Article details

Study design and treatment including planned sample size, planned study period and study procedures

Elacestrant

Exemestane



Title of article

EMERALD: phase 3 trial of elacestrant (RAD1901) versus endocrine therapy for previously-treated ER+ advanced breast cancer



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Article URL

www.futuremedicine.com/doi/10.2217/fon-2019-0370



Trial registration number

NCT03778931; EudraCT 2018-002990-24

Primary objectives/rationale



Primary objective

Compare PFS between elacestrant and SoC groups for all patients (tumors with ESR1-mutation [ESR1-mut] and tumors with ESR1-mutation not detected [ESR1-mut-nd]) and patients with tumors that harbor an ESR1 mutation



Rationale

Elacestrant is a novel oral SERD that has shown efficacy in Phase 1 studies in postmenopausal women with advanced or metastatic ER-/HER2-breast cancer, including those who had progressed on a CDK4/6 inhibitor and those whose tumors harbored ESR1 mutation

Glossary

Al: Aromatase inhibitor; CBR: Clinical benefit rate; CDK: Cyclin-dependent kinase; CR: Complete response; ctDNA: Circulating tumor DNA; CT: Computed tomography; DoR: Duration of response; EBR: Estrogen receptor positive; ESR1: Estrogen receptor gene alpha; ESR1-mut: ESR1 gene mutation; ESR1-mut-nd: No ESR1 gene mutation detected (includes ESR1 wild type as well as mutations below limit of detection of the assay); HER2: Human epidermal growth factor receptor 2; IBC: Imaging review committee; MRI: Magnetic resonance imaging; ORR: Objective response rate; OS: Overall survival; PFS: Progression-free survival; PR: Partial response; PRO: Patient-reported outcomes; RECIST: Response Evaluation Criteria in Solid Tumors; SD: Stable disease; SoC: Standard of care

Inclusion criteria

- Advanced/metastatic ER+/HER2- breast cancer
- Progressed or relapsed on or after 1 or 2 lines of endocrine therapy, 1 of which was given in combination with a CDK4/6 inhibitor, for advanced or metastatic breast cancer
- ECOG PS 0 or 1

Stratification factors:

- · ESR1 mutation: Y/N
- · Prior treatment with fulvestrant: Y/N
- · Presence of visceral metastases: Y/N





Phase 3

Open-labe

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Randomized 1:1



International



Multicenter

466 patients

ternational



Adult men and postmenopausal women

Planned study period:

November 2018 to August 2022 (~ 42-45 months)

Study design:

Randomized, active-controlled, open-label Phase 3 study in patients with advanced or metastatic ER+/HER2-breast cancer

Study procedures:

Tumor assessments via CT/MRI of chest, abdomen, pelvis, and clinically indicated sites of disease will be performed every 8 weeks and evaluated according to RECIST v1.1. For patients with bone lesions identified at baseline, a radionuclide bone scan or whole body MRI us to be performed every 24 weeks. Elacestrant plasma concentrations will be analyzed and ctDNA analysis will be performed. Patient-reported outcomes will be evaluated.

Outcome measures/end points



Primary end point

Blinded IRC-assessed PFS in ESR1-mut patients and in all patients (ESR1-mut and ESR1-mut-nd)



Additional secondary end points

Other secondary endpoints analyzed in ESR1-mut and all patients are IRC-assessed ORR, DoR, and CBR (defined as the percentage of patients who have achieved either a confirmed CR or PR, or stable disease at ≥ 24 weeks from randomization); investigator assessed PFS, ORR, DoR, and CBR; safety and tolerability, elacestrant pharmacokinetics, and PRO measures



Secondary end points

OS in ESR1-mut patients and in all patients