

## Keytruda® (pembrolizumab) - New indication

- On March 14, 2017, <u>Merck announced</u> the FDA approval of <u>Keytruda (pembrolizumab)</u> injection, for the treatment of adult and pediatric patients with refractory classical Hodgkin lymphoma (cHL), or who have relapsed after 3 or more prior lines of therapy.
  - This new indication is approved under accelerated approval based on tumor response rate and durability of response.
  - Continued approval for this indication may be contingent upon verification and description of clinical benefit in the confirmatory trials.
- Keytruda is also approved for the following indications:
  - Treatment of patients with unresectable or metastatic melanoma.
  - First-line treatment of patients with metastatic non-small cell lung cancer (NSCLC) whose tumors have high programmed death ligand-1 (PD-L1) expression [Tumor Proportion Score (TPS) ≥ 50%)] as determined by an FDA-approved test, with no epidermal growth factor receptor (EGFR) or anaplastic lymphoma kinase (ALK) genomic tumor aberrations.
  - Treatment of patients with metastatic NSCLC whose tumors express PD-L1 (TPS ≥ 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.
  - Treatment of patients with recurrent or metastatic head and neck squamous cell carcinoma with disease progression on or after platinum-containing chemotherapy.
- Hodgkin disease is a type of lymphoma, a cancer that affects lymphocytes. Lymphocytes are part of the body's immune system.
  - The <u>American Cancer Society estimates</u> that there will be 8,260 new cases and 1,070 deaths from Hodgkin disease in 2017.
- Keytruda's new indication was approved based on a non-randomized, open-label study involving 210 patients with relapsed or refractory cHL. The major endpoints were objective response rate (ORR), complete remission rate (CRR) and duration of response (DOR).
  - The ORR was 69% (95% CI: 62, 75) with a CRR of 22%.
  - Furthermore, among the 145 responding patients, the median DOR was 11.1 months (range: 0.0+ to 11.1 months).
  - The efficacy of Keytruda in pediatric patients was extrapolated from the results in the adult cHL population.
- The safety profile in pediatric patients was similar to that seen in adults treated with Keytruda. However, the toxicities that occurred at a higher rate (≥ 15% difference) in these patients vs. adults under 65 years of age were fatigue (45%), vomiting (38%), abdominal pain (28%), hypertransaminasemia (28%), and hyponatremia (18%).
- In addition, a new safety concern was added to the Warnings and Precautions section of the Keytruda label, regarding complications of allogeneic hematopoietic stem cell transplantation (HSCT).

- Immune-mediated complications, including fatal events, occurred in patients who underwent HSCT after being treated with Keytruda.
- Of 23 patients with cHL who proceeded to allogeneic HSCT after treatment with Keytruda on any trial, 6 patients (26%) developed graft-versus-host-disease (GVHD), one of which was fatal, and 2 patients (9%) developed severe hepatic veno-occlusive disease (VOD) after reduced-intensity conditioning, one of which was fatal.
- Cases of fatal hyperacute GVHD after allogeneic HSCT have also been reported in patients with lymphoma who received a PD-1 receptor blocking antibody before transplantation.
  These complications may occur despite intervening therapy between PD-1 blockade and allogeneic HSCT.
- Patients should be followed closely for early evidence of transplant-related complications such as hyperacute GVHD, severe (Grade 3 to 4) acute GVHD, steroid-requiring febrile syndrome, hepatic VOD, and other immune-mediated adverse reactions, and intervened promptly.
- In adults with cHL, the recommended dose of Keytruda is 200 mg administered as an intravenous (IV) infusion every 3 weeks until disease progression or unacceptable toxicity, or up to 24 months in patients without disease progression.
- In pediatric patients with cHL, the recommended dose of Keytruda is 2 mg/kg (up to a maximum of 200 mg) administered as an IV infusion every 3 weeks until disease progression or unacceptable toxicity, or up to 24 months in patients without disease progression.
- For the recommended dose of Keytruda in other indications, refer to the product label.



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