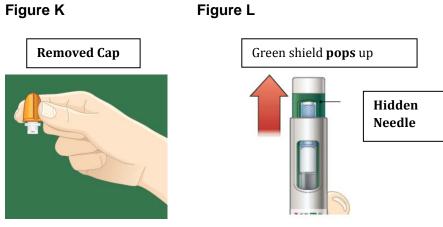


Figure M

Figure N

Step 4: Inject the Dose

A. Inject and hold:

- Push the autoinjector against your skin. You will hear a "click" when the injection begins.
- Keep holding the autoinjector against the skin for 15 seconds. This is to make sure you get the full dose.

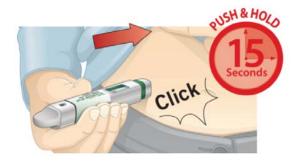


Figure O

B. Make sure you received your full dose.

After you receive your injection, you will see an orange rod in the window. After you lift the autoinjector from your skin, the green shield will move back up to lock over the needle. See the Common Questions and Answers for what to do if you do not see the orange rod in the window after injection.

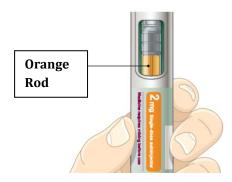


Figure P

Step 4: Inject the Dose (continued)

C. Disposal.

Put your used autoinjector in a FDA-cleared sharps disposal container right away after use. Do not throw away (dispose of) loose needles and syringes into your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:

- Made of heavy-duty plastic
- Can be closed with a tight-fitting, puncture-resistant lid that will not let sharps come out.
- Upright and stable during use
- · Leak-resistant, and
- Properly labeled to warn of hazardous waste inside the container



Figure Q

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to FDA's website at: http://www.fda.gov/safesharpsdisposal.

Do not dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. Do not recycle your used sharps disposal container. See "Common Questions and Answers" for additional disposal information.

Please keep these instructions to use for your next dose.

Common Questions and Answers

1. Where is the needle?

The needle is attached to the autoinjector and covered by the orange cap. When you unscrew the orange cap, the green shield keeps the needle covered until you inject. For more information, please see Figure N in Step 3B in the Instructions for Use.

2. How do I know if the medicine is fully mixed?

After shaking the autoinjector, look through both sides of the window. You should not see any white medicine along the bottom, top, or sides. If you see white medicine, it is unmixed. To mix, shake the autoinjector hard until the white medicine is no longer on the bottom, top, or sides. The medicine should look even throughout.

3. Why do I need to hold the autoinjector upright while removing the orange cap?

Holding the autoinjector with the orange cap straight up helps prevent the medicine from leaking. It is normal to see a few drops of medicine inside the orange cap after you unscrew it.

4. Why should I inject my medicine right away after mixing it?

If you do not inject your medicine right away after mixing, the medicine may separate, and you will not get your full dose. You can re-mix your medicine if your autoinjector is in the locked position. However, after you unlock it, you must complete the preparation steps right away and inject to get the full dose. You cannot save it for later use.

5. How do I know I gave myself the full dose of medicine?

To be sure you get your full dose, press and hold the autoinjector against your skin.

You will feel the needle go into your skin. Hold the needle against your skin for 15 seconds. This will allow enough time for all the medicine to go from the autoinjector to under your skin. After removing the needle,

look for the orange rod in the window as a way to tell that the dose has been given. If the orange rod does not appear contact Customer Service at 1-877-700-7365.

6. Why should I store my autoinjectors flat in the refrigerator?

Autoinjectors stored vertically (with the needle up or down) are more difficult to mix. The medicine can still be fully mixed, but it will take more shaking and more time.

7. What if I do not have an FDA-cleared sharps disposal container?

Do not throw away (dispose of) the autoinjector in your household trash. If you do not have an FDA-cleared sharps disposal container, you may use a household container that is:

- Made of heavy-duty plastic
- Can be closed with a tight-fitting, puncture-resistant lid, that won't let sharps come out
- Upright and stable during use
- Leak-resistant
- Properly labeled to warn of hazardous waste inside the container

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and autoinjectors.

For more information about safe sharps disposal, and for specific information about sharps disposal in the state you live in, go to the FDA's website at: http://www.fda.gov/safesharpsdisposal.

8. What if I cannot unlock the autoinjector?

Review the Instructions for Use Step 3 to make sure you are following the right instructions, then contact Customer Service, 1-877-700-7365 for help as needed. Do not try to unlock with excessive force or tools.

9. What if I cannot remove the orange cap from the autoinjector?

Review the Instructions for Use Step 3 to make sure you are following the right instructions. You should also check that the knob is fully in the unlocked position, then contact Customer Service, 1-877-700-7365 for help as needed. Do not use tools or try to force the cap off.

10. For other questions about BYDUREON BCISE:

Visit www.BydureonBCise.com.

Call Customer Service at 1-877-700-7365.

How to Store BYDUREON BCISE Autoinjector

- Store the autoinjector flat in the refrigerator between 36°F to 46°F (2°C to 8°C).
- Each autoinjector can be kept at room temperature not to exceed 86°F (30°C) for no more than a total of 4 weeks, if needed.
- Store in the packaging provided to protect from light until you are ready to prepare and use your dose.
- Do not use the autoinjector past the expiration date. The expiration date is labeled EXP.
- Keep the autoinjector clean and away from spills.

This Instructions for Use has been approved by the U.S. Food and Drug Administration. Issued: 10/2017