

Zejula™ (niraparib) – New orphan drug approval

- On March 27, 2017, the [FDA announced](#) the approval of [Tesarco's Zejula \(niraparib\)](#) for the maintenance treatment of adult patients with recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer who are in a complete or partial response to platinum-based chemotherapy.
- According to the [National Cancer Institute](#), approximately 22,280 new cases of ovarian cancer were diagnosed in 2016 and an estimated 14,240 women died of this disease.
 - Despite high response rates to platinum-based chemotherapy in the second-line advanced treatment setting, approximately 85% of patients will experience recurrence within 2 years.
- Zejula is an orally available poly (ADP-ribose) polymerase (PARP) inhibitor that blocks an enzyme involved in repairing damaged DNA. Inhibition of PARP activity results in DNA damage, apoptosis and cell death.
 - Unlike other currently marketed PARP inhibitors, Zejula does not require BRCA mutation or other biomarker testing.
- Other currently available PARP inhibitors include [Lynparza™ \(olaparib\)](#) and [Rubraca™ \(rucaparib\)](#). Both are approved for use in patients with certain types of BRCA mutations associated with advanced ovarian cancer. Refer to the drug labels for specific indication information.
- The safety and efficacy of Zejula were based on data from a placebo-controlled trial of 553 patients with recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer who had received at least two prior treatments of platinum-based chemotherapy and achieved a complete or partial response with their most recent chemotherapy treatment. The primary outcome measure was progression free survival (PFS).
 - The trial demonstrated a statistically significant improvement in PFS in patients with or without germline BRCA (gBRCA) mutations randomized to Zejula vs. placebo.
 - The median PFS for those taking Zejula with deleterious or suspected deleterious gBRCA mutations was 21 months vs. 5.5 months for those with gBRCA mutations receiving placebo (HR = 0.26 [95% CI: 0.17, 0.41]; p < 0.0001).
 - The median PFS for those taking Zejula who did not have gBRCA mutations was 9.3 vs. 3.9 months for those patients without gBRCA mutations receiving placebo (HR = 0.45 [95% CI: 0.34, 0.61]; p < 0.0001).
- Warnings and precautions of Zejula include myelodysplastic syndrome/acute myeloid leukemia, bone marrow suppression, cardiovascular effects, and embryo-fetal toxicity.
- The most common adverse reactions (≥ 10%) with Zejula use were thrombocytopenia, anemia, neutropenia, leukopenia, palpitations, nausea, constipation, vomiting, abdominal pain/distention, mucositis/stomatitis, diarrhea, dyspepsia, dry mouth, fatigue/asthenia, decreased appetite, urinary tract infection, aspartate aminotransferase/alanine aminotransferase elevation, myalgia, back pain, arthralgia, headache, dizziness, dysgeusia, insomnia, anxiety, nasopharyngitis, dyspnea, cough, rash, and hypertension.
- The recommended dose of Zejula as monotherapy is 300 mg (three 100 mg capsules) taken orally once daily.

- Patients should start treatment with Zejula no later than 8 weeks after their most recent platinum-containing regimen.
 - Zejula treatment should be continued until disease progression or unacceptable toxicity.
- Tesaro plans to launch Zejula as 100 mg capsules in late April 2017.



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