



יוני 2022

 רופא/ה יקר/ה
 רוקח/ת יקר/ה,

 הנדון: KEYTRUDA® 100 mg/4 mL
קיטרודה 100 מ"ג/4 מ"ל

Dosage form and Composition:

Pembrolizumab 100 mg/4 mL; Concentrate for Solution for Intravenous Infusion

חברת מרק שארפ ודוהם (ישראל-1996) בע"מ, (MSD ישראל), מבקשת ליידע על עדכון העלון לרופא של Keytruda 100mg/4ml להכללת מידע נוסף שאושר בפרק משטר המינון ועידכונים נוספים.

עדכונים מהותיים שבוצעו בעלון לרופא (טקסט שהוסף לעלון לרופא מודגש בקו תחתון, טקסט שנמחק מהעלון לרופא מסומן בקו חוצה):

2 DOSAGE AND ADMINISTRATION

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2.20 Dose Modifications

Withhold KEYTRUDA for any of the following:

- ~~Grade 2 pneumonitis [see Warnings and Precautions (5.1)]~~
- ~~Grade 2 or 3 colitis [see Warnings and Precautions (5.2)]~~
- ~~Grade 3 or 4 endocrinopathies [see Warnings and Precautions (5.4)]~~
- ~~Grade 4 hematological toxicity in cHL or PMBCL patients~~
- ~~Grade 2 nephritis [see Warnings and Precautions (5.5)]~~
- ~~Grade 3 severe skin reactions or suspected Stevens-Johnson syndrome (SJS) or toxic epidermal necrolysis (TEN) [see Warnings and Precautions (5.6)]~~
- ~~Aspartate aminotransferase (AST) or alanine aminotransferase (ALT) greater than 3 and up to 5 times upper limit of normal (ULN) or total bilirubin greater than 1.5 and up to 3 times ULN~~
- ~~Any other Grade 2 or 3 treatment-related adverse reaction based on the severity and type of reaction [see Warnings and Precautions (5.7)]~~

Resume KEYTRUDA in patients whose adverse reactions recover to Grade 0-1.

Permanently discontinue KEYTRUDA for any of the following:

- ~~Any life-threatening adverse reaction (excluding endocrinopathies controlled with hormone replacement therapy, or hematological toxicity in patients with cHL or PMBCL)~~
- ~~Grade 3 or 4 pneumonitis or recurrent pneumonitis of Grade 2 severity [see Warnings and Precautions (5.1)]~~
- ~~Grade 3 or 4 nephritis [see Warnings and Precautions (5.5)]~~
- ~~Grade 4 severe skin reactions or confirmed SJS or TEN [see Warnings and Precautions (5.6)]~~
- ~~AST or ALT greater than 5 times ULN or total bilirubin greater than 3 times ULN~~
- ~~For patients with liver metastasis who begin treatment with Grade 2 AST or ALT, if AST or ALT increases by greater than or equal to 50% relative to baseline and lasts for at least 1 week~~
- ~~Grade 3 or 4 infusion-related reactions [see Warnings and Precautions (5.8)]~~
- ~~Inability to reduce corticosteroid dose to 10 mg or less of prednisone or equivalent per day within 12 weeks~~
- ~~Persistent Grade 2 or 3 adverse reactions (excluding endocrinopathies controlled with hormone replacement therapy) that do not recover to Grade 0-1 within 12 weeks after last dose of KEYTRUDA~~
- ~~Any severe or Grade 3 treatment-related adverse reaction that recurs [see Warnings and Precautions (5.7)]~~

In patients with RCC being treated with KEYTRUDA in combination with axitinib:



- If ALT or AST ≥ 3 times ULN but < 10 times ULN without concurrent total bilirubin ≥ 2 times ULN, withhold both KEYTRUDA and axitinib until these adverse reactions recover to Grades 0–1. Consider corticosteroid therapy. Consider rechallenge with a single drug or sequential rechallenge with both drugs after recovery. If rechallenging with axitinib, consider dose reduction as per the axitinib prescribing information.
- If ALT or AST ≥ 10 times ULN or > 3 times ULN with concurrent total bilirubin ≥ 2 times ULN, permanently discontinue both KEYTRUDA and axitinib and consider corticosteroid therapy.

No dose reduction for KEYTRUDA is recommended. In general, withhold KEYTRUDA for severe (Grade 3) immune-mediated adverse reactions. Permanently discontinue KEYTRUDA for Life-threatening (Grade 4) immune-mediated adverse reactions, recurrent severe (Grade 3) immune-mediated reactions that require systemic immunosuppressive treatment, or an inability to reduce corticosteroid dose to 10 mg or less of prednisone or equivalent per day within 12 weeks of initiating steroids.

Dosage modifications for KEYTRUDA for adverse reactions that require management different from these general guidelines are summarized in Table 1.

Table 1: Recommended Dosage Modifications for Adverse Reactions

<u>Adverse Reaction</u>	<u>Severity*</u>	<u>Dosage Modification</u>
Immune-Mediated Adverse Reactions [see Warnings and Precautions (5.1)]		
<u>Pneumonitis</u>	<u>Grade 2</u>	<u>Withhold†</u>
	<u>Grade 3 or 4</u>	<u>Permanently discontinue</u>
<u>Colitis</u>	<u>Grade 2 or 3</u>	<u>Withhold†</u>
	<u>Grade 4</u>	<u>Permanently discontinue</u>
<u>Hepatitis with no tumor involvement of the liver</u> <u>For liver enzyme elevations in patients treated with combination therapy with axitinib, see Table 2.</u>	<u>AST or ALT increases to more than 3 and up to 8 times ULN</u> <u>or</u> <u>Total bilirubin increases to more than 1.5 and up to 3 times ULN</u>	<u>Withhold†</u>
	<u>AST or ALT increases to more than 8 times ULN</u> <u>or</u> <u>Total bilirubin increases to more than 3 times ULN</u>	<u>Permanently discontinue</u>
<u>Hepatitis with tumor involvement of the liver†</u>	<u>Baseline AST or ALT is more than 1 and up to 3 times ULN and increases to more than 5 and up to 10 times ULN</u> <u>or</u> <u>Baseline AST or ALT is more than 3 and up to 5 times ULN and increases to more than 8 and up to 10 times ULN</u>	<u>Withhold†</u>
	<u>ALT or AST increases to more than 10 times ULN</u> <u>or</u> <u>Total bilirubin increases to more than 3 times ULN</u>	<u>Permanently discontinue</u>
<u>Endocrinopathies</u>	<u>Grade 3 or 4</u>	<u>Withhold until clinically stable or permanently discontinue depending on severity</u>
<u>Nephritis with Renal Dysfunction</u>	<u>Grade 2 or 3 increased blood creatinine</u>	<u>Withhold†</u>
	<u>Grade 4 increased blood creatinine</u>	<u>Permanently discontinue</u>



<u>Adverse Reaction</u>	<u>Severity*</u>	<u>Dosage Modification</u>
<u>Exfoliative Dermatologic Conditions</u>	<u>Suspected SJS, TEN, or DRESS</u>	<u>Withhold†</u>
	<u>Confirmed SJS, TEN, or DRESS</u>	<u>Permanently discontinue</u>
<u>Myocarditis</u>	<u>Grade 2, 3, or 4</u>	<u>Permanently discontinue</u>
<u>Neurological Toxicities</u>	<u>Grade 2</u>	<u>Withhold†</u>
	<u>Grade 3 or 4</u>	<u>Permanently discontinue</u>
<u>Hematologic toxicity in patients with cHL or PMBCL</u>	<u>Grade 4</u>	<u>Withhold until resolution to Grades 0 or 1</u>
<u>Other Adverse Reactions</u>		
<u>Infusion-related reactions</u> <u>[see Warnings and Precautions (5.2)]</u>	<u>Grade 1 or 2</u>	<u>Interrupt or slow the rate of infusion</u>
	<u>Grade 3 or 4</u>	<u>Permanently discontinue</u>

* Based on Common Terminology Criteria for Adverse Events (CTCAE), version 4.0

† Resume in patients with complete or partial resolution (Grades 0 to 1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of initiating steroids or inability to reduce prednisone to 10 mg per day or less (or equivalent) within 12 weeks of initiating steroids.

‡ If AST and ALT are less than or equal to ULN at baseline, withhold or permanently discontinue KEYTRUDA based on recommendations for hepatitis with no liver involvement.

ALT = alanine aminotransferase, AST = aspartate aminotransferase, DRESS = Drug Rash with Eosinophilia and Systemic Symptoms, SJS = Stevens Johnson Syndrome, TEN = toxic epidermal necrolysis, ULN = upper limit normal

The following table represents dosage modifications that are different from those described above for KEYTRUDA or in the Full Prescribing Information for the drug administered in combination.

Table 2: Recommended Specific Dosage Modifications for Adverse Reactions for KEYTRUDA in Combination with Axitinib

<u>Treatment</u>	<u>Adverse Reaction</u>	<u>Severity</u>	<u>Dosage Modification</u>
<u>KEYTRUDA in combination with axitinib</u>	<u>Liver enzyme elevations*</u>	<u>ALT or AST increases to at least 3 times but less than 10 times ULN without concurrent total bilirubin at least 2 times ULN</u>	<u>Withhold both KEYTRUDA and axitinib until resolution to Grades 0 or 1†</u>
		<u>ALT or AST increases to more than 3 times ULN with concurrent total bilirubin at least 2 times ULN or ALT or AST ≥10 times ULN</u>	<u>Permanently discontinue both KEYTRUDA and axitinib</u>

* Consider corticosteroid therapy

† Based on Common Terminology Criteria for Adverse Events (CTCAE), version 4.0. Consider rechallenge with a single drug or sequential rechallenge with both drugs after recovery. If rechallenging with axitinib, consider dose reduction as per the axitinib Prescribing Information.

ALT = alanine aminotransferase, AST = aspartate aminotransferase, ULN = upper limit normal

Recommended Dose Modifications for Adverse Reactions for KEYTRUDA in Combination with Lenvatinib

When administering KEYTRUDA in combination with lenvatinib, modify the dosage of one or both drugs. Withhold or discontinue KEYTRUDA as shown ~~above~~ in Table 1. Refer to lenvatinib prescribing information for additional dose modification information.

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ההתוויות המאושרות לתכשיר:

Melanoma

- KEYTRUDA (pembrolizumab) is indicated for the treatment of patients with unresectable or metastatic melanoma.
- KEYTRUDA is indicated for the adjuvant treatment of patients with melanoma with involvement of lymph node (s) following complete resection.

Non-Small Cell Lung Cancer

- KEYTRUDA, in combination with pemetrexed and carboplatin, is indicated for the first-line treatment of patients with metastatic nonsquamous non-small cell lung cancer (NSCLC) negative for EGFR or ALK genomic tumor aberrations.
- KEYTRUDA, in combination with carboplatin and either paclitaxel or paclitaxel protein-bound, is indicated for the first-line treatment of patients with metastatic squamous NSCLC.
- KEYTRUDA, as a single agent, is indicated for the treatment of patients with metastatic NSCLC whose tumors express PD-L1 [Tumor Proportion Score (TPS) $\geq 50\%$] as determined by a validated test. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on or after platinum-containing chemotherapy and an approved therapy for these aberrations prior to receiving KEYTRUDA.
- KEYTRUDA, as a single agent, is indicated for the treatment of patients with advanced NSCLC whose tumors express PD-L1 as determined by a validated test, with disease progression on or after platinum containing chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on approved therapy for these aberrations prior to receiving KEYTRUDA [see Clinical Studies (14.2)].

Small Cell Lung Cancer

KEYTRUDA is indicated for the treatment of patients with metastatic small cell lung cancer (SCLC) with disease progression on or after platinum-based chemotherapy and at least one other prior line of therapy, that have not been previously treated with immunotherapy.

Head and Neck Cancer

- KEYTRUDA, in combination with platinum and fluorouracil (FU), is indicated for the first-line treatment of patients with metastatic or with unresectable, recurrent head and neck squamous cell carcinoma (HNSCC).
- KEYTRUDA, as a single agent, is indicated for the first-line treatment of patients with metastatic or with unresectable, recurrent HNSCC whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 1] as determined by a validated test.
- KEYTRUDA, as a single agent, is indicated for the treatment of patients with recurrent or metastatic HNSCC with disease progression on or after platinum-containing chemotherapy.

Classical Hodgkin Lymphoma

KEYTRUDA is indicated for the treatment of adult patients with relapsed or refractory classical Hodgkin lymphoma (cHL).
KEYTRUDA is indicated for the treatment of pediatric patients with refractory cHL, or cHL that has relapsed after 2 or more lines of therapy.

Primary Mediastinal large B-Cell Lymphoma

KEYTRUDA is indicated for the treatment of adult and pediatric patients with refractory primary mediastinal large B-cell lymphoma (PMBCL), or who have relapsed after 2 or more prior lines of therapy.
Limitation of Use: KEYTRUDA is not recommended for treatment of patients with PMBCL who require urgent cytoreductive therapy.

Urothelial Carcinoma

- KEYTRUDA is indicated for the treatment of patients with locally advanced or metastatic urothelial carcinoma who are not eligible for cisplatin-containing chemotherapy and whose tumors express PD-L1 [Combined Positive Score



(CPS ≥ 10)] as determined by a validated test, or in patients who are not eligible for any platinum-containing chemotherapy regardless of PD-L1 status.

•KEYTRUDA is indicated for the treatment of patients with locally advanced or metastatic urothelial carcinoma who have disease progression during or following platinum-containing chemotherapy or within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy.

Non-Muscle Invasive Bladder Cancer (NMIBC)

KEYTRUDA is indicated for the treatment of patients with Bacillus Calmette-Guerin (BCG)-unresponsive, highrisk, non-muscle invasive bladder cancer (NMIBC) with carcinoma in situ (CIS) with or without papillary tumors who are ineligible for or have elected not to undergo cystectomy

Microsatellite Instability-High Cancer

KEYTRUDA is indicated for the treatment of adult and pediatric patients with unresectable or metastatic, microsatellite instability-high (MSI H) or mismatch repair deficient (dMMR).

•solid tumors that have progressed following prior systemic treatment and who have no satisfactory alternative treatment options, or

•colorectal cancer that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan.

Limitation of Use: The safety and effectiveness of KEYTRUDA in pediatric patients with MSI H central nervous system cancers have not been established.

Gastric Cancer

KEYTRUDA is indicated for the treatment of patients with recurrent locally advanced or metastatic gastric or gastroesophageal junction adenocarcinoma whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 1] as determined by a validated test, with disease progression on or after two or more prior lines of therapy including fluoropyrimidine- and platinum-containing chemotherapy and if appropriate, HER2/neu targeted therapy.

Cervical Cancer

KEYTRUDA is indicated for the treatment of patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy whose tumors express PD-L1 (CPS ≥ 1) as determined by a validated test.

Merkel Cell Carcinoma

KEYTRUDA is indicated for the treatment of adult and pediatric patients with recurrent locally advanced or metastatic Merkel cell carcinoma (MCC).

Renal Cell Carcinoma

KEYTRUDA, in combination with axitinib, is indicated for the first-line treatment of patients with advanced renal cell carcinoma (RCC).

KEYTRUDA, in combination with lenvatinib, is indicated for the first-line treatment of adult patients with advanced RCC.

Tumor Mutational Burden-High (TMB-H) Cancer

KEYTRUDA is indicated for the treatment of adult and pediatric patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] solid tumors, as determined by a validated test, that have progressed following prior treatment and who have no satisfactory alternative treatment options.

Limitations of Use: The safety and effectiveness of KEYTRUDA in pediatric patients with TMB-H central nervous system cancers have not been established.



Esophageal Cancer

•KEYTRUDA is indicated for the treatment of patients with locally advanced or metastatic esophageal or gastroesophageal junction (GEJ) (Siewert type I) carcinoma that is not amenable to surgical resection or definitive chemoradiation in combination with platinum- and fluoropyrimidine-based chemotherapy.

•KEYTRUDA is indicated for the treatment of patients with recurrent locally advanced or metastatic squamous cell carcinoma of the esophagus whose tumors express PD-L1 (CPS ≥ 10) as determined by a validated test, with disease progression after one or more prior lines of systemic therapy.

Cutaneous Squamous Cell Carcinoma

KEYTRUDA is indicated for the treatment of patients with recurrent or metastatic cutaneous squamous cell carcinoma (cSCC) or locally advanced cSCC that is not curable by surgery or radiation.

Microsatellite Instability-High or Mismatch Repair Deficient Colorectal Cancer (CRC)

KEYTRUDA is indicated for the first-line treatment of patients with unresectable or metastatic MSI-H or dMMR colorectal cancer (CRC).

Triple negative breast cancer (TNBC)

KEYTRUDA, in combination with chemotherapy, is indicated for the treatment of patients with locally recurrent unresectable or metastatic triple negative breast cancer (TNBC) whose tumors express PD-L1 (CPS ≥ 10) as determined by a validated test.

KEYTRUDA is indicated for the treatment of patients with high risk early stage triple negative breast cancer (TNBC) in combination with chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery.

Endometrial carcinoma

Keytruda, in combination with lenvatinib, is indicated for the treatment of advanced or recurrent endometrial carcinoma in adults who have disease progression on or following prior treatment with a platinum containing therapy and who are not candidates for curative surgery or radiation.

למידע מלא ולהוראות מתן מפורטות, יש לעיין בעלון לרופא המאושר על ידי משרד הבריאות.

העלון לרופא נשלח לפרסום במאגר התרופות שבאתר משרד הבריאות, וניתן לקבלו מודפס על ידי פניה לבעל הרישום, חברת MSD, בטלפון 09-9533333.

Keytruda 100mg/4ml מופצת ע"י חברת נובולוג בע"מ.

בברכה,

דורית מאורי

רוקחת ממונה

MSD ישראל

Reference:

Keytruda_100mg_4ml-SPC-06_2022