

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

WELIREG® (belzutifan) tablets, for oral use
Initial U.S. Approval: 2021

WARNING: EMBRYO-FETAL TOXICITY

See full prescribing information for complete boxed warning.

- Exposure to WELIREG during pregnancy can cause embryo-fetal harm.
- Verify pregnancy status prior to the initiation of WELIREG.
- Advise patients of these risks and the need for effective non-hormonal contraception. WELIREG can render some hormonal contraceptives ineffective. (5.4, 7.2, 8.1, 8.3)

RECENT MAJOR CHANGES

Indications and Usage (1.2) 09/2026
Dosage and Administration (2.1, 2.2) 09/2026
Warnings and Precautions (5.1, 5.2, 5.3) 09/2026

INDICATIONS AND USAGE

WELIREG is a hypoxia-inducible factor inhibitor indicated:
von Hippel-Lindau disease

- for treatment of adult patients with von Hippel-Lindau (VHL) disease who require therapy for associated renal cell carcinoma (RCC), central nervous system (CNS) hemangioblastomas, or pancreatic neuroendocrine tumors (pNET), not requiring immediate surgery. (1.1)

Renal Cell Carcinoma with a Clear Cell Component

- in combination with pembrolizumab or pembrolizumab and bevacizumab or bevacizumab and pembrolizumab, for the adjuvant treatment of adult patients with renal cell carcinoma with a clear cell component (ccRCC) at intermediate-high or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions. (1.2)
- in combination with lenvatinib for the treatment of adult patients with advanced ccRCC following a programmed death receptor-1 (PD-1) or programmed death-ligand 1 (PD-L1) inhibitor. (1.2)
- as monotherapy, for treatment of adult patients with advanced ccRCC following a PD-1 or PD-L1 inhibitor and a vascular endothelial growth factor tyrosine kinase inhibitor (VEGF-TKI). (1.2)

Pheochromocytoma or Paraganglioma

- for treatment of adult and pediatric patients 12 years and older with locally advanced, unresectable, or metastatic pheochromocytoma or paraganglioma (PPGL). (1.3)

DOSAGE AND ADMINISTRATION

The recommended dosage of WELIREG in adult patients is 120 mg administered orally once daily with or without food. (2.1)

The recommended dosage of WELIREG in pediatric patients 12 years and older is based on bodyweight:

- Patients weighing 40 kg or greater: 120 mg orally once daily (2.1)
- Patients weighing less than 40 kg: 80 mg orally once daily (2.1)

DOSAGE FORMS AND STRENGTHS

Tablets: 40 mg (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- Anemia: Monitor for anemia before initiation of and periodically throughout treatment with WELIREG. Withhold, reduce dose, or permanently discontinue WELIREG based on severity. (2.2, 5.1)
- Hypoxia: Monitor oxygen saturation before initiation of, and periodically throughout, treatment with WELIREG. For hypoxia at rest, withhold until resolved, resume at reduced dose, or discontinue depending on severity. For life-threatening hypoxia, permanently discontinue WELIREG. (2.2, 5.2)
- Cardiac Dysfunction with Concomitant Use of WELIREG and Lenvatinib: Consider assessment of baseline left ventricular ejection fraction (LVEF). Monitor for symptoms of heart failure and, if present, assess LVEF. Withhold, reduce dose, or permanently discontinue WELIREG based on severity. (2.2, 5.3)

ADVERSE REACTIONS

VHL disease: Most common (≥25%) adverse reactions, including laboratory abnormalities, were decreased hemoglobin, fatigue, increased creatinine, headache, dizziness, increased glucose, and nausea. (6.1)

ccRCC:

- Most common (≥25%) adverse reactions for WELIREG, including laboratory abnormalities, in combination with pembrolizumab were decreased hemoglobin, increased alanine aminotransferase (ALT), fatigue, increased aspartate aminotransferase (AST), decreased lymphocytes, and increased alkaline phosphatase. (6.1)
- Most common (≥25%) adverse reactions for WELIREG in combination with lenvatinib, including laboratory abnormalities were decreased hemoglobin, fatigue, increased AST, hypertension, increased ALT, musculoskeletal pain, diarrhea, decreased lymphocytes, decreased sodium, increased creatinine, nausea, hypothyroidism, decreased appetite, decreased platelets, increased potassium, increased lipase, proteinuria, decreased magnesium, decreased calcium, increased activated partial thromboplastin time, rash, vomiting, decreased weight, constipation, abdominal pain, and stomatitis. (6.1)
- Most common (≥25%) adverse reactions for WELIREG as monotherapy, including laboratory abnormalities were decreased hemoglobin, fatigue, musculoskeletal pain, increased creatinine, decreased lymphocytes, increased ALT, decreased sodium, increased potassium, and increased AST. (6.1)

PPGL: Most common (≥25%) adverse reactions, including laboratory abnormalities were anemia, fatigue, musculoskeletal pain, decreased lymphocytes, increased ALT, increased AST, increased calcium, dyspnea, increased potassium, decreased leukocytes, headache, increased alkaline phosphatase, dizziness, and nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Merck Sharp & Dohme LLC at 1-877-888-4231 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

UGT2B17 or CYP2C19 Inhibitors: Monitor for signs and symptoms of anemia and hypoxia and reduce the dosage of WELIREG as recommended. (2.2, 7.1)

Sensitive CYP3A4 Substrates: Avoid coadministration of WELIREG with sensitive CYP3A4 substrates for which minimal decrease in concentration may lead to reduced efficacy of the substrate. (7.2)

USE IN SPECIFIC POPULATIONS

- Lactation: Advise not to breastfeed. (8.2)
- Infertility: May impair fertility in males and females. (8.3)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 09/2026

FULL PRESCRIBING INFORMATION: CONTENTS*

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FULL PRESCRIBING INFORMATION

WARNING: EMBRYO-FETAL TOXICITY

- Exposure to WELIREG during pregnancy can cause embryo-fetal harm.
- Verify pregnancy status prior to the initiation of WELIREG.
- Advise patients of these risks and the need for effective non-hormonal contraception. WELIREG can render some hormonal contraceptives ineffective [see *Warnings and Precautions (5.4), Drug Interactions (7.2), Use in Specific Populations (8.1, 8.3)*].

1 INDICATIONS AND USAGE

1.1 von Hippel-Lindau disease

WELIREG is indicated for treatment of adult patients with von Hippel-Lindau (VHL) disease who require therapy for associated renal cell carcinoma (RCC), central nervous system (CNS) hemangioblastomas, or pancreatic neuroendocrine tumors (pNET), not requiring immediate surgery.

1.2 Renal Cell Carcinoma with a Clear Cell Component

- WELIREG, in combination with pembrolizumab or pembrolizumab and berahyaluronidase alfa-pmph, is indicated for the adjuvant treatment of adult patients with renal cell carcinoma with a clear cell component (ccRCC) at intermediate-high or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions.
- WELIREG, in combination with lenvatinib, is indicated for the treatment of adult patients with advanced ccRCC following a programmed death receptor-1 (PD-1) or programmed death-ligand 1 (PD-L1) inhibitor.
- WELIREG, as monotherapy, is indicated for the treatment of adult patients with advanced ccRCC following a PD-1 or PD-L1 inhibitor and a vascular endothelial growth factor tyrosine kinase inhibitor (VEGF-TKI).

1.3 Pheochromocytoma or Paraganglioma

WELIREG is indicated for the treatment of adult and pediatric patients 12 years and older with locally advanced, unresectable, or metastatic pheochromocytoma or paraganglioma (PPGL).

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dosages for WELIREG are listed in Table 1.

Table 1: Recommended Dosage

Indication	Recommended WELIREG Dosage	Duration of Therapy
von Hippel-Lindau Disease	120 mg orally once daily.	Until disease progression or unacceptable toxicity.
Adjuvant Treatment of ccRCC	120 mg orally once daily in combination with pembrolizumab or pembrolizumab and berahyaluronidase alfa-pmph. ¹	Until disease recurrence or unacceptable toxicity, or up to 54 weeks.
Advanced ccRCC	120 mg orally once daily as monotherapy or in combination with lenvatinib. ¹	Until disease progression or unacceptable toxicity.
Pheochromocytoma or Paraganglioma	Adults: • 120 mg orally once daily.	Until disease progression or unacceptable toxicity.

	Pediatric patients 12 years and older based on bodyweight: • Patients weighing 40 kg or greater: 120 mg orally once daily. • Patients weighing less than 40 kg: 80 mg orally once daily.	
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¹ Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for dosing and administration information.

Administration Instructions

WELIREG should be taken at the same time each day and may be taken with or without food [see *Clinical Pharmacology* (12.3)].

Advise patients to swallow tablets whole. Do not chew, crush, or split WELIREG prior to swallowing.

If a dose of WELIREG is missed, it can be taken as soon as possible on the same day. Resume the regular daily dose schedule for WELIREG the next day. Do not take extra tablets to make up for the missed dose.

If vomiting occurs any time after taking WELIREG, do not retake the dose. Take the next dose on the next day.

2.2 Dosage Modifications for Adverse Reactions

Dosage modifications for WELIREG for adverse reactions are summarized in Table 2 and Table 3.

The recommended dose reductions are:

- First dose reduction: WELIREG 80 mg orally once daily
- Second dose reduction: WELIREG 40 mg orally once daily
- Third dose reduction: Permanently discontinue

Table 2: Recommended Dosage Modifications for Adverse Reactions

Adverse Reaction	Severity	Dosage Modification
Anemia [see <i>Warnings and Precautions</i> (5.1)]	Adjuvant ccRCC Indication:	
	Hemoglobin <9 g/dL or transfusion indicated	• Withhold WELIREG until hemoglobin ≥9 g/dL. • Resume WELIREG at the same or reduced dose; or discontinue depending on the severity of anemia.
	Life-threatening or urgent intervention indicated	• Withhold WELIREG until hemoglobin ≥9 g/dL. • Resume WELIREG at a reduced dose once resolved, or permanently discontinue.
	All Other Indications:	
	Hemoglobin <8 g/dL or transfusion indicated	• Withhold WELIREG until hemoglobin ≥8 g/dL. • Resume WELIREG at the same or reduced dose; or discontinue depending on the severity of anemia.
	Life-threatening or urgent intervention indicated	• Withhold WELIREG until hemoglobin ≥8 g/dL. • Resume WELIREG at a reduced dose once resolved, or permanently discontinue.

Hypoxia [see Warnings and Precautions (5.2)]	Decreased oxygen saturation with exercise (e.g., pulse oximeter <88%)	- Consider withholding WELIREG until resolved. - Resume WELIREG at the same dose or at a reduced dose depending on the severity of hypoxia.
	Decreased oxygen saturation at rest (e.g., pulse oximeter <88% or PaO ₂ ≤55 mm Hg) or urgent intervention indicated	- Withhold WELIREG until resolved. - Resume WELIREG at reduced dose or discontinue depending on the severity of hypoxia.
	Life-threatening or recurrent symptomatic hypoxia	Permanently discontinue WELIREG.
Other Adverse Reactions [see Adverse Reactions (6)]	Grade 3	- Withhold WELIREG until resolved to ≤ Grade 2. - Consider resuming WELIREG at a reduced dose (reduce by 40 mg). - Permanently discontinue WELIREG upon recurrence of Grade 3.
	Grade 4	Permanently discontinue WELIREG.

Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for dosage modifications for adverse reactions.

Additional recommended dosage modifications for adverse reactions when WELIREG is administered in combination with lenvatinib are provided in Table 3.

Table 3: Recommended Dosage Modifications for Adverse Reactions for WELIREG in Combination with Lenvatinib

Adverse Reaction	Severity	Dosage Modification
Cardiac Dysfunction [see Warnings and Precautions (5.3)]	Grade 3	- Withhold both WELIREG and lenvatinib until LVEF improves to baseline or Grade 1. - Resume WELIREG and lenvatinib at a reduced dose or permanently discontinue depending on the severity and persistence of adverse reaction.
	Grade 4	Permanently discontinue both WELIREG and lenvatinib.

Refer to the Prescribing Information of lenvatinib for additional dosage modifications for adverse reactions.

3 DOSAGE FORMS AND STRENGTHS

Tablets: 40 mg, blue, oval shaped, film-coated, debossed with “177” on one side and plain on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Anemia

WELIREG can cause severe anemia that can require blood transfusion.

Monitor for anemia before initiation of, and periodically throughout, treatment with WELIREG. Transfuse patients as clinically indicated. Withhold, reduce dose, or permanently discontinue WELIREG based on severity [see Dosage and Administration (2.2)].

von Hippel-Lindau (VHL) disease

In LITESPARK-004, decreased hemoglobin occurred in 93% of patients and 7% had Grade 3 events [see *Adverse Reactions* (6.1)]. Median time to onset of anemia was 31 days (range: 1 day to 8.4 months).

The safety of erythropoiesis stimulating agents (ESAs) for treatment of anemia in patients with VHL disease treated with WELIREG has not been established. Randomized controlled trials in patients with cancer receiving myelosuppressive chemotherapy with ESAs have shown that ESAs increased the risks of death and serious cardiovascular reactions, and decreased progression-free survival and/or overall survival. See the prescribing information for ESAs for more information.

Renal Cell Carcinoma with a Clear Cell Component (ccRCC)

In LITESPARK-005, decreased hemoglobin occurred in 88% of patients and 29% had Grade 3 events [see *Adverse Reactions* (6.1)]. Median time to onset of anemia was 29 days (range: 1 day to 16.6 months). Of the patients with anemia, 22% received transfusions only, 20% of patients received ESAs only and 12% received both transfusion and ESAs.

In LITESPARK-022, decreased hemoglobin occurred in 95% of patients receiving WELIREG in combination with pembrolizumab and 11% had Grade 3 or higher events [see *Adverse Reactions* (6.1)]. Median time to onset of anemia was 42 days (range: 1 day to 11.1 months). Of the patients with anemia, 5% received transfusions only, 8% received ESAs only, and 1.3% received both transfusion and ESAs.

In LITESPARK-011, decreased hemoglobin occurred in 87% of patients receiving WELIREG in combination with lenvatinib and 20% had Grade 3 events or required transfusion [see *Adverse Reactions* (6.1)]. Median time to onset of anemia was 56 days (range: 1 day to 33 months). Of the patients with anemia, 15% of patients received transfusions only, 22% received ESAs only, and 8% received both transfusion and ESAs.

Pheochromocytoma or Paraganglioma (PPGL)

In LITESPARK-015, anemia occurred in 96% of patients and 22% had Grade 3 events [see *Adverse Reactions* (6.1)]. Median time to onset of anemia was 29 days (range: 1 day to 22.1 months). Of the patients with anemia, 20% received transfusions only, 26% received ESAs only, and 6% received both transfusion and ESAs.

5.2 Hypoxia

WELIREG can cause severe hypoxia that may require discontinuation, supplemental oxygen, or hospitalization [see *Dosage and Administration* (2.2)].

Monitor oxygen saturation before initiation of, and periodically throughout, treatment with WELIREG. For decreased oxygen saturation with exercise (e.g., pulse oximeter <88% or PaO₂ ≤55 mm Hg), consider withholding WELIREG until pulse oximetry with exercise is greater than 88%, then resume at the same dose or at a reduced dose. For decreased oxygen saturation at rest (e.g., pulse oximeter <88% or PaO₂ ≤55 mm Hg) or urgent intervention indicated, withhold WELIREG until resolved and resume at a reduced dose or discontinue. For life-threatening hypoxia or for recurrent symptomatic hypoxia, permanently discontinue WELIREG [see *Dosage and Administration* (2.2)].

Advise patients to report signs and symptoms of hypoxia immediately to a healthcare provider.

von Hippel-Lindau (VHL) disease

In LITESPARK-004, hypoxia occurred in 1.6% of patients [see *Adverse Reactions* (6.1)].

Renal Cell Carcinoma with a Clear Cell Component (ccRCC)

In LITESPARK-005, hypoxia occurred in 15% of patients and 10% had Grade 3 events [see *Adverse Reactions* (6.1)]. Of the patients with hypoxia, 69% were treated with oxygen therapy. Median time to onset of hypoxia was 30.5 days (range: 1 day to 21.1 months).

In LITESPARK-022, hypoxia occurred in 7% of patients receiving WELIREG in combination with pembrolizumab and 5% had Grade 3 or higher events [see *Adverse Reactions* (6.1)]. Of the patients with

hypoxia, 47% were treated with oxygen therapy. Median time to onset of hypoxia was 93 days (range: 9 days to 11.7 months).

In LITESPARK-011, hypoxia occurred in 16% of patients receiving WELIREG in combination with lenvatinib 12% had Grade 3-4 events [see *Adverse Reactions (6.1)*]. Of the patients with hypoxia, 62% of patients were treated with oxygen therapy. Median time to onset was 63 days (range: 4 days to 25 months).

Pheochromocytoma or Paraganglioma (PPGL)

In LITESPARK-015, hypoxia occurred in 13% of patients and 10% had Grade 3 hypoxia [see *Adverse Reactions (6.1)*]. Median time to onset of hypoxia was 35 days (range: 6 days to 23.9 months). Of the patients with hypoxia, 67% were treated with oxygen therapy.

5.3 Cardiac Dysfunction with Concomitant Use of WELIREG and Lenvatinib

Serious cardiac dysfunction, including heart failure with reduced left ventricular ejection fraction (LVEF), and cardiomyopathy, can occur with WELIREG in combination with lenvatinib. The safety of WELIREG in combination with lenvatinib has not been established in patients with LVEF below 50%.

In patients treated with WELIREG in combination with lenvatinib in the LITESPARK-011 trial, Grade 3 or higher cardiac dysfunction adverse events occurred in 6% of patients. The median time to onset of Grade 3 or higher cardiac dysfunction was 26 weeks (range: 1 to 192 weeks). An absolute decrease in LVEF >20% with or without clinical symptoms occurred in 6% of patients. The median time to onset of LVEF decrease >20% was 29 weeks (range: 2 to 192 weeks).

Consider obtaining a baseline echocardiogram or Multigated Acquisition (MUGA) imaging. Monitor patients for symptoms or signs of heart failure and if present, reassess LVEF. Withhold and resume at a reduced dose upon recovery to baseline or Grade 1 or permanently discontinue WELIREG in combination with lenvatinib based on severity [see *Dosage and Administration (2.2)*].

5.4 Embryo-Fetal Toxicity

Based on findings in animals, WELIREG can cause fetal harm when administered to a pregnant woman. In an animal reproduction study, oral administration of belzutifan to pregnant rats during the period of organogenesis caused embryo-fetal lethality, reduced fetal body weight, and fetal skeletal malformations at maternal exposures ≥ 0.2 times the human exposures (AUC) at the recommended dose of 120 mg daily.

Advise pregnant women and females of reproductive potential of the potential risk to the fetus. Advise females of reproductive potential to use effective non-hormonal contraception during treatment with WELIREG and for 1 week after the last dose, since WELIREG can render some hormonal contraceptives ineffective [see *Drug Interactions (7.2)*]. Advise male patients with female partners of reproductive potential to use effective contraception during treatment with WELIREG and for 1 week after the last dose [see *Use in Specific Populations (8.1, 8.3)*].

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are discussed elsewhere in the labeling:

- Anemia [see *Warnings and Precautions (5.1)*]
- Hypoxia [see *Warnings and Precautions (5.2)*]
- Cardiac Dysfunction with Concomitant Use of WELIREG and Lenvatinib [see *Warnings and Precautions (5.3)*]

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.

von Hippel-Lindau (VHL) disease

LITESPARK-004

The safety of WELIREG was evaluated in an open-label clinical trial (LITESPARK-004) in 61 patients with VHL disease who had at least one measurable solid tumor localized to the kidney [see *Clinical Studies (14.1)*]. Patients received WELIREG 120 mg orally once daily until disease progression or unacceptable toxicity. The median duration of exposure to WELIREG was 68 weeks (range: 8.4 to 104.7 weeks).

Serious adverse reactions occurred in 15% of patients who received WELIREG, including anemia, hypoxia, anaphylaxis reaction, retinal detachment, and central retinal vein occlusion (1 patient each).

Permanent discontinuation of WELIREG due to adverse reactions occurred in 3.3% of patients. Adverse reactions which resulted in permanent discontinuation of WELIREG were dizziness and opioid overdose (1.6% each).

Dosage interruptions of WELIREG due to an adverse reaction occurred in 39% of patients. Adverse reactions which required dosage interruption in >2% of patients were fatigue, decreased hemoglobin, anemia, nausea, abdominal pain, headache, and influenza-like illness.

Dose reductions of WELIREG due to an adverse reaction occurred in 13% of patients. The most frequently reported adverse reaction which required dose reduction was fatigue (7%).

The most common (≥25%) adverse reactions, including laboratory abnormalities, that occurred in patients who received WELIREG were decreased hemoglobin, fatigue, increased creatinine, headache, dizziness, increased glucose, and nausea.

Table 4 summarizes the adverse reactions reported in patients treated with WELIREG in LITESPARK-004.

Table 4: Adverse Reactions Occurring in ≥10% of Patients Who Received WELIREG in LITESPARK-004

Adverse Reaction	WELIREG (n=61)	
	All Grades ⁺ (%)	Grade 3-4 (%)
General		
Fatigue [†]	64	5
Nervous system		
Headache [†]	39	0
Dizziness [†]	38	0
Gastrointestinal		
Nausea	31	0
Constipation	13	0
Abdominal pain [†]	13	0
Eye Disorders		
Visual impairment [‡]	21	3.3
Infections		
Upper respiratory tract infection [†]	21	0
Respiratory, Thoracic and Mediastinal		
Dyspnea	20	1.6
Musculoskeletal and Connective Tissue		
Arthralgia	18	0
Myalgia	16	0
Vascular		
Hypertension	13	3.3
Metabolism and Nutrition		

Weight increased	12	1.6
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*Graded per NCI CTCAE v4.0

†Includes other related terms

‡Includes visual impairment, vision blurred, central retinal vein occlusion and retinal detachment

Table 5 summarizes the laboratory abnormalities in LITESPARK-004.

Table 5: Select Laboratory Abnormalities ($\geq 10\%$) That Worsened from Baseline in Patients Who Received WELIREG in LITESPARK-004

Laboratory Abnormality*	WELIREG (n=61)	
	Grades 1-4 %	Grades 3-4 %
Hematology		
Decreased hemoglobin	93	7
Decreased leukocytes	11	0
Chemistry		
Increased creatinine	64	0
Increased glucose	34	4.9
Increased ALT	20	0
Increased AST	16	0
Decreased calcium (corrected)	10	0
Decreased phosphate	10	1.6

*The denominator used to calculate the rate is based on all patients in the safety analysis population.

Renal Cell Carcinoma with a Clear Cell Component (ccRCC)

LITESPARK-022

The safety of WELIREG in combination with intravenous pembrolizumab versus placebo in combination with intravenous pembrolizumab was investigated in LITESPARK-022, a randomized, double-blind trial in 1,828 patients who had undergone nephrectomy for ccRCC [see *Clinical Studies (14.2)*]. Patients received either WELIREG 120 mg orally once daily in combination with pembrolizumab 400 mg intravenously every 6 weeks (n=915), or oral placebo in combination with pembrolizumab 400 mg intravenously every 6 weeks (n=913) for up to 9 cycles (54 weeks) until disease recurrence or unacceptable toxicity. The median duration of exposure to WELIREG was 12.4 months (range: 1 day to 20.1 months).

Serious adverse reactions occurred in 30% of patients who received WELIREG in combination with pembrolizumab. Serious adverse reactions in $\geq 1\%$ of patients included pneumonia (2%), hypoxia (1.9%), pneumonitis (1.6%), arrhythmia (1.5%), diarrhea (1.1%), and acute kidney injury (1.1%). Fatal adverse reactions occurred in 1.1% of patients who received WELIREG in combination with pembrolizumab, including sepsis (0.1%).

Permanent discontinuation of WELIREG due to adverse reactions occurred in 27% of patients. Adverse reactions which resulted in permanent discontinuation of WELIREG in $\geq 1\%$ of patients included anemia (4%), fatigue (2.2%), rash (2%), increased ALT (1.7%), hypoxia (1.6%), diarrhea (1.4%), pneumonitis (1.3%), increased AST (1.1%), and hepatic function abnormal (1%).

Dosage interruptions of WELIREG due to an adverse reaction occurred in 52% of patients. Adverse reactions which required dosage interruption of WELIREG in $\geq 2\%$ of patients included anemia (25%), fatigue (3.7%), increased ALT (3.5%), diarrhea (3.4%), increased AST (3.4%), COVID-19 (2.6%), hypoxia (2.5%), pyrexia (2.5%), musculoskeletal pain (2.1%), and rash (2.1%).

Dose reductions of WELIREG due to an adverse reaction occurred in 34% of patients. Adverse reactions which required dose reduction in $\geq 3\%$ of patients included anemia (17%), hypoxia (3.5%), increased ALT (3.2%), and fatigue (3.1%).

The most common ($\geq 25\%$) adverse reactions, including laboratory abnormalities, in patients who received WELIREG in combination with pembrolizumab were decreased hemoglobin, increased ALT, fatigue, increased AST, decreased lymphocytes, and increased alkaline phosphatase.

Tables 6 and 7 summarize the adverse reactions and laboratory abnormalities, respectively, in LITESPARK-022.

Table 6: Adverse Reactions ($\geq 10\%$) in Patients with ccRCC Who Received WELIREG in Combination with Pembrolizumab [at a Higher Incidence (Between Arm Difference of $\geq 4\%$) Compared to Control] in LITESPARK-022

Adverse Reaction	WELIREG plus Pembrolizumab (n=915)		Placebo plus Pembrolizumab (n=913)	
	All Grades* (%)	Grade 3-4 (%)	All Grades* (%)	Grade 3-4 (%)
General				
Fatigue [†]	49	3.1	33	0.7
Gastrointestinal				
Diarrhea [†]	23	3	18	2.4
Nausea	16	0.3	12	0.2
Nervous system				
Dizziness [†]	23	0.4	10	0.1
Headache	17	0.7	11	0.1
Respiratory, thoracic, and mediastinal				
Dyspnea [†]	12	0.9	6	0.1

* Graded per NCI CTCAE v5.0

[†] Includes other related terms

Clinically relevant adverse reactions in $<10\%$ of patients who received WELIREG in combination with pembrolizumab included hypertension (7%), hypoxia (7%), visual impairment (6.1%), arrhythmia (5%), hemorrhage (4.6%), chest discomfort (2.6%), and palpitations (1.9%).

Table 7: Select Laboratory Abnormalities ($\geq 20\%$) That Worsened from Baseline In Patients with ccRCC Who Received WELIREG in Combination With Pembrolizumab [at a Higher Incidence (Between Arm Difference of $\geq 10\%$) Compared to Control] in LITESPARK-022

Laboratory Test*	WELIREG plus Pembrolizumab		Placebo plus Pembrolizumab	
	All Grades [†] %	Grades 3-4 %	All Grades [†] %	Grades 3-4 %
Hematology				
Decreased hemoglobin	95	11	26	0.7
Decreased lymphocytes	38	9	25	7
Chemistry				
Increased ALT	57	13	33	3.2
Increased AST	46	8	29	3.1
Increased alkaline phosphatase	29	2.3	18	0.4

* Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: WELIREG + pembrolizumab (range: 907 to 911 patients), and placebo + pembrolizumab (range: 905 to 912 patients).

[†] Graded per NCI CTCAE v5.0

LITESPARK-011

The safety of WELIREG in combination with lenvatinib was evaluated in patients with advanced ccRCC that progressed on or after receiving a PD-1 or PD-L1 inhibitor in LITESPARK-011 [see *Clinical Studies* (14.2)]. Patients received WELIREG 120 mg in combination with lenvatinib 20 mg (n=370), or cabozantinib 60 mg (n=371) orally once daily until disease progression or unacceptable toxicity.

The median duration of exposure to WELIREG was 15.8 months (range: 1 day to 50.6 months).

Serious adverse reactions occurred in 54% of patients who received WELIREG in combination with lenvatinib. Serious adverse reactions in $\geq 2\%$ of patients included hypoxia (6%), pneumonia (5%), hyponatremia (3.2%), acute kidney injury (3%), hemorrhage (2.7%), anemia (2.7%), cardiac failure (2.4%), and diarrhea (2.4%).

Fatal adverse reactions occurred in 5% of patients who received WELIREG in combination with lenvatinib, including sepsis (0.8%), pneumonia (0.5%), pneumonitis (0.5%), respiratory failure (0.5%), and one case (0.3%) each of acute cholecystitis, acute respiratory distress syndrome, pulmonary edema, embolic cerebral infarction, hemorrhage, postoperative wound complication, thrombotic microangiopathy and upper respiratory tract infection.

Permanent discontinuation of WELIREG due to an adverse reaction occurred in 17% of patients. Adverse reactions which resulted in permanent discontinuation of WELIREG in $>0.5\%$ of patients included hypoxia (2.2%), pneumonia (1.1%), fatigue (0.8%), hyponatremia (0.8%), pneumonitis (0.8%), and respiratory failure (0.8%).

Dosage interruptions of WELIREG due to an adverse reaction occurred in 69% of patients. Adverse reactions which required dosage interruption in $>3\%$ of patients included fatigue (14%), diarrhea (12%), anemia (9%), vomiting (9%), hypertension (9%), nausea (8%), decreased appetite (5%), abdominal pain (4.6%), COVID-19 (4.6%), musculoskeletal pain (4.1%), pneumonia (3.5%), hypoxia (3.5%), and hemorrhage (3.5%).

Dose reductions of WELIREG due to an adverse reaction occurred in 35% of patients. Adverse reactions which required dose reductions in $>2\%$ of patients included fatigue (7%), hypoxia (7%), anemia (6%), diarrhea (3%), and dyspnea (2.4%).

The most common ($\geq 25\%$) adverse reactions, including laboratory abnormalities, that occurred in patients who received WELIREG in combination with lenvatinib were decreased hemoglobin, fatigue, increased AST, hypertension, increased ALT, musculoskeletal pain, diarrhea, decreased lymphocytes, decreased sodium, increased creatinine, nausea, hypothyroidism, decreased appetite, decreased platelets, increased potassium, increased lipase, proteinuria, decreased magnesium, decreased calcium, increased activated partial thromboplastin time, rash, vomiting, decreased weight, constipation, abdominal pain, and stomatitis.

Tables 8 and 9 summarize the adverse reactions and laboratory abnormalities, respectively, in LITESPARK-011.

Table 8: Adverse Reactions ($\geq 15\%$) in Patients with Advanced ccRCC Who Received WELIREG in Combination with Lenvatinib in LITESPARK-011

Adverse Reaction	WELIREG plus Lenvatinib (n=370)		Cabozantinib (n=371)	
	All Grades* (%)	Grade 3-4 (%)	All Grades* (%)	Grade 3-4 (%)
General				
Fatigue [†]	68	16	60	9
Edema [†]	17	0.3	10	0.3
Vascular				
Hypertension [†]	60	33	58	30
Hemorrhage [†]	20	3	16	3

Musculoskeletal and connective tissue				
Musculoskeletal pain [†]	55	5	43	4
Gastrointestinal				
Diarrhea [†]	54	8	71	11
Nausea	42	3.8	39	1.1
Vomiting [†]	32	0.8	17	1.1
Constipation	27	0.8	23	0
Abdominal pain [†]	26	1.6	27	1.9
Stomatitis [†]	25	1.9	46	5
Endocrine				
Hypothyroidism [†]	42	0.3	37	0
Metabolism and nutrition				
Decreased appetite	41	2.7	40	3.5
Renal and urinary				
Proteinuria	38	10	20	3.5
Skin and subcutaneous tissue				
Rash [†]	33	2.7	61	10
Investigations				
Weight decreased	29	5	30	6
Nervous system				
Headache [†]	24	0.5	13	0
Dizziness [†]	16	0.8	11	0.3
Respiratory, Thoracic and Mediastinal				
Cough [†]	19	0	18	0.5
Dyspnea [†]	17	1.9	11	1.1
Hypoxia	16	12	0	0

* Graded per NCI CTCAE v5.0

† Includes other related terms

Clinically relevant adverse reactions occurring in <15% of patients who received WELIREG in combination with lenvatinib included COVID-19 (14%), dysphonia (14%), dysgeusia (14%), urinary tract infection (14%), pruritus (12%), pyrexia (11%), and arrhythmia (9%).

Table 9: Select Laboratory Abnormalities (≥20%) That Worsened from Baseline In Patients with Advanced ccRCC Who Received WELIREG in Combination with Lenvatinib in LITESPARK-011

Laboratory Test*	WELIREG plus Lenvatinib		Cabozantinib	
	All Grades [†] %	Grades 3-4 %	All Grades [†] %	Grades 3-4 %
Hematology				
Decreased hemoglobin	87	17	50	7
Decreased lymphocytes	53	15	45	18
Decreased platelets	40	1.9	43	0.3
Increased activated partial thromboplastin time	34	2.5	27	2.5
Decreased neutrophils	21	4.9	29	3.8
Chemistry				
Increased AST	65	7	84	6
Increased ALT	56	7	77	7
Decreased sodium	47	7	49	4.6
Increased creatinine	42	3.8	36	2.4
Increased potassium	39	5	38	6
Increased lipase	38	15	50	17
Decreased magnesium	37	1.4	51	4.7
Decreased calcium	35	2.4	62	3.5
Decreased potassium	23	3.5	26	5
Increased calcium	20	0.3	11	0.5

* Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: WELIREG + lenvatinib (range: 319 to 368 patients), and cabozantinib (range: 320 to 371 patients).

† Graded per NCI CTCAE v5.0

LITESPARK-005

The safety of WELIREG was evaluated in a randomized, active-controlled study (LITESPARK- 005) in 732 patients with advanced ccRCC that has progressed after prior PD-1 or PD-L1 checkpoint inhibitor and VEGF receptor targeted therapies [see *Clinical Studies* (14.2)]. Patients received 120 mg WELIREG (n=372) or 10 mg everolimus (n=360) orally once daily until disease progression or unacceptable toxicity. The median duration of exposure to WELIREG was 7.6 months (range: 0.1 to 28.5 months).

Serious adverse reactions occurred in 38% of patients who received WELIREG. Serious adverse reactions in ≥2% of patients treated with WELIREG were hypoxia (7%), anemia (5%), pneumonia (3.5%), hemorrhage (3%), and pleural effusion (2.2%). Fatal adverse reactions occurred in 3.2% of patients who received WELIREG, including sepsis (0.5%) and hemorrhage (0.5%).

Permanent discontinuation of WELIREG due to adverse reactions occurred in 6% of patients. Adverse reactions which resulted in permanent discontinuation (≥0.5%) of WELIREG were hypoxia (1.1%), anemia (0.5%), and hemorrhage (0.5%).

Dosage interruptions of WELIREG due to an adverse reaction occurred in 39% of patients. Adverse reactions which required dosage interruption in ≥2% of patients were anemia (8%), hypoxia (5%), COVID-19 (4.3%), fatigue (3.2%), and hemorrhage (2.2%).

Dose reductions of WELIREG due to an adverse reaction occurred in 13% of patients. Adverse reactions which required dose reduction in ≥1% of patients were hypoxia (5%) and anemia (3.2%).

The most common (≥25%) adverse reactions, including laboratory abnormalities, that occurred in patients who received WELIREG were decreased hemoglobin, fatigue, musculoskeletal pain, increased creatinine, decreased lymphocytes, increased alanine aminotransferase, decreased sodium, increased potassium, and increased aspartate aminotransferase.

Table 10 summarizes the adverse reactions in LITESPARK-005.

Table 10: Adverse Reactions (≥10%) in Patients with Advanced RCC Receiving WELIREG in LITESPARK-005

Adverse Reaction	WELIREG (n=372)		Everolimus (n=360)	
	All Grades* (%)	Grade 3-4 (%)	All Grades* (%)	Grade 3-4 (%)
General				
Fatigue†	43	3.2	41	6
Edema†	20	0.5	23	0.6
Musculoskeletal and Connective Tissue				
Musculoskeletal Pain†	34	1.1	27	2.2
Gastrointestinal				
Nausea	17	0.5	11	0.3
Constipation	15	0	8	0
Vomiting	11	0.8	8	0.8
Diarrhea†	11	1.3	19	1.4
Abdominal Pain†	10	0.8	8	0.3
Respiratory, Thoracic, and Mediastinal				
Dyspnea†	16	1.6	16	2.5
Hypoxia	15	10	1.4	1.4
Metabolism and Nutrition				
Decreased Appetite	13	1.1	16	0
Nervous System				
Headache†	12	0.5	8	0.3
Dizziness†	11	0	1.9	0

* Graded per NCI CTCAE v5.0

† Includes other related terms

Clinically relevant adverse reactions in <10% of patients who received WELIREG in LITESPARK-005 included hemorrhage (9%) [including intracranial/cerebral hemorrhage (0.8%)], rash (8%), hypertension

(6%), visual impairment [including vision blurred (4%), visual acuity decreased (1.1%), visual impairment (0.5%), and retinal detachment (0.3%)] (6%) and increased weight (5%).

Table 11 summarizes the laboratory abnormalities in LITESPARK-005.

Table 11: Select Laboratory Abnormalities (≥20%) That Worsened from Baseline In Patients with Advanced RCC who Received WELIREG in LITESPARK-005

Laboratory Test*	WELIREG		Everolimus	
	All Grades [†] %	Grades 3-4 %	All Grades [†] %	Grades 3-4 %
Hematology				
Decreased hemoglobin	88	29	76	17
Decreased lymphocytes	34	8	53	20
Chemistry				
Increased creatinine	34	4.7	43	5.1
Increased alanine aminotransferase	32	2.2	40	1.1
Decreased sodium	31	1.6	36	0.8
Increased potassium	29	2.5	20	2.8
Increased aspartate aminotransferase	27	2.2	38	2
Decreased glucose	22	1.1	19	1.1
Decreased calcium	21	1.1	45	3.1

* Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: WELIREG (range: 359 to 366 patients), and everolimus (range: 351 to 356 patients).

[†] Graded per NCI CTCAE v5.0

Pheochromocytoma or Paraganglioma

LITESPARK-015

The safety of WELIREG was evaluated in an open-label clinical trial (LITESPARK-015) in 72 patients with locally advanced, unresectable, or metastatic pheochromocytoma or paraganglioma (PPGL) [see *Clinical Studies* (14.3)]. Patients received WELIREG 120 mg orally once daily until disease progression or unacceptable toxicity.

The median duration of exposure to WELIREG was 20 months (range: 0.3 to 32.5 months).

Serious adverse reactions occurred in 36% of patients who received WELIREG. Serious adverse reactions occurring in ≥2% of patients treated with WELIREG were anemia and hypertension (4.2% each) and pyelonephritis, pneumonia, hypoxia, dyspnea and hemorrhage (2.8% each).

Permanent discontinuation of WELIREG due to adverse reactions occurred in 2 patients (2.8%). Adverse reactions which resulted in permanent discontinuation of WELIREG were increased alanine aminotransferase and paraparesis (1.4% each).

Dosage interruptions of WELIREG due to an adverse reaction occurred in 40% of patients. Adverse reactions which required dosage interruption in >3% of patients were hypoxia, nausea and fatigue (4.2% each).

Dose reductions of WELIREG due to an adverse reaction occurred in 14% of patients. The most frequently reported adverse reaction which required dose reduction was hypoxia (4.2%).

The most common (≥25%) adverse reactions, including laboratory abnormalities, that occurred in patients who received WELIREG were anemia, fatigue, musculoskeletal pain, decreased lymphocytes, increased alanine aminotransferase, increased aspartate aminotransferase, increased calcium, dyspnea, increased potassium, decreased leukocytes, headache, increased alkaline phosphatase, dizziness, and nausea.

Table 12 summarizes the adverse reactions reported in patients treated with WELIREG in LITESPARK-015.

Table 12: Adverse Reactions Occurring in ≥10% of Patients with PPGL Who Received WELIREG in LITESPARK-015

Adverse Reaction	WELIREG (n=72)	
	All Grades [*] (%)	Grade 3-4 (%)
Blood and Lymphatic		
Anemia	96	22
General		
Fatigue [†]	56	10
Edema [†]	24	0
Musculoskeletal and Connective Tissue		
Musculoskeletal pain [†]	56	6
Muscle spasms	13	0
Muscle weakness	13	2.8
Respiratory, Thoracic, and Mediastinal		
Dyspnea [†]	33	1.4
Cough	15	0
Hypoxia	13	10
Nasal congestion	10	0
Nervous System		
Headache	29	1.4
Dizziness [†]	26	2.8
Peripheral neuropathy [†]	13	0
Gastrointestinal		
Nausea	25	1.4
Constipation	24	1.4
Diarrhea	15	0
Abdominal Pain [†]	13	1.4
Vomiting	10	1.4
Vascular Disorders		
Hypertension [†]	21	13
Hypotension [†]	10	2.8
Hemorrhage [†]	10	2.8
Infections		
COVID-19	17	2.8
Metabolism and Nutrition Disorders		
Decreased appetite	14	2.8
Investigations		
Weight increased	13	7
Cardiac Disorders		
Arrhythmia [†]	11	2.8
Palpitations	10	0

*Graded per NCI CTCAE v5.0

[†] Includes other related terms

Table 13 summarizes the laboratory abnormalities in LITESPARK-015.

Table 13: Select Laboratory Abnormalities ($\geq 20\%$) That Worsened from Baseline in Patients with PPGL Who Received WELIREG in LITESPARK-015

Laboratory Abnormality	WELIREG (n=72)	
	All Grades %	Grades 3 or 4 %
Hematology		
Decreased hemoglobin	90	21
Decreased lymphocytes	54	14
Decreased leukocytes	30	0
Decreased neutrophils	24	1.4
Decreased platelets	21	1.4
Chemistry		
Increased ALT	51	4.2
Increased AST	42	4.2
Increased calcium	34	0
Increased potassium	31	2.8
Increased alkaline phosphatase	25	0
Increased creatinine	24	1.4
Decreased sodium	21	0

7 DRUG INTERACTIONS

7.1 Effects of Other Drugs on WELIREG

UGT2B17 or CYP2C19 Inhibitors

Monitor for anemia and hypoxia and reduce the dosage of WELIREG as recommended [see *Dosage and Administration* (2.2), *Warnings and Precautions* (5.1, 5.2), *Adverse Reactions* (6)].

Coadministration of WELIREG with inhibitors of UGT2B17 or CYP2C19 increases belzutifan exposure [see *Clinical Pharmacology* (12.3, 12.5)], which may increase the risk of adverse reactions of WELIREG.

7.2 Effect of WELIREG on Other Drugs

CYP3A4 Substrates

Avoid coadministration of WELIREG with sensitive CYP3A4 substrates, for which minimal decrease in concentration may lead to therapeutic failures of the substrate. If coadministration cannot be avoided, increase the sensitive CYP3A4 substrate dosage in accordance with its Prescribing Information.

Coadministration of WELIREG with CYP3A4 substrates decreases concentrations of CYP3A substrates [see *Clinical Pharmacology* (12.3)], which may reduce the efficacy of these substrates. The magnitude of this decrease may be more pronounced in patients who are dual UGT2B17 and CYP2C19 poor metabolizers [see *Clinical Pharmacology* (12.3)].

Hormonal Contraceptives

Coadministration of WELIREG with hormonal contraceptives may lead to contraceptive failure or an increase in breakthrough bleeding [see *Clinical Pharmacology* (12.3), *Use in Specific Populations* (8.3)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for pregnancy information.

Based on findings in animal studies, WELIREG can cause fetal harm when administered to a pregnant woman. There are no available data on the use of WELIREG in pregnant women to inform the drug-associated risk. In an animal reproduction study, oral administration of belzutifan to pregnant rats during the period of organogenesis caused embryo-fetal lethality, reduced fetal body weight, and fetal skeletal

malformations at maternal exposures ≥ 0.2 times the human exposure (AUC) at the recommended dose of 120 mg daily (*see Data*). Advise pregnant women and females of reproductive potential of the potential risk to a fetus.

The background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2–4% and 15–20%, respectively.

Data

Animal Data

In a pilot embryo-fetal development study, pregnant rats received oral doses of 6, 60, or 200 mg/kg/day of belzutifan during the period of organogenesis. Belzutifan caused embryo-fetal lethality at doses ≥ 60 mg/kg/day (approximately 1 time the human exposure at the recommended dose based on AUC). Reduced fetal body weights, fetal rib malformations, and reduced skeletal ossification occurred at doses of 6 and 60 mg/kg/day (approximately ≥ 0.2 times the human exposure at the recommended dose based on AUC).

8.2 Lactation

Risk Summary

Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for lactation information. When used in combination, advise patients not to breastfeed during treatment and for the longest post-treatment duration recommended in the Prescribing Information of the individual products.

There are no data on the presence of belzutifan or its metabolites in human milk or their effects on the breastfed child or on milk production. Because of the potential for serious adverse reactions in a breastfed child, advise women not to breastfeed during treatment with WELIREG and for 1 week after the last dose.

8.3 Females and Males of Reproductive Potential

Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for contraception and infertility information. When used in combination, advise patients to use effective contraception during treatment and for the longest post-treatment duration recommended in the Prescribing Information of the individual products.

WELIREG can cause fetal harm when administered to a pregnant woman [*see Use in Specific Populations (8.1)*].

Pregnancy Testing

Verify the pregnancy status of females of reproductive potential prior to initiating treatment with WELIREG.

Contraception

Females

Advise females of reproductive potential to use effective non-hormonal contraception during treatment with WELIREG and for 1 week after the last dose. WELIREG can render some hormonal contraceptives ineffective [*see Drug Interactions (7.2)*].

Males

Advise males with female partners of reproductive potential to use effective contraception during treatment with WELIREG and for 1 week after the last dose.

Infertility

Based on findings in animals, WELIREG may impair fertility in males and females of reproductive potential [*see Nonclinical Toxicology (13.1)*]. The reversibility of the effect on fertility is unknown.

8.4 Pediatric Use

The safety and effectiveness of WELIREG have been established in pediatric patients aged 12 years and older for the treatment of locally advanced, unresectable, or metastatic pheochromocytoma or paraganglioma. Use of WELIREG in pediatric patients aged 12 years and older is supported by evidence from an adequate and well-controlled study of WELIREG in adults with additional pharmacokinetic data demonstrating that belzutifan exposure is predicted to be within range of that observed in adults, and that the course of locally advanced, unresectable, or metastatic pheochromocytoma or paraganglioma is sufficiently similar in adults and pediatric patients to allow extrapolation of data in adults to pediatric patients [see *Clinical Pharmacology* (12.3) and *Clinical Studies* (14.3)].

The safety and effectiveness of WELIREG have not been established in pediatric patients with VHL or ccRCC, or in pediatric patients younger than 12 years of age with PPGL.

8.5 Geriatric Use

Of the 61 patients who received WELIREG for VHL in LITESPARK-004, 3.3% were ≥ 65 years old [see *Clinical Studies* (14.1)]. Clinical trials of WELIREG in patients with VHL did not include sufficient numbers of patients aged 65 and older to determine whether they respond differently from younger patients.

Of the 915 patients who received WELIREG in combination with pembrolizumab for ccRCC in LITESPARK-022, 30% were ≥ 65 years old and 5% were ≥ 75 years old [see *Clinical Studies* (14.2)]. No overall differences in efficacy or safety were reported between patients who were ≥ 65 years of age and younger patients. Dose interruptions of WELIREG occurred in 57% of patients ≥ 65 years of age and in 49% of younger patients. Dose reductions of WELIREG occurred in 39% of patients ≥ 65 years of age and in 32% of younger patients.

Of the 370 patients who received WELIREG in combination with lenvatinib for advanced ccRCC in LITESPARK-011, 44% of patients were ≥ 65 years old and 10% were ≥ 75 years old [see *Clinical Studies* (14.2)]. Permanent discontinuation, dosage interruption, and dose reductions of WELIREG in patients ≥ 65 years of old were 23%, 73%, and 42%, respectively, compared with 12%, 65%, and 29%, respectively, in younger patients. No overall differences in effectiveness were reported between patients who were ≥ 65 years of age and younger patients.

Of the 372 patients who received WELIREG for advanced ccRCC in LITESPARK-005, 62% of patients were younger than 65 years, 28% of patients were 65 to 74 years, and 10% were 75 years and over [see *Clinical Studies* (14.2)]. No overall difference in efficacy was reported between patients who were ≥ 65 years of age and younger patients. Dose interruptions occurred in 48% of patients ≥ 65 years of age and in 34% of younger patients. Dose reductions occurred in 18% of patients ≥ 65 years of age and in 10% of younger patients.

Of the 72 patients who received WELIREG for PPGL in LITESPARK-015, 13% were ≥ 65 years old and 4.2% were ≥ 75 years old [see *Clinical Studies* (14.3)]. Clinical trials of WELIREG in patients with PPGL did not include sufficient numbers of patients aged 65 and older to determine whether they respond differently from younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients.

8.6 Renal Impairment

No dosage modification of WELIREG is recommended in patients with renal impairment including end-stage renal disease. For patients with severe renal impairment (eGFR 15-29 mL/min estimated by MDRD) monitor for increased adverse reactions and modify the dosage as recommended [see *Dosage and Administration* (2.2), *Clinical Pharmacology* (12.3)].

8.7 Hepatic Impairment

No dosage modification of WELIREG is recommended in patients with mild [total bilirubin $\leq$ upper limit of normal (ULN) and aspartate aminotransferase (AST) $>$ ULN or total bilirubin >1 to $1.5 \times$ ULN and any AST] or moderate (total bilirubin within range of $>1.5 \times$ ULN and $\leq 3 \times$ ULN and any AST or Child-Pugh B) hepatic impairment. WELIREG has not been studied in patients with severe hepatic impairment (total bilirubin $>3 \times$ ULN and any AST). For patients with moderate and severe hepatic impairment, monitor for

increased adverse reactions and modify the dosage as recommended [see *Dosage and Administration* (2.2), *Clinical Pharmacology* (12.3)].

8.8 Dual UGT2B17 and CYP2C19 Poor Metabolizers

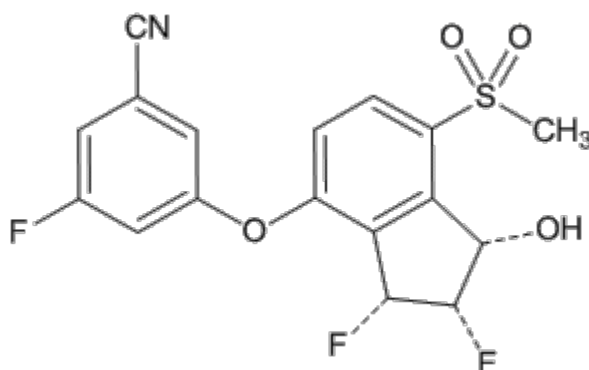
Patients who are dual UGT2B17 and CYP2C19 poor metabolizers have higher belzutifan exposures, which may increase the risk of adverse reactions of WELIREG. Monitor for increased adverse reactions in patients who are dual UGT2B17 and CYP2C19 poor metabolizers [see *Warnings and Precautions* (5), *Adverse Reactions* (6), *Clinical Pharmacology* (12.5)].

10 OVERDOSAGE

There is no specific treatment for WELIREG overdose. In cases of suspected overdose, withhold WELIREG and institute supportive care. Grade 3 hypoxia occurred at dosages of 120 mg twice a day and Grade 4 thrombocytopenia occurred at dosages of 240 mg once daily (approximately 2 times the recommended dosage).

11 DESCRIPTION

Belzutifan is an inhibitor of hypoxia-inducible factor-2 α (HIF-2 α). The chemical name of belzutifan is 3-[[[(1S,2S,3R)-2,3-Difluoro-2,3-dihydro-1-hydroxy-7-(methylsulfonyl)-1H-inden-4-yl]oxy]-5-fluorobenzonitrile. The molecular formula is C₁₇H₁₂F₃NO₄S and the molecular weight is 383.34 Daltons. The chemical structure is:



Belzutifan is a white to light brown powder that is soluble in acetonitrile, dimethoxyethane, and acetone, sparingly soluble in ethyl acetate, very slightly soluble in isopropanol and toluene, and insoluble in water.

WELIREG is supplied as blue, film-coated tablets for oral use containing 40 mg of belzutifan together with croscarmellose sodium, hypromellose acetate succinate, magnesium stearate, mannitol, microcrystalline cellulose, and silicon dioxide, as inactive ingredients. In addition, the film-coating contains FD&C Blue #2 aluminum lake, polyethylene glycol, polyvinyl alcohol, talc, titanium dioxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Belzutifan is an inhibitor of hypoxia-inducible factor 2 alpha (HIF-2 α). HIF-2 α is a transcription factor that plays a role in oxygen sensing by regulating genes that promote adaptation to hypoxia. Under normal oxygen levels, HIF-2 α is targeted for ubiquitin-proteasomal degradation by VHL protein. Lack of functional VHL protein results in stabilization and accumulation of HIF-2 α . Upon stabilization, HIF-2 α translocates into the nucleus and interacts with hypoxia-inducible factor 1 beta (HIF-1 β) to form a transcriptional complex that induces expression of downstream genes, including genes associated with cellular proliferation, angiogenesis, and tumor growth. Belzutifan binds to HIF-2 α , and in conditions of hypoxia or impairment of VHL protein function, belzutifan blocks the HIF-2 α -HIF-1 β interaction, leading to reduced transcription and expression of HIF-2 α target genes. In vivo, belzutifan demonstrated anti-tumor activity in mouse xenograft models of renal cell carcinoma.

12.2 Pharmacodynamics

Reductions in plasma levels of erythropoietin (EPO) were observed to be dose- and exposure-dependent at dosages up to 120 mg once daily. The maximum EPO suppression occurred following 2 weeks of consecutive dosing of WELIREG (mean percent decrease from baseline of approximately 60%). Mean EPO levels gradually returned to baseline values after 12 weeks of treatment.

The incidence of Grade 3 anemia increased with higher belzutifan exposure in patients with baseline hemoglobin levels <12 g/dL [see *Warnings and Precautions* (5.1)].

Cardiac Electrophysiology

At the recommended dosage, WELIREG does not cause large mean increases (i.e., >20 msec) in the QT interval.

12.3 Pharmacokinetics

The C_{max} and AUC of belzutifan increase proportionally over a dose range of 20 mg to 120 mg (0.17 to 1 times the approved recommended dose). The estimated geometric mean steady-state (CV%) C_{max} is 1.5 µg/mL (45%) and AUC_{0-24h} is 20 µg·hr/mL (62%). Steady state is reached after approximately 3 days.

Absorption

The median T_{max} occurs at 1 to 2 hours after WELIREG administration.

Effect of Food

A high-fat, high-calorie meal (total calories approximately 1000 kcal, 56 g fat, 55 g carbohydrate, and 31 g protein) delayed T_{max} by approximately 2 hours with no clinically significant effect on C_{max} and AUC of belzutifan.

Distribution

The estimated mean (CV%) volume of distribution is 119 L (28%). Plasma protein binding of belzutifan is 45%. The blood-to-plasma concentration ratio of belzutifan is 0.88.

Elimination

The estimated mean (CV%) clearance is 6 L/hr (58%) and the mean elimination half-life is 14 hrs.

Metabolism

Belzutifan is primarily metabolized by UGT2B17 and CYP2C19 and to a lesser extent by CYP3A4 [see *Clinical Pharmacology* (12.5)].

Excretion

Following a single oral dose of radiolabeled belzutifan, approximately 49.6% of the dose was excreted in urine and 51.7% in feces (primarily as inactive metabolites).

Specific Populations

Patients who are poor metabolizers of UGT2B17 and CYP2C19 had higher belzutifan AUC [see *Clinical Pharmacology* (12.5)].

No clinically significant differences in the pharmacokinetics of belzutifan were observed based on age (15 to 90 years), sex, ethnicity (non-Hispanic, Hispanic), race (White (76%), Black (5%), Asian (15%), Native American, Pacific Islander), or body weight (40 to 166 kg).

Pediatric patients

The exposure of belzutifan in pediatric patients 12 years and older is predicted to be within range of that observed in adults at the recommended dosage.

Patients with Renal Impairment

No clinically significant differences in the mean belzutifan exposure were observed between subjects with normal renal function and those with mild (eGFR 60-89 mL/min) or moderate renal impairment (eGFR 30-59 mL/min) and those with end-stage renal disease (eGFR <15 mL/min) requiring dialysis.

Patients with Hepatic Impairment

No clinically significant differences in the mean belzutifan exposure were observed between subjects with normal liver function (total bilirubin and AST $\leq$ ULN), and those with mild hepatic impairment (total bilirubin $\leq$ ULN and AST $>$ ULN or total bilirubin >1 to $1.5 \times$ ULN and any AST). Belzutifan exposure (AUC) increased by 1.5-fold in patients with moderate hepatic impairment (Child-Pugh B) compared to subjects with normal hepatic function. Patients with severe hepatic impairment have not been studied.

Drug Interaction Studies

Clinical Studies and Model-Informed Approaches

Effect of Belzutifan on CYP3A Substrates: Coadministration of WELIREG 120 mg once daily with midazolam (a sensitive CYP3A4 substrate) decreased the midazolam AUC by 40% and the C_{max} by 34%. Midazolam AUC is predicted to decrease up to 70% in patients with higher belzutifan concentrations (e.g., dual poor metabolizers) [see *Clinical Pharmacology* (12.5)].

In Vitro Studies

Cytochrome P450 (CYP) Enzymes: Belzutifan does not inhibit CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, or CYP3A4.

Belzutifan does not induce CYP1A2 or CYP2B6.

Transporter Systems: Belzutifan is a substrate of P-gp, OATP1B1, and OATP1B3, but is not a substrate of BCRP.

Belzutifan inhibits MATE2K. Belzutifan does not inhibit P-gp, BCRP, OATP1B1, OATP1B3, OAT1, OAT3, OCT2, or MATE1.

12.5 Pharmacogenomics

Patients who are UGT2B17, CYP2C19, or dual UGT2B17 and CYP2C19 poor metabolizers are estimated to have 2.5-, 1.3-, or 3.2-fold higher belzutifan steady state AUC_{0-24h}, respectively compared to patients who are UGT2B17 normal (extensive) metabolizers and CYP2C19 non-poor (ultrarapid, rapid, normal, and intermediate) metabolizers [see *Use in Specific Populations* (8.8)].

UGT2B17 poor metabolizers who are homozygous for the UGT2B17*2 allele have no UGT2B17 enzyme activity. CYP2C19 poor metabolizers (such as *2/*2, *3/*3, *2/*3) have significantly reduced or absent CYP2C19 enzyme activity. Approximately 15% of White, 6% of Black or African American, and up to 77% of certain Asian populations are UGT2B17 poor metabolizers. Approximately 2% of White, 5% of Black or African American, and up to 19% of certain Asian populations are CYP2C19 poor metabolizers. Approximately 0.4% of White, 0.3% of Black or African American, and up to 15% of certain Asian populations are dual UGT2B17 and CYP2C19 poor metabolizers.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

No carcinogenic risk was identified with belzutifan in a 6-month transgenic rasH2 mouse study with oral administration up to 600 mg/kg/day and a 2-year rat study with oral administration up to 300 mg/kg/day (up to 13 times the human exposure at the recommended dose based on AUC).

Mutagenesis

Belzutifan was not mutagenic in the in vitro bacterial reverse mutation (Ames) assay. Belzutifan was not clastogenic in either an in vitro micronucleus assay or an in vivo rat bone marrow micronucleus assay.

Impairment of Fertility

Fertility studies in animals have not been conducted with belzutifan. In repeat-dose toxicity studies up to 3-month duration, belzutifan-related findings included degeneration/atrophy of testes and hypospermia and cellular debris of the epididymis in rats administered ≥ 2 mg/kg/day (approximately 0.1 times the human exposure at the recommended dose of 120 mg daily). Findings in testes and epididymis were associated with decreased sperm count and motility and abnormal sperm morphology at ≥ 6 mg/kg/day (approximately 0.2 times the human exposure at the recommended dose of 120 mg daily) and did not reverse by the end of the recovery period. Belzutifan had no adverse effects on female reproductive organs in repeat-dose toxicity studies up to 3-month duration; however, belzutifan caused embryo-fetal lethality (post-implantation loss) in pregnant rats given oral doses ≥ 60 mg/kg/day (approximately 1 time the human exposure at the recommended dose based on AUC) during the period of organogenesis [see *Use in Specific Populations (8.1)*].

14 CLINICAL STUDIES

14.1 von Hippel-Lindau (VHL) disease

The efficacy of WELIREG was evaluated in LITESPARK-004 (NCT03401788), an open-label clinical trial in 61 patients with VHL-associated RCC diagnosed based on a VHL germline alteration and with at least one measurable solid tumor localized to the kidney as defined by response evaluation criteria in solid tumors (RECIST) v1.1. Enrolled patients had other VHL-associated tumors including CNS hemangioblastomas and pNET. CNS hemangioblastomas and pNET in these patients were diagnosed based on the presence of at least one measurable solid tumor in brain/spine or pancreas, respectively, as defined by RECIST v1.1 and identified by IRC. The study excluded patients with metastatic disease. Patients received WELIREG 120 mg orally once daily until disease progression or unacceptable toxicity.

The study population characteristics were: median age 41 years [range: 19-66 years], 3.3% age 65 or older; 53% male; 90% were White, 3.3% were Black or African-American, 1.6% were Asian, and 1.6% were Native Hawaiian or other Pacific Islander; 82% had an ECOG PS of 0, 16% had an ECOG PS of 1, and 1.6% had an ECOG PS of 2; and 84% had VHL Type I Disease. The median diameter of RCC target lesions per central independent review committee (IRC) was 2.2 cm (range: 1-6.1). Median time from initial radiographic diagnosis of VHL-associated RCC tumors that led to enrollment on LITESPARK-004 to the time of treatment with WELIREG was 17.9 months (range: 2.8-96.7). Seventy-seven percent of patients had prior surgical procedures for RCC.

The major efficacy endpoint for the treatment of VHL-associated RCC was objective response rate (ORR) measured by radiology assessment using Response Evaluation Criteria In Solid Tumors (RECIST) v1.1 as assessed by IRC. Additional efficacy endpoints included duration of response (DoR), and time to response (TTR).

Table 14 summarizes the efficacy results for VHL-associated RCC in LITESPARK-004.

Table 14: Efficacy Results (IRC assessment) for LITESPARK-004 for VHL-Associated RCC

Efficacy Outcome Measure	WELIREG n=61
Objective Response Rate, % (n) (95% CI)	49% (30)* (36, 62)
Complete response	0%
Partial response	49%
Duration of Response	
Median in months (range)	Not reached (2.8+, 22+)
% (n) with DoR ≥ 12 months	56% (17/30)

* All patients with a response were followed for a minimum of 18 months from the start of treatment.

+ Denotes ongoing response.

For VHL-associated RCC, median TTR was 8 months (range: 2.7, 19).

Table 15 summarizes the efficacy results for VHL-associated pNET or CNS hemangioblastomas in LITESPARK-004.

Table 15: Efficacy Results (IRC assessment) for LITESPARK-004 for VHL-Associated Subgroups with CNS Hemangioblastomas or pNET

Endpoint	Patients with CNS Hemangioblastomas n=24*	Patients with pNET n=12*
Objective Response Rate, % (n) (95% CI)	63%, (15) (41, 81)	83% (10) (52, 98)
Complete response	4% (1)	17% (2)
Partial response	58% (14)	67% (8)
Duration of Response		
Median in months (range)	Not reached (3.7+, 22+)	Not reached (11+, 19+)
% (n) with DoR ≥12 months	73% (11/15)	50% (5/10)

* Number of patients with measurable solid lesions, based on IRC assessment.

+ Denotes ongoing response.

For VHL-associated CNS hemangioblastomas, TTR was 3.1 months (range: 2.5, 11). For VHL-associated pNET, median TTR was 8.1 months (range: 2.7, 11).

Decreases in size of CNS hemangioblastoma-associated peri-tumoral cysts and syringes were observed.

14.2 Renal Cell Carcinoma with a Clear Cell Component (ccRCC)

Adjuvant Treatment of ccRCC in Combination with Pembrolizumab

The efficacy of WELIREG in combination with intravenous pembrolizumab was investigated as adjuvant therapy versus placebo in combination with intravenous pembrolizumab for ccRCC in LITESPARK-022 (NCT05239728), a multicenter, double-blind, randomized trial in 1,841 patients with intermediate-high or high risk of recurrence of RCC, or M1 with no evidence of disease (NED). The intermediate-high risk category included: pT2, Grade 4 only; pT3, any Grade without nodal involvement (N0) or distant metastases (M0). The high risk category included: pT4, any Grade N0 and M0; any pT, any Grade with nodal involvement and M0. The M1 NED category included patients with metastatic disease who had undergone complete resection of primary and metastatic lesions. Patients were required to have undergone a partial or radical nephrectomy, and if indicated, metastasectomy within two years of nephrectomy, within ≥4 weeks prior to the time of screening. Patients were excluded from the trial if they had received prior systemic therapy for advanced RCC.

Patients were randomized (1:1) to receive WELIREG 120 mg orally once daily in combination with pembrolizumab 400 mg intravenously every 6 weeks (N=921), or oral placebo in combination with pembrolizumab 400 mg intravenously every 6 weeks (N=920) for up to 9 cycles (54 weeks) until disease recurrence or unacceptable toxicity. Randomization was stratified by risk of recurrence (intermediate-high, high risk, M1 NED) and tumor grade (1 or 2 versus 3 or 4).

The study population characteristics were: median age 60 years (range: 20 to 91 years), 32% age 65 or older; 71% male; 63% White; 29% Asian; 3.6% Unknown, 0.7% Black or African American; 1.7% American Indian or Alaska Native, 1.8% Multiracial; 78% Not Hispanic or Latino, 15% Hispanic or Latino, 7% Unknown; 85% ECOG PS 0 and 15% ECOG PS 1. Ninety-six percent of patients enrolled had N0 disease or unknown nodal status; 10% had sarcomatoid features; 85% had intermediate-high risk disease; 6% had high risk disease; and 9% had M1 NED. Ninety percent of patients had a radical nephrectomy, and 10% had a partial nephrectomy.

The major efficacy outcome measure was investigator-assessed disease-free survival (DFS), defined as time to recurrence, metastasis, or death. An additional outcome measure was overall survival (OS). A statistically significant improvement in DFS was demonstrated at pre-specified interim analysis in patients randomized to the WELIREG plus pembrolizumab arm compared with the placebo plus pembrolizumab arm. At the protocol pre-specified interim analysis, OS data were not mature with 29% of the required events for the final analysis.

Table 16 and Figure 1 summarize the efficacy results for LITESPARK-022.

Table 16: Efficacy Results for ccRCC for LITESPARK-022

Efficacy Outcome Measure	WELIREG plus Pembrolizumab n=921	Placebo plus Pembrolizumab n=920
DFS		
Number (%) of patients with event	186 (20%)	246 (27%)
Median in months* (95% CI)	NR (36.9, NR)	NR (NR, NR)
Hazard ratio† (95% CI)	0.72 (0.59, 0.87)	
p-Value‡	0.0003	
24-month DFS rate* (95% CI)	81% (78%, 83%)	74% (71%, 77%)

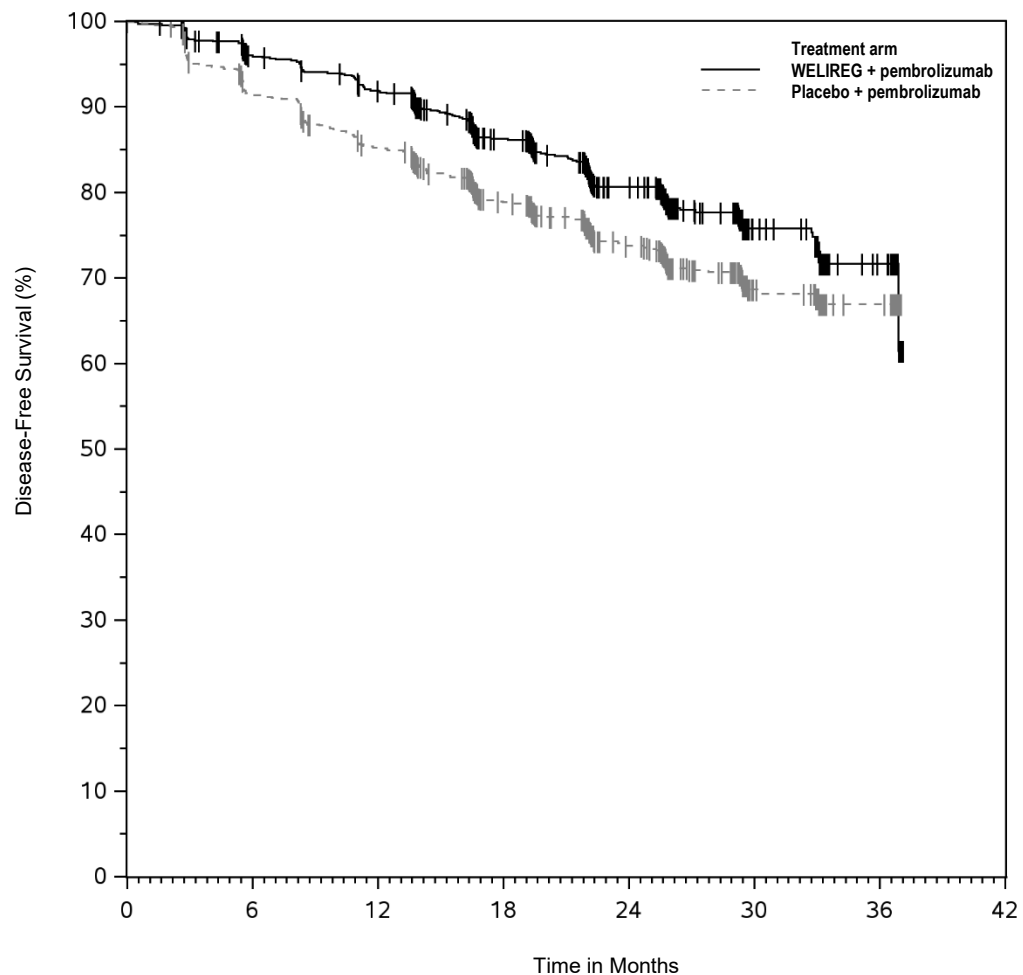
* Based on Kaplan-Meier estimates

† Based on the stratified Cox proportional hazard model.

‡ Based on stratified log-rank test.

CI = confidence interval; NR = not reached

Figure 1: Kaplan-Meier Curve for Disease-Free Survival in LITESPARK-022



Number at Risk

WELIREG + pembrolizumab	921	850	805	669	451	153	35	0
Placebo + pembrolizumab	920	823	759	619	417	140	38	0

In Combination with Lenvatinib for the Treatment of Advanced ccRCC

The efficacy of WELIREG in combination with lenvatinib was evaluated in LITESPARK-011 (NCT04586231), an open-label, randomized, active-controlled clinical trial in 747 patients with advanced ccRCC. Eligible patients had locally advanced or metastatic ccRCC and had progressed on or after a

PD-1 or PD-L1 inhibitor, or within 6 months of completing adjuvant therapy with a PD-1 inhibitor. The study excluded patients with hypoxia, active CNS metastases and clinically significant cardiac disease within 6 months before first dose of study intervention.

Patients were randomized in a 1:1 ratio to receive WELIREG 120 mg in combination with lenvatinib 20 mg (n=371), or cabozantinib 60 mg (n=376) orally once daily until disease progression or unacceptable toxicity. Randomization was stratified by IMDC risk categories (favorable versus intermediate versus poor), number of prior lines of therapy (1 versus 2), and geographic region (North America versus Western Europe versus Rest of World). Imaging was performed every 8 weeks for the first 80 weeks, then every 12 weeks thereafter.

The major efficacy endpoints were progression-free survival (PFS) measured by BICR using RECIST v1.1 and overall survival (OS). Additional efficacy endpoints included objective response rate (ORR) by BICR using RECIST v1.1.

The study population characteristics were: median age 63 years (range: 30 to 86 years), 76% male; 87% White; 9% Asian; 1.6% American Indian or Alaska Native; 1.1% multiple races; 0.4% Black or African American; 0.8% not reported; 74% not Hispanic or Latino; 18% Hispanic or Latino; 8% ethnicity not reported. Fifty-eight percent of patients were ECOG performance status 0, 41% were ECOG performance status 1, and 1.2% were ECOG performance status 2. Seventy-two percent of patients had 1 prior line of therapy (4.4% with adjuvant therapy only), 28% had 2 or more prior lines of therapy. Patient distribution by IMDC risk categories was 24% favorable, 59% intermediate, and 17% poor. Bone metastasis was present in 40% of patients; liver metastasis was present in 25%.

The trial demonstrated a statistically significant improvement in PFS and ORR for patients randomized to WELIREG in combination with lenvatinib compared to cabozantinib. The efficacy results for advanced ccRCC in LITESPARK-011 are summarized in Table 17 and Figure 2.

Table 17: Efficacy Results in Patients with Advanced ccRCC in LITESPARK-011

Efficacy Outcome Measure	WELIREG plus Lenvatinib n=371	Cabozantinib n=376
Progression-Free Survival (PFS)		
Number of events, n (%)	196 (53%)	240 (64%)
Progressive disease	172 (46%)	211 (56%)
Death	24 (7%)	29 (8%)
Median in months (95% CI) *	14.6 (11.1, 16.6)	10.6 (9.2, 11.1)
Hazard ratio † (95% CI)	0.74 (0.61, 0.89)	
p-Value‡	0.001	
Overall Survival (OS)		
Number of events, n (%)	195 (53%)	224 (60%)
Median in months (95% CI) *	33.7 (29.0, 46.9)	28.6 (24.1, 31.4)
Hazard ratio † (95% CI)	0.85 (0.70, 1.03)	
p-Value§	NS	
Confirmed Objective Response Rate		
ORR % (n) (95% CI)	53% (195) (47, 58)	40% (149) (35, 45)
Complete response	4% (15)	1.1% (4)
Partial response	49% (180)	39% (145)
p-Value#	0.0002	

* From product-limit (Kaplan-Meier) method for censored data

† Based on the stratified Cox proportional hazard model.

‡ One-sided p-Value based on stratified log-rank test compared with the significance boundary of 0.0017.

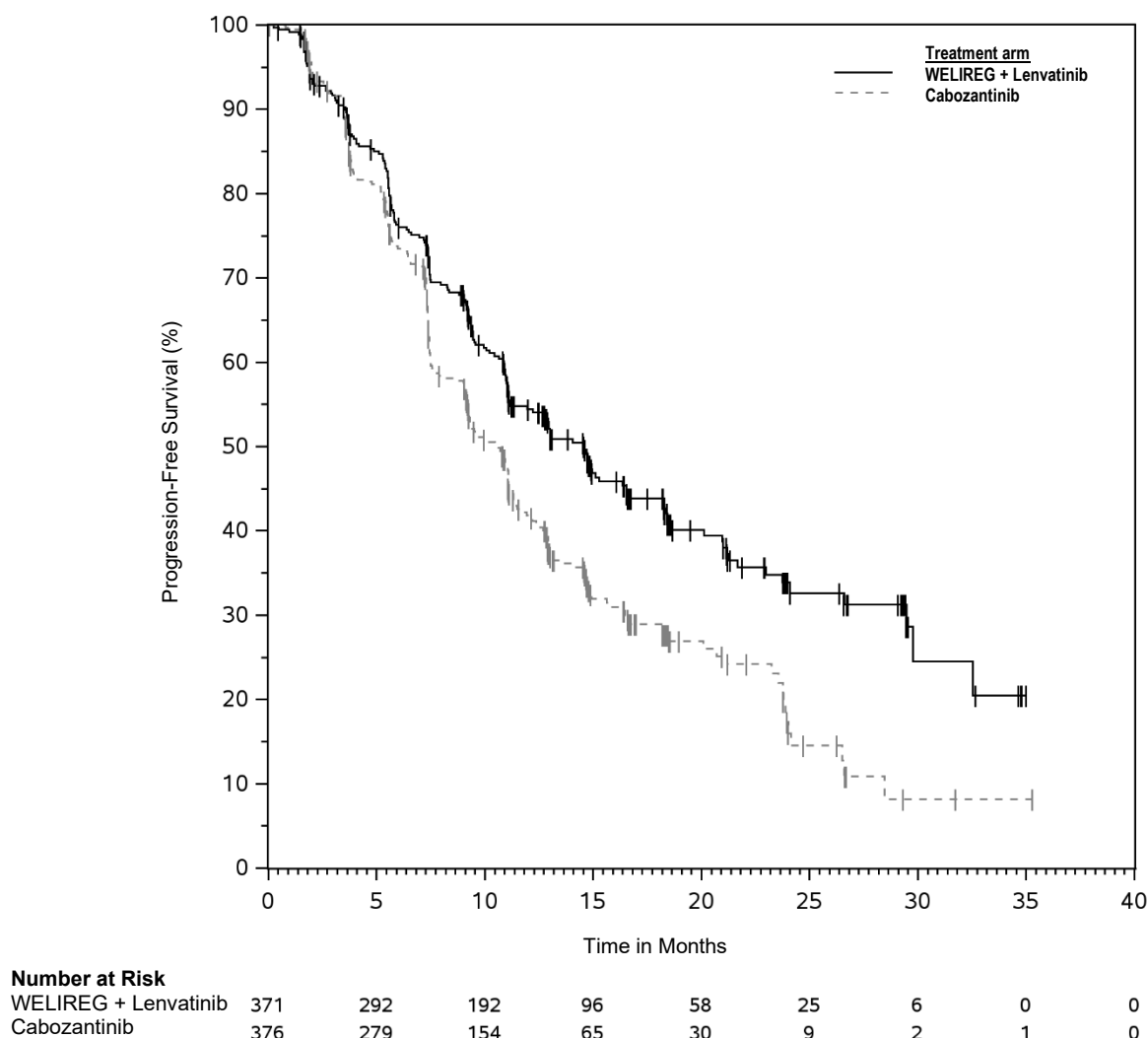
§ Based on stratified log-rank test.

One-sided p-Value based on stratified Miettinen and Nurminen (M&N) method.

NS – not statistically significant

Among the 195 patients treated with WELIREG in combination with lenvatinib who achieved a confirmed response based on BICR per RECIST 1.1, 122 (63%) patients had a duration of response ≥12 months at the pre-specified final analysis.

Figure 2: Kaplan-Meier Curve for Progression Free Survival in LITESPARK-011



Monotherapy for the Treatment of Advanced ccRCC

The efficacy of WELIREG was evaluated in LITESPARK-005 (NCT04195750), an open-label, randomized, active-controlled clinical trial in 746 patients with unresectable, locally advanced or metastatic ccRCC that progressed following PD-1 or PD-L1 checkpoint inhibitor and VEGF receptor targeted therapies either in sequence or in combination.

Patients could have received up to 3 prior treatment regimens and were required to have measurable disease per RECIST v1.1. Patients were randomized in a 1:1 ratio to receive 120 mg WELIREG or 10 mg everolimus orally once daily until disease progression or unacceptable toxicity. Randomization was stratified by IMDC risk categories (favorable versus intermediate versus poor) and number of prior VEGF receptor targeted therapies (1 versus 2-3). Patients were evaluated radiologically at Week 9 from the date of randomization, then every 8 weeks through Week 49, and every 12 weeks thereafter.

The study population characteristics were: median age 63 years [range: 22 to 90 years], 42% age 65 or older; 78% male; 79% White; 12% Asian; 1% Black or African American; 11% Hispanic or Latino; 44% ECOG performance status 0 and 55% ECOG performance status 1. Prior therapies: 13% patients had 1 prior line of therapy, 43% had 2 prior lines of therapy and 43% had 3 prior lines of therapy; 49% received 2 to 3 prior VEGF receptor targeted therapies. Patient distribution by IMDC risk categories was 22%

favorable, 66% intermediate, and 12% poor. Common sites of metastasis in patients were 65% lung, 59% lymph nodes, and 49% bone.

The major efficacy endpoints were Progression Free Survival (PFS) measured by BICR using RECIST v1.1 and Overall Survival (OS). Additional efficacy endpoint included objective response rate (ORR) by BICR using RECIST v1.1.

The trial demonstrated a statistically significant improvement in PFS for patients randomized to WELIREG compared with everolimus. Table 18 and Figure 3 summarize the efficacy results for LITESPARK-005.

Table 18: Efficacy Results for Advanced ccRCC (IRC assessment) for LITESPARK-005

Efficacy Outcome Measure	WELIREG n=374	Everolimus n=372
Progression-Free Survival (PFS)		
Number of events, n (%)	257 (69%)	262 (70%)
Progressive disease	234 (63%)	222 (60%)
Death	23 (6%)	40 (11%)
Median in months (95% CI)*	5.6 (3.9, 7.0)	5.6 (4.8, 5.8)
Hazard ratio † (95% CI)	0.75 (0.63, 0.90)	
p-Value ‡	0.0008	
Overall Survival (OS)		
Number of events, n (%)	254 (68%)	259 (70%)
Median in months (95% CI)	21 (18, 24)	18 (16, 22)
Hazard ratio † (95% CI)	0.92 (0.77, 1.10)	
p-Value§	NS	
Confirmed Objective Response Rate		
Number of patients with measurable disease at baseline	373	364
ORR % (n) (95% CI)	22% (82) (18, 27)	4% (13) (2, 6)
Complete response	3% (10)	0% (0)
Partial response	19% (72)	4% (13)
p-Value¶	<0.0001	

* From product-limit (Kaplan-Meier) method for censored data

† Based on the stratified Cox proportional hazard model.

‡ One-sided p-Value based on stratified log-rank test compared with the significance boundary of 0.0021.

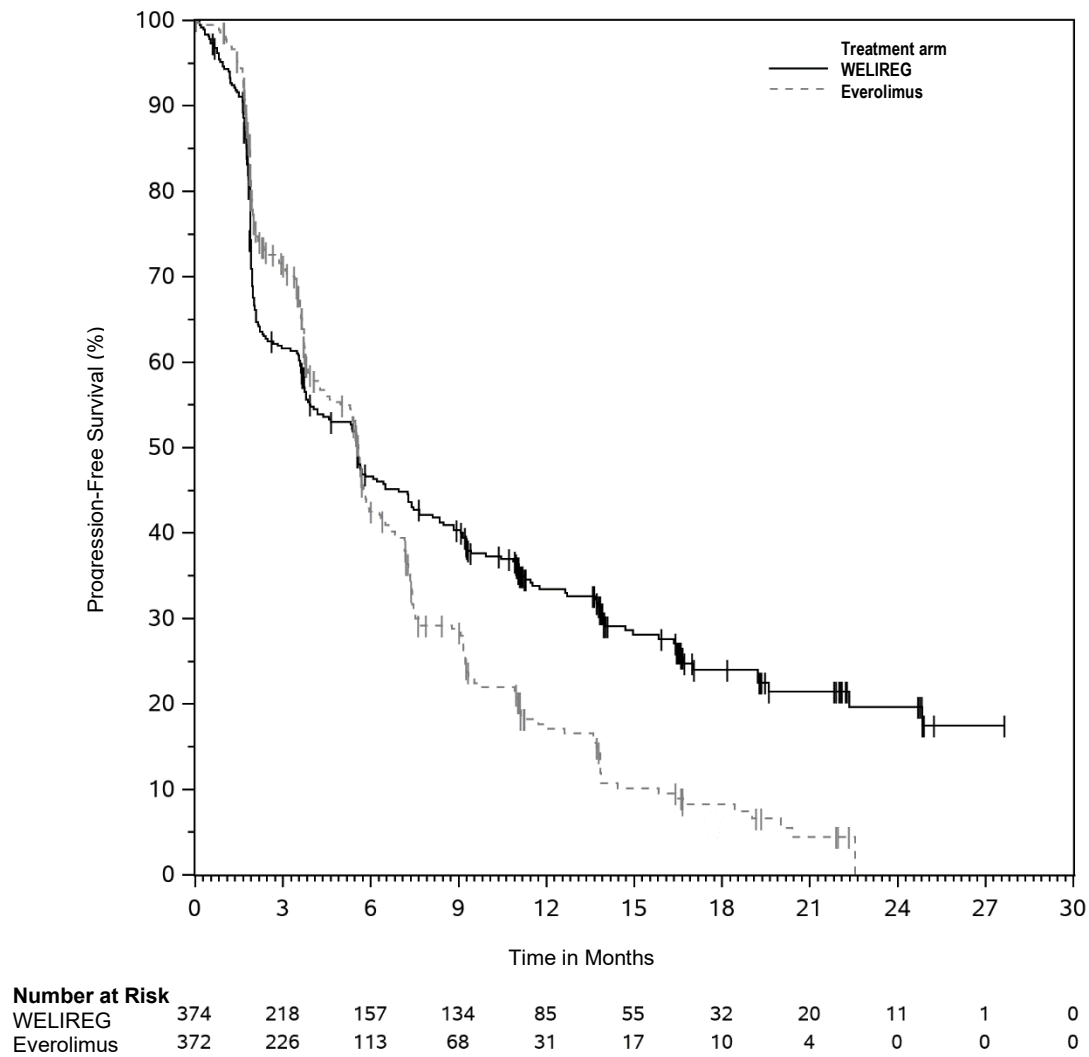
§ Based on stratified log-rank test.

¶ One-sided p-value based on stratified Miettinen and Nurminen (M&N) method.

NS – not statistically significant

Among the 82 patients treated with WELIREG who achieved a confirmed response based on BICR per RECIST 1.1, 25 (30%) patients had a duration of response ≥12 months.

Figure 3: Kaplan-Meier Curve for Progression-Free Survival in LITESPARK-005



14.3 Pheochromocytoma or Paraganglioma

The efficacy of WELIREG was evaluated in LITESPARK-015 (NCT04924075), an open-label, multi-cohort clinical trial in 72 patients in Cohort A1 who had measurable disease verified by BICR per RECIST v1.1, documented histopathological diagnosis of pheochromocytoma or paraganglioma (PPGL), locally advanced or metastatic disease that was not amenable to surgery or curative treatment, and adequately controlled blood pressure (defined as BP <150/90 mm Hg, <135/85 mm Hg for adolescents) with no change in antihypertensive medications for patients with concomitant hypertension for at least 2 weeks prior to start of study treatment. Patients with carcinomatous meningitis were excluded. Patients received WELIREG 120 mg orally once daily until disease progression or unacceptable toxicity.

The study population characteristics were: median age 52 years [range: 22 to 77 years], 13% age 65 or older; 58% male; 93% White; 4.2% Black or African-American; 1.4% Asian; 6% Hispanic or Latino; 54% had an ECOG PS of 0 and 46% had an ECOG PS of 1. The median number of prior therapies was 1: (range: 0 to 5). A total of 50% of patients received prior chemotherapy, 44% received prior radiopharmaceuticals, and 25% received prior VEGF-TKIs. No patients had a history of VHL disease.

The major efficacy outcome measure for the treatment of locally advanced PPGL was objective response rate (ORR) measured by BICR using RECIST v1.1. Additional efficacy outcome measures were duration

of response (DOR), time to response (TTR), and the proportion of patients who had a reduction in at least one antihypertensive medication by at least 50% maintained for at least six months.

Table 19 summarizes the efficacy results for PPGL in LITESPARK-015.

Table 19: Efficacy Results in Patients with PPGL in LITESPARK-015

Efficacy Outcome Measure	WELIREG n=72
Confirmed Objective Response Rate ^{*,†}	
ORR, % (95% CI)	26% (17, 38)
Duration of Response[*]	
Median in months (95% CI) [‡]	20.4 (8.3, NR)
Range	5.6+, 29.6+
% with duration ≥ 12 months	53%
Reduction in at least one antihypertensive medication by at least 50% maintained for at least 6 months	
Number of patients	19
Proportion of patients (95% CI) ^{§,¶}	32% (20, 45)

* Based on BICR.

† All responses were partial responses.

‡ Based on Kaplan-Meier estimates.

§ Calculated using the Clopper-Pearson method.

¶ Based on the number of patients who were on antihypertensive medications at baseline (N=60).

NR = not reached

+ = Denotes ongoing response.

Data cut-off: October 23, 2024

For PPGL, the median TTR was 11.0 months (range: 1.7 to 24.8).

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

WELIREG tablets are supplied as 40 mg blue, oval shaped, film-coated, debossed with “177” on one side and plain on the other side, available in:

- bottles of 90 tablets with child-resistant closure: NDC 0006-5331-01.

The bottle also contains two desiccant canisters. Do not eat.

Storage and Handling

Store at 20°C to 25°C (68°F to 77°F), excursions permitted between 15°C and 30°C (59°F and 86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Anemia

Inform patients that WELIREG can cause severe anemia that may require blood transfusions and that red blood cell levels will be monitored routinely during treatment. Advise patients to contact their healthcare provider if the patient experiences any symptoms suggestive of anemia [see *Warnings and Precautions* (5.1)].

Hypoxia

Inform patients that WELIREG can cause severe hypoxia that may require discontinuation, supplemental oxygen, or hospitalization; and that oxygen levels will be monitored routinely during treatment. Advise patients to contact their healthcare provider if the patient experiences any symptoms suggestive of hypoxia [see *Warnings and Precautions* (5.2)].

Cardiac Dysfunction

Inform patients that WELIREG in combination with lenvatinib can cause cardiac dysfunction. Advise patients to immediately contact their healthcare provider for any symptoms or signs of cardiac dysfunction [see *Warnings and Precautions* (5.3)].

Embryo-Fetal Toxicity

- Advise pregnant women and females of reproductive potential of the risk to a fetus. Advise females to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions* (5.4) and *Use in Specific Populations* (8.1)].
- Advise females of reproductive potential to use effective non-hormonal contraception during treatment with WELIREG and for 1 week after the last dose [see *Use in Specific Populations* (8.3)].
- Advise male patients with female partners of reproductive potential to use effective contraception during treatment with WELIREG and for 1 week after the last dose [see *Use in Specific Populations* (8.3)].
- Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for pregnancy and contraception information. When used in combination, advise patients to use effective contraception during treatment and for the longest post-treatment duration recommended in the Prescribing Information of the individual products.

Lactation

- Advise females not to breastfeed during treatment with WELIREG and for 1 week after the last dose [see *Use in Specific Populations* (8.2)].
- Refer to the Prescribing Information of the individual therapeutic agents used in combination with WELIREG for lactation information. When used in combination, advise patients not to breastfeed during treatment and for the longest post-treatment duration recommended in the Prescribing Information of the individual products.

Infertility

Advise male and female patients that WELIREG may impair fertility [see *Use in Specific Populations* (8.3)].

Dosage and Administration

Instruct patients to take their dose of WELIREG at the same time each day (once daily). Advise patients that WELIREG can be taken with or without food. Each tablet should be swallowed whole [see *Dosage and Administration* (2.1)].

Manufactured for: Merck Sharp & Dohme LLC
Rahway, NJ 07065, USA

For patent information: www.msd.com/research/patent

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