
HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use ZEJULA safely and effectively. See full prescribing information for ZEJULA.

ZEJULA (niraparib) tablets, for oral use Initial U.S. Approval: 2017

ZEIULA is a poly (ADP-ribose) polymerase (PARP) inhibitor indicated:

- for the maintenance treatment of adult patients with advanced epithelial ovarian, fallopian tube, or primary peritoneal cancer who are in a complete or partial response to first-line platinum-based chemotherapy. (1.1)
- for the maintenance treatment of adult patients with deleterious or suspected deleterious germline BRCA-mutated recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer who are in a complete or partial response to platinum-based chemotherapy. Select patients for therapy based on an FDA-approved companion diagnostic for ZEJULA (1.2, 2.1)

DOSAGE AND ADMINISTRATION

- First-line maintenance treatment of advanced ovarian cancer:
 - For patients weighing <77 kg (<170 lbs) OR with a platelet count <150,000/mcL, the recommended dosage is 200 mg taken orally once daily. (2.2)
 - For patients weighing \geq 77 kg (\geq 170 lbs) AND a platelet count \geq 150,000/ mcL, the recommended dosage is 300 mg taken orally once daily. (2.2)
- *Maintenance treatment of recurrent germline BRCA-mutated ovarian cancer:* The recommended dosage is 300 mg taken orally once daily. (2.2)
- Continue treatment until disease progression or unacceptable toxicity. (2.2)
- ZEJULA may be taken with or without food. (2.2)
- For adverse reactions, consider interruption of treatment, dose reduction, or dose discontinuation. (2.3)
- For patients with moderate hepatic impairment, reduce the starting dosage of niraparib to 200 mg once daily. (2.4)

DOSAGE FORMS AND STRENGTHS
Tablets: 100 mg, 200 mg, 300 mg (3)
CONTRAINDICATIONS
None. (4)
WARNINGS AND PRECAUTIONS
 Myelodysplastic Syndrome/Acute Myeloid Leukemia (MDS/AML): MDS/AML occurred in patients exposed to ZEJULA, and some cases were fatal. Monitor patients for hematological toxicity and discontinue if MDS/AML is confirmed. (5.1) Bone Marrow Suppression: Test complete blood counts weekly for the first month, monthly for the next 11 months, and periodically thereafter for clinically significant changes. (5.2) Hypertension and Cardiovascular Effects: Monitor blood pressure and heart rate at least weekly for the first 2 months, then monthly for the first year and periodically thereafter during treatment with ZEJULA. Manage with antihypertensive medications and adjustment of the dose of ZEJULA, if necessary. (5.3) Posterior Reversible Encephalopathy Syndrome (PRES): PRES has occurred in patients treated with ZEJULA. Discontinue ZEJULA if PRES is confirmed. (5.4) Embryo-Fetal Toxicity: ZEJULA can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception. (5.5, 8.1, 8.3)

Most common adverse reactions (incidence ≥10%) in patients who received ZEJULA were nausea,

thrombocytopenia, anemia, fatigue, constipation, musculoskeletal pain, abdominal pain, vomiting, neutropenia, decreased appetite, leukopenia, insomnia, headache, dyspnea, rash, diarrhea, hypertension, cough, dizziness, acute kidney injury, urinary tract infection, and hypomagnesemia. (6.1) **To report SUSPECTED ADVERSE REACTIONS, contact GlaxoSmithKline at 1-888-825-5249 or**

FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. USE IN SPECIFIC POPULATIONS Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 5/2024

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 First-Line Maintenance Treatment of Advanced Ovarian Cancer

ZEJULA is indicated for the maintenance treatment of adult patients with advanced epithelial ovarian, fallopian tube, or primary peritoneal cancer who are in a complete or partial response to first-line platinum-based chemotherapy.

1.2 Maintenance Treatment of Recurrent Germline *BRCA***-mutated Ovarian** Cancer

ZEJULA is indicated for the maintenance treatment of adult patients with deleterious or suspected deleterious germline BRCA-mutated (gBRCAmut) recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer who are in a complete or partial response to platinum-based chemotherapy.

Select patients for therapy based on an FDA-approved companion diagnostic for ZEJULA [see Dosage and Administration (2.1)].

2 DOSAGE AND ADMINISTRATION

2.1 Patient Selection

Maintenance Treatment of Recurrent Germline BRCA-mutated Ovarian Cancer

Select patients for the maintenance treatment of recurrent ovarian cancer with ZEJULA based on the presence of deleterious or suspected deleterious germline BRCA mutations [see Clinical Studies (14.2)].

Information on FDA-approved tests for the detection of deleterious or suspected deleterious germline BRCA mutations for this indication is available at https://www.fda.gov/companiondiagnostics.

2.2 Recommended Dosage

Continue treatment with ZEJULA until disease progression or unacceptable toxicity.

Instruct patients to take their dose of ZEJULA at approximately the same time each day. Advise patients to swallow each tablet whole and not to chew, crush, or split ZEJULA prior to swallowing. ZEJULA may be taken with or without food. Bedtime administration may be a potential method for managing nausea. In the case of a missed dose of ZEJULA, instruct patients to take their next dose at its regularly scheduled time. If a patient vomits or misses a dose of ZEJULA, an additional dose should not be taken.

First-Line Maintenance Treatment of Advanced Ovarian Cancer

- For patients weighing <77 kg (<170 lbs) OR with a platelet count of <150,000/mcL, the recommended dosage is 200 mg taken orally once daily.
- For patients weighing \geq 77 kg (\geq 170 lbs) AND who have a platelet count \geq 150,000/mcL, the recommended dosage is 300 mg taken orally once daily.

For the maintenance treatment of advanced ovarian cancer, patients should start treatment with ZEJULA no later than 12 weeks after their most recent platinum-containing regimen.

Maintenance Treatment of Recurrent Germline BRCA-mutated Ovarian Cancer

The recommended dosage of ZEJULA is 300 mg taken orally once daily.

For the maintenance treatment of recurrent ovarian cancer, patients should start treatment with ZEJULA no later than 8 weeks after their most recent platinum-containing regimen.

2.3 Dosage Adjustments for Adverse Reactions

To manage adverse reactions, consider interruption of treatment, dose reduction, or dose discontinuation. The recommended dose modifications for adverse reactions are listed in Tables 1, 2, and 3.

Table 1. Recommended Dose Modifications for Adverse Reactions

Starting Dose Level	200 mg	300 mg			
First dose reduction	100 mg/day ^a	200 mg/day			
Second dose reduction	Discontinue ZEJULA.	100 mg/day ^a			
^a If further dose reduction below 100 mg/day is required, discontinue ZEJULA.					

Table 2. Dose Modifications for Non-Hematologic Adverse Reactions

Non-hematologic CTCAE ≥Grade 3 adverse reaction that persists despite medical management	 Withhold ZEJULA for a maximum of 28 days or until resolution of adverse reaction. Resume ZEJULA at a reduced dose per Table 1.
CTCAE \geq Grade 3 treatment-related adverse reaction lasting more than 28 days while patient is administered ZEJULA 100 mg/day	Discontinue ZEJULA.
CTCAE = Common Terminology Criteria for Ac	dverse Events.

Table 3. Dose Modifications for Hematologic Adverse Reactions

Monitor complete blood counts weekly for the first month, monthly for the next 11 months of treatment, and periodically after this time [see Warnings and Precautions (5.1)].

(5.1)].	Τ
Platelet count <100,000/mcL	First occurrence:
	 Withhold ZEJULA for a maximum of 28 days and monitor blood counts weekly until platelet counts return to ≥100,000/mcL. Resume ZEJULA at same or reduced dose per Table 1.
	 If platelet count is <75,000/mcL, resume at a reduced dose.
	Second occurrence:
	 Withhold ZEJULA for a maximum of 28 days and monitor blood counts weekly until platelet counts return to ≥100,000/mcL. Resume ZEJULA at a reduced dose per Table 1. Discontinue ZEJULA if the platelet count has not returned to acceptable levels within 28 days of the dose interruption period or if the patient has already undergone dose reduction to 100 mg once daily.^a
Neutrophil <1,000/mcL or hemoglobin <8 g/dL	 Withhold ZEJULA for a maximum of 28 days and monitor blood counts weekly until neutrophil counts return to ≥1,500/mcL or hemoglobin returns to ≥9 g/dL. Resume ZEJULA at a reduced dose per Table 1. Discontinue ZEJULA if neutrophils and/or hemoglobin have not returned to acceptable levels within 28 days of the dose interruption period or if the patient has already undergone dose reduction to 100 mg once daily.^a
Hematologic adverse reaction requiring transfusion	 For patients with platelet count ≤10,000/mcL, platelet transfusion should be considered. If there are other risk factors such as coadministration of anticoagulation or antiplatelet drugs, consider interrupting these drugs and/or transfusion at a higher platelet count. Resume ZEJULA at a reduced dose.

^a If myelodysplastic syndrome or acute myeloid leukemia (MDS/AML) is confirmed, discontinue ZEJULA [see Warnings and Precautions (5.1, 5.2)].

2.4 Dosage Adjustment for Hepatic Impairment

Moderate Hepatic Impairment

For patients with moderate hepatic impairment, reduce the starting dosage of ZEJULA to 200 mg once daily. Monitor patients for hematologic toxicity and reduce the dose further, if needed [see Dosage and Administration (2.3), Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

- Tablets: 100-mg gray, oval-shaped, film-coated tablet debossed with "100" on one side and "Zejula" on the other side.
- Tablets: 200-mg blue, oval-shaped, film-coated tablet debossed with "200" on one side and "Zejula" on the other side.
- Tablets: 300-mg green, oval-shaped, film-coated tablet debossed with "300" on one side and "Zejula" on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Myelodysplastic Syndrome/Acute Myeloid Leukemia

Myelodysplastic syndrome/acute myeloid leukemia (MDS/AML), including cases with a fatal outcome, have been reported in patients who received ZEJULA.

In PRIMA, MDS/AML occurred in 6 out of 484 (1.2%) patients treated with ZEJULA and in 3 out of 244 (1.2%) patients treated with placebo [see Adverse Reactions (6.1)]. The duration of therapy with ZEJULA in patients who developed secondary MDS/cancer therapy-related AML varied from 3.7 months to 2.5 years.

In NOVA, of patients within the gBRCAmut cohort, MDS/AML occurred in 10 out of 136 (7%) patients treated with ZEJULA and in 2 out of 65 (3%) patients treated with placebo [see Adverse Reactions (6.1)]. The duration of therapy with ZEJULA in patients who developed secondary MDS/cancer-therapy related AML varied from 3.6 months to 5.9 years.

All patients who developed secondary MDS/cancer-therapy-related AML had received previous chemotherapy with platinum agents and/or other DNA-damaging agents, including radiotherapy.

For suspected MDS/AML or prolonged hematological toxicities, refer the patient to a hematologist for further evaluation. Discontinue ZEJULA if MDS/AML is confirmed.

5.2 Bone Marrow Suppression

Hematologic adverse reactions, including thrombocytopenia, anemia, neutropenia, and/or pancytopenia have been reported in patients treated with ZEJULA [see Adverse Reactions (6)].

In PRIMA, the overall incidences of \geq Grade 3 thrombocytopenia, anemia, and neutropenia were reported in 39%, 31%, and 21%, respectively, of patients receiving

ZEJULA. Discontinuation due to thrombocytopenia, anemia, and neutropenia occurred in 4%, 2%, and 2%, respectively, of patients. In patients who were administered a starting dose of ZEJULA based on baseline weight or platelet count, \geq Grade 3 thrombocytopenia, anemia, and neutropenia were reported in 22%, 23%, and 15%, respectively, of patients receiving ZEJULA. Discontinuation due to thrombocytopenia, anemia, and neutropenia 3%, 3%, and 2%, respectively, of patients.

In NOVA, \geq Grade 3 thrombocytopenia, anemia, and neutropenia were reported in 29%, 25%, and 20%, respectively, of patients receiving ZEJULA. Discontinuation due to thrombocytopenia, anemia, and neutropenia occurred in 3%, 1%, and 2%, respectively, of patients.

Do not start ZEJULA until patients have recovered from hematological toxicity caused by previous chemotherapy (\leq Grade 1). Monitor complete blood counts weekly for the first month, monthly for the next 11 months of treatment, and periodically after this time. If hematological toxicities do not resolve within 28 days following interruption, discontinue ZEJULA and refer the patient to a hematologist for further investigations, including bone marrow analysis and blood sample for cytogenetics [see Dosage and Administration (2.3)].

5.3 Hypertension and Cardiovascular Effects

Hypertension and hypertensive crisis have been reported in patients treated with ZEJULA [see Adverse Reactions (6)].

In PRIMA, Grade 3 to 4 hypertension occurred in 6% of patients treated with ZEJULA compared with 1% of placebo-treated patients with a median time from first dose to first onset of 43 days (range: 1 to 531 days) and with a median duration of 12 days (range: 1 to 61 days). There were no discontinuations due to hypertension.

In NOVA, Grade 3 to 4 hypertension occurred in 9% of patients treated with ZEJULA compared with 2% of placebo-treated patients with a median time from first dose to first onset of 77 days (range: 4 to 504 days) and with a median duration of 15 days (range: 1 to 86 days). Discontinuation due to hypertension occurred in <1% of patients.

Monitor blood pressure and heart rate at least weekly for the first 2 months, then monthly for the first year and periodically thereafter during treatment with ZEJULA. Closely monitor patients with cardiovascular disorders, especially coronary insufficiency, cardiac arrhythmias, and hypertension. Medically manage hypertension with antihypertensive medications and adjustment of the dose of ZEJULA, if necessary [see Dosage and Administration (2.3), Nonclinical Toxicology (13.2)].

5.4 Posterior Reversible Encephalopathy Syndrome

Posterior reversible encephalopathy syndrome (PRES) occurred in 0.1% of 2,165 patients treated with ZEJULA in clinical trials and has also been described in postmarketing reports [see Adverse Reactions (6.2)]. Signs and symptoms of PRES include seizure, headache, altered mental status, visual disturbance, or cortical blindness, with or without associated hypertension. A diagnosis of PRES requires confirmation by brain imaging, preferably magnetic resonance imaging.

Monitor all patients treated with ZEJULA for signs and symptoms of PRES. If PRES is suspected, promptly discontinue ZEJULA and administer appropriate treatment. The safety of reinitiating ZEJULA in patients previously experiencing PRES is not known.

5.5 Embryo-Fetal Toxicity

Based on its mechanism of action, ZEJULA can cause fetal harm when administered to a pregnant woman [see Clinical Pharmacology (12.1)]. ZEJULA has the potential to cause teratogenicity and/or embryo-fetal death since niraparib is genotoxic and targets actively dividing cells in animals and patients (e.g., bone marrow) [see Warnings and Precautions (5.2), Nonclinical Toxicology (13.1)]. Due to the potential risk to a fetus based on its mechanism of action, animal developmental and reproductive toxicology studies were not conducted with niraparib.

Apprise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for 6 months after the last dose of ZEJULA [see Use in Specific Populations (8.1, 8.3)].

6 ADVERSE REACTIONS

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

- MDS/AML [see Warnings and Precautions (5.1)]
- Bone marrow suppression [see Warnings and Precautions (5.2)]
- Hypertension and cardiovascular effects [see Warnings and Precautions (5.3)]
- Posterior reversible encephalopathy syndrome [see Warnings and Precautions (5.4)]

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 with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In a pooled safety population of patients (n = 1,314) with advanced ovarian, fallopian tube, or primary peritoneal cancer treated with ZEJULA monotherapy including PRIMA (n = 484), NOVA (n = 367), and another clinical trial (n = 463), the most common adverse reactions >10% were nausea (65%), thrombocytopenia (60%), anemia (56%), fatigue (55%), constipation (39%), musculoskeletal pain (36%), abdominal pain (35%), vomiting (33%), neutropenia (31%), decreased appetite (24%), leukopenia (24%), insomnia (23%), headache (23%), dyspnea (22%), rash (21%), diarrhea (18%), hypertension (17%), cough (16%), dizziness (14%), acute kidney injury (13%), urinary tract infection (12%), and hypomagnesemia (11%).

First-Line Maintenance Treatment of Advanced Ovarian Cancer

The safety of ZEJULA for the treatment of patients with advanced ovarian cancer following first-line treatment with platinum-based chemotherapy was studied in the PRIMA trial, a placebo-controlled, double-blind study in which 728 patients received niraparib or placebo. Among patients who received ZEJULA, the median duration of treatment was 11.1 months (range: 0.03 to 29 months).

All Patients Receiving ZEJULA in PRIMA: Serious adverse reactions occurred in 32% of patients receiving ZEJULA. Serious adverse reactions in >2% of patients were thrombocytopenia (16%), anemia (6%), and small intestinal obstruction (2.9%). Fatal

adverse reactions occurred in 0.4% of patients, including intestinal perforation and pleural effusion (1 patient each). MDS/AML occurred in 1.2% of patients receiving ZEJULA.

Permanent discontinuation due to adverse reactions occurred in 12% of patients who received ZEJULA. Adverse reactions resulting in permanent discontinuation in >1% of patients who received ZEJULA included thrombocytopenia (3.7%), anemia (1.9%), and nausea and neutropenia (1.2% each).

Adverse reactions led to dose reduction or interruption in 80% of patients, most frequently from thrombocytopenia (56%), anemia (33%), and neutropenia (20%).

Table 4 and Table 5 summarize the common adverse reactions and abnormal laboratory findings, respectively, observed in all patients treated with ZEJULA in the PRIMA study.

	Grades 1-4 ^b		Grades 3-4 ^b	
	ZEJULA (n = 484)	Placebo (n = 244)	ZEJULA (n = 484)	Placebo (n = 244)
Adverse Reaction	%	%	%	%
Blood and lymphatic				
system disorders	6.6	_	20	
Thrombocytopenia	66	5	39	0.4
Anemia	64	18	31	2
Neutropenia ^c	42	8	21	1
Leukopenia ^d	28	9	5	0.4
Gastrointestinal disorders				
Nausea	57	28	1	1
Constipation	40	20	1	0.4
Vomiting	22	12	1	1
General disorders and administration site conditions				
Fatigue	51	41	3	1
Musculoskeletal and connective tissue disorders				
Musculoskeletal pain	39	38	1	0
Nervous system disorders				
Headache	26	15	0.4	0
Dizziness	19	13	0	0.4
Psychiatric disorders				
Insomnia	25	15	1	0.4
Respiratory, thoracic,				

Table 4. Adverse Reactions Reported in $\geq\!10\%$ of All Patients Receiving ZEJULA in PRIMA^a

and mediastinal disorders				
Dyspnea	22	13	0.4	1
Cough	18	15	0	0.4
Metabolism and nutrition disorders				
Decreased appetite	19	8	1	0
Vascular disorders				
Hypertension	18	7	6	1
Investigations				
AST/ALT elevation	14	7	3	0.8
Renal and urinary disorders				
Acute kidney injury ^e	12	5	0.2	0

AST/ALT = Aspartate transaminase/alanine aminotransferase.

^a All adverse reactions in the table consist of grouped preferred terms except for nausea, vomiting, decreased appetite, headache, and insomnia, which are single preferred terms.

^b Common Terminology Criteria for Adverse Events version 4.02.

^c Includes neutropenia, neutropenic infection, neutropenic sepsis, and febrile neutropenia.

^d Includes leukopenia, lymphocyte count decreased, lymphopenia, and white blood cell count decreased.

^e Includes blood creatinine increased, blood urea increased, acute kidney injury, renal failure, and blood creatine increased.

Table 5. Abnormal Laboratory Findings in ≥25% of All Patients Receiving ZEJULA in PRIMA

	Grade	es 1-4	Grade	es 3-4
Abnormal Laboratory Finding	ZEJULA (n = 484) %	Placebo (n = 244) %	ZEJULA (n = 484) %	Placebo (n = 244) %
Decreased hemoglobin	87	66	29	1
Decreased platelets	74	13	37	0
Decreased leukocytes	71	36	9	0
Increased glucose	66	57	3	3
Decreased neutrophils	66	25	23	1
Decreased lymphocytes	51	29	7	3

Increased alkaline phosphatase	46	21	1	0
Increased	40	23	0	0
Decreased magnesium	36	34	1	0
Increased aspartate	35	17	1	0.4
aminotransferase Increased alanine aminotransferase	29	17	2	1

Patients Receiving ZEJULA with Dose Based on Baseline Weight or Platelet Count in *PRIMA:* Among patients who received ZEJULA with the dose based on weight and platelet count, the median duration of treatment was 11 months (range: 1 day to 16 months).

Serious adverse reactions occurred in 27% of patients receiving ZEJULA. Serious adverse reactions in >2% of patients were anemia (8%), and thrombocytopenia (7%). No fatal adverse reactions occurred.

Permanent discontinuation due to adverse reactions occurred in 14% of patients who received ZEJULA. Adverse reactions resulting in permanent discontinuation in >2% of patients who received ZEJULA included thrombocytopenia and anemia (3% each) and nausea (2.4%).

Adverse reactions led to dose reduction or interruption in 72% of patients, most frequently from thrombocytopenia (40%), anemia (23%), and neutropenia (15%).

Table 6 and Table 7 summarize adverse reactions and abnormal laboratory findings in the group of patients who received ZEJULA.

	Grades	5 1-4 ^b	Grades 3-4 ^b	
Adverse Reaction	ZEJULA (n = 169) %	Placebo (n = 86) %	ZEJULA (n = 169) %	Placebo (n = 86) %
Blood and lymphatic system disorders				
Thrombocytopenia	54	5	21	1
Anemia	50	28	23	1
Neutropenia ^c	36	8	15	1
Leukopenia ^d	28	11	5	0
Gastrointestinal disorders				
Nausea	53	21	1	0
Constipation	31	15	1	1
Vomiting	17	9	0	1

Table 6. Adverse Reactions Reported in ≥10% of Patients Receiving ZEJULA Based on Baseline Weight or Platelet Count in PRIMA^a

		1	
19	36	2	0
40	50	5	0
		_	
			0
14	13	0	0
21	14	0	0
19	5	1	0
18	10	0	1
17	9	5	2
12	5	1	0
	19 18 17	22 17 14 13 21 14 19 5 18 10 17 9	22 17 1 14 13 0 21 14 0 19 5 1 18 10 0 17 9 5

^a All adverse reactions in the table consist of grouped preferred terms except for nausea, vomiting, decreased appetite, headache, and insomnia, which are single preferred terms.

^b Common Terminology Criteria for Adverse Events version 4.02.

^c Includes neutropenia, neutropenic infection, neutropenic sepsis, and febrile neutropenia.

^d Includes leukopenia, lymphocyte count decreased, lymphopenia, and white blood cell count decreased.

^e Includes blood creatinine increased, blood urea increased, acute kidney injury, renal failure, and blood creatine increased.

Table 7. Abnormal Laboratory Findings in ≥25% of All Patients Receiving ZEJULA Based on Baseline Weight or Platelet Count in PRIMA

	Grades 1-4		Grade	es 3-4
Abnormal Laboratory Finding	ZEJULA (n = 169) %	Placebo (n = 86) %	ZEJULA (n = 169) %	Placebo (n = 86) %
Decreased hemoglobin	81	70	21	0
Decreased leukocytes	70	36	6	0
Decreased platelets	63	15	18	0

Increased glucose	63	56	2	1
Decreased neutrophils	60	27	15	0
Decreased lymphocytes	52	30	5	4
Decreased	44	30	0	0
magnesium Increased alkaline	43	17	1	0
phosphatase Increased	41	22	0	0
creatinine Increased	31	19	1	0
aspartate aminotransferase				
Increased alanine aminotransferase	28	15	2	2

Maintenance Treatment of Recurrent Germline BRCA-mutated Ovarian Cancer

The safety of monotherapy with ZEJULA 300 mg once daily has been studied in 136 patients with platinum-sensitive recurrent g*BRCA*mut ovarian, fallopian tube, and primary peritoneal cancer in the NOVA trial. The percentages of patients who experienced adverse reactions in NOVA that led to dose reduction and dose interruption were 79% and 68%, respectively, most frequently from thrombocytopenia (41% and 35%, respectively) and anemia (23% and 20%, respectively). The permanent discontinuation rate due to adverse reactions in NOVA was 13%. The median exposure to ZEJULA in these patients was 367 days.

Table 8 and Table 9 summarize the common adverse reactions and abnormal laboratory findings, respectively, observed in patients treated with ZEJULA in the gBRCAmut cohort in NOVA.

	Grades	5 1-4 ^a	Grade	s 3-4 ^a
Adverse Reaction	ZEJULA (n = 136) %	Placebo (n = 65) %	ZEJULA (n = 136) %	Placebo (n = 65) %
Gastrointestinal				
disorders				
Nausea	77	34	5	3
Vomiting	40	15	4	0
Constipation	38	18	0.7	2
Dyspepsia	17	12	0	0
Dry mouth	13	3	0.7	0
Blood and lymphatic system disorders				

Table 8. Adverse Reactions Reported in ≥10% of Patients Receiving ZEJULA in NOVA gBRCAmut Cohort

Thrombocytopenia ^b	71	5	38	2
Anemia ^c	52	8	33	0
Neutropenia ^d	31	9	21	3
General disorders and administration site conditions	61	25		
Fatigue ^e	61	35	8	2
Nervous system disorders				
Headache	35	8	0.7	0
Dizziness	18	9	0	0
Dysgeusia	13	2	0	0
Metabolism and nutrition disorders				
Decreased appetite	22	14	0	0
Vascular disorders				
Hypertension	21	8	8	5
Psychiatric disorders				
Insomnia	18	6	0.7	0
Anxiety	10	11	0.7	0
Respiratory, thoracic, and mediastinal disorders				
Dyspnea	17	5	2	0
Cough	16	2	0	0
Nasopharyngitis	13	5	0	0
Musculoskeletal and connective tissue disorders				
Back pain	16	11	0.7	0
Infections and infestations			0.7	
Urinary tract infection	11	9	0	2
Skin and subcutaneous tissue disorders				
Rash	10	2	0	0
^a Common Terminology			_	<u> </u>
^b Includes platelet coun				
^c Includes hemoglobin (

^c Includes hemoglobin decreased.

^d Includes neutrophil count decreased.

^e Includes asthenia, malaise, lethargy.

The following adverse reactions have been identified in ≥ 1 to <10% of the 136 patients receiving ZEJULA in the gBRCAmut cohort of the NOVA trial and not included in the

table: palpitations (9%), mucositis/stomatitis (9%), MDS/AML (7%), tachycardia (7%), and bronchitis (4%).

	Grade	es 1-4	Grade	es 3-4
Abnormal Laboratory Finding	ZEJULA (n = 136) %	Placebo (n = 65) %	ZEJULA (n = 136) %	Placebo (n = 65) %
Decrease in hemoglobin	85	62	32	0
Decrease in platelet count	81	25	38	2
Decrease in white blood cell count	71	37	9	2
Decrease in absolute neutrophil count	56	34	23	3
Increase in aspartate aminotransferase	35	25	0.7	0
Increase in alanine aminotransferase	25	15	0.7	2

Table 9. Abnormal Laboratory Findings in ≥25% of Patients Receiving ZEJULA in NOVA gBRCAmut Cohort

6.2 Postmarketing Experience

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

Blood and Lymphatic System Disorders

Pancytopenia.

Immune System Disorders

Hypersensitivity (including anaphylaxis).

Nervous System Disorders

Posterior reversible encephalopathy syndrome (PRES).

Psychiatric Disorders

Confusional state/disorientation, hallucination, cognitive impairment (e.g., memory impairment, concentration impairment).

Respiratory, Thoracic, and Mediastinal Disorders

Non-infectious pneumonitis.

Skin and Subcutaneous Tissue Disorders

Photosensitivity. <u>Vascular Disorders</u>

Hypertensive crisis.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on its mechanism of action, ZEJULA can cause fetal harm when administered to pregnant women [see Clinical Pharmacology (12.1)]. There are no data regarding the use of ZEJULA in pregnant women to inform the drug-associated risk. ZEJULA has the potential to cause teratogenicity and/or embryo-fetal death since niraparib is genotoxic and targets actively dividing cells in animals and patients (e.g., bone marrow) [see Warnings and Precautions (5.2), Nonclinical Toxicology (13.1)]. Due to the potential risk to a fetus based on its mechanism of action, animal developmental and reproductive toxicology studies were not conducted with niraparib. Apprise pregnant women 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% to 4% and 15% to 20%, respectively.

8.2 Lactation

<u>Risk Summary</u>

No data are available regarding the presence of niraparib or its metabolites in human milk, or on its effects on the breastfed child or milk production. Because of the potential for serious adverse reactions in a breastfed child, advise a lactating woman not to breastfeed during treatment with ZEJULA and for 1 month after receiving the last dose.

8.3 Females and Males of Reproductive Potential

ZEJULA 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 ZEJULA.

Contraception

Females: Advise females of reproductive potential to use effective contraception during treatment with ZEJULA and for 6 months following the last dose.

<u>Infertility</u>

Males: Based on animal studies, ZEJULA may impair fertility in males of reproductive potential [see Nonclinical Toxicology (13.1)].

8.4 Pediatric Use

The safety and effectiveness of ZEJULA have not been established in pediatric patients.

8.5 Geriatric Use

In PRIMA, 39% of patients were aged 65 years or older and 10% were aged 75 years or older. In NOVA, 35% of patients were aged 65 years or older and 8% were aged 75 years or older. No overall differences in safety and effectiveness of ZEJULA were observed between these patients and younger patients but greater sensitivity of some older individuals cannot be ruled out.

8.6 Renal Impairment

No dose adjustment is necessary for patients with mild (CLcr: 60 to 89 mL/min) to moderate (CLcr: 30 to 59 mL/min) renal impairment. The degree of renal impairment was determined by creatinine clearance as estimated by the Cockcroft-Gault equation. The safety of ZEJULA in patients with severe renal impairment or end-stage renal disease undergoing hemodialysis is unknown.

8.7 Hepatic Impairment

For patients with moderate hepatic impairment, reduce the starting dosage of niraparib to 200 mg once daily [see Dosage and Administration (2.4)]. Niraparib exposure increased in patients with moderate hepatic impairment [total bilirubin \geq 1.5 x upper level of normal (ULN) to 3.0 x ULN and any aspartate transaminase (AST) level]. Monitor patients for hematologic toxicity and reduce the dose further, if needed [see Dosage and Administration (2.3)].

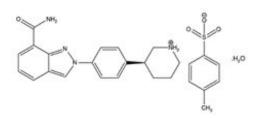
For patients with mild hepatic impairment (total bilirubin $<1.5 \times ULN$ and any AST level or bilirubin \leq ULN and AST >ULN), no dose adjustment is needed.

The recommended dose of ZEJULA has not been established for patients with severe hepatic impairment (total bilirubin >3.0 x ULN and any AST level) [see Clinical Pharmacology (12.3)].

11 DESCRIPTION

Niraparib is an orally available poly (ADP-ribose) polymerase (PARP) inhibitor.

The chemical name for niraparib tosylate monohydrate is 2-{4-[(3S)-piperidin-3-yl]phenyl}-2H-indazole 7-carboxamide 4-methylbenzenesulfonate hydrate (1:1:1). The molecular formula is $C_{26}H_{30}N_4O_5S$ and it has a molecular weight of 510.61 amu. The molecular structure is shown below:



Niraparib tosylate monohydrate is a white to off-white, non-hygroscopic crystalline solid. Niraparib solubility is pH independent below the pKa of 9.95, with an aqueous free base solubility of 0.7 mg/mL to 1.1 mg/mL across the physiological pH range.

Each ZEJULA tablet contains 159.3 mg, 318.7 mg, or 478.0 mg of niraparib tosylate monohydrate equivalent to 100 mg, 200 mg, or 300 mg, respectively, of niraparib free base as the active ingredient. The inactive ingredients in the core tablet are crospovidone, lactose monohydrate, magnesium stearate, microcrystalline cellulose, povidone, and silicon dioxide. The film-coating consists of Opadry II Gray (100 mg), Opadry II Blue (200 mg), or Opadry II Green (300 mg).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Niraparib is an inhibitor of PARP enzymes, including PARP-1 and PARP-2, that play a role in DNA repair. In vitro studies have shown that niraparib-induced cytotoxicity may involve inhibition of PARP enzymatic activity and increased formation of PARP-DNA complexes resulting in DNA damage, apoptosis, and cell death. Increased niraparib-induced cytotoxicity was observed in tumor cell lines with or without deficiencies in *BRCA1/2*. Niraparib decreased tumor growth in mouse xenograft models of human cancer cell lines with deficiencies in *BRCA1/2* and in human patient-derived xenograft tumor models with homologous recombination deficiency (HRD) that had either mutated or wild-type *BRCA1/2*.

12.2 Pharmacodynamics

The pharmacodynamic response of niraparib has not been characterized.

Hypertension and Cardiovascular Effects

Niraparib has the potential to cause effects on pulse rate and blood pressure in patients receiving the recommended dose, which may be related to pharmacological inhibition of the dopamine transporter (DAT), norepinephrine transporter (NET), and serotonin transporter (SERT) [see Nonclinical Toxicology (13.2)].

In the PRIMA study, mean pulse rate and blood pressure increased over baseline in the niraparib arm relative to the placebo arm at most on-study assessments. Mean greatest increases from baseline in pulse rate on treatment were 22.4 and 14.0 beats/min in the niraparib and placebo arms, respectively. Mean greatest increases from baseline in systolic blood pressure on treatment were 24.4 and 19.6 mmHg in the niraparib and placebo arms, respectively. Mean greatest from baseline in diastolic blood pressure on treatment were 15.9 and 13.9 mmHg in the niraparib and placebo arms, respectively.

In the NOVA study, mean pulse rate and blood pressure increased over baseline in the niraparib arm relative to the placebo arm at all on-study assessments. Mean greatest increases from baseline in pulse rate on treatment were 24.1 and 15.8 beats/min in the niraparib and placebo arms, respectively. Mean greatest increases from baseline in systolic blood pressure on treatment were 24.5 and 18.3 mmHg in the niraparib and placebo arms, respectively. Mean greatest from baseline in diastolic blood pressure on treatment were 24.5 and 18.3 mmHg in the niraparib and placebo arms, respectively. Mean greatest increases from baseline in diastolic blood pressure on treatment were 16.5 and 11.6 mmHg in the niraparib and placebo arms,

respectively.

Cardiac Electrophysiology

The potential for QTc prolongation with niraparib was evaluated in a randomized, placebo-controlled trial in patients with cancer (367 patients on niraparib and 179 patients on placebo). No large changes in the mean QTc interval (>20 ms) were detected in the trial following the treatment of niraparib 300 mg once daily.

12.3 Pharmacokinetics

Following a single-dose administration of 300 mg niraparib, the mean (±SD) peak plasma concentration (C_{max}) was 804 (±403) ng/mL. The exposure (C_{max} and AUC) of niraparib increased in a dose-proportional manner with daily doses ranging from 30 mg (0.1 times the approved recommended dose) to 400 mg (1.3 times the approved recommended dose). The accumulation ratio of niraparib exposure following 21 days of repeated daily doses was approximately 2-fold for doses ranging from 30 to 400 mg.

<u>Absorption</u>

The absolute bioavailability of niraparib is approximately 73%. Following oral administration of niraparib, peak plasma concentration, C_{max}, is reached within 3 hours.

Food Effect: Following a high-fat meal (800 to 1,000 calories with approximately 50% of total caloric content of the meal from fat) in patients with solid tumors, the C_{max} of niraparib tablets increased by 11% and AUC_{inf} increased by 28%, as compared with fasted conditions.

Distribution

Niraparib is 83.0% bound to human plasma proteins. The average (\pm SD) apparent volume of distribution (Vd/F) was 1,220 (\pm 1,114) L. In a population pharmacokinetic analysis, the Vd/F of niraparib was 1,074 L in patients with cancer.

<u>Elimination</u>

Following multiple daily doses of 300 mg of niraparib, the mean half-life ($t_{1/2}$) is 36 hours. In a population pharmacokinetic analysis, the apparent total clearance (CL/F) of niraparib was 16.2 L/h in patients with cancer.

Metabolism: Niraparib is metabolized by carboxylesterases (CEs) to form a major inactive metabolite, which subsequently undergoes glucuronidation.

Excretion: Following administration of a single oral 300-mg dose of radio-labeled niraparib, the average percent recovery of the administered dose over 21 days was 47.5% (range: 33.4% to 60.2%) in urine and 38.8% (range: 28.3% to 47.0%) in feces. In pooled samples collected over 6 days, unchanged niraparib accounted for 11% and 19% of the administered dose recovered in urine and feces, respectively.

Specific Populations

Age (18 to 65 years), race/ethnicity, and mild to moderate renal impairment (CLcr \geq 30 to 90 mL/min) had no clinically significant effect on the pharmacokinetics of niraparib.

The effect of severe renal impairment (CLcr <30 mL/min) or end-stage renal disease undergoing hemodialysis on the pharmacokinetics of niraparib is unknown.

Patients with Hepatic Impairment: Mild hepatic impairment (total bilirubin <1.5 x ULN and

any AST level or bilirubin \leq ULN and AST > ULN) had no clinically significant effect on the pharmacokinetics of niraparib.

In a trial of patients with moderate hepatic impairment (total bilirubin $\geq 1.5 \times ULN$ to 3.0 x ULN and any AST level) (n = 8), niraparib AUC_{inf} was 1.56 (90% CI: 1.06 to 2.30) times higher compared with patients with normal hepatic function (n = 9) following administration of a single 300-mg dose. Niraparib dosage reduction is recommended for patients with moderate hepatic impairment [see Dosage and Administration (2.4)]. Moderate hepatic impairment did not have an effect on niraparib C_{max} or on niraparib protein binding.

The effect of severe hepatic impairment (total bilirubin $>3.0 \times ULN$ and any AST level) on the pharmacokinetics of niraparib is unknown.

Drug Interaction Studies

No clinical drug interaction studies have been performed with ZEJULA.

In Vitro Studies: Inhibition of Cytochrome P450 (CYP) Enzymes: Neither niraparib nor the major primary metabolite M1 is an inhibitor of CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, and CYP3A4.

Induction of CYP Enzymes: Neither niraparib nor M1 is a CYP3A4 inducer. Niraparib weakly induces CYP1A2 in vitro.

Substrate of CYP Enzymes: Niraparib is a substrate of CEs and the resulting M1 is further metabolized through the formation of glucuronides in vivo.

Inhibition of Uridine 5'-Diphospho-Glucuronosyltransferases (UGTs): Niraparib did not exhibit inhibitory effect against the UGT isoforms (UGT1A1, UGT1A4, UGT1A9, and UGT2B7) up to 200 microM in vitro. Therefore, the potential for a clinically relevant inhibition of UGTs by niraparib is minimal.

Inhibition of Transporter Systems: Niraparib is a weak inhibitor of breast cancer resistance protein (BCRP) but does not inhibit P-glycoprotein (P-gp), bile salt export pump (BSEP), or multidrug resistance-associated protein 2 (MRP2).

Niraparib is an inhibitor of multidrug and toxin extrusion (MATE) 1 and 2 with IC₅₀ of 0.18 microM and \leq 0.14 microM, respectively. Increased plasma concentrations of coadministered drugs that are substrates of these transporters (e.g., metformin) cannot be excluded.

The M1 metabolite is not an inhibitor of P-gp, BCRP, BSEP, MRP2, or MATE1 or 2. Neither niraparib nor M1 is an inhibitor of organic anion transporting polypeptide (OATP)1B1, OATP1B3, organic cation transporter (OCT1)1, organic anion transporter (OAT)1, OAT3, or OCT2.

Substrate of Transporter Systems: Niraparib is a substrate of P-gp and BCRP. Niraparib is not a substrate of BSEP, MRP2, or MATE1 or 2. The M1 metabolite is not a substrate of P-gp, BCRP, BSEP, or MRP2. However, M1 is a substrate of MATE1 and 2. Neither niraparib nor M1 is a substrate of OATP1B1, OATP1B3, OCT1, OAT1, OAT3, or OCT2.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies have not been conducted with niraparib.

Niraparib was clastogenic in an in vitro mammalian chromosomal aberration assay and in an in vivo rat bone marrow micronucleus assay. This clastogenicity is consistent with genomic instability resulting from the primary pharmacology of niraparib and indicates potential for genotoxicity in humans. Niraparib was not mutagenic in a bacterial reverse mutation assay (Ames) test.

Fertility studies in animals have not been conducted with niraparib. In repeat-dose oral toxicity studies, niraparib was administered daily for up to 3 months' duration in rats and dogs. Reduced sperm, spermatids, and germ cells in epididymides and testes were observed at doses ≥ 10 mg/kg and ≥ 1.5 mg/kg in rats and dogs, respectively. These dose levels resulted in systemic exposures approximately 0.3 and 0.012 times, respectively, the human exposure (AUC_{0-24h}) at the recommended dose of 300 mg daily. There was a trend toward reversibility of these findings 4 weeks after dosing was stopped.

13.2 Animal Toxicology and/or Pharmacology

In vitro, niraparib bound to DAT, NET, and SERT and inhibited uptake of norepinephrine and dopamine in cells with IC_{50} values that were lower than the C_{min} at steady-state in patients receiving the recommended dose. Niraparib has the potential to cause effects in patients related to inhibition of these transporters (e.g., cardiovascular, central nervous system).

Intravenous administration of niraparib to vagotomized dogs over 30 minutes at 1, 3, and 10 mg/kg resulted in an increased range of arterial pressures of 13% to 20%, 18% to 27%, and 19% to 25%, respectively, and increased range of heart rates of 2% to 11%, 4% to 17%, and 12% to 21%, respectively, above pre-dose levels. The unbound plasma concentrations of niraparib in dogs at these dose levels were approximately 0.5, 1.5, and 5.8 times the unbound C_{max} at steady-state in patients receiving the recommended dose.

In addition, niraparib crossed the blood-brain barrier in rats and monkeys following oral administration. The cerebrospinal fluid:plasma C_{max} ratios of niraparib administered at 10 mg/kg orally to 2 rhesus monkeys were 0.10 and 0.52.

14 CLINICAL STUDIES

14.1 First-Line Maintenance Treatment of Advanced Ovarian Cancer

PRIMA (NCT02655016) was a double-blind, placebo-controlled trial in which patients (N = 733) in complete or partial response to first-line platinum-based chemotherapy were randomized 2:1 to ZEJULA or matched placebo. Initially, the patients received a starting dosage of 300 mg once daily regardless of body weight or platelet count. The study was amended to include a starting dose of 200 mg for patients weighing <77 kg (<170 lbs) OR with a platelet count of <150,000/mcL or 300 mg for patients weighing \geq 77 kg (\geq 170 lbs) AND who had a platelet count \geq 150,000/mcL.

Patients were randomized post-completion of first-line platinum-based chemotherapy plus surgery. Randomization was stratified by best response during the front-line

platinum regimen (complete response vs. partial response), neoadjuvant chemotherapy (NACT) (yes vs. no), and HRD status (positive vs. negative or not determined). HRD status was determined using the FDA-approved Myriad myChoice CDx assay. HRD positive status included either tumor *BRCA* mutant (*tBRCA*m) or a genomic instability score (GIS) \geq 42.

The major efficacy outcome measure, progression-free survival (PFS), was determined by blinded independent central review (BICR) per Response Evaluation Criteria in Solid Tumors (RECIST) version 1.1. In some cases, criteria other than RECIST, such as clinical signs and symptoms and increasing CA-125, were also applied. Overall survival was an additional efficacy outcome measure. PFS testing was performed hierarchically: first in the homologous recombination (HR)-deficient (HRD positive) population, then in the overall population. The median age of 62 ranged from 32 to 85 years among patients randomized with ZEJULA and 33 to 88 years among patients randomized with placebo. Eighty-nine percent of all patients were White. Sixty-nine percent of patients randomized with ZEJULA and 71% of patients randomized with placebo had an Eastern Cooperative Oncology Group Performance Status (ECOG PS) of 0 at study baseline. Approximately 45% of patients were enrolled in the U.S. or Canada. In the overall population, 65% of patients had stage III disease and 35% had stage IV disease. Sixty-seven percent of the patients received NACT. Sixty-nine percent of the patients had a complete response to the first-line platinum-based chemotherapy. Approximately 35% (n = 258) of patients received a starting dose of 200 or 300 mg depending on baseline body weight and platelet count. Among those patients, 186 patients received a starting dose of 200 mg.

PRIMA demonstrated a statistically significant improvement in PFS for patients randomized to ZEJULA as compared with placebo in the HR-deficient and overall population (Table 10, Figure 1, and Figure 2).

	HR-Deficient	Population	Overall P	opulation
	ZEJULA (n = 247)	Placebo (n = 126)	ZEJULA (n = 487)	Placebo (n = 246)
Progression-free survival events, n (%)	81 (33)	73 (58)	232 (48)	155 (63)
Progression-free survival median in months (95% CI)	21.9 (19.3, NE)	10.4 (8.1, 12.1)	13.8 (11.5, 14.9)	8.2 (7.3, 8.5)
Hazard ratio ^b (95% CI)	0.4 (0.31,		0.6 (0.50,	
P value ^c	<0.0	0001	<0.0	0001

BICR = Blinded Independent Central Review, HR = Homologous Recombination, NE = not estimable.

^a Efficacy analysis was based on blinded independent central review.

^b Based on a stratified Cox proportional hazards model.

^c Based on a stratified log-rank test.

In exploratory subgroup analyses of patients who were administered a starting dose of

ZEJULA or matched placebo based on baseline weight or platelet count, the hazard ratio for PFS was 0.39 (95% CI: 0.22, 0.72) in the HR-deficient subgroup (n = 130) and 0.68 (95% CI: 0.48, 0.97) in the overall population (n = 258).

Figure 1. Progression-Free Survival - PRIMA Patients with HR-Deficient Tumors (Intent-to-Treat Population, N = 373)

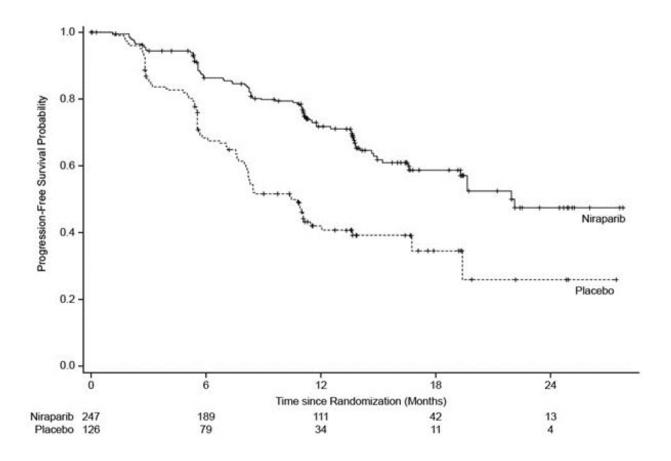
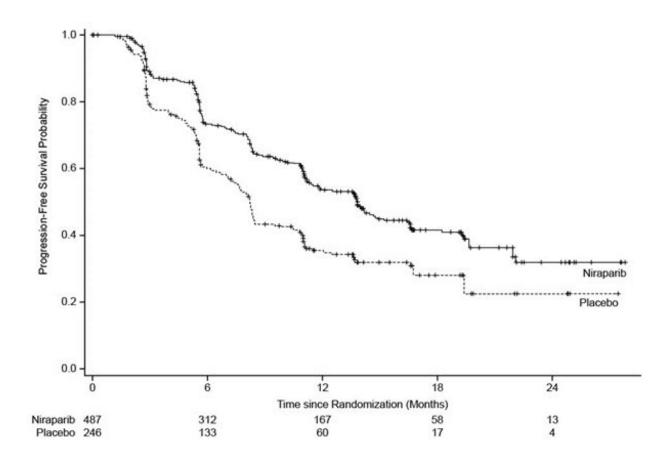


Figure 2. Progression-Free Survival - PRIMA Overall Population (Intent-to-Treat Population, N = 733)



At the time of the PFS analysis, overall survival data were immature, with 11% deaths in the overall population.

14.2 Maintenance Treatment of Recurrent Germline *BRCA*-mutated Ovarian Cancer

NOVA (NCT01847274) was a double-blind, placebo-controlled trial in which patients (N = 553) with platinum-sensitive recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer were randomized 2:1 to ZEJULA 300 mg orally daily or matched placebo within 8 weeks of the last therapy. Treatment was continued until disease progression or unacceptable toxicity. All patients had received at least 2 prior platinum-containing regimens and were in response (complete or partial) to their most recent platinum-based regimen.

Randomization was stratified by time to progression after the penultimate platinum therapy (6 to <12 months and ≥12 months), use of bevacizumab in conjunction with the penultimate or last platinum regimen (yes/no), and best response during the most recent platinum regimen (complete response and partial response). Eligible patients were assigned to 1 of 2 cohorts based on the results of germline *BRCA* testing with Myriad BRACAnalysis CDx. Patients with deleterious or suspected deleterious germline *BRCA* mutations (g*BRCA*mut) were assigned to the germline *BRCA*-mutated (g*BRCA*mut) cohort (n = 203), and those without germline *BRCA* mutations were assigned to the other plate of the germline *BRCA* mutations were assigned to the other plate of the plate of the

The major efficacy outcome measure, PFS, was determined primarily by central independent assessment per RECIST version 1.1. In some cases, criteria other than RECIST, such as clinical signs and symptoms and increasing CA-125, were also applied.

Overall survival (OS) was an additional outcome measure.

For the gBRCAmut cohort, the median age of patients was 57 years among patients treated with ZEJULA and 58 years among patients treated with placebo. Eighty-eight percent of all patients were White. Sixty-six percent of patients receiving ZEJULA and 74% of patients receiving placebo had an ECOG PS of 0 at study baseline. Approximately 40% of patients were enrolled in the U.S. or Canada, and 51% of all patients were in complete response to most recent platinum-based regimen, with 39% on both arms with an interval of 6 to 12 months since the penultimate platinum regimen. Twenty-four percent of those treated with ZEJULA and 26% treated with placebo had received prior bevacizumab therapy. Approximately 50% of patients had 3 or more lines of treatment.

The trial demonstrated a statistically significant improvement in PFS for patients randomized to ZEJULA as compared with placebo in the gBRCAmut cohort (Table 11 and Figure 3).

Table 11. Efficacy Results - NOVA gBRCAmut Cohort (IRC Assessment^a)

	ZEJULA (n = 138)	Placebo (n = 65)
Progression-free survival	21.0	5.5
median in months (95% CI)	(12.9, NR)	(3.8, 7.2)
Hazard ratio ^b (95% CI)	•••	26
	(0.17,	, 0.41)
P value ^c	<0.0	0001

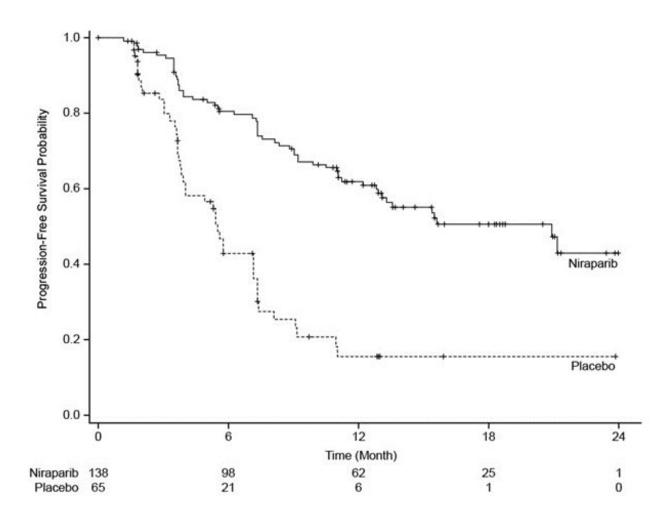
IRC = Independent Review Committee, gBRCAmut = germline BRCA-mutated, NR = not reached.

^a Efficacy analysis was based on blinded central independent radiologic and clinical oncology review committee.

^b Based on a stratified Cox proportional hazards model.

^c Based on a stratified log-rank test.

Figure 3. Progression-Free Survival - NOVA gBRCAmut Cohort Based on IRC Assessment (N = 203)



gBRCAmut = germline BRCA-mutated, IRC = Independent Review Committee.

A final OS analysis was conducted after 154 events were observed. Exploratory OS results showed a HR of 0.85 (95% CI: 0.61, 1.20) in the gBRCAmut cohort with a median OS of 40.9 months (95% CI: 34.9, 52.9) for patients treated with ZEJULA and 38.1 months (95% CI: 27.6, 47.3) for patients on placebo.

16 HOW SUPPLIED/STORAGE AND HANDLING

ZEJULA is available as oval-shaped, film-coated tablets containing 100 mg, 200 mg, or 300 mg of niraparib free base.

ZEJULA 100-mg tablets are gray, debossed with "100" on one side and "Zejula" on the other side. Bottle of 30 tablets (NDC 0173-0909-13).

ZEJULA 200-mg tablets are blue, debossed with "200" on one side and "Zejula" on the other side. Bottle of 30 tablets (NDC 0173-0912-13).

ZEJULA 300-mg tablets are green, debossed with "300" on one side and "Zejula" on the other side. Bottle of 30 tablets (NDC 0173-0915-13).

Store and dispense in the original bottle. Store at 20°C to 25°C (68°F to 77°F); excursions are permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Myelodysplastic Syndrome/Acute Myeloid Leukemia

Advise patients to contact their healthcare provider if they experience weakness, feeling tired, fever, weight loss, frequent infections, bruising, bleeding easily, breathlessness, blood in urine or stool, and/or laboratory findings of low blood cell counts or a need for blood transfusions. This may be a sign of hematological toxicity or MDS or AML, which has been reported in patients treated with ZEJULA [see Warnings and Precautions (5.1)].

Bone Marrow Suppression

Advise patients that periodic monitoring of their blood counts is required. Advise patients to contact their healthcare provider for new onset of bleeding, fever, or symptoms of infection [see Warnings and Precautions (5.2)].

Hypertension and Cardiovascular Effects

Advise patients to undergo blood pressure and heart rate monitoring at least weekly for the first 2 months, then monthly for the first year of treatment and periodically thereafter. Advise patients to contact their healthcare provider if blood pressure is elevated [see Warnings and Precautions (5.3)].

Posterior Reversible Encephalopathy Syndrome

Inform patients that they are at risk of developing posterior reversible encephalopathy syndrome (PRES) that can present with signs and symptoms including seizure, headaches, altered mental status, or vision changes. Advise patients to contact their healthcare provider if they develop any of these signs or symptoms [see Warnings and Precautions (5.4)].

Dosing Instructions

Inform patients on how to take ZEJULA [see Dosage and Administration (2.2)]. ZEJULA should be taken once daily. Instruct patients that if they miss a dose of ZEJULA not to take an extra dose to make up for the one that they missed. They should take their next dose at the regularly scheduled time. Each tablet should be swallowed whole. ZEJULA may be taken with or without food. Bedtime administration may be a potential method for managing nausea.

Embryo-Fetal Toxicity

Advise females to inform their healthcare provider if they are pregnant or become pregnant. Inform female patients of the risk to a fetus and potential loss of the pregnancy [see Warnings and Precautions (5.5), Use in Specific Populations (8.1)].

Contraception

Advise females of reproductive potential to use effective contraception during treatment with ZEJULA and for 6 months after receiving the last dose [see Use in Specific Populations (8.3)].

Lactation

Advise patients not to breastfeed while taking ZEJULA and for 1 month after the last dose [see Use in Specific Populations (8.2)].

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Manufactured for

GlaxoSmithKline

Durham, NC 27701

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ZJT:3PI

Patient Information ZEJULA (zuh-JOO-luh) (niraparib) tablets

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

- Bone marrow problems called myelodysplastic syndrome (MDS) or a type of cancer of the blood called acute myeloid leukemia (AML). Some people who have ovarian cancer and who have received previous treatment with chemotherapy or certain other medicines for their cancer have developed MDS or AML during treatment with ZEJULA. MDS or AML may lead to death. If you develop MDS or AML, your healthcare provider will stop treatment with ZEJULA. Symptoms of low blood cell counts (low red blood cells, low white blood cells, and low platelets) are common during treatment with ZEJULA, but can be a sign of serious bone marrow problems, including MDS or AML. Symptoms may include:
 - weakness
 feeling tired
 weight loss
 frequent infections

⊖ fever

- shortness of breath
- \bigcirc blood in urine or stool
- \bigcirc bruising or bleeding more easily

Your healthcare provider will do blood tests to check your blood cell counts: $_{\bigcirc}$ before treatment with ZEJULA.

 \bigcirc weekly for the first month of treatment with ZEJULA.

• every month for the next 11 months, then as needed during treatment with ZEJULA.

- High blood pressure. High blood pressure is common during treatment with ZEJULA and can become serious. Your healthcare provider will check your blood pressure and heart rate at least weekly for the first 2 months, then monthly for the first year and as needed thereafter during your treatment with ZEJULA.
- **Posterior reversible encephalopathy syndrome (PRES).** PRES is a condition that affects the brain and may happen during treatment with ZEJULA. If you have headache, vision changes, confusion, or seizure with or without high blood pressure, please contact your healthcare provider.

See "What are the possible side effects of ZEJULA?" for more information about side effects.

What is ZEJULA?

ZEJULA is a prescription medicine used for the:

- maintenance treatment of adults with advanced ovarian cancer, fallopian tube cancer, or primary peritoneal cancer. ZEJULA is used after the cancer has responded (complete or partial response) to treatment with platinum-based chemotherapy.
- maintenance treatment of adults with ovarian cancer, fallopian tube cancer, or primary peritoneal cancer with a certain type of inherited (germline) abnormal BRCA gene that comes back. ZEJULA is used after the cancer has responded (complete or partial response) to treatment with platinum-based chemotherapy. Your healthcare provider will perform a test to make sure that ZEJULA is right for you.

It is not known if ZEJULA is safe and effective in children.

Before taking ZEJULA, tell your healthcare provider about all of your medical conditions, including if you:

- have heart problems.
- have liver problems.
- have high blood pressure.
- are pregnant or plan to become pregnant. ZEJULA can harm your unborn baby and may cause loss of pregnancy (miscarriage).
- If you are able to become pregnant, your healthcare provider should perform a pregnancy test before you start treatment with ZEJULA.
- Females who are able to become pregnant should use effective birth control (contraception) during treatment with ZEJULA and for 6 months after the last dose of ZEJULA. Talk to your healthcare provider about birth control methods that may be right for you.
- Tell your healthcare provider right away if you become pregnant.
- are breastfeeding or plan to breastfeed. It is not known if ZEJULA passes into your breast milk. Do not breastfeed during treatment with ZEJULA and for 1 month after the last dose of ZEJULA. Talk to your healthcare provider about the best way to feed your baby during this time.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. **How should I take ZEIULA?**

- Take ZEJULA exactly as your healthcare provider tells you to.
- Take ZEJULA 1 time each day, at the same time each day.
- ZEJULA may be taken with or without food.
- ZEJULA tablets should be swallowed whole. Do not chew, crush, or split ZEJULA tablets before swallowing.
- Taking ZEJULA at bedtime may help relieve any nausea symptoms you may have.
- Do not stop taking ZEJULA without first talking with your healthcare provider.
- If you miss a dose of ZEJULA, take your next dose at your scheduled time. Do not take an extra dose to make up for a missed dose.
- If you vomit after taking a dose of ZEJULA, do not take an extra dose. Take your

next dose at your scheduled time.

• If you take too much ZEJULA, call your healthcare provider or go to the nearest hospital emergency room right away.

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

See "What is the most important information I should know about ZEJULA?"

The most common side effects of ZEJULA include:

- nausea
- tiredness
- constipation
- pain in your muscles and back
- pain in the stomach area
- vomiting
- loss of appetite
- trouble sleeping
- headache

- shortness of breath
- rash
- diarrhea
- cough
- dizziness
- changes in the amount or color of your urine
- urinary tract infection
- low levels of magnesium in the blood

Your healthcare provider may change your dose, temporarily stop treatment, or permanently stop treatment with ZEJULA if you have certain side effects.

These are not all the possible side effects of ZEJULA.

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

How should I store ZEJULA?

- Store ZEJULA at room temperature between 68°F to 77°F (20°C to 25°C).
- Store ZEJULA tablets in the original bottle.

Keep ZEJULA and all medicines out of the reach of children.

General information about the safe and effective use of ZEJULA.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use ZEJULA for a condition for which it was not prescribed. Do not give ZEJULA to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about ZEJULA that is written for health professionals.

What are the ingredients in ZEJULA?

Active ingredient: niraparib.

Inactive ingredients:

Core tablet: crospovidone, lactose monohydrate, magnesium stearate, microcrystalline cellulose, povidone, and silicon dioxide.

Film-coating: Opadry II Gray (100 mg), Opadry II Blue (200 mg), or Opadry II Green (300 mg).

For more information about ZEJULA, call 1-888-825-5249.

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This Patient Information has been approved by the U.S. Food and Drug Administration Revised: 4/2023

PRINCIPAL DISPLAY PANEL

NDC 0173-0909-13

Zejula

(niraparib)

tablets

100 mg

GSK

Rx only

30 tablets

Each 100-mg tablet is equivalent to 159.3 mg of niraparib tosylate monohydrate.

Store at 20°C to 25°C (68°F to 77°F); excursions are permitted between 15°C to 30°C (59°F to 86°F).[See USP Controlled Room Temperature]. Store in original package.

Do not accept if membrane seal under cap is missing or broken. See prescribing information for dosage information. **Keep out of reach of children.**

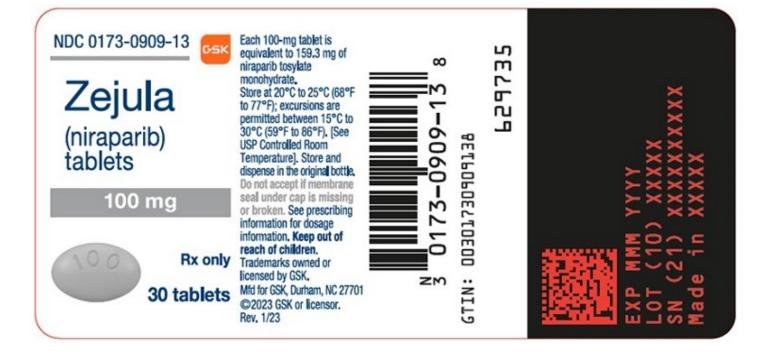
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Rev. 1/23

629735



PRINCIPAL DISPLAY PANEL

NDC 0173-0912-13

Zejula

(niraparib)

tablets

200 mg

GSK

Rx only

30 tablets

Each 200-mg tablet is equivalent to 318.7 mg of niraparib tosylate monohydrate.

Store at 20°C to 25°C (68°F to 77°F); excursions are permitted between 15°C to 30°C (59°F to 86°F).[See USP Controlled Room Temperature]. Store in original package.

Do not accept if membrane seal under cap is missing or broken. See prescribing information for dosage information. **Keep out of reach of children.**

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Rev. 1/23

629736



PRINCIPAL DISPLAY PANEL

NDC 0173-0915-13

Zejula

(niraparib)

Tablets

300 mg

GSK

Rx only

30 tablets

Each 300-mg tablet is equivalent to 478.0 mg of niraparib tosylate monohydrate.

Store at 20°C to 25°C (68°F to 77°F); excursions are permitted between 15°C to 30°C (59°F to 86°F).[See USP Controlled Room Temperature]. Store in original package.

Do not accept if membrane seal under cap is missing or broken. See prescribing information for dosage information. **Keep out of reach of children.**

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Rev. 1/23

629737



ZEJULA

niraparib tablet, film coated

Product Information						
Product Type	HUMAN P	RESCRIPTION DRUG	Item Code (Source)	NDC:0	173-0909
Route of Administration	ORAL					
Active Ingredient/Act	ive Moiety					
	Ingredient	Name		Basis Streng		Strength
NIRAPARIB TOSYLATE MON UNII:HMC2H89N35)	OHYDRATE (UI	NII: 195Q483UZD) (nirapa	arib -	niraparib		100 mg
Inactive Ingredients						
	Ingrea	dient Name			Str	ength
CROSPOVIDONE, UNSPECIE	TED (UNII: 2578	330E561)				
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I	5X)				
MAGNESIUM STEARATE (UN	II: 70097M6I30)					
MICROCRYSTALLINE CELLU	LOSE (UNII: OP	1R32D61U)				
POVIDONE, UNSPECIFIED (U	JNII: FZ989GH9	4E)				
SILICON DIOXIDE (UNII: ETJ7	Z6XBU4)					
WATER (UNII: 059QF0K00R)						
Product Characterist	ics					
Color	GRAY	Score		no score		
Shape	OVAL	Size		12mm		

Contains						
USCUSAINA						
Packaging			Marketing	Start	Marke	ting End
# Item Code	Pac	kage Description	Date	Start		ate
	30 in 1 BOTTL Product	E; Type 0: Not a Combination	06/27/2023			
	- -					
Marketing I			. Manufus tim	a. Cha at		•••••• •••••••••••••••••••••••••••••••
Marketing Category	Аррисат	tion Number or Monograph Citation	n Marketin Dat	-		eting End Date
NDA	NDA214876		06/27/2023			
EJULA						
ZEJULA						
niraparib tablet, filr	n coated					
Product Inform	nation					
Product Type		HUMAN PRESCRIPTION DRUG	ltem Code (Source)	NDC:0	0173-0912
Route of Adminis	tration	ORAL				
	. /					
Active Ingredie	nt/Active	Molety				
				_		
	Ing	redient Name			is of nath	Strengt
NIRAPARIB TOSYLA	-	redient Name DRATE (UNII: 195Q483UZD) (nira	iparib -	Stre	is of ength	
NIRAPARIB TOSYLA UNII:HMC2H89N35)	-		ıparib -			Strengt 200 mg
	-		ıparib -	Stre		
UNII:HMC2H89N35)	те молонуі		ıparib -	Stre		
	те молонуі	DRATE (UNII: 195Q483UZD) (nira	iparib -	Stre	ength	200 mg
UNII:HMC2H89N35)	те молону lients	DRATE (UNII: 195Q483UZD) (nira Ingredient Name	ıparib -	Stre	ength	
UNII:HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI	TE MONOHYI lients NSPECIFIED	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 2S7830E561)	ıparib -	Stre	ength	200 mg
UNII:HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI	TE MONOHYI lients NSPECIFIED DRATE (UNII:	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 2S7830E561) EWQ57Q8I5X)	ıparib -	Stre	ength	200 mg
UNII:HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR	TE MONOHYI lients NSPECIFIED DRATE (UNII: ATE (UNII: 70	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 257830E561) EWQ57Q8I5X) D97M6I30)	ıparib -	Stre	ength	200 mg
UNII:HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINI	TE MONOHYI lients NSPECIFIED DRATE (UNII: ATE (UNII: 70) E CELLULOSE	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 2S7830E561) EWQ57Q8I5X) D97M6I30) E (UNII: OP1R32D61U)	ıparib -	Stre	ength	200 mg
UNII:HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINI POVIDONE, UNSPEC	TE MONOHYI lients NSPECIFIED DRATE (UNII: ATE (UNII: 70 E CELLULOSE CIFIED (UNII: F	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 257830E561) EWQ57Q8I5X) 097M6I30) (UNII: OP1R32D61U) EZ989GH94E)	ıparib -	Stre	ength	200 mg
UNII: HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINE POVIDONE, UNSPEC SILICON DIOXIDE (U	TE MONOHYI lients NSPECIFIED DRATE (UNII: ATE (UNII: 700 E CELLULOSE CIFIED (UNII: F JNII: ETJ7Z6XB	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 257830E561) EWQ57Q8I5X) 097M6I30) (UNII: OP1R32D61U) EZ989GH94E)	ıparib -	Stre	ength	200 mg
UNII:HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINI POVIDONE, UNSPEC	TE MONOHYI lients NSPECIFIED DRATE (UNII: ATE (UNII: 700 E CELLULOSE CIFIED (UNII: F JNII: ETJ7Z6XB	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 257830E561) EWQ57Q8I5X) 097M6I30) (UNII: OP1R32D61U) EZ989GH94E)	ıparib -	Stre	ength	200 mg
UNII: HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINI POVIDONE, UNSPEC SILICON DIOXIDE (U WATER (UNII: 059QFC	TE MONOHYI	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 257830E561) EWQ57Q8I5X) 097M6I30) (UNII: OP1R32D61U) EZ989GH94E)	ıparib -	Stre	ength	200 mg
UNII: HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINE POVIDONE, UNSPEC SILICON DIOXIDE (U	TE MONOHYI	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 257830E561) EWQ57Q8I5X) 097M6I30) (UNII: OP1R32D61U) EZ989GH94E)	ıparib -	Stre	ength	200 mg
UNII: HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINI POVIDONE, UNSPEC SILICON DIOXIDE (U WATER (UNII: 059QFC	TE MONOHYI	DRATE (UNII: 195Q483UZD) (nira Ingredient Name (UNII: 2S7830E561) EWQ57Q8I5X) D97M6I30) E (UNII: OP1R32D61U) EZ989GH94E) U4)	ıparib -	Stre	singth St St	200 mg
UNII: HMC2H89N35) Inactive Ingred CROSPOVIDONE, UI LACTOSE MONOHYI MAGNESIUM STEAR MICROCRYSTALLINE POVIDONE, UNSPEC SILICON DIOXIDE (U WATER (UNII: 059QF(Product Charac	TE MONOHYI	Ingredient Name UNII: 2S7830E561) EWQ57Q8I5X) 097M6I30) UNII: OP1R32D61U) 72989GH94E) U4)	ıparib -	Stre	singth St St	

D	ackaging							
					Marketing	Start	Market	ing End
#	Item Code	Pac	kage De	scription	Date	Start		ate
1	NDC:0173-0912- 13	30 in 1 BOTTL Product	E; Type 0: N	lot a Combination	06/27/2023			
2	NDC:0173-0912- 61	30 in 1 BOTTL Product	E; Type 0: N	lot a Combination	06/27/2023			
	01	i i oddet						
Μ	larketing	Informat	ion					
	Marketing Category	Applicat	tion Numb Cita	er or Monograph tion	Marketin Dat	-		ting End ate
NC		NDA214876			06/27/2023	-		
7'								
	E JU LA aparib tablet, fi	Im coated						
	apano tablet, il	Inteoated						
Ρ	roduct Infor	mation						
Pı	roduct Type		HUMAN PRE	ESCRIPTION DRUG	ltem Code (Source)	NDC:0	173-0915
Re	oute of Admini	stration	ORAL					
Λ.	ctive Ingredi	ont/Activo	Moioty					
A	cuve mgreur			_		Bas	is of	
		_	redient N				ngth	Strength
NI UN	RAPARIB TOSYLA III:HMC2H89N35)	ΑΤΕ ΜΟΝΟΗΥΙ	DRATE (UNII	: 195Q483UZD) (nirap	oarib -	niraparib		300 mg
1 m	active Ingre	dianta						
	active myre		Ingredi	ent Name			Str	ength
CF	ROSPOVIDONE, L		-					
LA	CTOSE MONOH	YDRATE (UNII:	EWQ57Q8I5>	<)				
M	AGNESIUM STEA	RATE (UNII: 70)97M6I30)					
М	CROCRYSTALLIN	NE CELLULOSE	UNII: OP1	R32D61U)				
PC	VIDONE, UNSPE	CIFIED (UNII: F	Z989GH94	Ξ)				
SI		UNII: ETJ7Z6XB	U4)					
w	ATER (UNII: 059Q	F0KO0R)						
P	roduct Chara	octeristics						
	olor	GREE	N	Score		no sco	re	
	hape	OVAL	-	Size		19mm		
	avor	UVAL		Imprint Code		300;;Z		
	ontains					500,,2	Cjulu	
C	mams							

Pa	ackaging			
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0173-0915- 13	30 in 1 BOTTLE; Type 0: Not a Combination Product	06/27/2023	
2	NDC:0173-0915- 61	30 in 1 BOTTLE; Type 0: Not a Combination Product	06/27/2023	
M		Information		
M		nformation Application Number or Monograph Citation	Marketing Start Date	Marketing End Date

Labeler - GlaxoSmithKline LLC (167380711)

Revised: 5/2024

GlaxoSmithKline LLC