Xtandi (enzalutamide)



NEW INDICATION REVIEW



Introduction

- Brand name: Xtandi
- Generic name: Enzalutamide
- Pharmacological class: Androgen receptor inhibitor
- Strength and Formulation: 40mg; soft gelatin caps
- Manufacturer: Astellas Pharma
- How supplied: Caps—120
- Legal Classification: Rx

Xtandi



Indications

- New indication
 - Treatment of patients with castrationresistant prostate cancer (CRPC)

- Previous indication
 - Treatment of patients with metastatic
 CRPC

Dosage & Administration

- Swallow whole
- 160mg once daily
- Patients receiving Xtandi should also receive a gonadotropin-releasing hormone (GnRH) analog concurrently or should have had bilateral orchiectomy

Dosage & Administration

- ≥Grade 3 toxicity or intolerable side effect: withhold dosing for 1 week or until symptoms improve to ≤Grade 2, then resume at same or reduced dose (120mg or 80mg), if warranted
- Concomitant strong CYP2C8 inhibitors: avoid if possible; if co-administration necessary, reduce enzalutamide dose to 80mg once daily

Dosage & Administration

- Concomitant strong CYP3A4 inducers: avoid if possible; if co-administration necessary, increase enzalutamide dose to 240mg once daily.
- When CYP2C8 inhibitor or CYP3A4 inducer is discontinued, return enzalutamide dose to that prior to initiation of the inhibitor or inducer

Considerations for Special Populations

- Pediatric: Not established
- Pregnancy: Can cause fetal harm and loss of pregnancy; do not handle if pregnant or may become pregnant
- Nursing mothers: Not established
- Elderly: No overall differences in safety or efficacy
- Renal impairment: Severe (CrCl <30mL/min) and ESRD: not assessed</p>

Warnings/Precautions

- Risk of seizure; permanently discontinue if occurs
- Discontinue if posterior reversible encephalopathy syndrome (PRES) develops
- Permanently discontinue for serious hypersensitivity reactions

Warnings/Precautions

- Monitor for ischemic heart disease; discontinue for Grade 3-4 ischemic heart disease
- Evaluate for fracture and fall risk
- Males with female partners of reproductive potential: use effective contraception during and for 3 months after final dose

Interactions

- Avoid concomitant CYP2C8 inhibitors (eg, gemfibrozil) if possible; if coadministration unavoidable, reduce dose (see Dosing)
- Avoid concomitant CYP3A4 inducers (eg, carbamazepine, phenobarbital, phenytoin, rifabutin, rifampin, rifapentine, St. John's Wort); if unavoidable, increase dose (see Dosing)

Interactions

- Antagonizes midazolam (CYP3A4 substrate), warfarin (CYP2C9 substrate), and omeprazole (CYP2C19 substrate)
- May antagonize concomitant drugs with narrow therapeutic indexes metabolized by CYP3A4 (eg, alfentanil, cyclosporine dihydroergotamine, ergotamine, fentanyl, pimozide, quinidine, sirolimus, tacrolimus), CYP2C9 (eg, phenytoin, warfarin), CYP2C19 (eg, S-mephenytoin, clopidogrel); avoid

Interactions

- Conduct more INR monitoring if concomitant warfarin cannot be avoided
- Caution with concomitant drugs that may lower the seizure threshold

Adverse Reactions

- Asthenia/fatigue
- Decreased appetite
- Hot flush
- Arthralgia
- Dizziness/vertigo
- Hypertension
- Headache

- Decreased weight
- Seizure
- PRES
- Ischemic heart disease
- Falls and fractures

Mechanism of Action

 Enzalutamide competitively inhibits androgen binding to androgen receptors, inhibiting nuclear translocation of androgen receptors and their interaction with DNA

- The safety and efficacy Xtandi for nonmetastatic CRPC was evaluated in a randomized, multicenter study (PROSPER) in 1401 patients
- Data from the PROSPER trial supported the approval of an expanded indication for Xtandi in CRPC

- Patients received Xtandi 160mg once daily or placebo once daily
- All received a GnRH analog or had a prior bilateral orchiectomy
- Patients were allowed to continue or start glucocorticoids

- The major efficacy outcome of the study was metastasis-free survival (MFS), defined as time from randomization to whichever of the following occurred first:
 - Loco-regional and/or distant radiographic progression per BICR
 - Death up to 112 days after treatment discontinuation without evidence of radiographic progression

MFS:

- Number of events: 23.5% (Xtandi) vs 48.7% (placebo)
- Median, months: 36.6 (95% CI, 33.1–NR)
 vs 14.7 (95% CI, 14.2–15.0)
- HR 0.29 (95% CI, 0.24–0.35; P < .0001)

- A statistically significant delay in time to first use of antineoplastic therapy (TTA) was seen with Xtandi vs placebo
 - 39.6 months vs. 17.7 months (HR 0.21, 95% CI, 0.17–0.26; P < .0001)

 Overall survival (OS) data were not mature at time of final MFS analysis

For more clinical data, see full labeling

New Product Monograph

For more information view the product monograph available at:

https://www.empr.com/xtandi/drug/8023/