

Keytruda® (pembrolizumab) – New indications

- On May 18, 2017, the [FDA announced](#) the approval of [Merck's Keytruda \(pembrolizumab\)](#) injection, for the treatment of patients with locally advanced or metastatic urothelial carcinoma (UC) who are not eligible for [cisplatin](#)-containing chemotherapy, and for the treatment of patients with locally advanced or metastatic UC who have disease progression during or following platinum-containing chemotherapy or within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy.
- Keytruda is also approved for the following indications:
 - Treatment of patients with unresectable or metastatic melanoma.
 - As a single agent for the first-line treatment of patients with metastatic non-small cell lung cancer (NSCLC) whose tumors have high PD-L1 expression [Tumor Proportion Score (TPS) \geq 50%] as determined by an FDA-approved test, with no EGFR or ALK genomic tumor aberrations.
 - As a single agent for the treatment of patients with metastatic NSCLC whose tumors express PD-L1 (TPS \geq 1%) as determined by an FDA-approved test, with disease progression on or after platinum-containing chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving Keytruda.
 - In combination with [Alimta® \(pemetrexed\)](#) and [carboplatin](#), as first-line treatment of patients with metastatic nonsquamous NSCLC.
 - Treatment of patients with recurrent or metastatic head and neck squamous cell carcinoma with disease progression on or after platinum-containing chemotherapy.
 - Treatment of adult and pediatric patients with refractory classical Hodgkin lymphoma, or who have relapsed after 3 or more prior lines of therapy.
- The accelerated approval of Keytruda for the first-line indication in UC was based on the single-arm KEYNOTE-052 study. This study enrolled 370 patients with locally advanced or metastatic UC who were not eligible for cisplatin-containing chemotherapy. Patients without disease progression could be treated with Keytruda for up to 24 months. The major efficacy outcome measures were ORR and DOR.
 - The ORR was 29% (95% CI: 24, 34).
 - The median duration of response was not reached (range: 1.4+, 17.8+).
- The approval of Keytruda for the second-line indication in UC was based on the KEYNOTE-045 study. A total of 542 patients with locally advanced or metastatic UC with disease progression on or after platinum-containing chemotherapy were randomized to Keytruda or other chemotherapy regimens. The major efficacy outcomes were overall survival (OS) and progression-free survival (PFS). Additional efficacy outcomes included objective response rate (ORR) and duration of response (DOR).
 - Fewer deaths occurred in the Keytruda arm vs. the chemotherapy arm (57% vs. 66%). The median OS was 10.3 months in the Keytruda arm vs. 7.4 months in the chemotherapy arm (HR = 0.73; [95% CI: 0.59, 0.91]; p = 0.004).
 - There was no statistically significant difference in PFS between the Keytruda and chemotherapy arm (p = 0.833).
 - The ORR was 21% for the Keytruda arm vs. 11% for the chemotherapy arm (p = 0.002).
 - The median DOR was not reached (95% CI: 1.6+, 15.6+) for the Keytruda arm vs. 4.3 months (95% CI: 1.4+, 15.4+) for the chemotherapy arm.

- The recommended dose of Keytruda for UC is 200 mg administered as an intravenous infusion over 30 minutes every 3 weeks until disease progression or unacceptable toxicity, or up to 24 months in patients without disease progression.
- Consult Keytruda's drug label for dosing recommendations in other indications.



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