

Hemlibra[®] (emicizumab-kxwh) – New orphan drug approval

- On November 16, 2017, the [FDA announced](#) the approval of [Genentech's Hemlibra \(emicizumab-kxwh\)](#), for routine prophylaxis to prevent or reduce the frequency of bleeding episodes in adult and pediatric patients with hemophilia A (congenital factor VIII [FVIII] deficiency) with FVIII inhibitors.
- According to the [National Institutes of Health](#), hemophilia affects one in every 5,000 males born in the U.S., approximately 80% of whom have hemophilia A. Patients with hemophilia A are missing a gene which produces FVIII, a protein that enables blood to clot. Patients may experience repeated episodes of serious bleeding, primarily into their joints, which can be severely damaged as a result.
 - Nearly one in three people with severe hemophilia A can develop inhibitors or antibodies to FVIII replacement therapies. The antibody interferes with the effectiveness of currently available treatments for hemophilia.
- Hemlibra is a bispecific factor IXa (FIXa)- and factor X (FX)-directed antibody. It is designed to bring together FIXa and FX, proteins required to activate the natural coagulation cascade and restore the blood clotting process for hemophilia A patients.
- The efficacy of Hemlibra for the treatment of hemophilia A with FVIII inhibitors was demonstrated in two clinical studies, HAVEN 1 and HAVEN 2. HAVEN 1 enrolled 109 patients \geq 12 years of age. HAVEN 2 enrolled 23 patients who were < 12 years of age.
 - In HAVEN 1, a statistically significant reduction in treated bleeds of 87% (95% CI: 72.3, 94.3; $p < 0.0001$) was seen in patients treated with Hemlibra prophylaxis vs. those who received no prophylaxis (annualized bleed rate: 2.9 vs. 23.3, respectively).
 - In HAVEN 2, 87% (95% CI: 66.4, 97.2) of children who received Hemlibra prophylaxis did not experience a bleeding episode that required treatment.
- Hemlibra carries a boxed warning for thrombotic microangiopathy and thromboembolism.
- Other warnings and precautions of Hemlibra include laboratory coagulation test interference.
- The most common adverse reactions (\geq 10%) with Hemlibra use were injection site reactions, headache, and arthralgia.
- The recommended dose of Hemlibra is 3 mg/kg by subcutaneous (SC) injection once weekly for the first 4 weeks, followed by 1.5 mg/kg once weekly.
 - After proper training in SC injection technique, a patient may self-inject, or the patient's caregiver may administer Hemlibra.
 - Self-administration is not recommended for children aged < 7 years old.
- The [Genentech Access Solutions[®]](#) program is available to help patients with access and reimbursement.

- Genentech plans to launch Hemlibra by the end of the month. Hemlibra will be available as an injectable solution in single-dose vials in the following strengths: 30 mg/mL, 60 mg/0.4 mL, 105 mg/0.7 mL, and 150 mg/mL.



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