



Mektovi s1_c1

Binimatinib s2_c1

15 mg film-coated tablets s3_c3

Reference Market: US s5_c3

AfME markets using this LPD: Egypt s6_c6

HIGHLIGHTS OF PRESCRIBING INFORMATION

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

MEKTOVI® (binimetinib) tablets, for oral use

Initial U.S. Approval: 2018

INDICATIONS AND USAGE

MEKTOVI is a kinase inhibitor indicated:

- in combination with encorafenib, for the treatment of patients with unresectable or metastatic melanoma with a *BRAF V600E* or *V600K* mutation, as detected by an FDA-approved test. (1.1, 2.1)
- in combination with encorafenib, for the treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) with a *BRAF V600E* mutation, as detected by an FDA-approved test. (1.2, 2.1)

DOSAGE AND ADMINISTRATION

Melanoma s32_c3

- Confirm the presence of *BRAF V600E* or *V600K* mutation in tumor specimens prior to the initiation of MEKTOVI. (2.1) s36_c12
- The recommended dose is 45 mg orally twice daily in combination with encorafenib. Take MEKTOVI with or without food. (2.2) s42_c9
- For patients with moderate or severe hepatic impairment the recommended dose is 30 mg orally twice daily. (2.4, 8.6)

NSCLC

- Confirm the presence of *BRAF V600E* mutation in tumor or plasma specimens prior to initiating MEKTOVI. (2.1)
- The recommended dose is 45 mg orally twice daily in combination with encorafenib. Take MEKTOVI with or without food. (2.2)

DOSAGE FORMS AND STRENGTHS

Tablets: 15 mg. (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- New Primary Malignancies, Cutaneous and Non-cutaneous: Can occur s58_c9 when MEKTOVI is used in combination with encorafenib. Monitor s59_c9

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1 INDICATIONS AND USAGE

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- 1.2 *BRAF V600E* Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC)

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patients for new malignancies prior to initiation of treatment, during s8_c14 treatment, and after discontinuation of treatment. (5.1) s9_c18

- Cardiomyopathy: Assess left ventricular ejection fraction (LVEF) s10_c17 before initiating treatment, after one month of treatment, then every s11_c11 2 to 3 months thereafter. The safety of MEKTOVI has not been s12_c12 established in patients with LVEF below 50%. (5.2) s13_c14
- Venous Thromboembolism: Deep vein thrombosis and pulmonary s14_c12 embolism can occur. (5.3) s15_c4
- Ocular Toxicities: Serous retinopathy, retinal vein occlusion (RVO) s16_c12 and uveitis have occurred. Perform an ophthalmologic evaluation at s17_c13 regular intervals and for any visual disturbances. (5.4) s19_c18
- Interstitial Lung Disease (ILD): Assess new or progressive unexplained s21_c17 pulmonary symptoms or findings for possible ILD. (5.5) s21_c6
- Hepatotoxicity: Monitor liver function tests before and during s25_c19 treatment with MEKTOVI and encorafenib and as clinically indicated. s27_c16 (5.6) s29_c11
- Rhabdomyolysis: Monitor creatine phosphokinase and creatinine s30_c8 periodically and as clinically indicated. (5.7) s31_c6
- Hemorrhage: Major hemorrhagic events can occur in patients receiving s33_c10 MEKTOVI and encorafenib. (5.8) s35_c4
- Embryo-Fetal Toxicity: Can cause fetal harm. Advise females with s37_c10 reproductive potential of potential risk to the fetus and to use effective s39_c12 contraception. (5.9, 8.1, 8.3) s41_c4

ADVERSE REACTIONS s43_c12

Melanoma: Most common adverse reactions ($\geq 25\%$) for MEKTOVI, in s44_c18 combination with encorafenib, are fatigue, nausea, diarrhea, vomiting, and s46_c18 abdominal pain. (6.1) s48_c15

NSCLC: Most common adverse reactions ($\geq 25\%$) for MEKTOVI, in s49_c15 combination with encorafenib, are fatigue, nausea, diarrhea, s50_c19 musculoskeletal pain, vomiting, abdominal pain, visual impairment, s51_c16 constipation, dyspnea, rash, and cough. (6.1) s52_c6

USE IN SPECIFIC POPULATIONS s53_c8

Lactation: Advise not to breastfeed. (8.2) s54_c10

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FULL PRESCRIBING INFORMATION s91_c3

1 INDICATIONS AND USAGE s92_c4

1.1 BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma s93_c10

MEKTOVI is indicated, in combination with encorafenib, for the treatment of patients with unresectable or metastatic melanoma with a BRAF V600E or V600K mutation, as detected by an FDA-approved test [see Dosage and Administration (2.1)]. s94_c15 s95_c16 s96_c4

1.2 BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC) s97_c10

MEKTOVI is indicated, in combination with encorafenib, for the treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) with a BRAF V600E mutation, as detected by an FDA-approved test. s98_c15 s99_c16 [see Dosage and Administration (2.1)]. s100_c5

2 DOSAGE AND ADMINISTRATION s101_c4

2.1 Patient Selection s102_c3

BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma s103_c9

Confirm the presence of a BRAF V600E or V600K mutation in tumor specimens prior to initiating MEKTOVI [see Clinical Studies (14)]. Information on FDA-approved tests for the detection of BRAF V600E and V600K mutations in melanoma is available at: s104_c15 s106_c13 s107_c10 <http://www.fda.gov/CompanionDiagnostics>. s108_c1

BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC) s109_c9

Confirm the presence of a BRAF V600E mutation in tumor or plasma specimens prior to initiating MEKTOVI [see Clinical Studies (14.2)]. If no mutation is detected in a plasma specimen, test tumor tissue. s110_c15 s112_c17 Information on FDA-approved tests for the detection of BRAF V600E mutations in NSCLC is available at: s113_c16 <http://www.fda.gov/CompanionDiagnostics>. s114_c1

2.2 Recommended Dosage and Administration s115_c5

The recommended dosage of MEKTOVI is 45 mg orally taken twice daily, approximately 12 hours apart, in combination with encorafenib until disease progression or unacceptable toxicity. Refer to the encorafenib prescribing information for recommended encorafenib dosing information. s116_c16 s118_c13 s119_c7

MEKTOVI may be taken with or without food [see Clinical Pharmacology (12.3)]. Do not take a missed dose of MEKTOVI within 6 hours of the next dose of MEKTOVI. s120_c16 s122_c12

Do not take an additional dose if vomiting occurs after MEKTOVI administration but continue with the next scheduled dose. s123_c17 s124_c2

2.3 Dosage Modifications for Adverse Reactions s125_c6

If encorafenib is permanently discontinued, discontinue MEKTOVI. s126_c7

Dose reductions for adverse reactions associated with MEKTOVI are presented in Table 1. s127_c13

Table 1: Recommended Dose Reductions for MEKTOVI for Adverse Reactions s128_c10

Action	Recommended Dose s129_c3
First Dose Reduction	30 mg orally twice daily s130_c8
Subsequent Modification	Permanently discontinue if unable to tolerate MEKTOVI 30 mg orally twice daily s131_c13

Dosage modifications for adverse reactions associated with MEKTOVI are presented in Table 2. s132_c13

Table 2: Recommended Dosage Modifications for MEKTOVI for Adverse Reactions s133_c10

Severity of Adverse Reaction ^a	Dose Modification for MEKTOVI s134_c8
<i>Cardiomyopathy</i> [see Warnings and Precautions (5.2)] s135_c6	

Table 2: Recommended Dosage Modifications for MEKTOVI for Adverse Reactions s137_c10

Severity of Adverse Reaction^a	Dose Modification for MEKTOVI s138_c8
<ul style="list-style-type: none"> Asymptomatic, absolute decrease in LVEF of greater than 10% from baseline that is also below lower limit of normal (LLN) s141_c8 s143_c1 	Withhold MEKTOVI for up to 4 weeks, evaluate LVEF every 2 weeks. s140_c9 s139_c15 Resume MEKTOVI at a reduced dose if the following are present: s142_c11 <ul style="list-style-type: none"> LVEF is at or above the lower limit of normal <u>and</u> s144_c12 Absolute decrease from baseline is 10% or less <u>and</u> s145_c10 Patient is asymptomatic. s146_c4 If the LVEF does not recover within 4 weeks permanently discontinue MEKTOVI. s147_c10 s148_c2
<ul style="list-style-type: none"> Symptomatic congestive heart failure or absolute decrease in LVEF of greater than 20% from baseline that is also below LLN s152_c1 s150_c6 s151_c8 	Permanently discontinue MEKTOVI. s149_c9
<i>Venous Thromboembolism [see Warnings and Precautions (5.3)]</i> s153_c7	
<ul style="list-style-type: none"> Uncomplicated deep venous thrombosis (DVT) or pulmonary embolism (PE) 	Withhold MEKTOVI. <ul style="list-style-type: none"> If improves to Grade 0-1, resume at a reduced dose. s155_c16 If no improvement, permanently discontinue MEKTOVI. s156_c7
<ul style="list-style-type: none"> Life threatening PE 	Permanently discontinue MEKTOVI. s157_c7
<i>Serous Retinopathy [see Warnings and Precautions (5.4)]</i> s158_c7	
<ul style="list-style-type: none"> Symptomatic serous retinopathy/Retinal pigment epithelial detachments 	Withhold MEKTOVI for up to 10 days. <ul style="list-style-type: none"> If improves and becomes asymptomatic, resume at same dose. s160_c13 If not improved, resume at a lower dose level or permanently discontinue MEKTOVI. s161_c12 s162_c2
<i>Retinal Vein Occlusion (RVO) [see Warnings and Precautions (5.4)]</i> s163_c9	
<ul style="list-style-type: none"> Any Grade 	Permanently discontinue MEKTOVI. s164_c6
<i>Uveitis [see Warnings and Precautions (5.4)]</i> s165_c6	
<ul style="list-style-type: none"> Grade 1-3 	If Grade 1 or 2 does not respond to specific ocular therapy, or for Grade 3 uveitis, withhold MEKTOVI for up to 6 weeks. <ul style="list-style-type: none"> If improved, resume at same or reduced dose. s168_c9 If not improved, permanently discontinue MEKTOVI. s169_c7
<ul style="list-style-type: none"> Grade 4 	Permanently discontinue MEKTOVI. s170_c6
<i>Interstitial Lung Disease [see Warnings and Precautions (5.5)]</i> s171_c8	
<ul style="list-style-type: none"> Grade 2 	Withhold MEKTOVI for up to 4 weeks. <ul style="list-style-type: none"> If improved to Grade 0-1, resume at a reduced dose. s173_c11 If not resolved within 4 weeks, permanently discontinue MEKTOVI. s175_c1
<ul style="list-style-type: none"> Grade 3 or Grade 4 	Permanently discontinue MEKTOVI. s176_c9
<i>Hepatotoxicity [see Warnings and Precautions (5.6)]</i> s177_c6	
<ul style="list-style-type: none"> Grade 2 AST or ALT increased 	Maintain MEKTOVI dose. <ul style="list-style-type: none"> If no improvement within 2 weeks, withhold MEKTOVI until improved to Grade 0-1 or to pretreatment/baseline levels and then resume at the same dose. s181_c5
<ul style="list-style-type: none"> Grade 3 or 4 AST or ALT increased 	See <i>Other Adverse Reactions</i> . s182_c13
<i>Rhabdomyolysis or Creatine Phosphokinase (CPK) elevations [see Warnings and Precautions (5.7)]</i> s183_c11	
<ul style="list-style-type: none"> Grade 4 asymptomatic CPK elevation or Any Grade CPK elevation with symptoms or with renal impairment 	Withhold MEKTOVI dose for up to 4 weeks. <ul style="list-style-type: none"> If improved to Grade 0-1 resume at a reduced dose. s185_c17 If not resolved within 4 weeks, permanently discontinue MEKTOVI. s187_c1

Table 2: Recommended Dosage Modifications for MEKTOVI for Adverse Reactions s189_c10

Severity of Adverse Reaction ^a	Dose Modification for MEKTOVI
<i>Dermatologic [other than palmar plantar erythrodysesthesia syndrome (PPES)] [see Adverse Reactions (6.1)]</i> s191_c12	
• Grade 2	If no improvement within 2 weeks, withhold MEKTOVI until Grade 0-1. Resume at same dose if first occurrence or reduce dose if recurrent. s194_c1
• Grade 3	Withhold MEKTOVI until Grade 0-1. Resume at same dose if first occurrence or reduce dose if recurrent. s196_c6
• Grade 4	Permanently discontinue MEKTOVI. s197_c6
<i>Other Adverse Reactions (including Hemorrhage) [see Warnings and Precautions (5.8), Adverse Reactions (6.1)]^b</i> s198_c1 s199_c13	
• Recurrent Grade 2 or	Withhold MEKTOVI for up to 4 weeks. s200_c12
• First occurrence of any Grade 3	<ul style="list-style-type: none"> • If improves to Grade 0-1 or to pretreatment/baseline levels, resume at reduced dose. s203_c4 • If no improvement, permanently discontinue MEKTOVI. s204_c7
• First occurrence of any Grade 4	<p>Permanently discontinue MEKTOVI, or s205_c10</p> <p>Withhold MEKTOVI for up to 4 weeks. s207_c7</p> <ul style="list-style-type: none"> • If improves to Grade 0-1 or to pretreatment/baseline levels, then resume at a reduced dose. s209_c5 • If no improvement, permanently discontinue MEKTOVI. s210_c7
• Recurrent Grade 3	Consider permanently discontinuing MEKTOVI. s211_c8
• Recurrent Grade 4	Permanently discontinue MEKTOVI. s212_c7

a. National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.03. s213_c14

b. Dose modification of MEKTOVI when administered with encorafenib is not recommended for the following adverse reactions: palmar-plantar erythrodysesthesia syndrome (PPES), non-cutaneous RAS mutation-positive malignancies, and QTc prolongation. s214_c17 s215_c11

Refer to the encorafenib prescribing information for dose modifications for adverse reactions associated with encorafenib. s217_c2 s216_c13

2.4 Dosage Modifications for Moderate or Severe Hepatic Impairment

 s218_c9

For patients with moderate (total bilirubin greater than 1.5 and less than or equal to $3 \times$ ULN and any AST) or severe (total bilirubin levels greater than $3 \times$ ULN and any AST) hepatic impairment, the recommended dosage is 30 mg orally taken twice daily [see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)]. s220_c1 s219_c20 s221_c16 s223_c15 s225_c1

3 DOSAGE FORMS AND STRENGTHS

 s226_c5

Tablets: 15 mg, yellow to dark yellow, unscored ovaloid biconvex film-coated tablets debossed with stylized “A” debossed on one side and “15” on the other side. s227_c13 s229_c12

4 CONTRAINDICATIONS

 s230_c2

None. s231_c1

5 WARNINGS AND PRECAUTIONS

 s232_c4

5.1 New Primary Malignancies

 s233_c4

New primary malignancies, cutaneous and non-cutaneous, can occur when MEKTOVI is used in combination with encorafenib. s234_c13 s235_c3

In PHAROS, cutaneous squamous cell carcinoma and skin papilloma each occurred in 2% of patients who received MEKTOVI in combination with encorafenib. s236_c15 s238_c6

Monitor patients for new malignancies prior to initiation of treatment, while on treatment, and after discontinuation of treatment [see Dosage and Administration (2.3)]. s239_c15 s240_c8

5.2 Cardiomyopathy

 s241_c2

Cardiomyopathy, manifesting as left ventricular dysfunction associated with symptomatic or asymptomatic decreases in ejection fraction, has been reported in patients treated with MEKTOVI in combination with s242_c11 s243_c15

encorafenib. In COLUMBUS, evidence of cardiomyopathy (decrease in LVEF below the institutional LLN s245_c13 with an absolute decrease in LVEF \geq 10% below baseline as detected by echocardiography or MUGA) s246_c15 occurred in 7% of patients receiving MEKTOVI plus encorafenib. Grade 3 left ventricular dysfunction s247_c14 occurred in 1.6% of patients. The median time to first occurrence of left ventricular dysfunction (any grade) s248_c17 in patients receiving MEKTOVI in combination with encorafenib was 3.6 months (range 0 to 21 months). s249_c16 Cardiomyopathy resolved in 87% of patients receiving MEKTOVI plus encorafenib. s250_c10

In PHAROS, evidence of cardiomyopathy (decrease in LVEF below the institutional LLN with an absolute s251_c15 decrease in LVEF \geq 10% below baseline as detected by echocardiography or MUGA) occurred in 11% of s252_c16 patients receiving MEKTOVI in combination with encorafenib. Grade 3 left ventricular dysfunction s253_c12 occurred in 1% of patients. Cardiomyopathy resolved in 82% of patients receiving MEKTOVI plus s254_c14 encorafenib. s255_c1

Assess ejection fraction by echocardiogram or MUGA scan prior to initiating treatment, one month after s256_c15 initiating treatment, and then every 2 to 3 months during treatment. The safety of MEKTOVI in combination s257_c16 with encorafenib has not been established in patients with a baseline ejection fraction that is either below s259_c17 50% or below the institutional lower limit of normal (LLN). Patients with cardiovascular risk factors should s260_c16 be monitored closely when treated with MEKTOVI. s261_c7

Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and s262_c15 Administration (2.3), Adverse Reactions (6.1)]. s263_c5

5.3 Venous Thromboembolism s264_c3

In COLUMBUS, venous thromboembolism (VTE) occurred in 6% of patients receiving MEKTOVI in s265_c13 combination with encorafenib, including 3.1% of patients who developed pulmonary embolism. In s266_c12 PHAROS, VTE occurred in 7% of patients receiving MEKTOVI in combination with encorafenib, including s267_c14 1% of patients who developed pulmonary embolism. s268_c7

Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and s269_c15 Administration (2.3), Adverse Reactions (6.1)]. s270_c5

5.4 Ocular Toxicities s271_c3

Serous Retinopathy s272_c2

In COLUMBUS, serous retinopathy occurred in 20% of patients treated with MEKTOVI in combination s273_c14 with encorafenib; 8% were retinal detachment and 6% were macular edema. Symptomatic serous s274_c13 retinopathy occurred in 8% of patients with no cases of blindness. No patient discontinued MEKTOVI due s275_c16 to serous retinopathy; 6% of patients required dose interruptions or dose reductions. The median time to s276_c16 onset of the first event of serous retinopathy (all grades) was 1.2 months (range 0 to 17.5 months). s277_c18

In PHAROS, serous retinopathy (retinal detachment) occurred in 2% of patients with no cases of blindness s278_c16 treated with MEKTOVI in combination with encorafenib. No patient permanently discontinued MEKTOVI s279_c12 due to serous retinopathy; 1% of patients required dose interruptions. s280_c10

Assess for visual symptoms at each visit. Perform an ophthalmologic examination at regular intervals, for s281_c15 new or worsening visual disturbances, and to follow new or persistent ophthalmologic findings. Withhold, s282_c14 reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and s283_c14 Administration (2.3), Adverse Reactions (6.1)]. s284_c5

Retinal Vein Occlusion s285_c3

RVO is a known class-related adverse reaction of MEK inhibitors and may occur in patients treated with s286_c16 MEKTOVI in combination with encorafenib. In patients with BRAF mutation-positive melanoma receiving s288_c12 MEKTOVI with encorafenib (n=690), 1 patient experienced RVO (0.1%). s289_c9

The safety of MEKTOVI has not been established in patients with a history of RVO or current risk factors s290_c19 for RVO including uncontrolled glaucoma or a history of hyperviscosity or hypercoagulability syndromes. s291_c13

Perform ophthalmologic evaluation for patient-reported acute vision loss or other visual disturbance within s292_c13 24 hours. Permanently discontinue MEKTOVI in patients with documented RVO [see Dosage and s293_c13 Administration (2.3), Adverse Reactions (6.1)]. s294_c5

Uveitis s296_c1

Uveitis, including iritis and iridocyclitis, has been reported in patients treated with MEKTOVI in combination with encorafenib. In COLUMBUS, the incidence of uveitis among patients treated with MEKTOVI in combination with encorafenib was 4%. In PHAROS, uveitis occurred in 1% of patients receiving MEKTOVI in combination with encorafenib. s301_c6

Assess for visual symptoms at each visit. Perform an ophthalmologic evaluation at regular intervals and for new or worsening visual disturbances, and to follow new or persistent ophthalmologic findings. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and Administration (2.3), Adverse Reactions (6.1)]. s305_c5

5.5 Interstitial Lung Disease s306_c4

In patients with BRAF mutation-positive melanoma receiving MEKTOVI with encorafenib (n=690), 2 patients (0.3%) developed interstitial lung disease (ILD), including pneumonitis. In PHAROS, 1 patient (1%) receiving MEKTOVI with encorafenib developed pneumonitis. s309_c9

Assess new or progressive unexplained pulmonary symptoms or findings for possible ILD. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and Administration (2.3), Adverse Reactions (6.1)]. s312_c5

5.6 Hepatotoxicity s313_c2

Hepatotoxicity can occur when MEKTOVI is administered in combination with encorafenib. In COLUMBUS, the incidence of Grade 3 or 4 increases in liver function laboratory tests in patients receiving MEKTOVI in combination with encorafenib was 6% for alanine aminotransferase (ALT), 2.6% for aspartate aminotransferase (AST), and 0.5% for alkaline phosphatase. No patient experienced Grade 3 or 4 serum bilirubin elevation. In PHAROS, the incidence of Grade 3 or 4 increases in liver function laboratory tests in patients receiving MEKTOVI in combination with encorafenib was 10% for AST, 9% for ALT, and 3.2% for alkaline phosphatase. s320_c3

Monitor liver laboratory tests before initiation of MEKTOVI, monthly during treatment, and as clinically indicated. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and Administration (2.3), Adverse Reactions (6.1)]. s323_c7

5.7 Rhabdomyolysis s324_c2

Rhabdomyolysis can occur when MEKTOVI is administered in combination with encorafenib. In COLUMBUS, elevation of laboratory values of serum CPK occurred in 58% of patients treated with MEKTOVI in combination with encorafenib. In patients with BRAF mutation-positive melanoma receiving MEKTOVI with encorafenib (n=690), rhabdomyolysis was reported in 1 patient (0.1%). In PHAROS, elevation of laboratory values of serum creatine kinase (CK) occurred in 41% of patients treated with MEKTOVI in combination with encorafenib. No patient experienced rhabdomyolysis. s330_c9

Monitor CPK and creatinine levels prior to initiating MEKTOVI, periodically during treatment, and as clinically indicated. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and Administration (2.3), Adverse Reactions (6.1)]. s333_c9

5.8 Hemorrhage s334_c2

Hemorrhage can occur when MEKTOVI is administered in combination with encorafenib. In COLUMBUS, hemorrhage occurred in 19% of patients receiving MEKTOVI in combination with encorafenib. Grade 3 or greater hemorrhage occurred in 3.2% of patients. The most frequent hemorrhagic events were gastrointestinal, including rectal hemorrhage (4.2%), hematochezia (3.1%), and hemorrhoidal hemorrhage (1%). Fatal intracranial hemorrhage in the setting of new or progressive brain metastases occurred in 1.6% of patients. s340_c5

In PHAROS, hemorrhage occurred in 12% of patients receiving MEKTOVI in combination with encorafenib including fatal hemorrhage intracranial (1%); Grade 3 or 4 hemorrhage occurred in 4.1% of patients. The most frequent hemorrhagic events were anal hemorrhage and hemothorax(2% each). s343_c12

Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and Administration (2.3), Adverse Reactions (6.1)]. s346_c5

5.9 Embryo-Fetal Toxicity s347_c3

Based on findings from animal studies and its mechanism of action, MEKTOVI can cause fetal harm when administered to a pregnant woman. Binimedinib was embryotoxic and abortifacient when administered to rabbits during the period of organogenesis at doses greater than or equal to those resulting in exposures approximately 5 times the human exposure at the recommended clinical dose of 45 mg twice daily. s348_c17 s349_c13 s350_c1 s351_c1 s352_c14

Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with MEKTOVI and for 30 days after the last dose [see Use in Specific Populations (8.1, 8.3)]. s354_c16 s355_c15 s356_c12

5.10 Risks Associated with Combination Treatment s357_c6

MEKTOVI is indicated for use in combination with encorafenib. Refer to the encorafenib prescribing information for additional risk information that applies to combination use treatment. s358_c14 s359_c11

6 ADVERSE REACTIONS s360_c3

The following adverse reactions are described elsewhere in the labeling: s361_c10

- New Primary Malignancies [see Warnings and Precautions (5.1)] s362_c9
- Cardiomyopathy [see Warnings and Precautions (5.2)] s363_c7
- Venous Thromboembolism [see Warnings and Precautions (5.3)] s364_c8
- Ocular Toxicities [see Warnings and Precautions (5.4)] s365_c8
- Interstitial Lung Disease [see Warnings and Precautions (5.5)] s366_c9
- Hepatotoxicity [see Warnings and Precautions (5.6)] s367_c7
- Rhabdomyolysis [see Warnings and Precautions (5.7)] s368_c7
- Hemorrhage [see Warnings and Precautions (5.8)] s369_c7
- Embryo-Fetal Toxicity [see Warnings and Precautions (5.9)] s370_c8
- Risks Associated with Combination Treatment [see Warnings and Precautions (5.10)] s371_c11

6.1 Clinical Trials Experience s372_c4

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. s373_c15 s374_c20 s376_c6

The data described in WARNINGS AND PRECAUTIONS reflect exposure of 192 patients with BRAF V600 mutation-positive unresectable or metastatic melanoma to MEKTOVI 45 mg twice daily in combination with encorafenib 450 mg once daily in a randomized open-label, active-controlled trial (COLUMBUS) [see Clinical Studies (14.1)] or, for rare events, exposure of 690 patients with BRAF V600 mutation-positive melanoma to MEKTOVI 45 mg twice daily in combination with encorafenib once daily across multiple clinical trials (NCT03915951, NCT01909453). s377_c12 s378_c12 s379_c13 s380_c12 s381_c12 s382_c12 s383_c15 s384_c11 s385_c13 s386_c12 s387_c6

The pooled safety population described in the WARNINGS AND PRECAUTIONS also reflect exposure of 98 patients with BRAF V600E mutation-positive metastatic non-small cell lung cancer to MEKTOVI 45 mg twice daily and encorafenib 450 mg once daily until disease progression or unacceptable toxicity in PHAROS [see Clinical Studies (14.2)]. s388_c13 s389_c13 s390_c13 s391_c13 s392_c14 s393_c14 s394_c5

BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma s395_c9

The data described below reflect exposure of 192 patients with BRAF V600 mutation-positive unresectable or metastatic melanoma to MEKTOVI (45 mg twice daily) in combination with encorafenib (450 mg once daily) in COLUMBUS. s396_c13 s397_c13 s398_c14 s400_c3

The COLUMBUS trial [see Clinical Studies (14.1)] excluded patients with a history of Gilbert's syndrome, abnormal left ventricular ejection fraction, prolonged QTc (>480 msec), uncontrolled hypertension, and history or current evidence of retinal vein occlusion. The median duration of exposure was 11.8 months for s401_c15 s402_c12 s403_c16 s404_c11

patients treated with MEKTOVI in combination with encorafenib and 6.2 months for patients treated with vemurafenib. s406_c15

The most common ($\geq 25\%$) adverse reactions in patients receiving MEKTOVI in combination with encorafenib were fatigue, nausea, diarrhea, vomiting, and abdominal pain. s408_c13

Adverse reactions leading to dose interruptions of MEKTOVI occurred in 33% of patients receiving MEKTOVI in combination with encorafenib; the most common were left ventricular dysfunction (6%) and serous retinopathy (5%). Adverse reactions leading to dose reductions of MEKTOVI occurred in 19% of patients receiving MEKTOVI in combination with encorafenib; the most common were left ventricular dysfunction (3%), serous retinopathy (3%), and colitis (2%). Five percent (5%) of patients receiving MEKTOVI in combination with encorafenib experienced an adverse reaction that resulted in permanent discontinuation of MEKTOVI. The most common adverse reactions resulting in permanent discontinuation of MEKTOVI were hemorrhage in 2% and headache in 1% of patients. s417_c12

Table 3 and Table 4 present adverse drug reactions and laboratory abnormalities, respectively, identified in COLUMBUS. The COLUMBUS trial was not designed to demonstrate a statistically significant difference in adverse reaction rates for MEKTOVI in combination with encorafenib, as compared to vemurafenib, for any specific adverse reaction listed in Table 3. s421_c7

Table 3: Adverse Reactions Occurring in ≥10% of Patients Receiving MEKTOVI in Combination with Encorafenib in COLUMBUS^a s424_c13

Adverse Reaction s431_c2	MEKTOVI s426_c1 with encorafenib s428_c2 N=192 s430_c1		Vemurafenib s427_c1 N=186 s429_c1	
	All Grades (%)	Grades 3 and 4^b (%)	All Grades (%)	Grades s432_c4 3 and 4^b s433_c8 (%) s434_c4
General Disorders and Administration Site Conditions s435_c6				
Fatigue ^c	43	3	46	6 s436_c5
Pyrexia ^c	18	4	30	0 s437_c5
Peripheral edema ^c	13	1	15	1 s438_c6
Gastrointestinal Disorders s439_c2				
Nausea	41	2	34	2 s440_c5
Diarrhea	36	3	34	2 s441_c5
Vomiting ^c	30	2	16	1 s442_c5
Abdominal pain ^c	28	4	16	1 s443_c6
Constipation	22	0	6	1 s444_c5
Skin and Subcutaneous Tissue Disorders s445_c5				
Rash ^c	22	1	53	13 s446_c5
Nervous System Disorders s447_c3				
Dizziness ^c	15	3	4	0 s448_c5
Visual Disorders s449_c2				
Visual impairment ^c	20	0	4	0 s450_c6
Serous retinopathy/RPED ^c	20	3	2	0 s451_c6
Vascular Disorders s452_c2				
Hemorrhage ^c	19	3	9	2 s453_c5
Hypertension ^c	11	6	11	3 s454_c5

a. Grades per National Cancer Institute CTCAE v4.03. s455_c8

b. Grade 4 adverse reactions limited to diarrhea (n=1) and hemorrhage (n=3) in the MEKTOVI with encorafenib arm and constipation (n=1) s456_c21 in the vemurafenib arm. s457_c4

c. Represents a composite of multiple, related preferred terms. s458_c9

Other clinically important adverse reactions occurring in <10% of patients who received MEKTOVI in combination with encorafenib were: s460_c4

Gastrointestinal disorders: *Colitis* s461_c3

Skin and subcutaneous tissue disorders: *Panniculitis, Photosensitivity* s462_c7

Immune system disorders: *Drug hypersensitivity* s463_c5

Table 4: Laboratory Abnormalities Occurring in ≥10% (All grades) of Patients Receiving MEKTOVI in Combination with Encorafenib in COLUMBUS^a

Laboratory Abnormality	MEKTOVI with encorafenib N=192		Vemurafenib N=186	
	All Grades (%)	Grades 3 and 4 (%)	All Grades (%)	Grades 3 and 4 (%)
Hematology				
Anemia	36	3.6	34	2.2
Leukopenia	13	0	10	0.5
Lymphopenia	13	2.1	30	7
Neutropenia	13	3.1	4.8	0.5
Chemistry				
Increased Creatinine	93	3.6	92	1.1
Increased Creatine Phosphokinase	58	5	3.8	0
Increased Gamma Glutamyl Transferase	45	11	34	4.8
Increased ALT	29	6	27	2.2
Increased AST	27	2.6	24	1.6
Increased Alkaline Phosphatase	21	0.5	35	2.2
Hyponatremia	18	3.6	15	0.5

a. Grades per National Cancer Institute CTCAE v4.03.

BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC)

The safety of MEKTOVI in combination with encorafenib is described in 98 patients with *BRAF V600E* mutation-positive metastatic NSCLC who received MEKTOVI (45 mg twice daily) in combination with encorafenib (450 mg once daily) in an open-label, single-arm trial (PHAROS).

The PHAROS trial [see Clinical Studies (14.2)] excluded patients with abnormal LVEF, prolonged QTc (>480 ms), uncontrolled hypertension, and history or current evidence of retinal vein occlusion. The median duration of treatment for MEKTOVI and encorafenib was 8.4 and 9.2 months respectively.

The most common (≥25%) adverse reactions in patients receiving MEKTOVI were fatigue, nausea, diarrhea, musculoskeletal pain, vomiting, abdominal pain, visual impairment, constipation, dyspnea, rash, and cough.

Adverse reactions leading to dose interruptions of MEKTOVI occurred in 62% of patients receiving MEKTOVI; the most common (≥5%) were diarrhea (17%); nausea (15%); fatigue (9%); AST increased (7%); ALT increased, anemia, musculoskeletal pain, vomiting (6% each); and acute kidney injury, hemorrhage, and LV dysfunction cardiomyopathy (5% each). Adverse reactions leading to dose reductions of MEKTOVI occurred in 33% of patients receiving MEKTOVI; the most common (≥5%) were diarrhea (8%), nausea (6%), and AST increased (5%). A total of 17% of patients receiving MEKTOVI experienced an adverse reaction that resulted in permanent discontinuation of MEKTOVI; the most common (≥2%) were diarrhea (3.1%); musculoskeletal pain, LV dysfunction cardiomyopathy, fatigue, nausea, rash, visual impairment, and vomiting (2% each). None of the other adverse reactions leading to permanent discontinuation of MEKTOVI occurred in more than 1 patient.

Serious adverse reactions occurred in 38% of patients who received MEKTOVI in combination with encorafenib. Serious adverse reactions in ≥2% of patients included hemorrhage (6%); diarrhea (4.1%); anemia, dyspnea, pneumonia (3.1% each); arrhythmia, device related infection, edema, myocardial infarction, and pleural effusion (2% each). Fatal adverse reactions occurred in 2% of patients who received MEKTOVI (45 mg twice-daily) in combination with encorafenib, including intracranial hemorrhage and myocardial infarction (1% each).

Table 5 and Table 6 present adverse drug reactions and laboratory abnormalities, respectively, identified in PHAROS. ^{s519_c15}
^{s520_c1}

Table 5: Adverse Reactions Occurring in ≥10% of Patients Receiving MEKTOVI in Combination with Encorafenib in PHAROS^a ^{s521_c12}
^{s522_c5}

Adverse Reaction	MEKTOVI ^{s523_c1} with encorafenib ^{s524_c2} N=98 ^{s525_c5}	
	All Grades (%) ^{s528_c1}	Grade 3 and 4 ^b (%) ^{s526_c5} ^{s527_c2}
General Disorders and Administration Site Conditions ^{s529_c6}		
Fatigue ^c	61	8 ^{s530_c3}
Edema ^d	23	1 ^{s531_c3}
Pyrexia	22	0 ^{s532_c3}
Gastrointestinal Disorders ^{s533_c2}		
Nausea	58	3.1 ^{s534_c3}
Diarrhea ^e	52	7 ^{s535_c3}
Vomiting	37	1 ^{s536_c3}
Abdominal pain ^f	32	1 ^{s537_c4}
Constipation	27	0 ^{s538_c3}
Eye Disorders ^{s539_c2}		
Visual impairment ^g	29	2 ^{s540_c4}
Musculoskeletal and Connective Tissue Disorders ^{s541_c5}		
Musculoskeletal pain ^h	48	4.1 ^{s542_c4}
Skin and Subcutaneous Tissue Disorders ^{s543_c5}		
Rash ⁱ	27	3.1 ^{s544_c3}
Pruritis ^j	16	0 ^{s545_c3}
Dry skin	13	0 ^{s546_c4}
Alopecia	12	0 ^{s547_c3}
Respiratory, Thoracic and Mediastinal Disorders ^{s548_c5}		
Dyspnea ^k	27	8 ^{s549_c3}
Cough ^l	26	0 ^{s550_c3}
Nervous System Disorders ^{s551_c3}		
Dizziness ^m	17	1 ^{s552_c3}
Headache	11	0 ^{s553_c3}
Metabolism and Nutrition Disorders ^{s554_c4}		
Decreased appetite	14	1 ^{s555_c4}
Vascular Disorders ^{s556_c2}		
Hemorrhage ^{b,n}	12	4.1 ^{s557_c3}
Hypertension	10	5 ^{s558_c3}
Cardiac Disorders ^{s559_c2}		
Left ventricular dysfunction cardiomyopathy ^o	11	1 ^{s560_c5}
Investigations ^{s561_c1}		
Weight increased	11	1 ^{s562_c4}
Psychiatric Disorders ^{s563_c2}		
Insomnia	10	0 ^{s564_c3}

a. Grades per National Cancer Institute CTCAE v4.03. ^{s565_c8}

b. One Grade 5 adverse reaction of hemorrhage occurred. ^{s566_c9}

- c. Fatigue includes fatigue, asthenia. s568_c5
- d. Edema includes edema peripheral, generalized edema, localized edema, face edema. s569_c12
- e. Diarrhea includes diarrhea, colitis. s570_c5
- f. Abdominal pain includes abdominal pain, abdominal pain upper, abdominal discomfort, epigastric discomfort. s571_c13
- g. Visual impairment includes vision blurred, visual impairment, vitreous floaters, photophobia, visual acuity reduced, photopsia. s572_c15
- h. Musculoskeletal pain includes back pain, arthralgia, pain in extremity, myalgia, musculoskeletal chest pain, non-cardiac chest pain, neck pain. s573_c19
- i. Rash includes rash, rash macular, rash maculo-papular, rash papular, rash pustular, dermatitis acneiform, palmar-plantar erythrodysesthesia s574_c15
- syndrome, eczema, skin exfoliation. s575_c4
- j. Pruritis includes pruritus, pruritus genital. s576_c6
- k. Dyspnea includes dyspnea, dyspnea exertional. s577_c6
- l. Cough includes cough, productive cough. s578_c6
- m. Dizziness includes dizziness, balance disorder. s579_c6
- n. Hemorrhage includes anal hemorrhage, hemothorax, gastrointestinal hemorrhage, hematochezia, hematuria, hemoptysis, hemorrhage intracranial, hyphema, small intestinal hemorrhage, upper gastrointestinal hemorrhage, vaginal hemorrhage. s580_c12
- o. Left ventricular dysfunction cardiomyopathy includes ejection fraction decreased, cardiac failure, cardiac failure congestive. s582_c13

Other clinically important adverse reactions occurring in <10% of patients who received MEKTOVI in combination with encorafenib were: s584_c4

Nervous system disorders: *Peripheral neuropathy, Dysgeusia, Facial paresis* s585_c8

Gastrointestinal disorders: *Pancreatitis* s586_c3

Skin and subcutaneous tissue disorders: *Hyperkeratosis, Erythema, Photosensitivity* s587_c8

Immune system disorders: *Drug hypersensitivity* s588_c5

Table 6: Laboratory Abnormalities Occurring in ≥10% (All Grades) of Patients Receiving MEKTOVI with Encorafenib in PHAROS^a s589_c12
MEKTOVI with Encorafenib in PHAROS^a s590_c5

Laboratory Abnormality ^b	MEKTOVI with encorafenib s591_c3	
	All Grades (%)	Grades 3 and 4 s592_c2 s593_c6 (%) s594_c2
Hematology s595_c1		
Anemia	47	11 s596_c3
Lymphopenia	24	6 s597_c3
Thrombocytopenia	20	1.1 s598_c3
Leukopenia	12	0 s599_c3
Neutropenia	12	1.1 s600_c3
Chemistry s601_c1		
Increased creatinine	91	3.2 s602_c4
Hyperglycemia	48	6 s603_c3
Increased creatine kinase	41	3.3 s604_c5
Lipase increased	40	14 s605_c4
Increased ALT	34	9 s606_c4
Hypoalbuminemia	32	0 s607_c3
Increased AST	31	10 s608_c4
Increased alkaline phosphatase	31	3.2 s609_c5
Hyperkalemia	31	2.1 s610_c3
Hyponatremia	26	11 s611_c3
Serum amylase increased	22	1.1 s612_c5
Hypocalcemia	12	2.1 s613_c3

a. Grades per National Cancer Institute CTCAE v4.03. s614_c8

b. Based on the number of patients with available baseline and at least one on-treatment laboratory test. s615_c17

To report any side effect(s): s617_c5

Egypt: s618_c1

Pharmacovigilance center, Pfizer Pharmaceutical Company: EGY.AEReporting@pfizer.com s619_c6
Egyptian Pharmacovigilance center (EPVC), EDA: pv.followup@edaegypt.gov.eg s620_c6

7 DRUG INTERACTIONS s621_c3

No clinically important drug interactions have been observed with MEKTOVI. s622_c10

8 USE IN SPECIFIC POPULATIONS s623_c5

8.1 Pregnancy s624_c2

Risk Summary s625_c2

Based on findings from animal reproduction studies and its mechanism of action [see *Clinical Pharmacology* (12.1)], MEKTOVI can cause fetal harm when administered to a pregnant woman. There are no available clinical data on the use of MEKTOVI during pregnancy. In animal reproduction studies, oral administration of binimetinib during the period of organogenesis was embryotoxic and an abortifacient in rabbits at doses greater than or equal to those resulting in exposures approximately 5 times the human exposure at the clinical dose of 45 mg twice daily (see Data). Advise pregnant women and females of reproductive potential of the potential risk to a fetus. s635_c9

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. s637_c12

Data s638_c1

Animal Data s639_c2

In reproductive toxicity studies, administration of binimetinib to rats during the period of organogenesis resulted in maternal toxicity, decreased fetal weights and increased variations in ossification at doses ≥ 30 mg/kg/day (approximately 37 times the human exposure based on AUC at the recommended clinical dose of 45 mg twice daily). In pregnant rabbits, administration of binimetinib during the period of organogenesis resulted in maternal toxicity, decreased fetal body weights, an increase in malformations, and increased post-implantation loss, including total loss of pregnancy at doses ≥ 10 mg/kg/day (approximately 5 times the human exposure based on AUC at the recommended clinical dose of 45 mg twice daily). There was a significant increase in fetal ventricular septal defects and pulmonary trunk alterations at 20 mg/kg/day of binimetinib (less than 8 times the human exposure at the recommended clinical dose of 45 mg twice daily). s654_c1

8.2 Lactation s655_c2

Risk Summary s656_c2

There are no data on the presence of binimetinib or its active metabolite in human milk, or the effects of binimetinib on the breastfed child, or the effects on milk production. Because of the potential for serious adverse reactions in a breastfed child, advise women not to breastfeed during treatment with MEKTOVI and for 3 days after the last dose. s661_c7

8.3 Females and Males of Reproductive Potential s662_c7

Based on animal data, MEKTOVI can cause fetal harm when administered to a pregnant woman [see *Use in Specific Populations* (8.1)]. s664_c3

Pregnancy Testing s665_c2

Verify the pregnancy status of females of reproductive potential prior to initiating MEKTOVI [see *Use in Specific Populations* (8.1)]. s668_c3

Contraception s669_c1

Females s670_c1

Advise females of reproductive potential to use effective contraception during treatment with MEKTOVI s672_c13 and for 30 days after the last dose. s673_c8

8.4 Pediatric Use s674_c3

The safety and effectiveness of MEKTOVI have not been established in pediatric patients. s675_c13

8.5 Geriatric Use s676_c3

Of the 690 patients with BRAF mutation-positive melanoma who received MEKTOVI in combination with s677_c14 encorafenib across multiple clinical trials, 20% were aged 65 to 74 years and 8% were aged 75 years and s678_c17 older [see Clinical Pharmacology (12.3)]. s680_c5

Of the 98 patients with BRAF V600E mutation-positive metastatic NSCLC who received MEKTOVI in s681_c14 combination with encorafenib, 62 (63.2%) were 65 years of age and over and 20 (20.4%) were 75 years and s682_c16 over [see Clinical Studies (14.2)]. s684_c5

No overall differences in the safety or effectiveness of MEKTOVI plus encorafenib were observed in older s685_c16 patients as compared to younger patients. s686_c6

8.6 Hepatic Impairment s687_c3

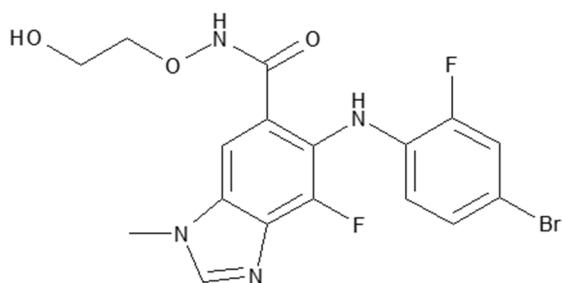
Binimatinib concentrations may increase in patients with moderate or severe hepatic impairment. Dose s688_c12 adjustment for MEKTOVI is not recommended in patients with mild hepatic impairment (total bilirubin >1 s690_c15 and $\leq 1.5 \times$ ULN and any AST or total bilirubin \leq ULN and AST > ULN). Reduce the dose of MEKTOVI s691_c20 for patients with moderate (total bilirubin >1.5 and $\leq 3 \times$ ULN and any AST) or severe (total bilirubin levels s693_c18 $>3 \times$ ULN and any AST) hepatic impairment [see Dosage and Administration (2.4), Clinical Pharmacology s695_c14 (12.3)]. s697_c1

10 OVERDOSAGE s698_c2

Since binimatinib is 97% bound to plasma proteins, hemodialysis is likely to be ineffective in the treatment s699_c17 of overdose with MEKTOVI. s700_c4

11 DESCRIPTION s701_c2

Binimatinib is a kinase inhibitor. The chemical name is 5-[(4-bromo-2-fluorophenyl)amino]-4-fluoro-N-(2- s702_c10 hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide. The molecular formula is C₁₇H₁₅BrF₂N₄O₃ and s703_c7 the molecular weight is 441.2 daltons. The chemical structure of binimatinib is shown below: s704_c14



Binimatinib is a white to slightly yellow powder. In aqueous media, binimatinib is slightly soluble at pH 1, s705_c17 very slightly soluble at pH 2, and practically insoluble at pH 4.5 and higher. s707_c13

MEKTOVI (binimatinib) tablets for oral use contain 15 mg of binimatinib with the following inactive s709_c14 ingredients: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, magnesium stearate s711_c9 (vegetable origin), and silica colloidal anhydrous. The film-coating contains polyvinyl alcohol, macrogol, s712_c12 titanium dioxide, talc, iron oxide yellow, and iron oxide black. s713_c10

12 CLINICAL PHARMACOLOGY s714_c3

12.1 Mechanism of Action s715_c4

Binimatinib is a reversible inhibitor of mitogen-activated extracellular signal regulated kinase 1 (MEK1) and s716_c14 MEK2 activity. MEK proteins are upstream regulators of the extracellular signal-related kinase (ERK) s717_c13 pathway. In vitro, binimatinib inhibited extracellular signal-related kinase (ERK) phosphorylation in cell- s718_c12

free assays as well as viability and MEK-dependent phosphorylation of BRAF-mutant human melanoma cell lines. Binimetinib also inhibited *in vivo* ERK phosphorylation and tumor growth in BRAF-mutant murine xenograft models.

Binimetinib and encorafenib target two different kinases in the RAS/RAF/MEK/ERK pathway. Compared to either drug alone, coadministration of encorafenib and binimetinib resulted in greater anti-proliferative activity *in vitro* in BRAF mutation-positive cell lines and greater anti-tumor activity with respect to tumor growth inhibition in *BRAF V600E* mutant human melanoma xenograft studies in mice. Additionally, the combination of binimetinib and encorafenib delayed the emergence of resistance in *BRAF V600E* mutant human melanoma xenografts in mice compared to either drug alone. In a *BRAF V600E* mutant NSCLC patient-derived xenograft model in mice, coadministration of encorafenib and binimetinib resulted in greater anti-tumor activity compared to binimetinib alone, with respect to tumor growth inhibition. Increased tumor growth delay after dosing cessation was also observed with the coadministration compared to either drug alone.

12.2 Pharmacodynamics

Cardiac Electrophysiology

Following MEKTOVI 45 mg twice daily, no clinically meaningful QT prolongation was observed.

12.3 Pharmacokinetics

The pharmacokinetics of binimetinib was studied in healthy subjects and patients with solid tumors. After twice-daily dosing, the accumulation is 1.5-fold and the coefficient of variation (CV%) of the area under the concentration-time curve (AUC) is <40% at steady state. The systemic exposure of binimetinib is approximately dose proportional.

Absorption

After oral administration, at least 50% of the binimetinib dose was absorbed with a median time to maximum concentration (T_{max}) of 1.6 hours.

Effect of Food

The administration of a single dose of MEKTOVI 45 mg with a high-fat, high-calorie meal (consisting of approximately 150 calories from protein, 350 calories from carbohydrate, and 500 calories from fat) in healthy subjects had no effect on binimetinib exposure.

Distribution

Binimetinib is 97% bound to human plasma proteins and the blood-to-plasma ratio is 0.72. The geometric mean (CV%) of apparent volume of distribution of binimetinib is 92 L (45%).

Elimination

The mean (CV%) terminal half-life ($t_{1/2}$) of binimetinib is 3.5 hours (28.5%) and apparent clearance (CL/F) is 20.2 L/h (24%).

Metabolism

The primary metabolic pathway is glucuronidation with UGT1A1 contributing up to 61% of the binimetinib metabolism. Other pathways of binimetinib metabolism include N-dealkylation, amide hydrolysis, and loss of ethane-diol from the side chain. The active metabolite M3 produced by CYP1A2 and CYP2C19 represents 8.6% of the binimetinib exposure. Following a single oral dose of 45 mg radiolabeled binimetinib, approximately 60% of the circulating radioactivity AUC in plasma was attributable to binimetinib.

Excretion

Following a single oral dose of 45 mg radiolabeled binimetinib in healthy subjects, 62% (32% unchanged) of the administered dose was recovered in the feces while 31% (6.5% unchanged) was recovered in the urine.

Specific Populations

Age (20 to 94 years), sex, or body weight do not have a clinically important effect on the systemic exposure s740_c19 s777_c1 of binimatinib. The effect of race or ethnicity on the pharmacokinetics of binimatinib is unknown. s778_c15

Hepatic Impairment: No clinically meaningful changes in binimatinib exposure (AUC and C_{max}) were s780_c11 s779_c12 observed in subjects with mild hepatic impairment (total bilirubin >1 and ≤1.5 × ULN and any AST or total s782_c11 s781_c18 bilirubin ≤ ULN and AST > ULN) as compared to subjects with normal liver function (total bilirubin ≤ ULN s783_c19 and AST ≤ ULN). A 2-fold increase in AUC was observed in subjects with moderate (total bilirubin >1.5 s784_c18 and ≤3 × ULN and any AST) or severe (total bilirubin levels >3 × ULN and any AST) hepatic impairment s786_c12 s785_c18 [see Dosage and Administration (2.4)]. s787_c5

Renal Impairment: In subjects with severe renal impairment (eGFR ≤29 mL/min/1.73 m²), no clinically s788_c15 important changes in binimatinib exposure were observed as compared to subjects with normal renal s789_c13 function. s791_c1

Drug Interaction Studies s792_c3

Clinical Studies s793_c2

Effect of UGT1A1 Inducers or Inhibitors on Binimatinib: UGT1A1 genotype and smoking (UGT1A1 s794_c13 inducer) do not have a clinically important effect on binimatinib exposure. Simulations predict similar C_{max} s795_c14 of binimatinib 45 mg in the presence or absence of atazanavir 400 mg (UGT1A1 inhibitor). s797_c12

No differences in binimatinib exposure have been observed when MEKTOVI is coadministered with s799_c12 encorafenib. s801_c1

Effect of Binimatinib on CYP Substrates: Binimatinib did not alter the exposure of a sensitive CYP3A4 s800_c4 s802_c15 substrate (midazolam). s804_c2

Effect of Acid Reducing Agents on Binimatinib: The extent of binimatinib exposure (AUC) was not altered in s805_c16 the presence of a gastric acid reducing agent (rabeprazole). s807_c8

In Vitro Studies s809_c3

Effect of Binimatinib on CYP Substrates: Binimatinib is not a time-dependent inhibitor of CYP1A2, s810_c14 CYP2C9, CYP2D6 or CYP3A. s811_c4

Effect of Transporters on Binimatinib: Binimatinib is a substrate of P-glycoprotein (P-gp) and breast cancer s812_c15 resistance protein (BCRP). Binimatinib is not a substrate of organic anion transporting polypeptide s813_c13 (OATP1B1, OATP1B3, OATP2B1) or organic cation transporter 1 (OCT1). s814_c9

13 NONCLINICAL TOXICOLOGY s815_c3

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility s816_c6

Carcinogenicity studies with binimatinib have not been conducted. Binimatinib was not genotoxic in studies s817_c14 evaluating reverse mutations in bacteria, chromosomal aberrations in mammalian cells, or micronuclei in s818_c13 bone marrow of rats. s819_c4

No dedicated fertility studies have been conducted with binimatinib in animals. In general toxicology studies s820_c15 in rats and monkeys, there were no remarkable findings in male or female reproductive organs. s821_c14 s822_c1

14 CLINICAL STUDIES s823_c3

14.1 BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma s824_c10

MEKTOVI in combination with encorafenib was evaluated in a randomized, active-controlled, open-label, s825_c12 multicenter trial (COLUMBUS; NCT01909453). Eligible patients were required to have BRAF V600E or s826_c13 V600K mutation-positive unresectable or metastatic melanoma, as detected using the bioMerieux s827_c11 THxID™BRAF assay. Patients were permitted to have received immunotherapy in the adjuvant setting and s828_c13 one prior line of immunotherapy for unresectable locally advanced or metastatic disease. Prior use of BRAF s830_c16 inhibitors or MEK inhibitors was prohibited. Randomization was stratified by American Joint Committee on s831_c14 Cancer (AJCC) Stage (IIIB, IIIC, IVM1a or IVM1b, versus IVM1c), Eastern Cooperative Oncology Group s832_c14 (ECOG) performance status (0 versus 1), and prior immunotherapy for unresectable or metastatic disease s833_c14 (yes versus no). s834_c3

Patients were randomized (1:1:1) to receive MEKTOVI 45 mg twice daily in combination with encorafenib 450 mg once daily (MEKTOVI in combination with encorafenib), encorafenib 300 mg once daily, or vemurafenib 960 mg twice daily. Treatment continued until disease progression or unacceptable toxicity. Only the results of the approved dosing (MEKTOVI 45 mg in combination with encorafenib 450 mg) are described below.

The major efficacy outcome measure was progression-free survival (PFS), as assessed by a blinded independent central review, to compare MEKTOVI in combination with encorafenib with vemurafenib. Additional efficacy measures included overall survival (OS), as well as objective response rate (ORR) and duration of response (DoR) which were assessed by central review.

A total of 577 patients were randomized, 192 to the MEKTOVI in combination with encorafenib arm, 194 to the encorafenib arm, and 191 to the vemurafenib arm. Of the 383 patients randomized to either the MEKTOVI in combination with encorafenib or the vemurafenib arms, the median age was 56 years (20 to 89 years), 59% were male, 91% were White, and 72% had baseline ECOG performance status of 0. Ninety-five percent (95%) had metastatic disease, 65% were Stage IVM1c, and 4% received prior CTLA-4, PD-1, or PD-L1 directed antibodies. Twenty-eight percent (28%) had elevated baseline serum lactate dehydrogenase (LDH), 45% had ≥3 organs with tumor involvement at baseline, and 3% had brain metastases. Based on centralized testing, 100% of patients' tumors tested positive for BRAF mutations; *BRAF V600E* (88%), *BRAF V600K* (11%), or both (<1%).

MEKTOVI in combination with encorafenib demonstrated a statistically significant improvement in PFS compared to vemurafenib. Efficacy results are summarized in Table 7 and Figure 1.

Table 7: Efficacy Results for COLUMBUS

	MEKTOVI with encorafenib N=192	Vemurafenib N=191
Progression-Free Survival		
Number of events (%)	98 (51)	106 (55)
Progressive disease	88 (46)	104 (54)
Death	10 (5)	2 (1)
Median PFS, months (95% CI)	14.9 (11.0, 18.5)	7.3 (5.6, 8.2)
HR (95% CI) ^a	0.54 (0.41, 0.71)	
P value ^b	<0.0001	
Overall Survival^c		
Number of events (%)	139 (72)	147 (77)
Median OS, months (95% CI)	33.6 (24.4, 39.2)	16.9 (14.0, 24.5)
HR (95% CI) ^a	0.67 (0.53, 0.84)	
Overall Response Rate		
ORR (95% CI)	63% (56%, 70%)	40% (33%, 48%)
CR	8%	6%
PR	55%	35%
Duration of Response		
Median DoR, months (95% CI)	16.6 (12.2, 20.4)	12.3 (6.9, 16.9)

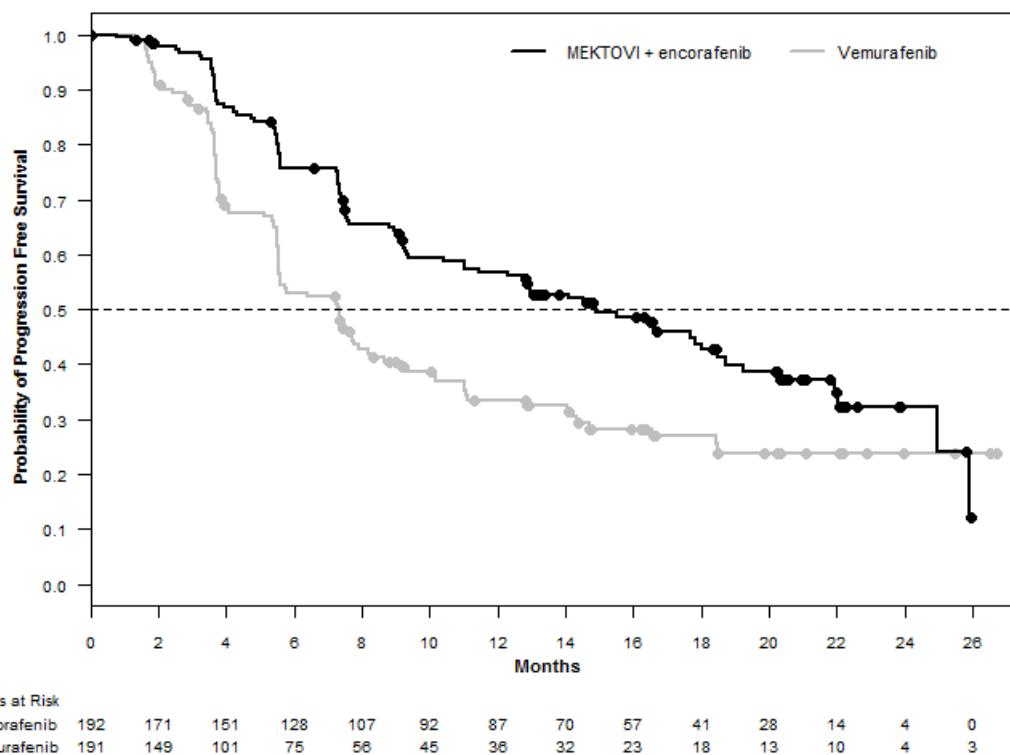
CI = Confidence interval; CR = Complete response; DoR = Duration of response; HR = Hazard ratio; NE = Not estimable; ORR = Overall response rate; OS = Overall survival; PFS = Progression-free survival; PR = Partial response.

a. Estimated with Cox proportional hazard model adjusted by the following stratification factors: American Joint Committee on Cancer (AJCC) Stage (IIIB, IIIC, IVM1a or IVM1b, versus IVM1c) and Eastern Cooperative Oncology Group (ECOG) performance status (0 versus 1).

b. Log-rank test adjusted by the same stratification factors.

c. Based on a cutoff date 82.4 months after the date of PFS analysis.

Figure 1: Kaplan-Meier Curves for Progression-Free Survival in COLUMBUS s897_c9



14.2 BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer s898_c9

MEKTOVI in combination with encorafenib was evaluated in an open-label, multicenter, single-arm study s899_c13 in patients with *BRAF V600E* mutation-positive metastatic non-small cell lung cancer (NSCLC) (PHAROS; s900_c13 NCT03915951). Eligible patients had a diagnosis of histologically-confirmed metastatic NSCLC with s901_c11 *BRAF V600E* mutation that was treatment-naïve or had been previously treated with 1 prior line of systemic s902_c17 therapy in the metastatic setting (platinum-based chemotherapy and/or anti-PD-1/PD-L1 therapies), age 18 s904_c11 years or older, Eastern Cooperative Oncology Group (ECOG) performance status (PS) of 0 or 1, and s905_c15 measurable disease as defined by Response Evaluation Criteria in Solid Tumors (RECIST) v1.1. Prior use of s907_c16 BRAF inhibitors or MEK inhibitors was not allowed. s908_c8

Patients received MEKTOVI 45 mg orally twice daily and encorafenib 450 mg once daily until disease s909_c14 progression or unacceptable toxicity. The major efficacy outcome measures were objective response rate s910_c12 (ORR) per RECIST v1.1 and duration of response (DoR) as assessed by independent review committee s913_c13 (IRC). s915_c1

In the efficacy population, *BRAF V600E* mutation status was determined by prospective local testing using s916_c15 tumor tissue (78%) or blood (22%) specimens. Of the 98 patients with *BRAF V600E* mutation, 6 patients s917_c17 were enrolled into the trial based on testing of their tumor tissue specimens with the FoundationOne CDx s918_c17 tissue test. Of the remaining 92 patients enrolled based on local testing, 68 patients had their tumor tissue s919_c18 specimens retrospectively confirmed as having *BRAF V600E* positive status by the FoundationOne CDx s920_c13 tissue test. The remaining patients had either *BRAF V600E* negative status (n=5) or had unevaluable results s921_c16 (n=19) by the FoundationOne CDx tissue test. In addition, plasma samples from 81 out of 98 patients were s922_c18 retrospectively tested using the FoundationOne Liquid CDx assay. Of the 81 patients, 48 were confirmed s923_c14 positive for *BRAF V600E*, while 33 patients were *BRAF V600E* mutation negative by FoundationOne Liquid s925_c15 CDx assay. The remaining 17 samples had unevaluable results with FoundationOne Liquid CDx assay. s926_c18 s927_c2

The efficacy population included 59 treatment-naïve patients and 39 previously-treated patients. Among s928_c12 these 98 patients, the median age was 70 years (range: 47 to 86); 53% female; 88% White, 7% Asian, 3% s929_c18 Black or African American, and 1% American Indian or Alaska Native; 99% were not Hispanic or Latino; s931_c17 13% were current smokers and 57% were former smokers; 73% had ECOG PS of 1; and 97% had s932_c18 adenocarcinoma. All patients had metastatic disease and 8% had brain metastases at baseline. s933_c13

Efficacy results for patients with *BRAF V600E* mutation-positive metastatic NSCLC are summarized in Table 8. s935_c13

Table 8: Efficacy Results for PHAROS s937_c6

	MEKTOVI with encorafenib s938_c3	
Efficacy Parameter	Treatment naïve (N=59) s939_c6	Previously treated (N=39) s940_c2
Objective Response Rate^a s941_c3		
ORR (95% CI)	75% (62, 85)	46% (30, 63) s942_c9
CR	15%	10% s943_c3
PR	59%	36% s944_c3
Duration of Response^{a,b}	N=44	N=18 s945_c5
Range in months	1.4, 51.6+	3.8, 45.8+ s946_c7
% with DoR ≥12 months	64%	44% s947_c7
% with DoR ≥24 months	43%	22% s948_c7

CI = Confidence interval; CR = Complete response; DoR = Duration of response; N = Number of patients; NE = Not estimable; ORR = s949_c24

Objective response rate; PR = Partial response. s950_c7

a. Assessed by Independent Central Review (ICR). s951_c7

b. Based on observed duration of response. s952_c7

16 HOW SUPPLIED/STORAGE AND HANDLING s953_c5

MEKTOVI (binimetinib) is supplied as 15 mg yellow to dark yellow, unscored ovaloid biconvex film-coated tablets debossed with stylized “A” debossed on one side and “15” on the other side. s954_c13 s955_c15 s956_c1

Carton box containing 7 polyvinyl chloride/ polyvinylidene chloride blisters with aluminum foil backing, s958_c13 each blister containing 12 film coated tablets with insert leaflet. s959_c10

Store below 30°C. s960_c3

Shelf life: see outer pack. s961_c5

17 PATIENT COUNSELING INFORMATION s962_c4

Advise the patient to read the approved patient labeling (Medication Guide). s963_c11

Inform patients of the following: s964_c5

New Primary Malignancies s965_c3

Advise patients that MEKTOVI administered with encorafenib can result in the development of new primary cutaneous and non-cutaneous malignancies. Advise patients to contact their healthcare provider immediately for any new lesions, changes to existing lesions on their skin, or other signs and symptoms of malignancies [see Warnings and Precautions (5.1)]. s970_c6

Cardiomyopathy s971_c1

Advise patients to report any symptoms of heart failure to their healthcare provider [see Warnings and Precautions (5.2)]. s972_c15 s974_c2

Venous Thromboembolism s975_c2

Advise patients to contact their healthcare provider if they experience symptoms of venous thrombosis or pulmonary embolism. Advise patients to seek medical attention for sudden onset of difficulty breathing, leg pain, or swelling [see Warnings and Precautions (5.3)]. s978_c8

Ocular Toxicities s979_c2

Advise patients to contact their healthcare provider as soon as possible if they experience any changes in their vision [see Warnings and Precautions (5.4)]. s982_c7

Interstitial Lung Disease s983_c3

Advise patients to contact their healthcare provider if they experience any new or worsening respiratory symptoms including cough or dyspnea [see Warnings and Precautions (5.5)]. s984_c14 s986_c10

Hepatotoxicity s988_c1

Advise patients that serial testing of serum liver tests (ALT, AST, bilirubin) is recommended during treatment with MEKTOVI. Instruct patients to report symptoms of liver dysfunction including jaundice, dark urine, nausea, vomiting, loss of appetite, fatigue, bruising, or bleeding [see *Warnings and Precautions* (5.6)]. s992_c1

Rhabdomyolysis s993_c1

Advise patients to contact their healthcare provider as soon as possible if they experience unusual or new onset weakness, myalgia, or darkened urine [see *Warnings and Precautions* (5.7)]. s995_c11

Hemorrhage s996_c1

Advise patients to notify their healthcare provider if they experience symptoms suggestive of hemorrhage, such as unusual bleeding [see *Warnings and Precautions* (5.8)]. s998_c9

Females and Males of Reproductive Potential s999_c6

Embryo-Fetal Toxicity: Advise females with reproductive potential of the potential risk to a fetus. Advise females to contact their healthcare provider if they become pregnant, or if pregnancy is suspected, during treatment with MEKTOVI [see *Warnings and Precautions* (5.9), *Use in Specific Populations* (8.1)]. Advise females of reproductive potential to use effective contraception during treatment with MEKTOVI and for 30 days after the last dose. s1005_c5

Lactation: Advise women not to breastfeed during treatment with MEKTOVI and for 3 days after the last dose [see *Use in Specific Populations* (8.2)]. s1007_c7

MARKETING AUTHORISATION HOLDER s1008_c3

Pfizer Europe MA EEIG s1009_c4
Boulevard de la Plaine 17 s1010_c5
1050 Bruxelles s1011_c2
Belgium s1012_c1

MANUFACTURER s1013_c1

See the outer label for Manufacturer Information s1014_c7

Revision Date: March 2025 s1015_c4

MEDICATION GUIDE s1017_c2
MEKTOVI® (mek-TOE-vee) s1018_c2
(binimatinib) s1019_c1
tablets s1020_c1

Important Information: If your healthcare provider prescribes MEKTOVI with encorafenib, please read the s1021_c13 Medication Guide that comes with encorafenib. s1022_c6

What is the most important information I should know about MEKTOVI when taken in combination with s1023_c16 encorafenib? s1024_c1

MEKTOVI when taken in combination with encorafenib may cause serious side effects, including: s1025_c13

- **Risk of new skin cancers.** MEKTOVI, when used with encorafenib, may cause skin cancers called cutaneous squamous cell carcinoma or basal cell carcinoma. s1026_c17 s1027_c7

Talk to your healthcare provider about your risk for these cancers. s1028_c11

Check your skin and tell your healthcare provider right away about any skin changes, including a: s1029_c16

- new wart s1030_c3
- skin sore or reddish bump that bleeds or does not heal s1031_c12
- change in size or color of a mole s1032_c9

Your healthcare provider should check your skin before treatment with MEKTOVI, when taken in combination s1033_c15 with encorafenib, every 2 months during treatment, and for up to 6 months after you stop treatment to look for s1034_c20 any new skin cancers. s1035_c4

Your healthcare provider should also check for cancers that may not occur on the skin. Tell your healthcare s1036_c18 provider about any new symptoms that develop during treatment with MEKTOVI when taken in combination s1037_c15 with encorafenib. s1038_c2

See "What are the possible side effects of MEKTOVI?" for more information about side effects. s1039_c15

What is MEKTOVI? s1040_c3

MEKTOVI is a prescription medicine used: s1041_c6

- in combination with a medicine called encorafenib to treat people with a type of skin cancer called melanoma: s1042_c19
 - that has spread to other parts of the body or cannot be removed by surgery, **and** s1043_c17
 - that has a certain type of abnormal "BRAF" gene s1044_c10
- in combination with a medicine called encorafenib to treat adults with a type of lung cancer called non-small cell s1045_c20 lung cancer (NSCLC): s1046_c3
 - that has spread to other parts of the body, **and** s1047_c11
 - that has a certain type of abnormal "BRAF" gene s1048_c10

Your healthcare provider will perform a test to make sure that MEKTOVI is right for you. s1049_c16

It is not known if MEKTOVI is safe and effective in children. s1050_c12

Before taking MEKTOVI, tell your healthcare provider about all of your medical conditions, including if you: s1051_c16

- have heart problems s1052_c4
- have had blood clots s1053_c5
- have eye problems s1054_c4
- have lung or breathing problems s1055_c6
- have liver or kidney problems s1056_c6
- have any muscle problems s1057_c5
- have bleeding problems s1058_c4
- have high blood pressure (hypertension) s1059_c6
- are pregnant or plan to become pregnant. MEKTOVI can harm your unborn baby. s1060_c14
 - Females who are able to become pregnant should use effective birth control (contraception) during s1061_c15 treatment with MEKTOVI and for at least 30 days after the last dose of MEKTOVI. s1062_c15
 - Talk to your healthcare provider about birth control methods that may be right for you during this time. s1063_c19
 - Your healthcare provider will do a pregnancy test before you start taking MEKTOVI. Tell your healthcare s1064_c17 provider right away if you become pregnant or think you might be pregnant during treatment with s1065_c16 MEKTOVI. s1066_c11

- are breastfeeding or plan to breastfeed. It is not known if MEKTOVI passes into your breast milk. Do not s1068_c20 breastfeed during treatment with MEKTOVI and for 3 days after the last dose of MEKTOVI. Talk to your s1069_c18 healthcare provider about the best way to feed your baby during this time. s1070_c13

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter s1071_c14 medicines, vitamins, and herbal supplements. s1072_c5

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a s1073_c21 new medicine. s1074_c2

How should I take MEKTOVI? s1075_c5

- Take MEKTOVI exactly as your healthcare provider tells you to take it. Do not change your dose or stop taking s1076_c21 MEKTOVI unless your healthcare provider tells you to. s1077_c8
- Take MEKTOVI in combination with encorafenib by mouth 2 times a day, about 12 hours apart. s1078_c17
- MEKTOVI may be taken with or without food. s1079_c9
- If you miss a dose of MEKTOVI, take it as soon as you remember. If it is within 6 hours of your next scheduled s1080_c25 dose, take your next dose at your regular time. Do not make up for the missed dose. s1081_c17
- Do not take an extra dose if you vomit after taking your scheduled dose. Take your next dose at your regular s1082_c22 time. s1083_c1
- If you stop treatment with encorafenib, talk to your healthcare provider about whether your MEKTOVI treatment s1084_c17 may need to be stopped. s1085_c5

What are the possible side effects of MEKTOVI? s1086_c8

MEKTOVI may cause serious side effects, including: s1087_c7

- **Heart problems, including heart failure.** MEKTOVI, when taken with encorafenib, can cause heart problems. s1088_c15 Your healthcare provider should check your heart function before and during treatment with MEKTOVI. Call s1089_c15 your healthcare provider right away if you have any of the following signs and symptoms of a heart problem: s1090_c19
 - feeling like your heart is pounding or racing s1091_c9
 - shortness of breath s1092_c4
 - swelling of your ankles and feet s1093_c7
 - feeling lightheaded s1094_c3
- **Blood clots.** MEKTOVI, when taken with encorafenib, can cause blood clots in your arms or legs, which can s1095_c19 travel to your lungs and can lead to death. Get medical help right away if you have the following symptoms: s1096_c20
 - chest pain s1097_c3
 - sudden shortness of breath or trouble breathing s1098_c8
 - pain in your legs with or without swelling s1099_c9
 - swelling in your arms and legs s1100_c7
 - a cool pale arm or leg s1101_c7
- **Eye problems.** MEKTOVI, when taken with encorafenib, can cause eye problems. Your healthcare provider s1102_c15 should perform an eye exam regularly during treatment with MEKTOVI. Tell your healthcare provider right away s1103_c16 if you develop any new or worsening symptoms of eye problems, including: s1104_c12
 - blurred vision, loss of vision, or other vision changes s1105_c10
 - see colored dots s1106_c4
 - see halos (blurred outline around objects) s1107_c7
 - eye pain, swelling, or redness s1108_c6
- **Lung or breathing problems.** MEKTOVI, when taken with encorafenib, can cause lung or breathing problems. s1109_c16 Tell your healthcare provider if you have any new or worsening symptoms of lung or breathing problems, s1110_c17 including: s1111_c1
 - shortness of breath s1112_c4
 - cough s1113_c2
- **Liver problems.** MEKTOVI, when taken with encorafenib, can cause liver problems. Your healthcare provider s1114_c15 should perform blood tests to check your liver function before and during treatment with MEKTOVI. Tell your s1115_c17 healthcare provider if you have any of the following signs and symptoms of a liver problem: s1116_c16
 - yellowing of your skin or your eyes
 - dark or brown (tea-colored) urine
 - nausea or vomiting
 - loss of appetite s1120_c4
 - tiredness s1117_c10
 - bruising s1118_c8
 - bleeding s1119_c6
- **Muscle problems (rhabdomyolysis).** MEKTOVI, when taken with encorafenib, can cause muscle problems s1121_c13 that can be severe. Treatment with MEKTOVI may increase the level of an enzyme in your blood called s1122_c18 creatine phosphokinase (CPK) and can be a sign of muscle damage. Your healthcare provider should perform s1123_c16

a blood test to check your levels of CPK before and during treatment. Tell your healthcare provider right away if you develop any of these symptoms: s1126_c6

- weakness s1127_c2
- muscle aches or pain s1128_c5
- dark, reddish urine s1129_c4

• **Bleeding problems.** MEKTOVI, when taken with encorafenib, can cause serious bleeding problems, including in your brain or stomach, that can lead to death. Tell your healthcare provider and get medical help right away if you develop any signs of bleeding, including: s1132_c7

- headaches, dizziness, or feeling weak s1133_c6
- cough up blood or blood clots s1134_c7
- vomit blood or your vomit looks like “coffee grounds” s1135_c10
- red or black stool that look like tar s1136_c9

Your healthcare provider may change your dose, temporarily stop, or permanently stop treatment with MEKTOVI if you have certain side effects. s1138_c5

The most common side effects of MEKTOVI when taken with encorafenib for melanoma include: s1139_c14

- fatigue
- vomiting s1140_c4
- nausea
- stomach-area (abdominal) pain s1141_c6
- diarrhea s1142_c2

The most common side effects of MEKTOVI when taken with encorafenib for NSCLC include: s1143_c14

- fatigue
- blurred vision, loss of vision, or other vision changes s1144_c12
- nausea
- constipation s1145_c4
- diarrhea
- shortness of breath s1146_c6
- muscle or joint pain
- rash s1147_c7
- vomiting
- cough s1148_c4
- stomach-area (abdominal) pain s1149_c4

These are not all of the possible side effects of MEKTOVI. s1150_c11

Call your doctor for medical advice about side effects. s1151_c9

To report any side effect(s): s1152_c5

Egypt: s1153_c1

Pharmacovigilance center, Pfizer Pharmaceutical Company: EGY.AEReporting@pfizer.com s1154_c6
Egyptian Pharmacovigilance center (EPVC), EDA: pv.followup@edaegypt.gov.eg s1155_c6

How should I store MEKTOVI? s1156_c5

- Store MEKTOVI below 30°C. s1157_c5

Keep MEKTOVI and all medicines out of the reach of children. s1158_c11

General information about the safe and effective use of MEKTOVI. s1159_c10

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use MEKTOVI for a condition for which it was not prescribed. Do not give MEKTOVI 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 MEKTOVI that is written for health professionals. s1163_c9

What are the ingredients in MEKTOVI? s1164_c6

Active ingredient: binimetinib s1165_c3

Inactive ingredients: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, magnesium stearate (vegetable origin), and silica colloidal anhydrous. s1167_c7

The film coating contains: polyvinyl alcohol, macrogol, titanium dioxide, talc, iron oxide yellow, iron oxide black. s1168_c16

MARKETING AUTHORISATION HOLDER Pfizer Europe MA EEIG s1169_c6

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Belgium s1172_c1

MANUFACTURER s1173_c1

See the outer label for Manufacturer Information s1174_c7

Revised: October 2023 s1175_c3

THIS IS A MEDICAMENT s1177_c4

- Medicament is a product which affects your health and its consumption contrary to instructions is dangerous for you. s1178_c13
- Follow strictly the doctor's prescription, the method of use and the instructions of the Pharmacist who sold the medicament. s1182_c15
- The doctor and the Pharmacist are experts in medicines, their benefits and risks. s1184_c14
- Do not by yourself interrupt the period of treatment prescribed. s1185_c11
- Do not repeat the same prescription without consulting your doctor. s1187_c1s1186_c10

Keep all medicaments out of reach and sight of children s1188_c10

Council of Arab Health Ministers s1189_c5
Union of Arabic Pharmacists s1190_c4