

The purpose of VA PBM Services drug monographs is to provide a focused drug review for making formulary decisions. Updates will be made if new clinical data warrant additional formulary discussion. The Product Information or other resources should be consulted for detailed and most current drug information.

Elacestrant (ORSERDU™)

Mini-Monograph

June 2023

VA Pharmacy Benefits Management Services, Medical Advisory Panel, and VISN Pharmacist Executives

FDA APPROVAL	Description/MOA	Estrogen receptor antagonist; inhibits 17β-estradiol-mediated cell growth; active in ER+, HER2-, <i>ESR1</i> mutation-positive advanced breast cancer
	Indication(s) Under Review	Treatment of ER+, HER2-, <i>ESR1</i> -mutated advanced or MBC after progression ≥ 1L endocrine therapy in men or postmenopausal women
	Dosage Form(s)	Oral tablets: 86 mg and 345 mg

CLINICAL EVIDENCE	Study/Design	EMERALD: Randomized, open-label, multicenter trial
	Population	N=478 [n=228 <i>ESR1</i> -mutated]; ER+, HER2- advanced or MBC after 1-2L prior endocrine tx (incl 1L CDK4/6i+ AI or fulvestrant) or progression on/within 12 mos of adjuvant endocrine therapy; ECOG PS 0-1; Excluded: CV events in prior 6 mos*
	Demographics	mAge 63 yrs; women (~98%); white (~87.5%); Asian (8%); Hispanic (8%); visceral mets (~70%)
	Intervention	Randomized 1:1 to elacestrant 345 mg PO daily vs. SOC (Inv choice of fulvestrant or AI monotherapy, not used previously); Stratified by <i>ESR1</i> mutation status, prior tx w/fulvestrant, visceral metastases
	Results	<i>ESR1</i> -mutated: PFS events: 54 vs. 69%; mPFS: 3.8 vs. 1.9 mos [HR 0.55 (0.39-0.77)]; p=0.0005] ITT pop'n w/o <i>ESR1</i> -mutation (52%): PFS [HR 0.86 (0.63-1.19)], so ITT PFS benefit due to <i>ESR1</i> -mutated pop'n; No significant difference in OS at interim analysis; trend favors elacestrant; Point estimates in subgroups favor elacestrant, confidence interval of prior treatment with fulvestrant crossed value = 1.0 [HR 0.67(95% CI 0.44-1.03)]
	Summary	Significant PFS-benefit in those with <i>ESR1</i> -mutation; no benefit in those without; no OS difference noted

* CV events include: unstable angina, MI, CABG, prolonged QT interval, uncontrolled afib, NYHA > Class II heart failure, coagulopathy, CVA

SAFETY	Boxed warnings	None
	Contraindications	None
	Warnings/Precautions	Dyslipidemia, Embryo-fetal toxicity
	Adverse reactions	≥ 10%: musculoskeletal pain, nausea, ↑ cholesterol, ↑ AST, ↑ trigs, fatigue, ↓ hgb, vomiting, ↑ ALT, ↓ sodium, ↑ SCr, ↓ appetite, diarrhea, headache, constipation, abdominal pain, hot flush, dyspepsia
	Drug Interactions	Avoid moderate-strong CYP3A4 inducers/inhibitors; use caution with P-gp substrates and BCRP substrates as their concentration may increase along with AEs
	Other	Avoid in severe hepatic impairment (Child-Pugh C); dose-reduce in mod impairment

Drug and Alternatives	Formulary status	Clinical Guidance	Other Considerations
Elacestrant	TBD	None	Oral form taken with food; caution in hepatic impairment; ↑ risk of dyslipidemia; avoid concomitant use with CYP3A4 inhibitors/inducers
Fulvestrant	PA-F Restrict to H/O	None	Initial doses IM on days 1, 15, 29, then monthly IM injections (250mg/5ml x2);
Aromatase Inhibitors	Formulary	None	AI (letrozole, anastrozole, exemestane) are oral formulations

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Projected Place in Therapy/Conclusions

- Among patients with *ESR1*-mutation, ER+, HER2- advanced breast cancer s/p endocrine therapy that included 1L with a CDK4/6 inhibitor, elacestrant improved PFS compared to SOC monotherapy with fulvestrant or AI
- Evaluate hepatic function, lipid profile and potential drug-drug interactions at baseline and throughout course of treatment
- Stress that patients should take daily dose with food to minimize GI distress

Key

AI aromatase inhibitor, ITT intent-to-treat, PFS progression-free survival, OS overall survival, CDK4/6i cyclin-dependent kinase 4/6 inhibitor, SOC standard of care, HR hormone receptor, HER2 human epidermal growth factor receptor 2, MBC metastatic breast cancer, ESR1 estrogen receptor 1 gene

References

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- Bidard FC, Kaklamani VG, Neven P, et al. Elacestrant versus Standard Endocrine Therapy for Estrogen Receptor-Positive, Human Epidermal Growth Factor Receptor 2-Negative Advanced Breast Cancer: Results from the Randomized Phase III EMERALD Trial. *J Clin Oncol* 2022; 40: 3246-3256.
 - Elacestrant (ORSERDU) prescribing information. Stemline Therapeutics, Inc. New York, NY. January 2023.