

High-Dose Fulvestrant for the Treatment of Postmenopausal Patients with Hormone Receptor-Positive Advanced Breast Cancer

Presentations discussed in this issue:

Robertson JF et al. **Activity of fulvestrant 500 mg versus anastrozole 1 mg as first-line treatment for advanced breast cancer: Results from the FIRST study.** *J Clin Oncol* 2009;27(27):4530-5. [Abstract](#)

Di Leo A et al. **CONFIRM: A Phase III, randomized, parallel-group trial comparing fulvestrant 250 mg vs fulvestrant 500 mg in postmenopausal women with estrogen receptor-positive advanced breast cancer.** SABCS 2009; [Abstract 25](#).

Slides from a journal article and from a presentation at SABCS 2009

Activity of Fulvestrant 500 mg Versus Anastrozole 1 mg As First-Line Treatment for Advanced Breast Cancer: Results From the FIRST Study

Robertson JFR et al.

J Clin Oncol 2009;27(27):4530-35.

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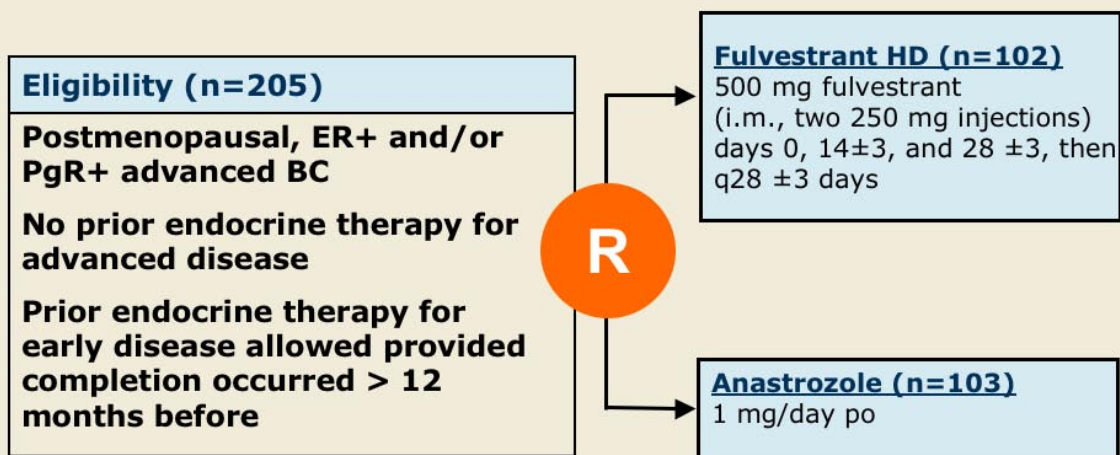
Introduction

- Evidence suggests that doses of fulvestrant higher than the approved dose (AD; 250 mg/month) have greater pharmacological activity (*Oncologist* 2007;12:774).
- Phase II trial NEWEST demonstrated that neoadjuvant fulvestrant high dose (HD; 500 mg/month) is more effective than AD at downregulating the ER pathway in patients with advanced breast cancer (SABCS 2007, Abstract 23).
- Phase III trials have demonstrated that fulvestrant AD is as effective as anastrozole as second-line therapy for advanced breast cancer (*Cancer* 2003;98:229).
- **Current study objective:**
 - Assess the efficacy of first-line fulvestrant HD versus anastrozole in postmenopausal patients with advanced breast cancer (BC).

Source: Robertson JFR et al. *J Clin Oncol* 2009;27(27):4530-35.

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FIRST: A Phase II, Open-Label Multicenter Trial of Fulvestrant HD Versus Anastrozole



Source: Robertson JFR et al. *J Clin Oncol* 2009;27(27):4530-35.

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Efficacy Results

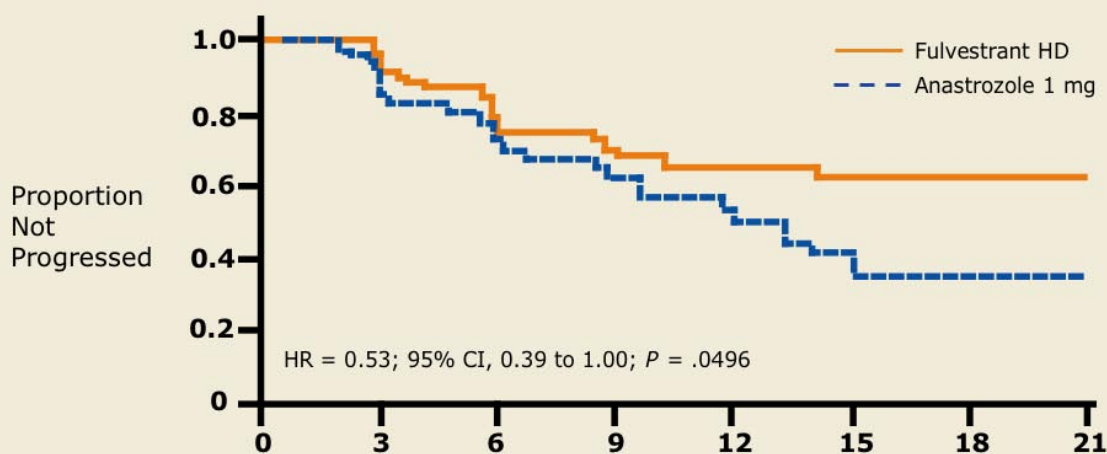
Clinical Response	Fulvestrant HD (n=102)	Anastrozole 1 mg (n=103)	P-value
Clinical benefit rate (CBR)	72.5%	67.0%	0.386
Complete response	0%	1.0%	—
Partial response	31.4%	31.1%	—
Stable disease ≥ 24 wks	41.2%	35%	—
Median duration of response	Not reached	14.2 mos	—
Median duration of clinical benefit	Not reached	Not reached	—
Objective response rate (ORR)*	36.0%	35.5%	0.947

*Fulvestrant HD, n=89; anastrozole, n=93.

Source: Robertson JFR et al. *J Clin Oncol* 2009;27(27):4530-35.

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Time to Progression (TTP)



Anastrozole median TTP: 12.5 months
Fulvestrant HD median TTP: Not reached

Source: Reprinted with permission. ©2008 American Society of Clinical Oncology. All rights reserved. Robertson JFR et al. *J Clin Oncol* 2009;27(27):4530-35.

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Prespecified Adverse Events (Safety Population)

Adverse Event*	Fulvestrant HD (n=101)	Anastrozole 1 mg (n=103)	P-value
GI disturbances	27.7%	22.3%	0.420
Hot flashes	12.9%	13.6%	1.000
Ischemic cardiovascular disorders	0%	1.0%	1.000
Joint disorders	13.9%	9.7%	0.391
Urinary tract infections	4.0%	1.0%	0.210
Weight gain	1.0%	0%	0.495

*Only adverse events with incidences > 1% are shown.

Source: Robertson JFR et al. *J Clin Oncol* 2009;27(27):4530-35.

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Summary and Conclusions

- First-line fulvestrant HD was as effective as anastrozole for the treatment of postmenopausal patients with advanced BC in terms of CBR and ORR.
 - CBR: 72.5% vs 67.0% (p -value=0.386)
 - ORR: 36.0% vs 35.5% (p -value=0.947)
- Median TTP, duration of response and duration of clinical benefit favored fulvestrant HD over anastrozole in this trial setting.
 - The early separation of the Kaplan-Meier curves for TTP suggests that fulvestrant HD may benefit patients who progress early.
 - The longer duration of response and duration of clinical benefit (data not shown) indicate patients' responses are more durable with fulvestrant HD.
- Fulvestrant HD was well tolerated with an adverse event profile comparable to anastrozole.
- CONFIRM trial results (SABCS 2009;Abstract 25) provide additional information on the role of fulvestrant HD for the treatment of advanced BC.

Source: Robertson JFR et al. *J Clin Oncol* 2009;27(27):4530-35.

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CONFIRM: A Phase III, Randomized, Parallel-Group Trial Comparing Fulvestrant 250 mg vs Fulvestrant 500 mg in Postmenopausal Women with Estrogen Receptor-Positive Advanced Breast Cancer

Di Leo A et al.

SABCS 2009;Abstract 25.

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Introduction

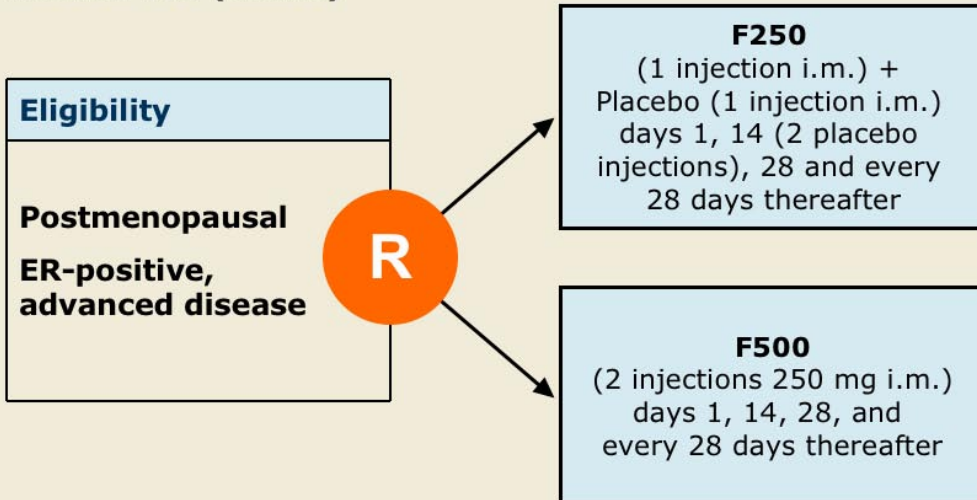
- Fulvestrant is approved for the treatment of postmenopausal women with advanced breast cancer (BC) that have progressed or relapsed following endocrine therapy.
- The efficacy of fulvestrant is well established at the approved dose of 250 mg/month (F250).
- Phase II trials NEWEST¹ and FIRST² have demonstrated that a 500 mg dose of fulvestrant (F500) has improved biological and clinical activities (¹SABCS 2007;Abstract 23, ²JCO 2009;27:4530).
- **Current study objectives:**
 - Compare the biological activity of F250 versus F500 in postmenopausal patients with estrogen receptor (ER)-positive advanced BC.

Source: Di Leo A et al. SABCS 2009;Abstract 25.

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CONFIRM Study Design

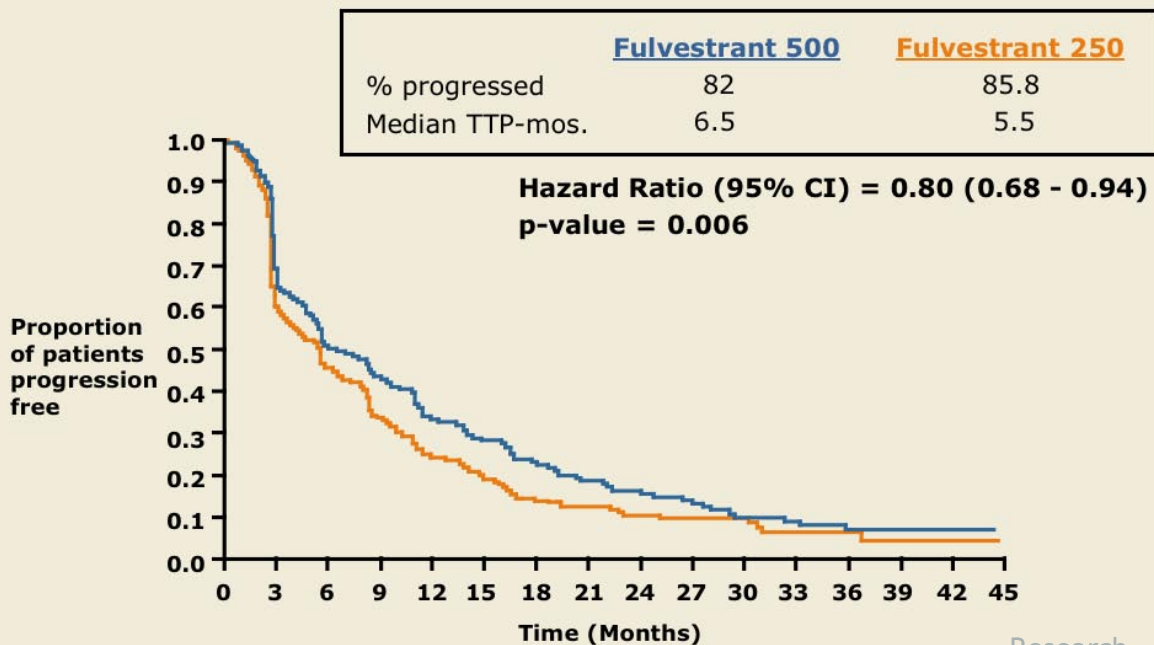
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Source: Di Leo A et al. SABCS 2009;Abstract 25.

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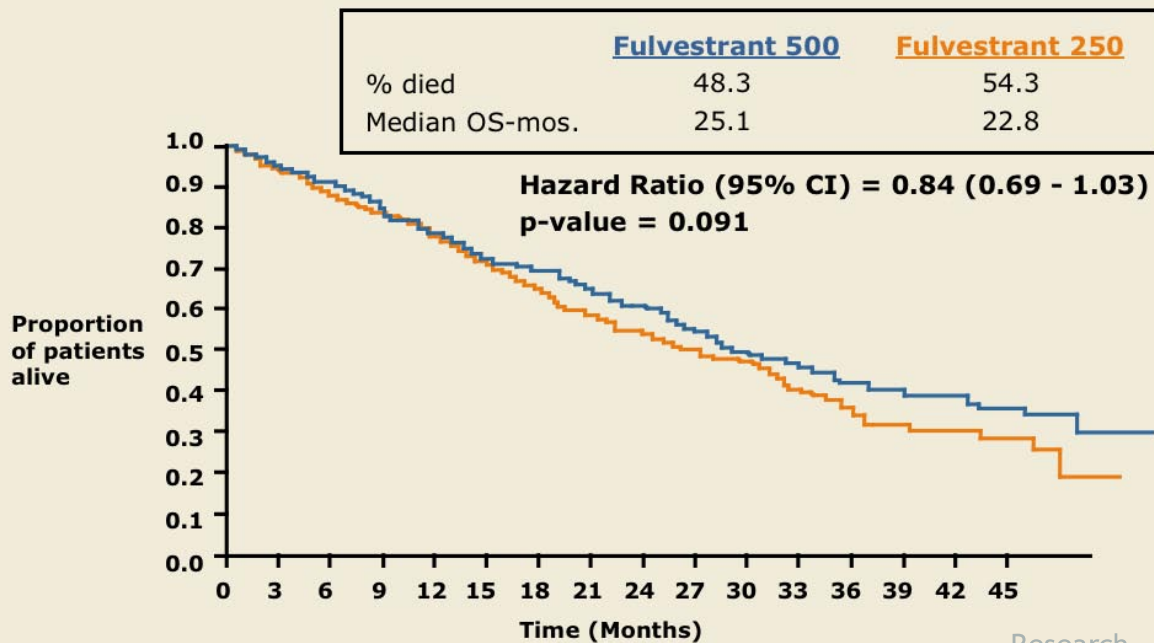
Time to Progression (ITT Analysis)



Source: With permission from Di Leo A et al. SABCS 2009;Abstract 25.

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Overall Survival (50% events)



Source: With permission from Di Leo A et al. SABCS 2009;Abstract 25.

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Objective Response and Clinical Benefit

	F500 (n=362)	F250 (n=374)	Odds ratio (95% CI)
Objective response rate (%)	9.1	10.2	0.94 (0.57 - 1.55)
Complete response (%)	1.1	0.3	—
Partial response (%)	8.0	9.9	—
Clinical benefit rate (%)	45.6	39.6	1.28 (0.95 - 1.71)
Progressive disease (%)	38.7	44.7	—
Median duration of clinical benefit (months)	16.6	13.9	—

Source: Di Leo A et al. SABCS 2009;Abstract 25.

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Pre-specified Adverse Events*

	F500 (n=361)		F250 (n=324)	
	All (%)	≥ Grade 3 (%)	All (%)	≥ Grade 3 (%)
Gastrointestinal disturbances	20.2	2.2	20.3	0.2
Joint disorders	18.8	2.2	18.7	2.1
Injection site reactions	13.6	0.2	13.4	0
Hot flashes	8.3	0	6.1	0
Urinary tract infections	2.2	0.2	2.1	0.2
Ischemic cardiovascular disorders	1.4	0	1.9	0.8
Thromboembolic events	0.8	0.5	1.6	1.0

* Shown are only those adverse events with an incidence of $\geq 1\%$.

Source: Di Leo A et al. SABCS 2009;Abstract 25.

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Conclusions

- TTP was increased in a statistically significant manner with F500 compared to F250.
 - TTP improvement likely a consequence of an increase in the rate of and prolonged duration of disease stabilization.
- The 50% events overall survival analysis appeared to favor F500, although statistical significance has not yet been reached.
 - 75% events overall survival analysis is expected in 2011.
- F500 was well tolerated, with a safety profile consistent with that of F250 and no evidence of dose-dependence for any adverse event.
- Exploratory analyses are underway to identify biologically and clinically defined patient cohorts that might derive the largest benefit from F500 (data not shown).

Source: Di Leo A et al. SABCS 2009;Abstract 25.

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