GRUPPO DI LAVORO A

Coordinatori: C. Angiolini; F. Miglietta; G. Pappagallo

In pazienti con carcinoma mammario HR-positivo/HER2-negativo, metastatico, con mutazione *ESR1*, dopo almeno una linea di ormonoterapia (comprendente CDK4/6i),

un trattamento con elacestrant vs fulvestrant è raccomandabile?

Sintesi delle evidenze e problematiche emerse dal lavoro di gruppo

Federica Martorana



QUESITO + PICO

Should elacestrant vs. fulvestrant be used for patients with ER-Positive, HER2-Negative, Advanced Breast Cancer with detectable ESR1 mutations?

POPULATION:

patients with ER-Positive, HER2-Negative, Advanced Breast Cancer with detectable ESR1 mutations, progressed on prior CDK4/6 inhibitor in combination with an Al

INTERVENTION:

elacestrant

COMPARISON:

fulvestrant

MAIN OUTCOMES:

Progression-free survival; Overall Survival; Any Adverse Event of CTC-AE Grade 3-4; Nausea (every CTC-AE Grade); Vomiting (every CTC-AE Grade); Any Adverse Event leading to Discontinuation of elacestrant/fulvestrant

SETTING:

outpatient

STUDIO EMERALD

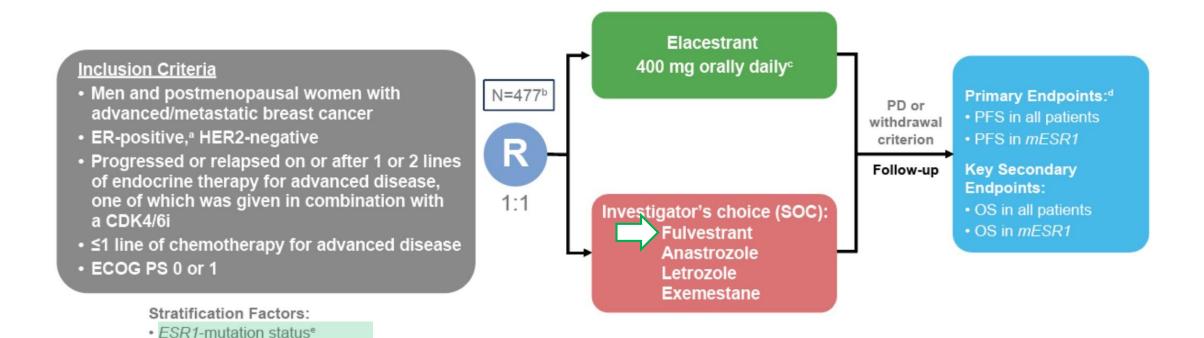
Elacestrant (oral selective estrogen receptor degrader) Versus Standard Endocrine Therapy for Estrogen Receptor—Positive, Human Epidermal Growth Factor Receptor 2—Negative Advanced Breast Cancer: Results From the Randomized Phase III EMERALD Trial

Francois-Clement Bidard, MD^{1,2}; Virginia G. Kaklamani, MD³; Patrick Neven, MD⁴; Guillermo Streich, MD⁵; Alberto J. Montero, MD⁶; Frédéric Forget, MD⁷; Marie-Ange Mouret-Reynier, MD⁸; Joo Hyuk Sohn, MD⁹; Donatienne Taylor, MD¹⁰; Kathleen K. Harnden, MD¹¹; Hung Khong, MD¹²; Judit Kocsis, MD¹³; Florence Dalenc, MD¹⁴; Patrick M. Dillon, MD¹⁵; Sunil Babu, MD¹⁶; Simon Waters, MD¹⁷; Ines Deleu, MD¹⁸; José A. García Sáenz, MD¹⁹; Emilio Bria, MD²⁰; Marina Cazzaniga, MD²¹; Janice Lu, MD²²; Philippe Aftimos, MD²³; Javier Cortés, MD^{24,25,26,27}; Shubin Liu, MS²⁸; Giulia Tonini, PhD²⁹; Dirk Laurent, MD³⁰; Nassir Habboubi, MD³¹; Maureen G. Conlan, MD³²; and Aditya Bardia, MD³³

J Clin Oncol 40:3246-3256. © 2022 by American Society of Clinical Oncology

STUDIO EMERALD

Prior treatment with fulvestrant
 Presence of visceral metastases



^aDocumentation of ER-positive tumor with ≥1% staining by immunohistochemistry; ^bRecruitment from February 2019 to October 2020; ^cProtocol-defined dose reductions permitted; ^dBlinded independent central review. ^eESR1-mutation status was determined by cell-free circulating DNA analysis using Guardant360[®] CDx (Guardant Health, Redwood City, CA)

Valutazione Effetti Desiderabili

Desirable Effects How substantial are the desirable anticipated effects?						
JUDGEMENT	RESEARCH EVIDENCE					
o Trivial o Small o Moderate o Large o Varies o Don't know	Outcomes	With fulvestrant	With elacestrant	Difference	Relative effect (95% CI)	
	Progression-free survival assessed with: Kaplan-Meier product limit estimate follow-up: median 15.1 months	90 per 100	68 per 100 (54 to 82)	22 fewer per 100 (36 fewer to 8 fewer)	HR 0.50 (0.34 to 0.74)	
	Overall Survival assessed with: Kaplan-Meier product limit estimate follow-up: median 15.1 months	41 per 100	27 per 100 (17 to 40)	14 fewer per 100 (24 fewer to 1 fewer)	HR 0.59 (0.36 to 0.96)	

Valutazione Effetti Desiderabili

JUDGEMENT	RESEARCH EVIDENCE				
TrivialSmallModerate	Outcomes	With fulve: NNT	With : 1/0.22	Difference 4.5	Relative effect (95% CI)
o Large o Varies o Don't know	Progression-free survival assessed with: Kaplan-Meier product limit estimate follow-up: median 15.1 months	90 per 100 NNT	68 per 100 (54 to 82) : 1/0.14	22 fewer per 100 (36 fewer to 8 = 7 . 1	HR 0.50 (0.34 to 0.74)
	Overall Survival assessed with: Kaplan-Meier product limit estimate follow-up: median 15.1 months	41 per 100	27 per 100 (17 to 40)	14 fewer per 100 (24 fewer to 1 fewer)	HR 0.59 (0.36 to 0.96)

Valutazione Effetti Desiderabili

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Valutazione Effetti Non Desiderabili

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT

RESEARCH EVIDENCE

o Trivial

o Small

o Moderate

o Large

o Varies

O Don't know

Outcomes	With fulvestrant	With elacestrant	Difference	Relative effect (95% CI)
Any Adverse Event of CTC-AE Grade 3-4 assessed with: cumulative incidence	20 per 100	27 per 100 (19 to 39)	7 more per 100 (2 fewer to 19 more)	RR 1.32 (0.91 to 1.91)
Nausea (every CTC-AE Grade) assessed with: cumulative incidence	16 per 100	35 per 100 (24 to 52)	19 more per 100 (7 more to 36 more)	RR 2.17 (1.46 to 3.21)
Vomiting (every CTC-AE Grade) assessed with: cumulative incidence	7 per 100	19 per 100 (10 to 35)	12 more per 100 (3 more to 27 more)	RR 2.55 (1.39 to 4.66)
Any Adverse Event leading to Discontinuation of elacestrant/fulvestrant assessed with: cumulative incidence	4 per 100	6 per 100 (2 to 16)	3 more per 100 (1 fewer to 12 more)	RR 1.70 (0.67 to 4.28)

Valutazione Effetti Non Desiderabili

Undesirable Effects

How substantial are the undesirable anticipated effects?

JUDGEMENT

RESEARCH EVIDENCE

o Trivial

⋉ Small

Moderate

o Large

o Varies

o Don't know

Outcomes	With fulvestrant	With elacestrant	Difference	Relative effect (95% CI)
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Valutazione Qualità delle Prove

Certainty of everall	vidence certainty of the evidence of effects?		
JUDGEMENT	RESEARCH EVIDENCE		
 ○ Very low ▲ Low ○ Moderate ○ High ○ No included studies 	Outcomes	Importance	Certainty of the evidence (GRADE)
	Progression-free survival	CRITICAL	⊕⊕⊕ High ^{a,b,c,d,e}
	Overall Survival	CRITICAL	⊕⊕⊜ Low ^{c,d,f,g,h}
	Any Adverse Event of CTC-AE Grade 3-4	CRITICAL	⊕⊕⊜ Low ^{b,c,d,i,j,k}
	Any Adverse Event leading to Discontinuation of elacestrant/fulvestrant	CRITICAL	⊕⊕⊜ Low ^{b,c,d,i,j,k}
	 a. low risk of detection bias (BICR assessment) b. previous treatment with fulvestrant as stratification factor c. a single study d. fulvestrant as adequate comparator e. wide 95%CI of absolute effect, but consistent with a unique clinical interpretation f. low risk of detection bias for the OS outcome g. patients with SOC of AI included h. 95%CLs of absolute effect consistent with both greater and comparable efficacy i. independently of ESR1 mutation status; may not be downgraded j. 95%CLs of absolute effect consistent with opposite clinical interpretations k. serious risk of performance bias in open-label trial 		