

**HIGHLIGHTS OF PRESCRIBING INFORMATION**

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

ZEPBOUND® (tirzepatide) Injection, for subcutaneous use  
Initial U.S. Approval: 2022

**WARNING: RISK OF THYROID C-CELL TUMORS**

See full prescribing information for complete boxed warning.

- In rats, tirzepatide causes thyroid C-cell tumors. It is unknown whether ZEPBOUND causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans as the human relevance of tirzepatide-induced rodent thyroid C-cell tumors has not been determined (5.1, 13.1).
- ZEPBOUND 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 symptoms of thyroid tumors (4, 5.1).

**RECENT MAJOR CHANGES**

Indications and Usage (1)	12/2024
Dosage and Administration (2.2)	12/2024
Warnings and Precautions	
Pulmonary Aspiration During General Anesthesia or Deep Sedation (5.10)	10/2024

**INDICATIONS AND USAGE**

ZEPBOUND® is a glucose-dependent insulinotropic polypeptide (GIP) receptor and glucagon-like peptide-1 (GLP-1) receptor agonist indicated in combination with a reduced-calorie diet and increased physical activity:

- to reduce excess body weight and maintain weight reduction long term in adults with obesity or adults with overweight in the presence of at least one weight-related comorbid condition. (1)
- to treat moderate to severe obstructive sleep apnea (OSA) in adults with obesity. (1)

Limitations of Use:

Coadministration with other tirzepatide-containing products or with any GLP-1 receptor agonist is not recommended. (1)

**DOSAGE AND ADMINISTRATION**Recommended Dose Escalation Schedule

- The recommended starting dosage is 2.5 mg injected subcutaneously once weekly for 4 weeks. Increase the dosage in 2.5 mg increments after at least 4 weeks until recommended maintenance dosage is achieved. (2.1)
- Consider treatment response and tolerability when selecting the maintenance dosage. (2.1)

Recommended Maintenance and Maximum Dosage

- *Weight Reduction and Long-Term Maintenance:* 5 mg, 10 mg, or 15 mg injected subcutaneously once weekly. (2.2)
- *Obstructive Sleep Apnea:* 10 mg or 15 mg injected subcutaneously once weekly. (2.2)

*Maximum Recommended Dosage:* 15 mg injected subcutaneously once weekly. (2.2)

Administration Instructions

See full prescribing information for administration instructions. (2.4)

**DOSAGE FORMS AND STRENGTHS**

Injection: 2.5 mg, 5 mg, 7.5 mg, 10 mg, 12.5 mg, or 15 mg per 0.5 mL in single-dose pen or single-dose vial (3)

**CONTRAINDICATIONS**

- Personal or family history of medullary thyroid carcinoma or in patients with Multiple Endocrine Neoplasia syndrome type 2 (4)

- Known serious hypersensitivity to tirzepatide or any of the excipients in ZEPBOUND (4)

**WARNINGS AND PRECAUTIONS**

- *Severe Gastrointestinal Adverse Reactions:* Use has been associated with gastrointestinal adverse reactions, sometimes severe. Has not been studied in patients with severe gastrointestinal disease and is not recommended in these patients. (5.2)
- *Acute Kidney Injury:* Monitor renal function in patients reporting adverse reactions that could lead to volume depletion. (5.3)
- *Acute Gallbladder Disease:* Has been reported in clinical trials. If cholecystitis is suspected, gallbladder studies and clinical follow-up are indicated. (5.4)
- *Acute Pancreatitis:* Has been reported in clinical trials. Discontinue promptly if pancreatitis is suspected. (5.5)
- *Hypersensitivity Reactions:* Serious hypersensitivity reactions (e.g., anaphylaxis, angioedema) have been reported postmarketing with tirzepatide. If suspected, advise patients to promptly seek medical attention and discontinue ZEPBOUND. (5.6)
- *Hypoglycemia:* Concomitant use with insulin or an insulin secretagogue may increase the risk of hypoglycemia, including severe hypoglycemia. Reducing dose of insulin or insulin secretagogue may be necessary. Inform all patients of the risk of hypoglycemia and educate them on the signs and symptoms of hypoglycemia. (5.7)
- *Diabetic Retinopathy Complications in Patients with Type 2 Diabetes Mellitus:* Has not been studied in patients with non-proliferative diabetic retinopathy requiring acute therapy, proliferative diabetic retinopathy, or diabetic macular edema. Monitor patients with a history of diabetic retinopathy for progression. (5.8)
- *Suicidal Behavior and Ideation:* Monitor for depression or suicidal thoughts. Discontinue ZEPBOUND if symptoms develop. (5.9)
- *Pulmonary Aspiration During General Anesthesia or Deep Sedation:* Has been reported in patients receiving GLP-1 receptor agonists undergoing elective surgeries or procedures. Instruct patients to inform healthcare providers of any planned surgeries or procedures. (5.10)

**ADVERSE REACTIONS**

The most common adverse reactions, reported in ≥5% of patients treated with ZEPBOUND are: nausea, diarrhea, vomiting, constipation, abdominal pain, dyspepsia, injection site reactions, fatigue, hypersensitivity reactions, eructation, hair loss, gastroesophageal reflux disease. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Eli Lilly and Company at 1-800-LillyRx (1-800-545-5979) or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

**DRUG INTERACTIONS**

ZEPBOUND delays gastric emptying and has the potential to impact the absorption of concomitantly administered oral medications. (7.2)

**USE IN SPECIFIC POPULATIONS**

- *Pregnancy:* May cause fetal harm. When pregnancy is recognized, discontinue ZEPBOUND. (8.1)
- *Females of Reproductive Potential:* Advise females using oral contraceptives to switch to a non-oral contraceptive method or add a barrier method of contraception for 4 weeks after initiation and for 4 weeks after each dose escalation. (8.3)

**See 17 for PATIENT COUNSELING INFORMATION and FDA-approved Medication Guide.**

**Revised: 12/2024**

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## FULL PRESCRIBING INFORMATION

### WARNING: RISK OF THYROID C-CELL TUMORS

- In rats, tirzepatide causes dose-dependent and treatment-duration-dependent thyroid C-cell tumors at clinically relevant exposures. It is unknown whether ZEPBOUND causes thyroid C-cell tumors, including medullary thyroid carcinoma (MTC), in humans as human relevance of tirzepatide-induced rodent thyroid C-cell tumors has not been determined [see *Warnings and Precautions (5.1) and Nonclinical Toxicology (13.1)*].
- ZEPBOUND is contraindicated in patients with a personal or family history of MTC or in patients with Multiple Endocrine Neoplasia syndrome type 2 (MEN 2) [see *Contraindications (4)*]. Counsel patients regarding the potential risk for MTC with the use of ZEPBOUND 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 ZEPBOUND [see *Contraindications (4) and Warnings and Precautions (5.1)*].

## 1 INDICATIONS AND USAGE

ZEPBOUND® is indicated in combination with a reduced-calorie diet and increased physical activity:

- to reduce excess body weight and maintain weight reduction long term in adults with obesity or adults with overweight in the presence of at least one weight-related comorbid condition.
- to treat moderate to severe obstructive sleep apnea (OSA) in adults with obesity.

### Limitations of Use

ZEPBOUND contains tirzepatide. Coadministration with other tirzepatide-containing products or with any glucagon-like peptide-1 (GLP-1) receptor agonist is not recommended.

## 2 DOSAGE AND ADMINISTRATION

### 2.1 Recommended Dose Escalation Schedule

- The recommended starting dosage of ZEPBOUND for all indications is 2.5 mg injected subcutaneously once weekly for 4 weeks.
- The 2.5 mg dosage is for treatment initiation and is not approved as a maintenance dosage.
- Follow the dosage escalation below for all indications to reduce the risk of gastrointestinal adverse reactions [see *Warnings and Precautions (5.2) and Adverse Reactions (6.1)*].
- After 4 weeks, increase the dosage to 5 mg injected subcutaneously once weekly. The dosage may be increased in 2.5 mg increments, after at least 4 weeks on the current dose [see *Dosage and Administration (2.2)*].
- Consider treatment response and tolerability when selecting the maintenance dosage. If patients do not tolerate a maintenance dosage, consider a lower maintenance dosage.

### 2.2 Recommended Maintenance and Maximum Dosage

#### Recommended Maintenance Dosage

#### *Weight Reduction and Long-Term Maintenance*

The recommended maintenance dosage is 5 mg, 10 mg, or 15 mg, injected subcutaneously once weekly.

#### OSA

The recommended maintenance dosage is 10 mg or 15 mg injected subcutaneously once weekly.

#### Maximum Recommended Dosage

The maximum dosage of ZEPBOUND for all indications is 15 mg injected subcutaneously once weekly.

### 2.3 Recommendations Regarding Missed Dose

- If a dose is missed, instruct patients to administer ZEPBOUND as soon as possible within 4 days (96 hours) after the missed dose. If more than 4 days have passed, skip the missed dose and administer the next dose on the regularly scheduled day. In each case, patients can then resume their regular once weekly dosing schedule.

- The day of weekly administration can be changed, if necessary, as long as the time between the two doses is at least 3 days (72 hours).

## 2.4 Important Administration Instructions

- Prior to initiation of ZEPBOUND, train patients and caregivers on proper injection technique. Refer to the accompanying Instructions for Use for complete administration instructions with illustrations.
- Instruct patients using the single-dose vial to use a syringe appropriate for dose administration (e.g., a 1 mL syringe capable of measuring a 0.5 mL dose).
- Inspect ZEPBOUND visually before use. It should appear clear and colorless to slightly yellow. Do not use ZEPBOUND if particulate matter or discoloration is seen.
- Administer ZEPBOUND in combination with a reduced-calorie diet and increased physical activity.
- Administer ZEPBOUND once weekly at any time of day, with or without meals.
- Inject ZEPBOUND subcutaneously in the abdomen, thigh, or upper arm.
- Rotate injection sites with each dose.

## 3 DOSAGE FORMS AND STRENGTHS

Injection: Clear, colorless to slightly yellow solution in pre-filled single-dose pens or single-dose vials, each available in the following strengths:

- 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

## 4 CONTRAINDICATIONS

ZEPBOUND is contraindicated in patients with:

- A personal or family history of MTC or in patients with MEN 2 [see *Warnings and Precautions (5.1)*].
- Known serious hypersensitivity to tirzepatide or any of the excipients in ZEPBOUND. Serious hypersensitivity reactions, including anaphylaxis and angioedema, have been reported with tirzepatide [see *Warnings and Precautions (5.6) and Adverse Reactions (6.2)*].

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Risk of Thyroid C-Cell Tumors

In rats, tirzepatide caused a dose-dependent and treatment-duration-dependent increase in the incidence of thyroid C-cell tumors (adenomas and carcinomas) in a 2-year study at clinically relevant plasma exposures [see *Nonclinical Toxicology (13.1)*]. It is unknown whether ZEPBOUND causes thyroid C-cell tumors, including MTC, in humans as human relevance of tirzepatide-induced rodent thyroid C-cell tumors has not been determined.

ZEPBOUND is contraindicated in patients with a personal or family history of MTC or in patients with MEN 2. Counsel patients regarding the potential risk for MTC with the use of ZEPBOUND 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 ZEPBOUND. Such monitoring may increase the risk of unnecessary procedures, due to the low test specificity for serum calcitonin and a high background incidence of thyroid disease. Significantly elevated serum calcitonin values may indicate MTC and patients with MTC usually have calcitonin 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 Severe Gastrointestinal Adverse Reactions

Use of ZEPBOUND has been associated with gastrointestinal adverse reactions, sometimes severe [see *Adverse Reactions (6.1)*]. In a pool of two ZEPBOUND clinical trials for weight reduction (Studies 1 and 2), severe gastrointestinal

adverse reactions were reported more frequently among patients receiving ZEPBOUND (5 mg 1.7%, 10 mg 2.5%, 15 mg 3.1%) than placebo (1%). Similar rates of severe gastrointestinal adverse reactions were observed in ZEPBOUND clinical trials for weight reduction and in ZEPBOUND clinical trials for OSA.

ZEPBOUND has not been studied in patients with severe gastrointestinal disease, including severe gastroparesis, and is therefore not recommended in these patients.

### 5.3 Acute Kidney Injury

Use of ZEPBOUND has been associated with acute kidney injury, which can result from dehydration due to gastrointestinal adverse reactions to ZEPBOUND, including nausea, vomiting, and diarrhea [see *Adverse Reactions (6.1)*].

In patients treated with GLP-1 receptor agonists, there have been postmarketing reports of acute kidney injury and worsening of chronic renal failure, which may sometimes require hemodialysis. Some of these events have been reported in patients without known underlying renal disease. A majority of the reported events occurred in patients who had experienced nausea, vomiting, diarrhea, or dehydration. Monitor renal function in patients reporting adverse reactions to ZEPBOUND that could lead to volume depletion.

### 5.4 Acute Gallbladder Disease

Treatment with ZEPBOUND and GLP-1 receptor agonists is associated with an increased occurrence of acute gallbladder disease.

In a pool of two ZEPBOUND clinical trials for weight reduction (Studies 1 and 2), cholelithiasis was reported in 1.1% of ZEPBOUND-treated patients and 1% of placebo-treated patients, cholecystitis was reported in 0.7% of ZEPBOUND-treated patients and 0.2% of placebo-treated patients, and cholecystectomy was reported in 0.2% of ZEPBOUND-treated patients and no placebo-treated patients. Acute gallbladder events were associated with weight reduction. Similar rates of cholelithiasis were reported in ZEPBOUND clinical trials for weight reduction and in ZEPBOUND trials for OSA. If cholecystitis is suspected, gallbladder diagnostic studies and appropriate clinical follow-up are indicated.

### 5.5 Acute Pancreatitis

Acute pancreatitis, including fatal and non-fatal hemorrhagic or necrotizing pancreatitis, has been observed in patients treated with GLP-1 receptor agonists or tirzepatide.

In clinical trials of tirzepatide for a different indication, 14 events of acute pancreatitis were confirmed by adjudication in 13 tirzepatide-treated patients (0.23 patients per 100 years of exposure) versus 3 events in 3 comparator-treated patients (0.11 patients per 100 years of exposure). In a pool of two ZEPBOUND clinical trials for weight reduction (Studies 1 and 2), 0.2% of ZEPBOUND-treated patients had acute pancreatitis confirmed by adjudication (0.14 patients per 100 years of exposure) versus 0.2% of placebo-treated patients (0.15 patients per 100 years of exposure). The exposure-adjusted incidence rate for treatment-emergent adjudication-confirmed pancreatitis in the pooled clinical studies for OSA (Studies 5 and 6) was 0.84 patients per 100 years for ZEPBOUND and 0 for placebo-treated patients.

After initiation of ZEPBOUND, 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, discontinue ZEPBOUND and initiate appropriate management. Continuation of ZEPBOUND after a confirmed diagnosis of pancreatitis should be individually determined in the clinical judgment of a patient's health care provider.

### 5.6 Hypersensitivity Reactions

There have been postmarketing reports of serious hypersensitivity reactions (e.g., anaphylaxis, angioedema) in patients treated with tirzepatide. In a pool of two ZEPBOUND clinical studies for weight reduction (Studies 1 and 2), 0.1% of ZEPBOUND-treated patients had severe hypersensitivity reactions compared to no placebo-treated patients. Similar rates of severe hypersensitivity reactions were observed in ZEPBOUND clinical trials for weight reduction and in ZEPBOUND trials for OSA. If hypersensitivity reactions occur, advise patients to promptly seek medical attention and discontinue use of ZEPBOUND. Do not use in patients with a previous serious hypersensitivity reaction to tirzepatide or any of the excipients in ZEPBOUND [see *Contraindications (4)* and *Adverse Reactions (6.2)*].

Serious hypersensitivity reactions, including anaphylaxis and angioedema, have been reported with GLP-1 receptor agonists. Use caution in patients with a history of angioedema or anaphylaxis with a GLP-1 receptor agonist because it is unknown whether such patients will be predisposed to these reactions with ZEPBOUND.

## 5.7 Hypoglycemia

ZEPBOUND lowers blood glucose and can cause hypoglycemia.

In a trial of patients with type 2 diabetes mellitus and BMI  $\geq 27$  kg/m<sup>2</sup> (Study 2), hypoglycemia (plasma glucose  $< 54$  mg/dL) was reported in 4.2% of ZEPBOUND-treated patients versus 1.3% of placebo-treated patients. In this trial, patients taking ZEPBOUND in combination with an insulin secretagogue (e.g., sulfonylurea) had increased risk of hypoglycemia (10.3%) compared to ZEPBOUND-treated patients not taking a sulfonylurea (2.1%). There is also increased risk of hypoglycemia in patients treated with tirzepatide in combination with insulin [see *Drug Interactions (7.1)*].

Hypoglycemia has also been associated with ZEPBOUND and GLP-1 receptor agonists in adults without type 2 diabetes mellitus [see *Adverse Reactions (6.1)*].

Inform patients of the risk of hypoglycemia and educate them on the signs and symptoms of hypoglycemia. In patients with diabetes mellitus, monitor blood glucose prior to starting ZEPBOUND and during ZEPBOUND treatment. The risk of hypoglycemia may be lowered by a reduction in the dose of insulin or sulfonylurea (or other concomitantly administered insulin secretagogue).

## 5.8 Diabetic Retinopathy Complications in Patients with Type 2 Diabetes Mellitus

Rapid improvement in glucose control has been associated with a temporary worsening of diabetic retinopathy.

Tirzepatide has not been studied in patients with non-proliferative diabetic retinopathy requiring acute therapy, proliferative diabetic retinopathy, or diabetic macular edema. Patients with a history of diabetic retinopathy should be monitored for progression of diabetic retinopathy.

## 5.9 Suicidal Behavior and Ideation

Suicidal behavior and ideation have been reported in clinical trials with other weight management products. Monitor patients treated with ZEPBOUND for the emergence or worsening of depression, suicidal thoughts or behaviors, and/or any unusual changes in mood or behavior. Discontinue ZEPBOUND in patients who experience suicidal thoughts or behaviors. Avoid ZEPBOUND in patients with a history of suicidal attempts or active suicidal ideation.

## 5.10 Pulmonary Aspiration During General Anesthesia or Deep Sedation

ZEPBOUND delays gastric emptying [see *Clinical Pharmacology (12.2)*]. There have been rare postmarketing reports of pulmonary aspiration in patients receiving GLP-1 receptor agonists undergoing elective surgeries or procedures requiring general anesthesia or deep sedation who had residual gastric contents despite reported adherence to preoperative fasting recommendations.

Available data are insufficient to inform recommendations to mitigate the risk of pulmonary aspiration during general anesthesia or deep sedation in patients taking ZEPBOUND, including whether modifying preoperative fasting recommendations or temporarily discontinuing ZEPBOUND could reduce the incidence of retained gastric contents. Instruct patients to inform healthcare providers prior to any planned surgeries or procedures if they are taking ZEPBOUND.

## 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)*]
- Severe Gastrointestinal Adverse Reactions [see *Warnings and Precautions (5.2)*]
- Acute Kidney Injury [see *Warnings and Precautions (5.3)*]
- Acute Gallbladder Disease [see *Warnings and Precautions (5.4)*]
- Acute Pancreatitis [see *Warnings and Precautions (5.5)*]
- Hypersensitivity Reactions [see *Warnings and Precautions (5.6)*]
- Hypoglycemia [see *Warnings and Precautions (5.7)*]
- Diabetic Retinopathy Complications in Patients with Type 2 Diabetes Mellitus [see *Warnings and Precautions (5.8)*]
- Suicidal Behavior and Ideation [see *Warnings and Precautions (5.9)*]
- Pulmonary Aspiration During General Anesthesia or Deep Sedation [see *Warnings and Precautions (5.10)*]

## 6.1 Clinical Trials 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.

### Adverse Reactions in Patients for Weight Reduction and Long-Term Maintenance

#### *Pool of Placebo-Controlled Weight Reduction Trials in Adults with Obesity or Overweight, with or without Type 2 Diabetes (Study 1 and Study 2)*

ZEPBOUND was evaluated for safety in a pool of two randomized, double-blind, placebo-controlled trials that included 2,519 adult patients with obesity or overweight treated with ZEPBOUND for up to 72 weeks and a 4-week off drug follow-up period (Study 1 and Study 2) [see *Clinical Studies (14.1)*]. The mean age of patients was 47 years and 37% were male. The population was 72% White, 12% Asian, 8% Black or African American, and 7% American Indian or Alaska Native; 51% identified as Hispanic or Latino ethnicity. Baseline characteristics included an average BMI of 37.4 kg/m<sup>2</sup>, 29% with a BMI  $\geq$ 40 kg/m<sup>2</sup>, 41% with hypertension, 37% with dyslipidemia, 25% with type 2 diabetes mellitus, 7% with obstructive sleep apnea, and 4% with cardiovascular disease.

Across both trials, 4.8%, 6.3%, and 6.7% of patients treated with 5 mg, 10 mg, and 15 mg of ZEPBOUND, respectively, permanently discontinued treatment as a result of adverse reactions compared to 3.4% of patients treated with placebo. The majority of patients who discontinued ZEPBOUND due to adverse reactions did so during the first few months of treatment due to gastrointestinal adverse reactions.

#### Common Adverse Reactions

Table 1 shows common adverse reactions associated with the use of ZEPBOUND in the pool of two placebo-controlled trials for weight reduction (Study 1 and Study 2). These adverse reactions occurred more commonly with ZEPBOUND than with placebo and occurred in at least 2% of patients treated with ZEPBOUND.

**Table 1: Adverse Reactions ( $\geq$ 2% and Greater than Placebo) in ZEPBOUND-Treated Adults with Obesity or Overweight in Weight Reduction and Long-term Maintenance Trials (Study 1 and Study 2)**

Adverse Reaction	Placebo (N=958) %	ZEPBOUND 5 mg (N=630) %	ZEPBOUND 10 mg (N=948) %	ZEPBOUND 15 mg (N=941) %
Nausea	8	25	29	28
Diarrhea <sup>a</sup>	8	19	21	23
Vomiting	2	8	11	13
Constipation <sup>b</sup>	5	17	14	11
Abdominal Pain <sup>c</sup>	5	9	9	10
Dyspepsia	4	9	9	10
Injection Site Reactions <sup>d</sup>	2	6	8	8
Fatigue <sup>e</sup>	3	5	6	7
Hypersensitivity Reactions	3	5	5	5
Eructation	1	4	5	5
Hair Loss	1	5	4	5
Gastroesophageal Reflux Disease	2	4	4	5
Flatulence	2	3	3	4
Abdominal Distension	2	3	3	4
Dizziness	2	4	5	4
Hypotension <sup>f</sup>	0	1	1	2

<sup>a</sup> Includes diarrhea, frequent bowel movements.

<sup>b</sup> Includes constipation, feces hard.

<sup>c</sup> Includes abdominal discomfort, abdominal pain, abdominal pain lower, abdominal pain upper, abdominal tenderness.

- <sup>d</sup> Includes multiple related adverse event terms, such as injection site bruising, injection site erythema, injection site pruritus, injection site pain, injection site rash, injection site reaction.
- <sup>e</sup> Includes asthenia, fatigue, lethargy, malaise.
- <sup>f</sup> Includes blood pressure decreased, hypotension, orthostatic hypotension.

In a clinical trial for weight reduction that included an intensive lifestyle intervention lead-in period (Study 3), 287 patients were treated with ZEPBOUND for up to 72 weeks. In a randomized withdrawal trial (Study 4), 783 patients were treated with ZEPBOUND for up to 36 weeks, and 335 of these patients were treated for up to 88 weeks [see *Clinical Studies (14.1)*]. In Study 3, 10% of ZEPBOUND-treated patients and 2% of placebo-treated patients discontinued drug due to adverse reactions. In Study 4, 7% of patients discontinued ZEPBOUND treatment before randomized withdrawal at Week 36 due to adverse reactions. In Study 3 and Study 4, adverse reactions were similar to those reported in the two pooled ZEPBOUND clinical trials (Study 1 and Study 2).

#### *Gastrointestinal Adverse Reactions*

In a pool of Study 1 and 2, gastrointestinal adverse reactions occurred more frequently among patients receiving ZEPBOUND (5 mg 56%, 10 mg 56%, 15 mg 56%) than placebo (30%). More patients receiving ZEPBOUND 5 mg (1.9%), ZEPBOUND 10 mg (3.3%), and ZEPBOUND 15 mg (4.3%) discontinued treatment due to gastrointestinal adverse reactions than patients receiving placebo (0.5%). The majority of nausea, vomiting, and/or diarrhea events occurred during dose escalation and decreased over time.

#### *Hypotension*

In a pool of Study 1 and 2, hypotension occurred more frequently among patients taking ZEPBOUND (1.6%) than patients taking placebo (0.1%). Hypotension was more frequently seen in ZEPBOUND-treated patients on concomitant antihypertensive therapy (2.2%) compared to ZEPBOUND-treated patients not on antihypertensive therapy (1.2%). Hypotension also occurred in association with gastrointestinal adverse events and dehydration.

#### *Hypersensitivity Reactions*

In a pool of Study 1 and 2, immediate hypersensitivity reactions (within one day after drug administration) occurred in 2.1% of ZEPBOUND-treated patients compared to 0.4% of placebo-treated patients, while non-immediate hypersensitivity reactions occurred in 3.5% of ZEPBOUND-treated patients compared to 2.7% of placebo-treated patients. Among ZEPBOUND-treated patients, hypersensitivity reactions were more frequent in those with anti-tirzepatide antibodies (6.2%) compared to those who did not develop anti-tirzepatide antibodies (3%) [see *Clinical Pharmacology (12.6)*]. The majority of the hypersensitivity reactions in trials were skin reactions (e.g., rash, itching).

#### *Injection Site Reactions*

In ZEPBOUND-treated patients in a pool of Study 1 and 2, injection site reactions were more frequent in those with anti-tirzepatide antibodies (11.3%) compared to those who did not develop anti-tirzepatide antibodies (1%) [see *Clinical Pharmacology (12.6)*].

#### *Hair Loss*

Hair loss adverse reactions in ZEPBOUND-treated patients were associated with weight reduction. In a pool of Study 1 and 2, hair loss was reported more frequently in female than male patients in the ZEPBOUND (7.1% female versus 0.5% male) and placebo (1.3% female versus 0% male) treatment groups. No ZEPBOUND-treated patients and one placebo-treated patient discontinued study treatment due to hair loss.

#### *Other Adverse Reactions*

##### *Acute Kidney Injury*

In a pool of Study 1 and 2, acute kidney injury was reported in 0.5% of ZEPBOUND-treated patients compared to 0.2% of placebo-treated patients.

##### *Acute Gallbladder Disease*

In a pool of Study 1 and 2, cholelithiasis was reported in 1.1% of ZEPBOUND-treated patients and 1% of placebo-treated patients, cholecystitis was reported in 0.7% of ZEPBOUND-treated patients and 0.2% of placebo-treated patients, and cholecystectomy was reported in 0.2% of ZEPBOUND-treated patients and no placebo-treated patients.

##### *Hypoglycemia*

In Study 2, a trial of patients with type 2 diabetes mellitus and BMI  $\geq 27$  kg/m<sup>2</sup>, hypoglycemia (plasma glucose  $< 54$  mg/dL) was reported in 4.2% of ZEPBOUND-treated patients versus 1.3% of placebo-treated patients.

In Study 1, a trial of ZEPBOUND in adults with obesity/overweight without type 2 diabetes mellitus, there was no systematic capturing of hypoglycemia, but plasma glucose  $< 54$  mg/dL was reported in 0.3% of ZEPBOUND-treated patients versus no placebo-treated patients.



### *Heart Rate Increase*

In a pool of Study 1 and 2, treatment with ZEPBOUND resulted in a mean increase in heart rate of 1 to 3 beats per minute compared to no increase in placebo-treated patients.

### *Dysesthesia*

In a pool of Study 1 and 2, dysesthesia occurred more frequently among patients receiving ZEPBOUND (5 mg 0.2%, 10 mg 0.2%, 15 mg 0.4%) than placebo (0.1%).

### *Dysgeusia*

In a pool of Study 1 and 2, dysgeusia was reported by 0.4% of ZEPBOUND-treated patients and no placebo-treated patients.

### *Dry Mouth*

In a pool of Study 1 and 2, dry mouth or dry throat was reported by 1% of ZEPBOUND-treated patients and 0.1% of placebo-treated patients.

### Laboratory Abnormalities

#### *Amylase and Lipase Increase*

In a pool of Study 1 and 2, treatment with ZEPBOUND resulted in mean increases from baseline in serum pancreatic amylase concentrations of 20% to 25% and serum lipase concentrations of 28% to 35%, compared to mean increases from baseline in pancreatic amylase of 2.1% and serum lipase of 5.8% in placebo-treated patients. The clinical significance of elevations in amylase or lipase with ZEPBOUND is unknown in the absence of other signs and symptoms of pancreatitis.

#### Adverse Reactions in Patients with Obstructive Sleep Apnea

ZEPBOUND was evaluated in 2 randomized, double-blind, placebo-controlled trials (Study 5 and Study 6) that included a total of 467 adult patients with moderate to severe OSA and obesity [see *Clinical Studies (14.2)*]. Study 5 enrolled 234 patients who were unable or unwilling to use Positive Airway Pressure (PAP) therapy and Study 6 enrolled 235 patients who were on PAP therapy. The adverse reactions observed with ZEPBOUND 10 mg or 15 mg administered subcutaneously once weekly were similar to those reported in the two pooled placebo controlled clinical trials for weight reduction (Study 1 and Study 2).

## **6.2 Postmarketing Experience**

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

*Hypersensitivity:* anaphylaxis, angioedema

*Gastrointestinal:* ileus

*Pulmonary:* Pulmonary aspiration has occurred in patients receiving GLP-1 receptor agonists undergoing elective surgeries or procedures requiring general anesthesia or deep sedation.

## **7 DRUG INTERACTIONS**

### **7.1 Concomitant Use with Insulin or an Insulin Secretagogue (e.g., Sulfonylurea)**

ZEPBOUND lowers blood glucose. When initiating ZEPBOUND, consider reducing the dose of concomitantly administered insulin or insulin secretagogues (e.g., sulfonylureas) to reduce the risk of hypoglycemia [see *Warnings and Precautions (5.7)*].

### **7.2 Oral Medications**

ZEPBOUND delays gastric emptying and thereby has the potential to impact the absorption of concomitantly administered oral medications. Caution should be exercised when oral medications are concomitantly administered with ZEPBOUND.

Monitor patients on oral medications dependent on threshold concentrations for efficacy and those with a narrow therapeutic index (e.g., warfarin) when concomitantly administered with ZEPBOUND.

Advise patients using oral hormonal contraceptives to switch to a non-oral contraceptive method, or add a barrier method of contraception, for 4 weeks after initiation with ZEPBOUND and for 4 weeks after each dose escalation. Hormonal

contraceptives that are not administered orally should not be affected [see *Use in Specific Populations (8.3) and Clinical Pharmacology (12.2, 12.3)*].

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Pregnancy Exposure Registry

There will be a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to ZEPBOUND (tirzepatide) during pregnancy. Pregnant patients exposed to ZEPBOUND and healthcare providers are encouraged to contact Eli Lilly and Company at 1-800-LillyRx (1-800-545-5979).

#### Risk Summary

Weight loss offers no benefit to a pregnant patient and may cause fetal harm. Advise pregnant patients that weight loss is not recommended during pregnancy and to discontinue ZEPBOUND when a pregnancy is recognized (see *Clinical Considerations*). Available data with tirzepatide in pregnant patients are insufficient to evaluate for a drug-related risk of major birth defects, miscarriage, or other adverse maternal or fetal outcomes. Based on animal reproduction studies, there may be risks to the fetus from exposure to tirzepatide during pregnancy.

In pregnant rats administered tirzepatide during organogenesis, fetal growth reductions and fetal abnormalities occurred at clinical exposure in maternal rats based on AUC. In rabbits administered tirzepatide during organogenesis, fetal growth reductions were observed at clinically relevant exposures based on AUC. These adverse embryo/fetal effects in animals coincided with pharmacological effects on maternal weight and food consumption (see *Data*).

The estimated background risk of major birth defects and miscarriage for the indicated population is increased when compared to the general population. 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*

Appropriate weight gain based on pre-pregnancy weight is currently recommended for all pregnant patients, including those with obesity or overweight, due to the obligatory weight gain that occurs in maternal tissues during pregnancy.

#### Data

##### *Animal Data*

In pregnant rats given twice weekly subcutaneous doses of 0.02, 0.1, and 0.5 mg/kg tirzepatide [0.03-, 0.07-, and 0.5-fold the maximum recommended human dose (MRHD) of 15 mg once weekly based on AUC] during organogenesis, increased incidences of external, visceral, and skeletal malformations, increased incidences of visceral and skeletal developmental variations, and decreased fetal weights coincided with pharmacologically-mediated reductions in maternal body weights and food consumption at 0.5 mg/kg. In pregnant rabbits given once weekly subcutaneous doses of 0.01, 0.03, or 0.1 mg/kg tirzepatide (0.01-, 0.06-, and 0.2-fold the MRHD) during organogenesis, pharmacologically mediated effects on the gastrointestinal system resulting in maternal mortality or abortion in a few rabbits occurred at all dose levels. Reduced fetal weights associated with decreased maternal food consumption and body weights were observed at 0.1 mg/kg. In a pre- and post-natal study in rats administered subcutaneous doses of 0.02, 0.10, or 0.25 mg/kg tirzepatide twice weekly from implantation through lactation, F<sub>1</sub> pups from F<sub>0</sub> maternal rats given 0.25 mg/kg tirzepatide had statistically significant lower mean body weight when compared to controls from post-natal day 7 through post-natal day 126 for males and post-natal day 56 for females.

### 8.2 Lactation

#### Risk Summary

There are no data on the presence of tirzepatide or its metabolites in animal or human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for ZEPBOUND and any potential adverse effects on the breastfed infant from ZEPBOUND or from the underlying maternal condition.

### 8.3 Females and Males of Reproductive Potential

#### Contraception

Use of ZEPBOUND may reduce the efficacy of oral hormonal contraceptives due to delayed gastric emptying. This delay is largest after the first dose and diminishes over time. Advise patients using oral hormonal contraceptives to switch to a



## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Tirzepatide is a GIP receptor and GLP-1 receptor agonist. It contains a C20 fatty diacid that enables albumin binding and prolongs the half-life. Tirzepatide selectively binds to and activates both the GIP and GLP-1 receptors, the targets for native GIP and GLP-1.

GLP-1 is a physiological regulator of appetite and caloric intake. Nonclinical studies suggest the addition of GIP may further contribute to the regulation of food intake.

Both GIP receptors and GLP-1 receptors are found in areas of the brain involved in appetite regulation. Animal studies show that tirzepatide distributes to and activates neurons in brain regions involved in regulation of appetite and food intake.

### 12.2 Pharmacodynamics

Tirzepatide lowers body weight with greater fat mass loss than lean mass loss.

Tirzepatide decreases calorie intake. The effects are likely mediated by affecting appetite.

Tirzepatide stimulates insulin secretion in a glucose-dependent manner and reduces glucagon secretion. Tirzepatide increases insulin sensitivity, as demonstrated in a hyperinsulinemic euglycemic clamp study in patients with type 2 diabetes mellitus after 28 weeks of treatment. These effects can lead to a reduction of blood glucose.

Tirzepatide delays gastric emptying. The delay is largest after the first dose and this effect diminishes over time.

### 12.3 Pharmacokinetics

The pharmacokinetics of tirzepatide is similar between healthy subjects, patients with overweight or obesity, and patients with OSA and obesity. Steady-state plasma tirzepatide concentrations were achieved following 4 weeks of once weekly administration. Tirzepatide exposure increases in a dose-proportional manner.

#### Absorption

Following subcutaneous administration, the median time (range) to maximum plasma concentration of tirzepatide is 24 hours (8 to 72 hours). The mean absolute bioavailability of tirzepatide following subcutaneous administration is 80%. Similar exposure was achieved with subcutaneous administration of tirzepatide in the abdomen, thigh, or upper arm.

#### Distribution

The mean [coefficient of variation (CV)%] apparent steady-state volumes of distribution of tirzepatide following subcutaneous administration in patients with overweight or obesity and patients with OSA and obesity are approximately 9.7 L (29%) and 11.8 L (37%), respectively. Tirzepatide is highly bound to plasma albumin (99%).

#### Elimination

The apparent population mean clearance of tirzepatide in patients with overweight or obesity and patients with OSA and obesity is approximately 0.06 L/h (CV% ~ 20%). The elimination half-life is approximately 5-6 days in patients with overweight or obesity, and in patients with OSA and obesity.

#### *Metabolism*

Tirzepatide is metabolized by proteolytic cleavage of the peptide backbone, beta-oxidation of the C20 fatty diacid, and amide hydrolysis.

#### *Excretion*

The primary excretion routes of tirzepatide metabolites are via urine and feces. Intact tirzepatide is not observed in urine or feces.

#### Specific Populations

The intrinsic factors of age (18 to 84 years), sex, race (71% White, 11% Asian, 9% American Indian or Alaska Native, and 8% Black or African American), ethnicity, or body weight do not have a clinically relevant effect on the PK of tirzepatide.

#### *Patients with Renal Impairment*

Renal impairment does not impact the pharmacokinetics of tirzepatide. The pharmacokinetics of tirzepatide after a single 5 mg dose were evaluated in patients with different degrees of renal impairment (mild, moderate, severe, ESRD) compared with subjects with normal renal function. Data from clinical studies have also shown that renal impairment in patients with overweight or obesity does not impact the pharmacokinetics of tirzepatide [see *Use in Specific Populations (8.6)*].

### *Patients with Hepatic Impairment*

Hepatic impairment does not impact the pharmacokinetics of tirzepatide. The pharmacokinetics of tirzepatide after a single 5 mg dose were evaluated in patients with different degrees of hepatic impairment (mild, moderate, severe) compared with subjects with normal hepatic function [see *Use in Specific Populations (8.7)*].

### Drug Interaction Studies

#### *Potential for Tirzepatide to Influence the Pharmacokinetics of Other Drugs*

In vitro studies have shown low potential for tirzepatide to inhibit or induce CYP enzymes, and to inhibit drug transporters. ZEPBOUND delays gastric emptying and thereby has the potential to impact the absorption of concomitantly administered oral medications [see *Drug Interactions (7.2)*].

The impact of tirzepatide on gastric emptying was greatest after a single dose of 5 mg and diminished after subsequent doses.

Following a first dose of tirzepatide 5 mg, acetaminophen maximum concentration ( $C_{max}$ ) was reduced by 55%, and the median peak plasma concentration ( $t_{max}$ ) occurred 1 hour later. After coadministration at Week 6 with tirzepatide 15 mg, there was no meaningful impact on acetaminophen  $C_{max}$  and  $t_{max}$ . Overall acetaminophen exposure ( $AUC_{0-24hr}$ ) was not influenced.

Following administration of a combined oral contraceptive (0.035 mg ethinyl estradiol and 0.25 mg norgestimate) in the presence of a single dose of tirzepatide 5 mg, mean  $C_{max}$  of ethinyl estradiol, norgestimate, and norelgestromin was reduced by 59%, 66%, and 55%, while mean AUC was reduced by 20%, 21%, and 23%, respectively. A delay in  $t_{max}$  of 2.5 to 4.5 hours was observed.

## **12.6 Immunogenicity**

The observed incidence of anti-drug antibodies is highly dependent on the sensitivity and specificity of the assay. Differences in assay methods preclude meaningful comparisons of the incidence of anti-drug antibodies in the studies described below with the incidence of anti-drug antibodies in other studies.

The incidence of anti-drug antibodies (ADA) to ZEPBOUND was evaluated in adult patients with overweight or obesity or with OSA and obesity in clinical studies lasting 52 weeks or longer. Anti-tirzepatide antibodies were detected in 64.5% (1591/2467) of ZEPBOUND-treated patients in weight reduction clinical studies 1 and 2, and 60.6% (137/226) of ZEPBOUND-treated patients in OSA clinical studies [see *Clinical Studies (14)*].

Of the ZEPBOUND-treated patients in weight reduction clinical studies 40% and 16.5% of patients developed antibodies that were cross-reactive to native GIP or native GLP-1, respectively.

Of the ZEPBOUND-treated patients in OSA clinical studies, 37.2% and 19.5% of patients developed antibodies that were cross reactive to native GIP and native GLP-1, respectively.

Neutralizing antibodies against tirzepatide activity on the GIP or GLP-1 receptors and against native GIP or GLP-1 were detected in 2.8% and 2.7% and 0.8% and 0.1% respectively, of ZEPBOUND-treated patients in weight reduction clinical studies.

No ZEPBOUND-treated patients in OSA studies developed neutralizing antibodies against tirzepatide activity on the GIP or GLP-1 receptors or against native GIP or native GLP-1.

No clinically significant effect of anti-tirzepatide antibodies on pharmacokinetics or effectiveness of ZEPBOUND has been identified. More ZEPBOUND-treated patients who developed anti-tirzepatide antibodies experienced hypersensitivity reactions or injection site reactions than those who did not develop these antibodies [see *Adverse Reactions (6.1)*].

## **13 NONCLINICAL TOXICOLOGY**

### **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

A 2-year carcinogenicity study was conducted with tirzepatide in male and female rats at doses of 0.15, 0.50, and 1.5 mg/kg (0.1-, 0.4-, and 1-fold the MRHD of 15 mg once weekly based on AUC) administered by subcutaneous injection twice weekly. A statistically significant increase in thyroid C-cell adenomas was observed in male rats ( $\geq 0.5$  mg/kg) and female rats ( $\geq 0.15$  mg/kg), and a statistically significant increase in thyroid C-cell adenomas and carcinomas combined was observed in male and female rats at all doses examined. In a 6-month carcinogenicity study in rasH2 transgenic mice, tirzepatide at doses of 1, 3, and 10 mg/kg administered by subcutaneous injection twice weekly was not tumorigenic.

Tirzepatide was not genotoxic in a rat bone marrow micronucleus assay.

In fertility and early embryonic development studies, male and female rats were administered twice weekly subcutaneous doses of 0.5, 1.5, or 3 mg/kg (0.3-, 1-, and 2-fold and 0.3-, 0.9-, and 2-fold, respectively, the MRHD of 15 mg once weekly based on AUC). No effects of tirzepatide were observed on sperm morphology, mating, fertility, and conception. In female rats, an increase in the number of females with prolonged diestrus and a decrease in the mean number of corpora lutea resulting in a decrease in the mean number of implantation sites and viable embryos was observed at all dose levels. These effects were considered secondary to the pharmacological effects of tirzepatide on food consumption and body weight.

## 14 CLINICAL STUDIES

### 14.1 Weight Reduction and Long-Term Maintenance Studies in Adults with Obesity or Overweight

#### Weight Reduction in Adults with Obesity or Overweight, with or without Type 2 Diabetes Mellitus (Study 1 and Study 2)

##### *Overview of Study 1 and Study 2*

The efficacy of ZEPBOUND for weight reduction in conjunction with a reduced-calorie diet and increased physical activity was studied in two randomized, double-blind, placebo-controlled fixed-dosage trials (Study 1 and Study 2) in adults aged 18 years and older. In Studies 1 and 2, all patients received a standard lifestyle intervention which included instruction on a reduced-calorie diet (approximately 500 kcal/day deficit) and increased physical activity counseling (recommended minimum of 150 min/week) that began with the first dose of study medication or placebo and continued throughout the trial. Patients also received counseling on behavior modification strategies to adhere to diet and exercise recommendations. In both trials, weight reduction was assessed after 72 weeks of treatment (at least 52 weeks at maintenance dose).

Study 1 (NCT04184622) was a 72-week trial that enrolled 2,539 adult patients with obesity (BMI  $\geq 30$  kg/m<sup>2</sup>), or with overweight (BMI 27 to  $<30$  kg/m<sup>2</sup>) and at least one weight-related comorbid condition, such as dyslipidemia, hypertension, obstructive sleep apnea, or cardiovascular disease; patients with type 2 diabetes mellitus were excluded. Patients were randomized in a 1:1:1:1 ratio to once weekly fixed dosage of ZEPBOUND 5 mg, ZEPBOUND 10 mg, ZEPBOUND 15 mg, or placebo, with an escalation period of up to 20 weeks followed by the maintenance period. At baseline, mean age was 45 years (range 18-84 years), 68% were female, 71% were White, 11% were Asian, 9% were American Indian/Alaska Native, and 8% were Black or African American. A total of 48% were Hispanic or Latino ethnicity. Mean baseline body weight was 104.8 kg and mean BMI was 38 kg/m<sup>2</sup>. Baseline characteristics included 32% with hypertension, 30% with dyslipidemia, 8% with obstructive sleep apnea, and 3% with cardiovascular disease.

Study 2 (NCT04657003) was a 72-week trial that enrolled 938 adult patients with BMI  $\geq 27$  kg/m<sup>2</sup> and type 2 diabetes mellitus. Patients included in the trial had HbA1c 7-10% and were treated with either diet and exercise alone, or any oral anti-hyperglycemic agent except dipeptidyl peptidase-4 (DPP-4) inhibitors or GLP-1 receptor agonists. Patients who were taking insulin or injectable GLP-1 receptor agonists for type 2 diabetes mellitus were excluded. Patients were randomized in a 1:1:1 ratio to once weekly fixed dosage of ZEPBOUND 10 mg, ZEPBOUND 15 mg, or placebo with an escalation period of up to 20 weeks followed by the maintenance period. At baseline, mean age was 54 years (range 18-85 years), 51% were female, 76% were White, 13% were Asian, and 8% were Black or African American. A total of 60% were Hispanic or Latino ethnicity. Mean baseline body weight was 100.7 kg and mean BMI was 36.1 kg/m<sup>2</sup>. Baseline characteristics included 66% with hypertension, 61% with dyslipidemia, 8% with obstructive sleep apnea, and 10% with cardiovascular disease.

##### *Results for Study 1 and Study 2*

The proportions of patients who discontinued study drug in Study 1 were 14.3%, 16.4%, and 15.1% for the 5 mg, 10 mg, and 15 mg ZEPBOUND-treated groups, respectively, and 26.4% for the placebo-treated group. The proportions of patients who discontinued study drug in Study 2 were 9.3% and 13.8% for the 10 mg and 15 mg ZEPBOUND-treated groups, respectively, and 14.9% for the placebo-treated group.

For Studies 1 and 2, weight reduction was assessed after 72 weeks of treatment (at least 52 weeks at maintenance dose). In both studies, the primary efficacy parameters were mean percent change in body weight and the percentage of patients achieving  $\geq 5\%$  weight reduction from baseline to Week 72 (see Table 2).

After 72 weeks of treatment, ZEPBOUND resulted in a statistically significant reduction in body weight compared with placebo, and greater proportions of patients treated with ZEPBOUND 5 mg, 10 mg, and 15 mg achieved at least 5% weight reduction compared to placebo. Among patients treated with ZEPBOUND 10 mg and 15 mg, greater proportions of patients achieved at least 10%, 15%, and 20% weight reduction compared to placebo (see Table 2). A reduction in body weight was observed with ZEPBOUND irrespective of age, sex, race, ethnicity, baseline BMI, and glycemic status.

**Table 2: Changes in Body Weight at Week 72 in Studies 1 and 2 in Patients with Obesity or Overweight**

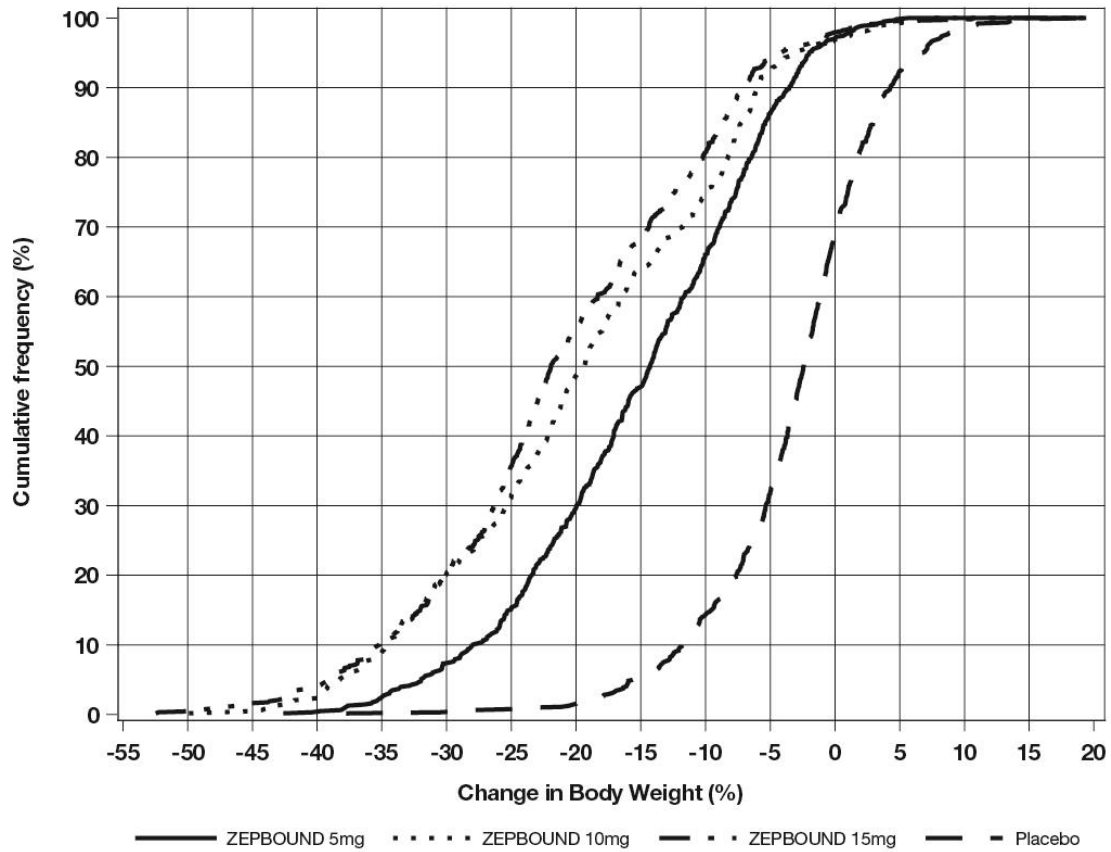
Intention-to-Treat (ITT) Population <sup>a</sup>	Study 1				Study 2		
	Placebo N = 643	ZEPBOUND 5 mg N = 630	ZEPBOUND 10 mg N = 636	ZEPBOUND 15 mg N = 630	Placebo N = 315	ZEPBOUND 10 mg N = 312	ZEPBOUND 15 mg N = 311
Body Weight							
Baseline mean (kg)	104.8	102.9	105.8	105.6	101.7	100.9	99.6
% Change from baseline <sup>b</sup>	-3.1	-15.0	-19.5	-20.9	-3.2	-12.8	-14.7
% Difference from placebo <sup>b</sup> (95% CI)		-11.9 (-13.4, -10.4) <sup>d</sup>	-16.4 (-17.9, -14.8) <sup>d</sup>	-17.8 (-19.3, -16.3) <sup>d</sup>		-9.6 (-11.1, -8.1) <sup>d</sup>	-11.6 (-13.0, -10.1) <sup>d</sup>
% of Patients losing ≥5% body weight	34.5	85.1	88.9	90.9	32.5	79.2	82.8
% Difference from placebo (95% CI)		50.3 (44.3, 56.2) <sup>c,d</sup>	54.6 (49.1, 60.0) <sup>c,d</sup>	56.4 (50.9, 62.0) <sup>c,d</sup>		46.8 (39.5, 54.1) <sup>c,d</sup>	50.4 (43.1, 57.8) <sup>c,d</sup>
% of Patients losing ≥10% body weight	18.8	68.5	78.1	83.5	9.5	60.5	64.8
% Difference from placebo (95% CI)		49.3 (43.6, 54.9) <sup>c,e</sup>	59.5 (54.2, 64.9) <sup>c,d</sup>	64.8 (59.6, 70.1) <sup>c,d</sup>		51.0 (44.4, 57.7) <sup>c,d</sup>	55.3 (48.6, 62.0) <sup>c,d</sup>
% of Patients losing ≥15% body weight	8.8	48.0	66.6	70.6	2.7	39.7	48.0
% Difference from placebo (95% CI)		38.7 (33.6, 43.7) <sup>c,e</sup>	58.1 (53.2, 63.0) <sup>c,d</sup>	62.0 (57.2, 66.8) <sup>c,d</sup>		37.0 (31.1, 42.9) <sup>c,d</sup>	45.4 (39.4, 51.4) <sup>c,d</sup>
% of Patients losing ≥20% body weight	3.1	30.0	50.1	56.7	1.0	21.5	30.8
% Difference from placebo (95% CI)		26.6 (22.4, 30.7) <sup>c,e</sup>	47.3 (42.7, 51.9) <sup>c,d</sup>	53.8 (49.3, 58.3) <sup>c,d</sup>		20.5 (15.7, 25.4) <sup>c,d</sup>	29.7 (24.3, 35.0) <sup>c,d</sup>

Abbreviations: ANCOVA = analysis of covariance; CI = confidence interval; N = number of patients randomly assigned to study drug.

- <sup>a</sup> The intention-to-treat population includes all randomly assigned patients. For Study 1 at Week 72, body weight was missing for 21.6%, 10.2%, 10.5%, and 9.4% of patients randomly assigned to placebo, ZEPBOUND 5 mg, 10 mg, and 15 mg, respectively. For Study 2 at Week 72, body weight was missing for 11.1%, 4.8%, and 8.4% of patients randomly assigned to placebo, ZEPBOUND 10 mg, and 15 mg, respectively. The missing values were imputed by a hybrid approach using retrieved dropouts from the same treatment group (if missing not due to COVID-19) or using all non-missing data assuming missing at random (for missing solely due to COVID-19).
- <sup>b</sup> Least-squares mean from ANCOVA adjusted for baseline value and other stratification factors.
- <sup>c</sup> Analyzed using logistic regression adjusted for baseline value.
- <sup>d</sup> p-value<0.001 (unadjusted 2-sided) for superiority, controlled for type I error rate.
- <sup>e</sup> Not controlled for type I error rate.

The cumulative frequency distributions of change in body weight are shown in Figure 1 for Study 1 and Figure 2 for Study 2. One way to interpret this figure is to select a change in body weight of interest on the horizontal axis and note the corresponding proportions of patients (vertical axis) in each treatment group who achieved at least that degree of weight reduction. For example, note that the vertical line arising from -10% in Figure 1 intersects the ZEPBOUND 15 mg and placebo curves at approximately 83.5%, and 18.8%, respectively, which correspond to the values shown in Table 2.

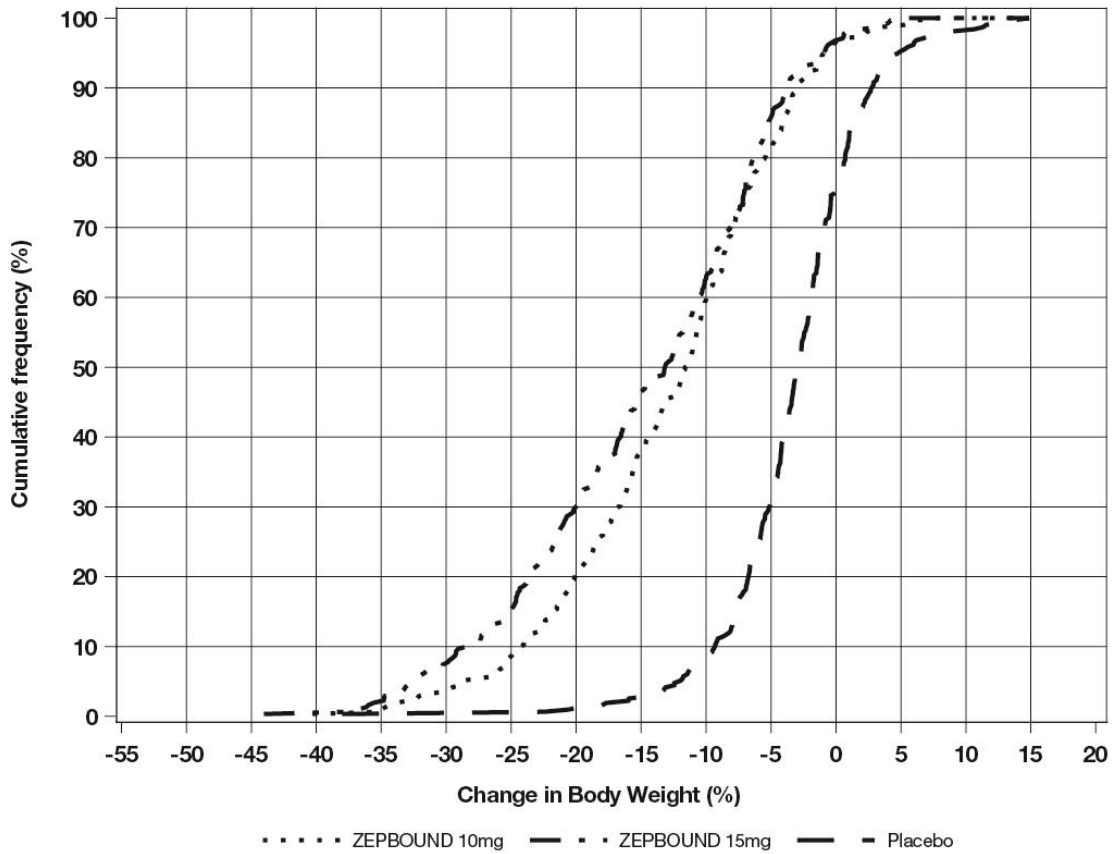
**Figure 1: Changes in Body Weight (%) from Baseline to Week 72 in Study 1 in Patients with Obesity or Overweight (without Type 2 Diabetes)**



Note: Based on average percent weight change of each randomized patient within each specific treatment arm from 100 imputed datasets including observed data and imputed data using hybrid approach for missing values.



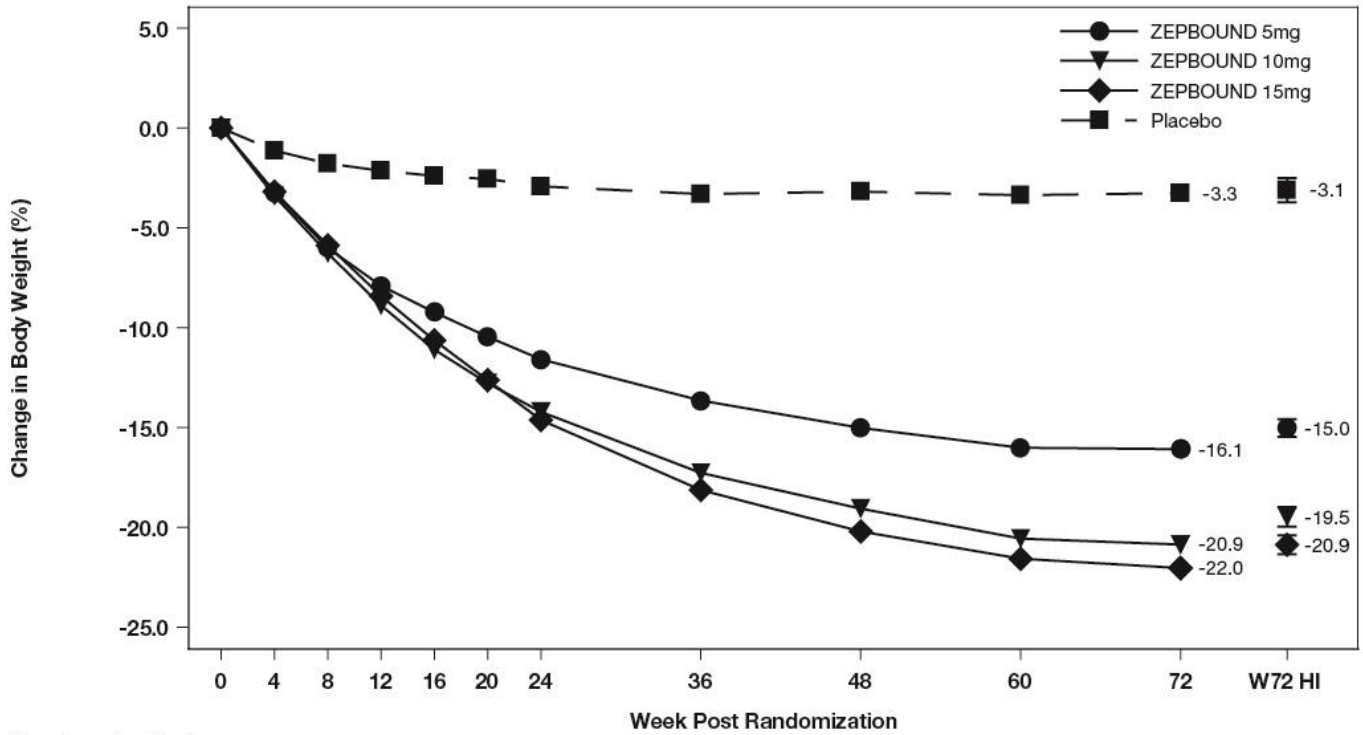
**Figure 2: Changes in Body Weight (%) from Baseline to Week 72 in Study 2 in Patients with Obesity or Overweight and Type 2 Diabetes**



Note: Based on average percent weight change of each randomized patient within each specific treatment arm from 100 imputed datasets including observed data and imputed data using hybrid approach for missing values.

The time courses of weight reduction with ZEPBOUND and placebo from baseline through Week 72 are depicted in Figure 3 for Study 1 and Figure 4 for Study 2.

**Figure 3: Change from Baseline (%) in Body Weight in Study 1 in Patients with Obesity or Overweight (without Type 2 Diabetes)**



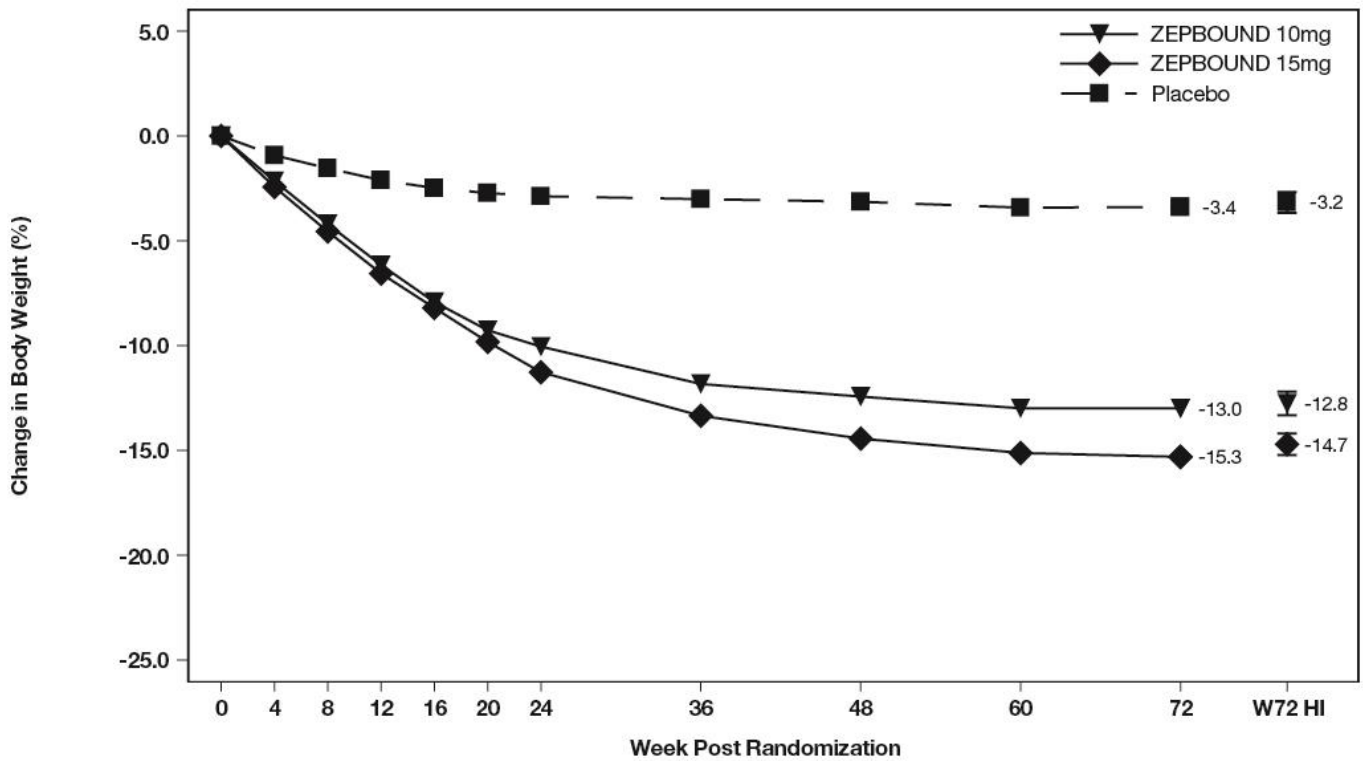
Number of patients	
ZEPBOUND 5mg	630
ZEPBOUND 10mg	636
ZEPBOUND 15mg	630
Placebo	643

601	579	566	630
593	584	569	636
595	582	571	630
593	522	504	643

Note: Displayed results are from the Intent-to-Treat Population. (1) Observed mean value from Week 0 to Week 72, and (2) least-squares mean ± standard error at Week 72 hybrid imputation (HI).

**Figure 4: Change from Baseline (%) in Body Weight in Study 2 in Patients with Obesity or Overweight and Type 2 Diabetes**



Number of patients					
ZEPBOUND 10mg	312	301	298	297	312
ZEPBOUND 15mg	311	302	292	285	311
Placebo	315	301	283	280	315

Note: Displayed results are from the Intent-to-Treat Population. (1) Observed mean value from Week 0 to Week 72, and (2) least squares mean ± standard error at Week 72 hybrid imputation (HI).

Changes in waist circumference and cardiometabolic parameters with ZEPBOUND are shown in Table 3 for Study 1 and Study 2.

**Table 3: Changes in Anthropometry and Cardiometabolic Parameters at Week 72 in Studies 1 and 2 in Patients with Obesity or Overweight**

Intention-to-Treat (ITT) Population <sup>a</sup>	Study 1				Study 2		
	Placebo N = 643	ZEPBOUND 5 mg N = 630	ZEPBOUND 10 mg N = 636	ZEPBOUND 15 mg N = 630	Placebo N = 315	ZEPBOUND 10 mg N = 312	ZEPBOUND 15 mg N = 311
Waist Circumference (cm)							
Baseline mean	114.0	113.2	114.8	114.4	116.0	114.2	114.6
Change from baseline <sup>b</sup>	-4.0	-14.0	-17.7	-18.5	-3.3	-10.8	-13.1
Difference from placebo <sup>b</sup> (95% CI)		-10.1 (-11.6, -8.6) <sup>e</sup>	-13.8 (-15.2, -12.3) <sup>d</sup>	-14.5 (-15.9, -13.0) <sup>d</sup>		-7.4 (-9.0, -5.9) <sup>d</sup>	-9.8 (-11.2, -8.3) <sup>d</sup>
Systolic Blood Pressure (mmHg)							
Baseline mean	122.9	123.6	123.8	123.0	131.0	130.6	130.0
Change from baseline <sup>b</sup>	-1.0	-6.6	-7.7	-7.4	-1.2	-5.6	-7.1
Difference from placebo <sup>b</sup> (95% CI)		-5.6 (-7.2, -3.9) <sup>e</sup>	-6.7 (-8.4, -5.0) <sup>e</sup>	-6.4 (-8.0, -4.8) <sup>e</sup>		-4.4 (-6.7, -2.1) <sup>e</sup>	-5.9 (-8.3, -3.6) <sup>e</sup>

Diastolic Blood Pressure (mmHg)							
Baseline mean	79.6	79.3	79.9	79.3	79.4	80.2	79.7
Change from baseline <sup>b</sup>	-0.8	-4.9	-5.0	-4.5	-0.3	-2.1	-2.9
Difference from placebo <sup>b</sup> (95% CI)		-4.1 (-5.2, -3.0) <sup>e</sup>	-4.2 (-5.3, -3.0) <sup>e</sup>	-3.7 (-4.8, -2.7) <sup>e</sup>		-1.8 (-3.3, -0.4) <sup>e</sup>	-2.7 (-4.2, -1.2) <sup>e</sup>
Pulse Rate (beats per minute)							
Baseline mean	72.9	72.4	71.8	72.4	74.8	75.9	75.6
Change from baseline <sup>f</sup>	0.1	0.6	2.3	2.6	-0.5	0.6	1.0
Difference from placebo <sup>f</sup> (95% CI)		0.5 (-0.5, 1.5) <sup>e</sup>	2.2 (1.2, 3.2) <sup>e</sup>	2.5 (1.5, 3.4) <sup>e</sup>		1.2 (-0.1, 2.5) <sup>e</sup>	1.5 (0.2, 2.8) <sup>e</sup>
Total Cholesterol (mg/dL)							
Baseline mean <sup>g</sup>	187.5	187.1	190.6	187.5	174.9	173.9	167.0
% change from baseline <sup>b</sup>	-1.8	-3.8	-4.4	-6.3	2.8	-2.8	-1.0
Relative difference from placebo <sup>b</sup> (95% CI)		-2.1 (-4.5, 0.4) <sup>c,e</sup>	-2.7 (-5.1, -0.2) <sup>c,e</sup>	-4.6 (-6.8, -2.2) <sup>c,e</sup>		-5.5 (-8.7, -2.2) <sup>c,e</sup>	-3.8 (-7.1, -0.3) <sup>c,e</sup>
LDL Cholesterol (mg/dL)							
Baseline mean <sup>g</sup>	109.4	108.7	112.3	109.3	92.4	90.5	85.7
% change from baseline <sup>b</sup>	-1.7	-4.6	-5.6	-7.1	7.4	1.8	4.1
Relative difference from placebo <sup>b</sup> (95% CI)		-2.9 (-6.6, 0.9) <sup>c,e</sup>	-4.0 (-7.5, -0.5) <sup>c,e</sup>	-5.5 (-8.9, -2.0) <sup>c,e</sup>		-5.2 (-10.1, 0.1) <sup>c,e</sup>	-3.0 (-8.4, 2.6) <sup>c,e</sup>
HDL Cholesterol (mg/dL)							
Baseline mean <sup>g</sup>	46.6	47.6	47.6	47.6	42.7	43.8	42.2
% change from baseline <sup>b</sup>	-0.7	6.9	9.2	8.0	0.2	8.2	9.7
Relative difference from placebo <sup>b</sup> (95% CI)		7.7 (4.6, 10.8) <sup>c,e</sup>	9.9 (6.7, 13.2) <sup>c,e</sup>	8.7 (5.7, 11.8) <sup>c,e</sup>		8.0 (4.2, 11.8) <sup>c,e</sup>	9.5 (5.6, 13.5) <sup>c,e</sup>
Non-HDL Cholesterol (mg/dL)							
Baseline mean <sup>g</sup>	138.3	137.0	140.4	137.5	129.6	127.2	121.9
% change from baseline <sup>b</sup>	-2.3	-8.0	-9.4	-11.7	3.7	-6.6	-5.2
Relative difference from placebo <sup>b</sup> (95% CI)		-5.8 (-8.9, -2.6) <sup>c,e</sup>	-7.2 (-10.3, -4.1) <sup>c,e</sup>	-9.6 (-12.4, -6.6) <sup>c,e</sup>		-9.9 (-14.1, -5.6) <sup>c,e</sup>	-8.5 (-12.9, -4.0) <sup>c,e</sup>
Triglycerides (mg/dL)							
Baseline mean <sup>g</sup>	130.8	128.7	125.7	128.1	165.0	158.8	158.5
% change from baseline <sup>b</sup>	-5.6	-21.2	-23.8	-29.1	-3.3	-27.1	-27.3
Relative difference from placebo <sup>b</sup> (95% CI)		-16.5 (-21.2, -11.4) <sup>c,e</sup>	-19.3 (-23.9, -14.4) <sup>c,e</sup>	-24.9 (-29.1, -20.4) <sup>c,e</sup>		-24.6 (-30.0, -18.7) <sup>c,e</sup>	-24.8 (-30.3, -18.9) <sup>c,e</sup>
HbA1c (%)							
Baseline mean	5.6	5.6	5.5	5.6	8.0	8.0	8.1
Change from baseline <sup>b</sup>	-0.1	-0.4	-0.4	-0.4	-0.5	-2.1	-2.1
Difference from placebo <sup>b</sup> (95% CI)		-0.3 (-0.3, -0.2) <sup>e</sup>	-0.4 (-0.4, -0.3) <sup>e</sup>	-0.4 (-0.4, -0.3) <sup>e</sup>		-1.6 (-1.7, -1.4) <sup>d</sup>	-1.6 (-1.8, -1.4) <sup>d</sup>

Abbreviations: ANCOVA = analysis of covariance; CI = confidence interval; N = number of patients randomly assigned to study drug.

<sup>a</sup> The intention-to-treat population includes all randomly assigned patients. The missing values were imputed by a hybrid approach using retrieved dropouts from the same treatment group (if missing not due to COVID-19) or using all non-missing data assuming missing at random (for missing solely due to COVID-19).

<sup>b</sup> Least-squares mean from ANCOVA adjusted for baseline value and other stratification factors.

<sup>c</sup> Analyzed using log-transformed data.

<sup>d</sup> p-value<0.001 (unadjusted 2-sided) for superiority, controlled for type I error rate.

<sup>e</sup> Not controlled for type I error rate.

<sup>f</sup> Least-squares mean from mixed model for repeated measures adjusted for baseline value and other stratification factors.

<sup>g</sup> Baseline value is the geometric mean.

### Weight Reduction Following Intensive Lifestyle Intervention in Adults with Obesity or Overweight (Study 3)

#### *Overview of Study 3*

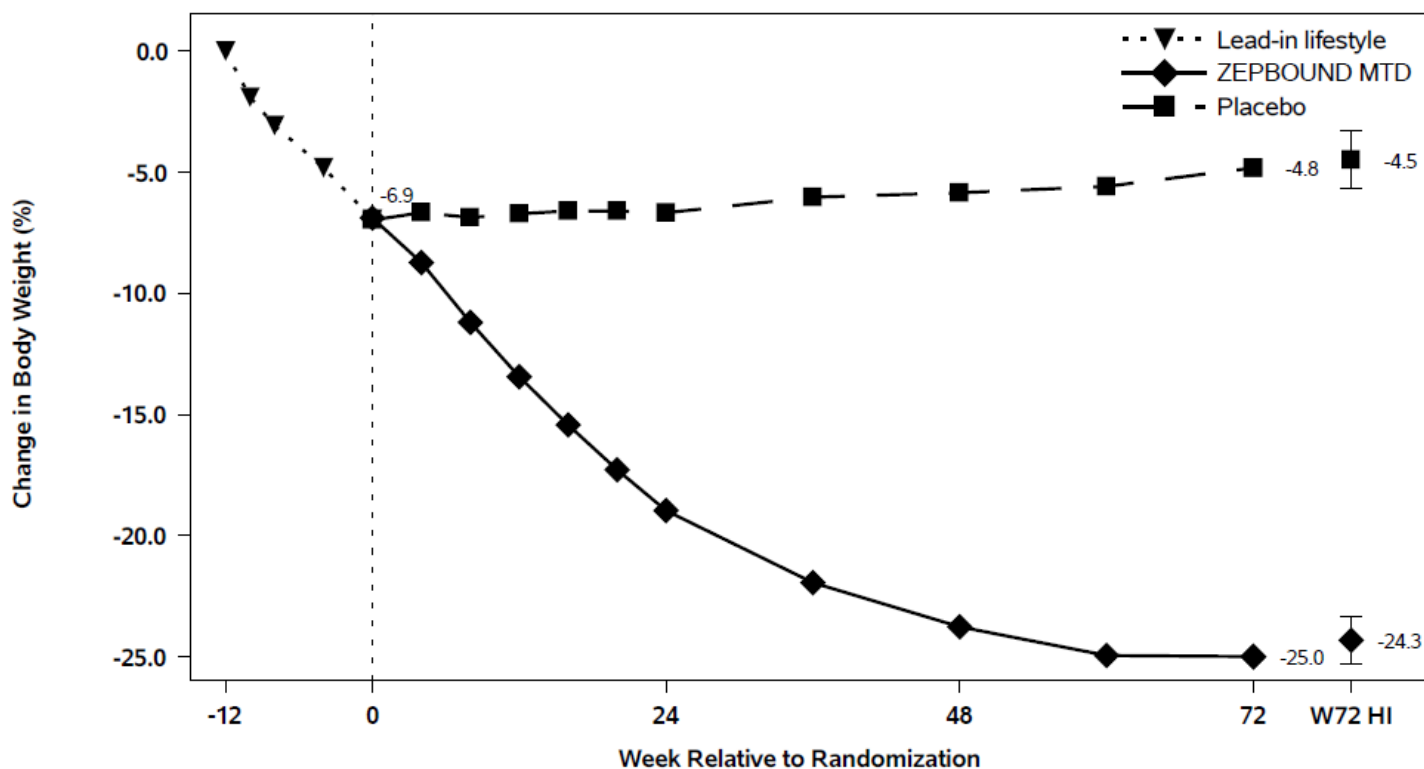
Study 3 (NCT04657016) was an 84-week trial with a 12-week intensive lifestyle intervention lead-in period (Week -12 to Week 0), followed by a 72-week randomized treatment period of ZEPBOUND versus placebo (Week 0 to Week 72) with a standard lifestyle intervention. Only patients who lost  $\geq 5\%$  body weight during the 12-week intensive lifestyle lead-in period entered the 72-week randomized treatment period. The trial initially enrolled 806 adult patients (aged 18 years and older) with obesity (BMI  $\geq 30$  kg/m<sup>2</sup>), or with overweight (BMI 27 to  $<30$  kg/m<sup>2</sup>) and at least one weight-related comorbid condition, such as dyslipidemia, hypertension, obstructive sleep apnea, or cardiovascular disease; patients with type 2 diabetes mellitus were excluded. During the intensive lifestyle intervention lead-in period, lifestyle instruction was delivered 8 times over 12 weeks by a dietician or dietician-equivalent, with all patients receiving instruction to exercise for at least 150 minutes per week and to reduce their caloric intake to approximately 1,200 kcal/day (females) or 1,500 kcal/day (males). Patients also received counseling on behavior modification strategies to adhere to diet and exercise recommendations. At the end of the 12-week intensive lifestyle intervention lead-in period, 579 patients who achieved  $\geq 5\%$  weight reduction were randomized in a 1:1 ratio to ZEPBOUND or placebo for 72 weeks. ZEPBOUND dosages were escalated over a period of up to 20 weeks to a maximum tolerated dosage (MTD) of 10 mg or 15 mg subcutaneous once weekly. During the randomized treatment period, patients received a standard lifestyle instruction every 12 weeks on reduced-calorie diet (approximately 500 kcal/day deficit) and increased physical activity (recommended minimum of 150 min/week) that began with the first dose of ZEPBOUND or placebo and continued throughout the 72-week treatment period; behavior modification strategies were recommended as needed. Weight reduction was assessed after 72 weeks of treatment (at least 52 weeks at maintenance dose).

For the 579 patients who were randomized, mean body weight at enrollment prior to entering the 12-week lifestyle lead-in period (Week -12) was 109.5 kg and mean BMI was 38.6 kg/m<sup>2</sup>. At randomization (Week 0), after the 12-week intensive lifestyle lead-in period, mean body weight was 101.9 kg and mean BMI was 35.9 kg/m<sup>2</sup>. The mean age of patients randomized to treatment was 46 years (range 18-77 years), 63% were female, 86% were White, 11% were Black or African American, and 1% were Asian. A total of 54% were Hispanic or Latino ethnicity. Baseline characteristics for the 579 randomized patients included 34% with hypertension, 26% with dyslipidemia, 10% with obstructive sleep apnea, and 2% with cardiovascular disease.

#### *Results for Study 3*

At the end of the 12-week intensive lifestyle intervention lead-in, for patients who subsequently entered the randomized treatment period (n=579), the average body weight loss due to lifestyle was 6.9% (Week -12 to Week 0). Eighty-six percent (86%) of ZEPBOUND-treated patients had a maximum tolerated dosage of 15 mg weekly based on their final dose during the double-blind treatment period. The time course of weight reduction during the lead-in and from Week 0 to Week 72 with ZEPBOUND and placebo are depicted in Figure 5.

**Figure 5: Change in Body Weight (%) After 12-Week Intensive Lifestyle Intervention Lead-In Followed by Randomized Treatment and a Standard Lifestyle Intervention (Study 3) in Patients with Obesity or Overweight**



Number of patients	
Lead-in lifestyle	579
ZEPBOUND MTD	287
Placebo	292

Note: Displayed results are from the randomized Population. (1) Observed mean value from Week -12 to Week 72, and (2) least squares mean  $\pm$  standard error at Week 72 hybrid imputation (HI). Change from Week -12 is not a primary endpoint in Study 3.

The proportions of patients who discontinued study drug after randomization were 21.3% for the ZEPBOUND-treated group and 30.5% for the placebo-treated group.

For Study 3, the primary efficacy parameters were mean percent change in body weight from randomization (Week 0) to Week 72 and the percentage of patients achieving  $\geq 5\%$  weight reduction from randomization (Week 0) to Week 72. Amongst randomized patients who already lost  $\geq 5\%$  body weight during the 12-week intensive lifestyle lead-in period, subsequent treatment with ZEPBOUND resulted in a statistically significant reduction in body weight compared to placebo from randomization (Week 0) to Week 72. A greater proportion of patients treated with ZEPBOUND achieved at least 5%, 10%, 15%, and 20% weight reduction from Week 0 to Week 72 compared to placebo (see Table 4).

**Table 4: Changes in Body Weight After 12-Week Intensive Lifestyle Intervention Lead-In Followed by Randomized Treatment and a Standard Lifestyle Intervention (Study 3) in Patients with Obesity or Overweight**

	Study 3 N = 579 <sup>a</sup>	
Body weight		
Mean (kg) at Week -12	109.5	
Intention-to-Treat (ITT) Population <sup>a,b</sup>	Placebo N = 292	ZEPBOUND MTD (10 mg or 15 mg) N = 287
Body Weight		
Mean (kg) at Week 0	101.3	102.5

% Change from randomization at Week 72 <sup>c</sup>	2.5	-18.4
% Difference from placebo, at Week 72 <sup>c</sup> (95% CI)		-20.8 (-23.2, -18.5) <sup>e</sup>
% of Patients losing ≥5% body weight	16.5	87.5
% Difference from placebo (95% CI)		71.1 (63.6, 78.5) <sup>d,e</sup>
% of Patients losing ≥10% body weight	8.9	76.7
% Difference from placebo (95% CI)		67.9 (60.7, 75.1) <sup>d,e</sup>
% of Patients losing ≥15% body weight	4.2	65.4
% Difference from placebo (95% CI)		61.3 (54.5, 68.1) <sup>d,e</sup>
% of Patients losing ≥20% body weight	2.2	44.7
% Difference from placebo (95% CI)		42.6 (36.0, 49.1) <sup>d,e</sup>

Abbreviations: ANCOVA = analysis of covariance; CI = confidence interval; MTD = maximum tolerated dose; N = number of patients randomly assigned to study drug.

- <sup>a</sup> The intent-to-treat population included only randomized patients with ≥5% weight loss at Week 0 after 12 weeks of intensive lifestyle intervention. During the 12-week lead-in period, 227 of 806 patients (28.2%) discontinued from the study. Of these 141 (17.5%) discontinued due to not achieving the randomization criteria of ≥5% weight reduction.
- <sup>b</sup> The intent-to-treat population includes all randomly assigned patients. For Study 3 at Week 72, body weight was missing for 23.6% and 8.7% of patients randomly assigned to placebo and ZEPBOUND MTD (10 or 15 mg). The missing values were imputed by a hybrid approach using retrieved dropouts from the same treatment group (if missing not due to COVID-19) or using all non-missing data assuming missing at random (for missing solely due to COVID-19).
- <sup>c</sup> Least-squares mean from ANCOVA adjusted for baseline value and other stratification factors.
- <sup>d</sup> Analyzed using logistic regression adjusted for baseline value.
- <sup>e</sup> p-value<0.001 (unadjusted 2-sided) for superiority, controlled for type I error rate.

Changes in waist circumference and cardiometabolic parameters are shown in Table 5.

**Table 5: Changes in Anthropometry and Cardiometabolic Parameters After 12-Week Intensive Lifestyle Intervention Lead-In Followed by Randomized Treatment and a Standard Lifestyle Intervention (Study 3) in Patients with Obesity or Overweight**

Intention-to-Treat (ITT) Population <sup>a</sup>	All Randomized Patients N=579		Placebo N=292		ZEPBOUND MTD (10 mg or 15 mg) N=287		
	Baseline (Week -12)	Change from Week -12 to Week 0	Randomization (Week 0)	Change from Week 0 to Week 72	Randomization (Week 0)	Change from Week 0 to Week 72	Difference from placebo, Week 0 to Week 72 (95% CI)
Waist circumference (cm) <sup>h</sup>	116.1	-6.7	109.6	0.2 <sup>b</sup>	109.3	-14.6 <sup>b</sup>	-14.8 <sup>b</sup> (-17.2, -12.5) <sup>d</sup>
Systolic Blood Pressure (mmHg) <sup>h</sup>	126.2	-5.0	120.8	3.5 <sup>b</sup>	121.7	-5.1 <sup>b</sup>	-8.6 <sup>b</sup> (-11.3, -6.0) <sup>e</sup>
Diastolic Blood Pressure (mmHg) <sup>h</sup>	81.7	-2.9	78.3	2.1 <sup>b</sup>	79.3	-3.2 <sup>b</sup>	-5.3 <sup>b</sup> (-6.9, -3.7) <sup>e</sup>
Pulse Rate (beats per minute) <sup>h</sup>	73.0	-1.6	70.7	0.9 <sup>f</sup>	72.2	2.7 <sup>f</sup>	1.8 <sup>f</sup> (0.3, 3.4) <sup>e</sup>
HbA1c (%) <sup>h</sup>	5.5	-0.1	5.4	0.0 <sup>b</sup>	5.3	-0.4 <sup>b</sup>	-0.4 <sup>b</sup> (-0.5, -0.3) <sup>e</sup>

Total Cholesterol (mg/dL) <sup>g,h</sup>	190.2	-8.6	181.6	4.3	181.7	-2.4	-6.4 <sup>b</sup> (-9.0, -3.6) <sup>c,e</sup>
LDL Cholesterol (mg/dL) <sup>g,h</sup>	111.6	-3.5	107.5	4.4	108.0	-5.6	-9.6 <sup>b</sup> (-13.7, -5.4) <sup>c,e</sup>
HDL Cholesterol (mg/dL) <sup>g,h</sup>	48.4	-1.2	47.8	5.4	46.9	15.2	9.3 <sup>b</sup> (4.5, 14.2) <sup>c,e</sup>
Non-HDL Cholesterol (mg/dL) <sup>g,h</sup>	139.2	-7.4	131.5	4.4	132.4	-8.8	-12.6 <sup>b</sup> (-15.9, -9.3) <sup>c,e</sup>
Triglycerides (mg/dL) <sup>g,h</sup>	123.1	-19.8	108.8	2.1	111.7	-23.5	-25.1 <sup>b</sup> (-30.9, -18.9) <sup>c,e</sup>

Abbreviations: ANCOVA = analysis of covariance; CI = confidence interval; N = number of patients randomly assigned to study drug.

<sup>a</sup> The intent-to-treat population included all randomly assigned patients. The missing values were imputed by a hybrid approach using retrieved dropouts from the same treatment group (if missing not due to COVID-19) or using all non-missing data assuming missing at random (for missing solely due to COVID-19).

<sup>b</sup> Least-squares mean from ANCOVA adjusted for baseline value and other stratification factors.

<sup>c</sup> Analyzed using log-transformed data.

<sup>d</sup> p-value<0.001 (unadjusted 2-sided) for superiority, controlled for type I error rate.

<sup>e</sup> Not controlled for type I error rate.

<sup>f</sup> Least-squares mean from mixed model for repeated measures adjusted for baseline value and other stratification factors.

<sup>g</sup> Baseline and randomization values are the geometric mean.

<sup>h</sup> Observed means are shown for change from Week -12 to Week 0. Least-square means are shown for change from Week 0 to Week 72.

#### Weight Reduction Following Randomized Withdrawal in Adults with Obesity or Overweight (Study 4)

##### *Overview of Study 4*

Study 4 (NCT04660643) was an 88-week randomized withdrawal trial in which all patients received open-label ZEPBOUND during a 36-week lead-in period, followed by randomization to either continue ZEPBOUND or switch to placebo for 52 weeks. The trial enrolled 783 adult patients (aged 18 years and older) with obesity (BMI  $\geq 30$  kg/m<sup>2</sup>), or with overweight (BMI 27 to  $<30$  kg/m<sup>2</sup>) and at least one weight-related comorbid condition, such as dyslipidemia, hypertension, obstructive sleep apnea, or cardiovascular disease; patients with type 2 diabetes mellitus were excluded. All patients received a standard lifestyle intervention which included instruction on a reduced-calorie diet (approximately 500 kcal/day deficit) and increased physical activity counseling (recommended minimum of 150 min/week) that began with the first dose of ZEPBOUND, during the lead-in period, and continued throughout the trial. During the 36-week open-label ZEPBOUND lead-in period, ZEPBOUND dosages were escalated over a period of up to 20 weeks to an MTD of 10 mg or 15 mg subcutaneous once weekly. After the lead-in period, patients were randomized at Week 36 to continue ZEPBOUND or switch to placebo for 52 weeks.

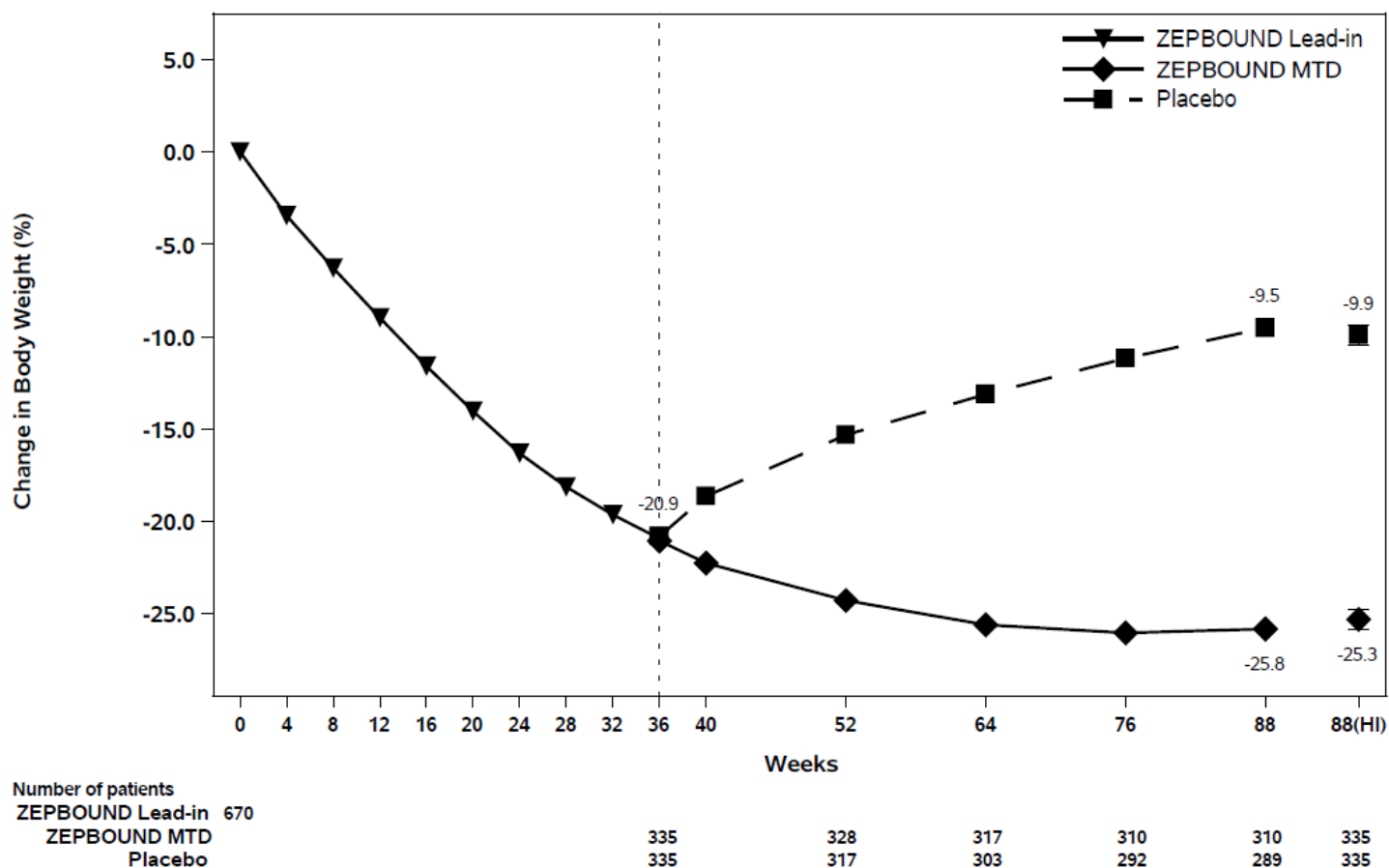
Of the 783 patients who started ZEPBOUND at Week 0, 14.4% discontinued treatment before randomization at Week 36, and adverse events were the most common reason for discontinuation (6.8%). At Week 36, a total of 670 patients were randomized in a 1:1 ratio to ZEPBOUND MTD or placebo for 52 weeks. For the 670 randomized patients, at study entry (Week 0) mean body weight was 107.3 kg and mean BMI was 38.4 kg/m<sup>2</sup>, and at randomization (Week 36, after the open-label ZEPBOUND lead-in period) mean body weight was 85.2 kg and mean BMI was 30.5 kg/m<sup>2</sup>. Among the randomized patients, the mean age was 49 years (range 19-81 years), 71% were female, 80% were White, 11% were Black or African American, and 7% were Asian. A total of 44% were Hispanic or Latino ethnicity. Baseline characteristics for the 670 randomized patients included 35% with hypertension, 32% with dyslipidemia, 12% with obstructive sleep apnea, and 6% with cardiovascular disease.

##### *Results for Study 4*

At the end of the 36-week open-label ZEPBOUND lead-in period, of the 670 randomized patients, 93% were on ZEPBOUND MTD of 15 mg weekly and 7% were on MTD of 10 mg weekly. After open-label ZEPBOUND treatment, randomized patients (n=670) had an average body weight loss of 20.9% (Week 0 to Week 36). The time course of weight reduction from Week 0 through Week 88 is depicted in Figure 6.



**Figure 6: Change in Body Weight (%) After 36-Week Open-Label Treatment Followed by Randomized Withdrawal (Study 4) in Patients with Obesity or Overweight**



Note: Displayed results are from the randomized population. (1) Displayed results are observed mean value from Week 0 to Week 88 and (2) least squares mean  $\pm$  standard error at Week 88 hybrid imputation (HI). Change from Week 0 was not a primary endpoint in Study 4.

The proportions of patients who discontinued study drug after randomization at Week 36 were 10.4% for the ZEPBOUND-treated group and 17.9% for the placebo-treated group.

For Study 4, the primary efficacy parameter was mean percent change in body weight from randomization (Week 36) to Week 88. After weight loss with ZEPBOUND treatment during the open-label lead-in period (Week 0 to Week 36), continued treatment with ZEPBOUND from randomization (Week 36) to Week 88 resulted in a statistically significant reduction in body weight compared with placebo (see Table 6).

**Table 6: Changes in Body Weight After 36-Week Open-Label Treatment Followed by Randomized Withdrawal (Study 4) in Patients with Obesity or Overweight**

	Study 4 N=670 <sup>a</sup>	
Body weight		
Mean at Week 0 (kg)	107.3	
Intention-to-Treat (ITT) Population <sup>a</sup>	Placebo N=335	ZEPBOUND (MTD 10 mg or 15 mg) N=335
Body Weight		
Mean at Week 36 (kg)	85.8	84.6

% change from Week 36 at Week 88 <sup>b</sup>	14.0	-5.5
% difference from placebo at Week 88 (95% CI) <sup>b</sup>		-19.4 (-21.2, -17.7) <sup>d</sup>

Abbreviations: ANCOVA = analysis of covariance; CI = confidence interval; MTD = maximum tolerated dose; N = number of patients randomly assigned to study drug.

- <sup>a</sup> The intent-to-treat population included all randomly assigned patients and did not include 113 patients who were enrolled but not randomized. At Week 88, body weight was missing for 13.7% and 7.5% of patients randomly assigned to placebo and ZEPBOUND MTD (10 or 15 mg), respectively. The missing values were imputed by a hybrid approach using retrieved dropouts from the same treatment group (if missing not due to COVID-19) or using all non-missing data assuming missing at random (for missing solely due to COVID-19).
- <sup>b</sup> Least-squares mean from ANCOVA adjusted for baseline value and other stratification factors.
- <sup>c</sup> Analyzed using logistic regression adjusted for baseline value.
- <sup>d</sup> p-value<0.001 (unadjusted 2-sided) for superiority, controlled for type I error rate.

Changes in waist circumference and cardiometabolic parameters in Study 4 are shown in Table 7.

**Table 7: Mean Changes in Anthropometry and Cardiometabolic Parameters After 36-Week Open-Label Treatment Followed by Randomized Withdrawal (Study 4) in Patients with Obesity or Overweight**

Intention-to-Treat (ITT) Population <sup>a</sup>	All Randomized Patients N=670		Placebo N=335		ZEPBOUND MTD (10 mg or 15 mg) N=335		
	Baseline (Week 0)	Change from Week 0 to Week 36	Randomization (Week 36)	Change from Week 36 to Week 88	Randomization (Week 36)	Change from Week 36 to Week 88	Difference from placebo, Week 36 to Week 88 (95% CI)
Waist circumference (cm) <sup>h</sup>	115.2	-17.8	98.2	7.8 <sup>b</sup>	96.8	-4.3 <sup>b</sup>	-12.1 <sup>b</sup> (-13.5, -10.6) <sup>d</sup>
Systolic Blood Pressure (mmHg) <sup>h</sup>	126.1	-11.2	114.8	8.2 <sup>b</sup>	115.0	2.0 <sup>b</sup>	-6.2 <sup>b</sup> (-8.2, -4.3) <sup>e</sup>
Diastolic Blood Pressure (mmHg) <sup>h</sup>	80.9	-5.1	76.2	3.2 <sup>b</sup>	75.4	-0.7 <sup>b</sup>	-3.8 <sup>b</sup> (-5.2, -2.4) <sup>e</sup>
Pulse Rate (beats per minute) <sup>h</sup>	72.5	5.0	77.8	-5.2 <sup>f</sup>	77.1	-2.1 <sup>f</sup>	3.1 <sup>f</sup> (1.9, 4.3) <sup>e</sup>
HbA1c (%) <sup>h</sup>	5.5	-0.5	5.0	0.3 <sup>b</sup>	5.1	-0.0 <sup>b</sup>	-0.3 <sup>b</sup> (-0.3, -0.2) <sup>e</sup>
Total Cholesterol (mg/dL) <sup>g,h</sup>	188.3	-12.4	176.1	8.0	175.9	2.7	-4.9 <sup>b</sup> (-7.4, -2.4) <sup>c,e</sup>
LDL Cholesterol (mg/dL) <sup>g,h</sup>	108.6	-1.9	107.6	3.2	105.9	-3.5	-6.5 <sup>b</sup> (-10.0, -2.9) <sup>c,e</sup>
HDL Cholesterol (mg/dL) <sup>g,h</sup>	49.9	-2.7	47.3	14.8	47.7	18.7	3.4 <sup>b</sup> (0.2, 6.6) <sup>c,e</sup>
Non-HDL Cholesterol (mg/dL) <sup>g,h</sup>	135.8	-9.8	126.3	5.1	126.0	-3.4	-8.1 <sup>b</sup> (-11.3, -4.8) <sup>c,e</sup>
Triglycerides (mg/dL) <sup>g,h</sup>	121.4	-40.4	85.5	13.5	90.9	-4.8	-16.1 <sup>b</sup> (-21.7, -10.0) <sup>c,e</sup>

Abbreviations: ANCOVA = analysis of covariance; CI = confidence interval; N = number of patients randomly assigned to study drug.

- <sup>a</sup> The intent-to-treat population included all randomly assigned patients. The missing values were imputed by a hybrid approach using retrieved dropouts from the same treatment group (if missing not due to COVID-19) or using all non-missing data assuming missing at random (for missing solely due to COVID-19).
- <sup>b</sup> Least-squares mean from ANCOVA adjusted for baseline value and other stratification factors.
- <sup>c</sup> Analyzed using log-transformed data.
- <sup>d</sup> p-value<0.001 (unadjusted 2-sided) for superiority, controlled for type I error rate.
- <sup>e</sup> Not controlled for type I error rate.

- <sup>f</sup> Least-squares mean from mixed model for repeated measures adjusted for baseline value and other stratification factors.
- <sup>g</sup> Baseline and randomization values are the geometric mean.
- <sup>h</sup> Observed means are shown for change from Week 0 to Week 36. Least-square means are shown for change from Week 36 to Week 88.

## 14.2 Obstructive Sleep Apnea Studies in Adults with Obesity

### Overview of Study 5 and Study 6

The efficacy of ZEPBOUND for moderate to severe obstructive sleep apnea (OSA) (apnea-hypopnea index [AHI]  $\geq 15$ ) in patients with obesity (BMI  $\geq 30$  kg/m<sup>2</sup>) was evaluated in a master protocol clinical trial (NCT05412004) that included two randomized, double-blind, placebo-controlled trials (Study 5 and Study 6) of 52 weeks duration. The two trials enrolled a total of 469 adult patients.

In Studies 5 and 6, patients were randomized in a 1:1 ratio to receive ZEPBOUND or placebo for 52 weeks. ZEPBOUND dosages were escalated over a period of up to 20 weeks to maximum tolerated dosage (MTD) of 10 mg or 15 mg subcutaneous once weekly [see *Dosage and Administration* (2.1, 2.2)]. Patients with type 2 diabetes mellitus were excluded and all patients received instruction on a reduced-calorie diet and increased physical activity counseling throughout the study.

Study 5 enrolled 234 adult patients with moderate to severe OSA and obesity who were unable or unwilling to use Positive Airway Pressure (PAP) therapy. Patients had a mean age of 48 years (range: 20 to 76 years), 67% were male, 66% were White, 20% were Asian, 8% were American Indian/Alaska Native, and 6% were Black or African American. A total of 42% were Hispanic or Latino ethnicity.

Study 6 enrolled 235 adult patients with moderate to severe OSA and obesity who were on PAP therapy. Patients had a mean age of 52 years (range: 26 to 79 years), 72% were male, 73% were White, 14% were Asian, 8% were American Indian/Alaska Native, and 5% were Black or African American. A total of 32% were Hispanic or Latino ethnicity.

Table 8 describes the baseline disease characteristics of patients in Studies 5 and 6.

**Table 8: Baseline Disease Characteristics of Patients with OSA and Obesity in Study 5 and Study 6**

	Study 5 (N=234)	Study 6 (N=235)
Baseline AHI (events/hour), mean (SD)	51.5 (31)	49.5 (26.7)
Moderate OSA, % <sup>a</sup>	35.2	30.9
Severe OSA, % <sup>b</sup>	63.1	68.2
ESS Total, mean (SD)	10.5 (5.2)	10 (4.6)
Total Hypoxic Burden (% min/hour), mean (SD)	208.4 (189.1)	193 (174.6)
BMI (kg/m <sup>2</sup> ), mean (SD)	39.1 (7)	38.7 (6)
Pre-diabetes, %	65	56.6
Hypertension, %	75.6	77.4
Cardiac disorders, %	10.3	11.1
Dyslipidemia, %	80.8	83.8

Abbreviations: AHI = Apnea-Hypopnea Index; BMI = body-mass index; ESS = Epworth Sleepiness Score; OSA = obstructive sleep apnea; SD = standard deviation.

<sup>a</sup> Moderate OSA was defined as an AHI  $\geq 15$  – 30 events/hour on polysomnogram at baseline.

<sup>b</sup> Severe OSA was defined as an AHI  $\geq 30$  events/hour on polysomnogram at baseline.

### Results for Study 5 and Study 6

The primary endpoint for Studies 5 and 6 was the change from baseline in the apnea-hypopnea index (AHI) at Week 52. Patients in Study 5 were unable or unwilling to use PAP therapy, and patients in Study 6 were on PAP therapy and instructed to suspend PAP for 7 days prior to assessment of the primary endpoint. The clinical studies for OSA did not evaluate the timing or appropriateness of PAP discontinuation in patients who were previously compliant with PAP therapy.

In Studies 5 and 6, treatment with ZEPBOUND for 52 weeks resulted in a statistically significant reduction in AHI compared with placebo, and greater proportions of patients treated with ZEPBOUND achieved remission or mild non-

symptomatic OSA compared to placebo. Table 9 provides the efficacy results for Studies 5 and 6. A reduction in AHI was observed with ZEPBOUND irrespective of age, sex, ethnicity, baseline BMI, or baseline OSA severity. In both Studies 5 and 6, patients treated with ZEPBOUND achieved a greater reduction in systolic blood pressure and high-sensitivity C-reactive protein levels compared to placebo.

**Table 9: Changes in Apnea-Hypopnea Index (AHI), Hypoxic Burden, and Body Weight at Week 52 in Study 5 and Study 6**

Modified Intent-to-Treat (mITT) Population <sup>a</sup>	Study 5		Study 6	
	Placebo N = 120	ZEPBOUND MTD (10 mg or 15 mg) N = 114	Placebo N = 114	ZEPBOUND MTD (10 mg or 15 mg) N = 119
AHI (events/hr)				
Baseline mean	50.1	52.9	53.1	46.1
Change from baseline <sup>b</sup>	-5.3	-25.3	-5.5	-29.3
Difference from placebo <sup>b</sup> (95% CI)	-20 (-25.8, -14.2) <sup>e</sup>		-23.8 (-29.6, -17.9) <sup>e</sup>	
% change in AHI				
% change from baseline <sup>b</sup>	-3	-50.7	-2.5	-58.7
% difference from placebo <sup>b</sup> (95% CI)	-47.7 (-65.8, -29.6) <sup>e</sup>		-56.2 (-73.7, -38.7) <sup>e</sup>	
% of patients with ≥50% reduction in AHI <sup>d</sup>	19	61.2	23.3	72.4
% difference from placebo (95% CI)	42.8 (30.8, 54.8) <sup>e</sup>		48.6 (36.6, 60.7) <sup>e</sup>	
Remission or mild non-symptomatic OSA				
% of Patients with AHI <5 or AHI 5-14 and ESS ≤10 <sup>d</sup>	15.9	42.2	14.3	50.2
% difference from placebo (95% CI)	28.7 (18.3, 39.2) <sup>e</sup>		33.2 (22.1, 44.3) <sup>e</sup>	
Sleep apnea-specific hypoxic burden (% min/h)				
Baseline mean <sup>f</sup>	137.8	153.6	142.1	132.2
Change from baseline <sup>b</sup>	-25.1	-95.2	-41.7	-103
Difference from placebo <sup>b</sup> (95% CI)	-70.1 (-90.9, -49.3) <sup>c,e</sup>		-61.3 (-84.7, -37.9) <sup>c,e</sup>	
Body weight (kg)				
Baseline mean	112.8	116.7	115.1	115.8
% change from baseline <sup>b</sup>	-1.6	-17.7	-2.3	-19.6
% difference from placebo <sup>b</sup> (95% CI)	-16.1 (-18, -14.2) <sup>e</sup>		-17.3 (-19.3, -15.3) <sup>e</sup>	

Abbreviations: AHI = Apnea-Hypopnea Index; ANCOVA = analysis of covariance; CI = confidence interval; ESS = Epworth Sleepiness Scale; h = hour; MTD = maximum tolerated dose; N = number of participants randomly assigned and received at least 1 dose of study drug.

<sup>a</sup> Analyses were based on the modified intent-to-treat population which was defined as randomly assigned participants who were exposed to at least 1 dose of study intervention; two participants in Study 6 were randomized but did not receive study drug.

<sup>b</sup> Least-squares mean from ANCOVA adjusted for baseline values and stratification factors, with multiple imputation for missing data at Week 52.

<sup>c</sup> Analyzed using log transformed data.

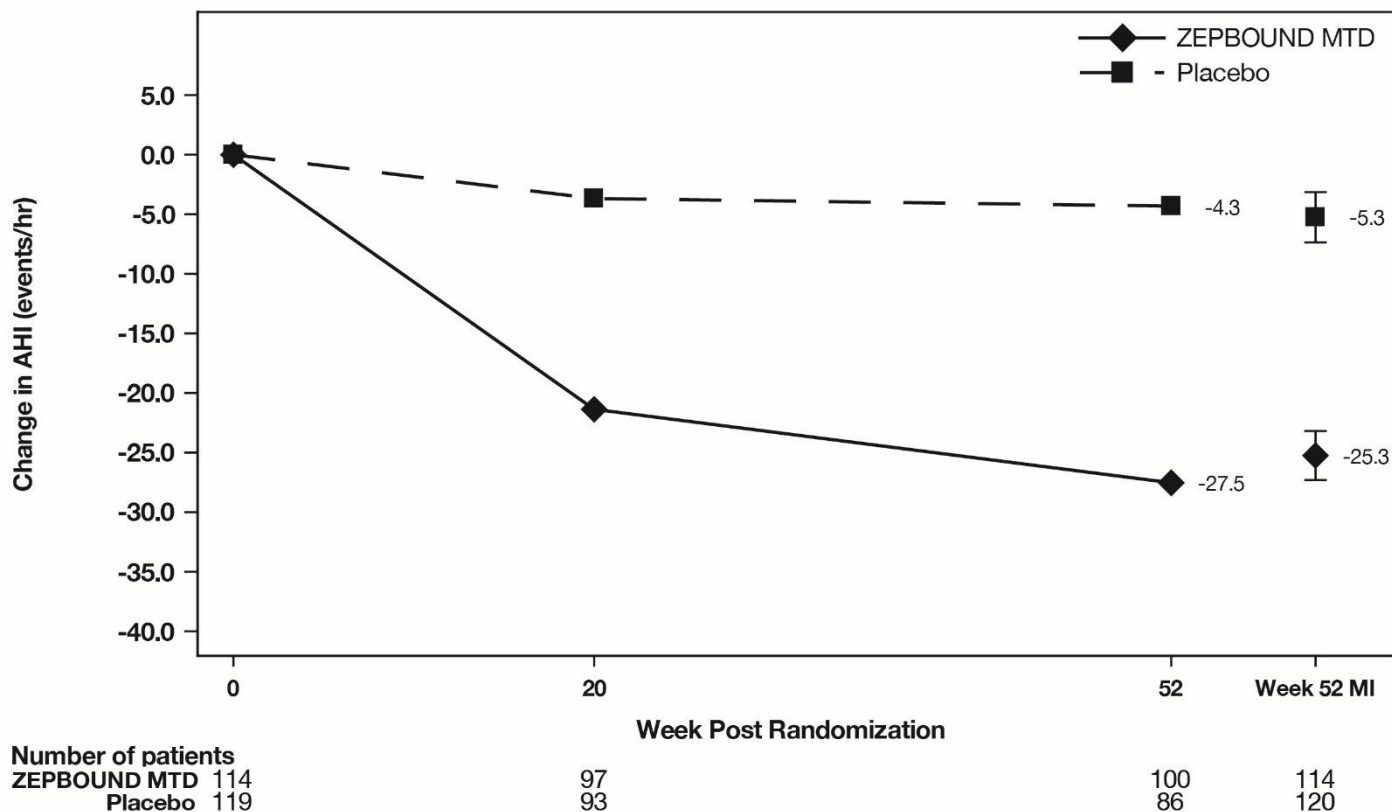
<sup>d</sup> Calculated by combining proportion of participants achieving target in imputed datasets.

<sup>e</sup> p-value <0.001 (unadjusted 2-sided) for superiority, controlled for multiplicity.

<sup>f</sup> Baseline value is the geometric mean.

The time course of change in AHI with ZEPBOUND and placebo from baseline through Week 52 are shown in Figure 7 for Study 5. Similar results were demonstrated for Study 6.

Figure 7: Change from Baseline in Apnea-Hypopnea Index (AHI) Through Week 52 (Study 5)



Abbreviations: AHI = Apnea-Hypopnea Index; ANCOVA = analysis of covariance; MI = multiple imputation; MTD = maximum tolerated dose.

Note: Displayed results are from modified Intent-to-Treat Population. (1) Observed mean value from Week 0 through Week 52, and (2) least squares mean  $\pm$  standard error at Week 52 from ANCOVA adjusted for baseline values and stratification factors, with multiple imputation of missing data.

### Sleep-Related Impairment

In OSA clinical studies (Study 5 and Study 6), ZEPBOUND-treated patients showed improvement in sleep-related impairment compared to those who received placebo. Sleep-related impairment was assessed using the Patient-Reported Outcomes Measurement Information System® (PROMIS) Short Form Sleep-Related Impairment 8a.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

### 16.1 How Supplied

ZEPBOUND (tirzepatide) is a clear, colorless to slightly yellow solution available in cartons containing 4 pre-filled single-dose pens, 1 single-dose vial, or 4 single-dose vials as follows:

Total Strength per Total Volume	4 pack Pen NDC	1 pack Vial NDC	4 pack Vial NDC
2.5 mg/0.5 mL	0002-2506-80	0002-0152-01	0002-0152-04
5 mg/0.5 mL	0002-2495-80	0002-0243-01	0002-0243-04
7.5 mg/0.5 mL	0002-2484-80	0002-1214-01	0002-1214-04
10 mg/0.5 mL	0002-2471-80	0002-1340-01	0002-1340-04
12.5 mg/0.5 mL	0002-2460-80	0002-1423-01	0002-1423-04

15 mg/0.5 mL	0002-2457-80	0002-2002-01	0002-2002-04
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## 16.2 Storage and Handling

- Store ZEPBOUND in a refrigerator at 2°C to 8°C (36°F to 46°F).
- If needed, each single-dose pen or single-dose vial can be stored unrefrigerated at temperatures not to exceed 30°C (86°F) for up to 21 days. If ZEPBOUND is stored at room temperature, it should not be returned to the refrigerator.
- Discard if not used within 21 days after removing from the refrigerator.
- Do not freeze ZEPBOUND. Do not use ZEPBOUND if frozen.
- Store ZEPBOUND in the original carton to protect from light.

## 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 ZEPBOUND causes 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, persistent hoarseness, dysphagia, or dyspnea) to their healthcare provider [see *Boxed Warning and Warnings and Precautions (5.1)*].

### Severe Gastrointestinal Adverse Reactions

Inform patients of the potential risk of severe gastrointestinal adverse reactions. Instruct patients to contact their healthcare provider if they have severe or persistent gastrointestinal symptoms [see *Warnings and Precautions (5.2)*].

### Acute Kidney Injury

Advise patients treated with ZEPBOUND of the potential risk of dehydration due to gastrointestinal adverse reactions and take precautions to avoid fluid depletion. Inform patients of the potential risk for worsening renal 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 (5.3)*].

### Acute Gallbladder Disease

Inform patients of the risk of acute gallbladder disease. Instruct patients to contact their healthcare provider for appropriate clinical follow-up if gallbladder disease is suspected [see *Warnings and Precautions (5.4)*].

### Acute Pancreatitis

Inform patients of the potential risk for pancreatitis. Instruct patients to discontinue ZEPBOUND promptly and contact their healthcare provider if pancreatitis is suspected (severe abdominal pain that may radiate to the back, and which may or may not be accompanied by vomiting) [see *Warnings and Precautions (5.5)*].

### Hypersensitivity Reactions

Inform patients that serious hypersensitivity reactions have been reported with use of tirzepatide. Advise patients on the symptoms of hypersensitivity reactions and instruct them to stop taking ZEPBOUND and seek medical advice promptly if such symptoms occur [see *Warnings and Precautions (5.6)*].

### Hypoglycemia

Inform patients of the risk of hypoglycemia and educate patients on the signs and symptoms of hypoglycemia. Advise patients on insulin or insulin secretagogue therapy that they may have an increased risk of hypoglycemia when using ZEPBOUND and to report signs and/or symptoms of hypoglycemia to their healthcare provider [see *Warnings and Precautions (5.7)*].

### Diabetic Retinopathy Complications

Inform patients with type 2 diabetes mellitus to contact their healthcare provider if changes in vision are experienced during treatment with ZEPBOUND [see *Warnings and Precautions (5.8)*].

### Suicidal Behavior and Ideation

Advise patients to report emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Inform patients that if they experience suicidal thoughts or behaviors, they should stop taking ZEPBOUND [see *Warnings and Precautions (5.9)*].

### Pulmonary Aspiration During General Anesthesia or Deep Sedation

Inform patients that ZEPBOUND may cause their stomach to empty more slowly which may lead to complications with anesthesia or deep sedation during planned surgeries or procedures. Instruct patients to inform healthcare providers prior to any planned surgeries or procedures if they are taking ZEPBOUND [see *Warnings and Precautions (5.10)*].

### Pregnancy

Advise a pregnant patient of the potential risk to a fetus. Advise patients to inform their healthcare provider if they are pregnant or intend to become pregnant during treatment with ZEPBOUND. Advise patients that there will be a pregnancy exposure registry that monitors pregnancy outcomes in women exposed to ZEPBOUND during pregnancy [see *Use in Specific Populations (8.1)*].

### Contraception

Use of ZEPBOUND may reduce the efficacy of oral hormonal contraceptives. Advise patients using oral hormonal contraceptives to switch to a non-oral contraceptive method or add a barrier method of contraception for 4 weeks after initiation with ZEPBOUND and for 4 weeks after each dose escalation [see *Drug Interactions (7.2)*, *Use in Specific Populations (8.3)*, and *Clinical Pharmacology (12.3)*].

### Administration

Instruct patients how to prepare and administer the correct dose of ZEPBOUND and assess their ability to inject subcutaneously to ensure the proper administration of ZEPBOUND. Instruct patients using the single-dose vial to use a syringe appropriate for dose administration (e.g., a 1 mL syringe capable of measuring a 0.5 mL dose) [see *Dosage and Administration (2.4)*].

### Missed Doses

Inform patients if a dose is missed, it should be administered as soon as possible within 4 days after the missed dose. If more than 4 days have passed, the missed dose should be skipped and the next dose should be administered on the regularly scheduled day. In each case, inform patients to resume their regular once weekly dosing schedule [see *Dosage and Administration (2.3)*].

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