

Outcomes of Women Who Were Premenopausal at Diagnosis in the MA17 Trial of Extended Letrozole After Five Years of Tamoxifen

Presentation discussed in this issue:

Goss PE et al. **Outcomes of women who were premenopausal at diagnosis of early stage breast cancer in the NCIC CTG MA17 trial.** San Antonio Breast Cancer Symposium 2009; [Abstract 13](#).

Slides from a presentation at SABCS 2009

Outcomes of Women Who Were Premenopausal at Diagnosis of Early Stage Breast Cancer in the NCIC CTG MA17 Trial

Goss PE et al.

SABCS 2009; Abstract 13.

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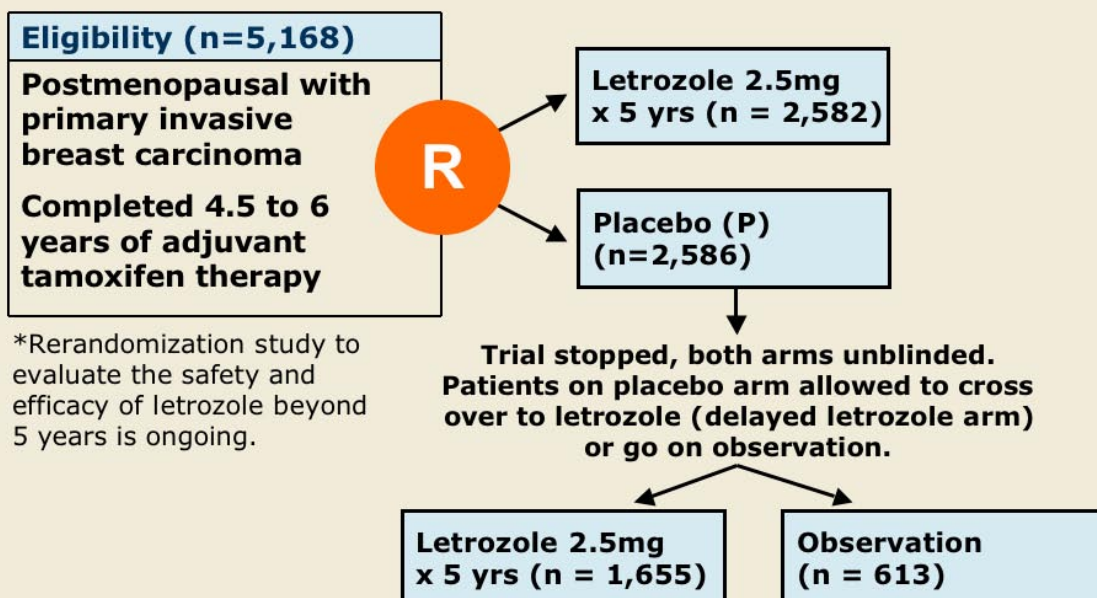
Introduction

- Extended aromatase inhibitor (AI) therapy is a standard of care for postmenopausal women with hormone receptor-positive (HR+) breast cancer who have received 5 years of tamoxifen (*NEJM* 2003;349:1793, *JCO* 2008;26:1965).
- Five years of tamoxifen therapy remains a common standard adjuvant hormonal therapy in premenopausal patients.
- A substantial proportion of premenopausal patients with estrogen receptor-positive breast cancer recur after 5 years of tamoxifen therapy (SABCS 2007;Abstract P-1).
- **Current study objective:**
 - Assess the benefit of extended aromatase inhibitor therapy after five years of tamoxifen in women who are premenopausal at the time of diagnosis and become postmenopausal during tamoxifen.

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NCIC CTG MA17: Trial Schema*



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MA17: Patient Menopausal Status at Primary Diagnosis

- **Premenopausal (n=889)**
 - < 50 years of age with menses, but underwent subsequent bilateral oophorectomy when tamoxifen therapy started.
 - < 50 years of age with menses, but became amenorrheic during adjuvant chemotherapy or on tamoxifen.
- **Postmenopausal (n=4,277)**
 - ≥ 50 years of age without menses at diagnosis.
 - < 50 years of age without menses and considered postmenopausal at diagnosis.
 - Considered postmenopausal in terms of menopausal LH/FSH levels.

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Premenopausal Patients Have a Worse Prognosis

Patient Characteristic	Premenopausal (n=889)	Postmenopausal (n=4,227)	p-value
Median age at diagnosis	~45 yrs	~60 yrs	<0.0001
Node-positive	56%	44%	<0.001
Both ER- and PR-positive	77%	74%	0.02
Chemotherapy	80%	38%	<0.0001
Mastectomy	55%	50%	0.003
Letrozole treatment	48%	51%	0.14

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Absolute Differences in Four-Year Disease-Free Survival Rates (Letrozole versus Placebo)

	Premenopausal (n=889)	Postmenopausal (n=4,277)
All patients	10.1% HR=0.25; $p < 0.0001$	3.3% HR=0.69; $p = 0.0008$

In years 0 through 4 post completion of tamoxifen, premenopausal patients had a greater treatment benefit from letrozole than postmenopausal patients.

- **Premenopausal: 10.1% absolute decrease in disease recurrence (75% risk reduction)**
- **Postmenopausal: 3.3% absolute decrease in disease recurrence (31% risk reduction)**

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Absolute Differences in Four-Year DFS Rates in Node-Positive BC (Letrozole versus Placebo)

	Premenopausal (n=501)	Postmenopausal (n=1,857)
Node-positive	9.6% HR=0.37; $p = 0.008$	7.0% HR=0.68; $p = 0.03$

In patients with node-positive disease (years 0 to 4 post completion of tamoxifen), premenopausal patients had a greater treatment benefit from letrozole than postmenopausal patients.

- **Premenopausal: 9.6% absolute decrease in disease recurrence (63% risk reduction)**
- **Postmenopausal: 7.0% absolute decrease in disease recurrence (32% risk reduction)**

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Absolute Differences in Four-Year DFS Rates in Node-Negative BC (Letrozole versus Placebo)

	Premenopausal (n=375)	Postmenopausal (n=2,192)
Node-negative	11.5% HR=0.00; p=0.005	1.1% HR=0.58; p=0.04

In patients with node-negative disease (years 0 to 4 post completion of tamoxifen), premenopausal patients had a greater treatment benefit from letrozole than postmenopausal patients.

- **Premenopausal: 11.5% absolute decrease in disease recurrence (100% risk reduction)**
- **Postmenopausal: 1.1% absolute decrease in disease recurrence (42% risk reduction)**

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Absolute Differences in Five-Year DFS Rates (Delayed Letrozole vs Observation)

	Premenopausal (n=425)	Postmenopausal (n=1,957)
DFS	8.2% HR=0.39; p=0.007	3.0% HR=0.36; p=0.0003

In patients who delayed (up to six years post completion of tamoxifen) extended AI therapy, premenopausal patients had a greater treatment benefit from letrozole than postmenopausal patients.

- **Premenopausal: 8.2% absolute decrease in disease recurrence (61% risk reduction)**
- **Postmenopausal: 3.0% absolute decrease in disease recurrence (64% risk reduction)**

Goss PE et al. SABCs 2009; Abstract 13.

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Absolute Differences in Five-Year Distant DFS Rates (Delayed Letrozole vs Observation)

	Premenopausal (n=425)	Postmenopausal (n=1,957)
Distant DFS	5.9% HR=0.15; p=0.02	2.2% HR=0.45; p=0.03

In patients who delayed (up to six years post completion of tamoxifen) extended AI therapy, premenopausal patients had a greater treatment benefit from letrozole than postmenopausal patients.

- **Premenopausal: 5.9% absolute decrease in distant disease recurrence (85% risk reduction)**
- **Postmenopausal: 2.2% absolute decrease in distant disease recurrence (55% risk reduction)**

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Treatment-Related Toxicities

Adverse Event	Premenopausal		p-value
	Letrozole (n=424)	Placebo (n=465)	
Arthralgia	24%	16%	0.004
Vaginal bleeding	10%	16%	0.01

Adverse Event	Postmenopausal		p-value
	Letrozole (n=2,157)	Placebo (n=2,120)	
Hot flushes	55%	50%	0.001
Arthralgia	25%	21%	0.002
Myalgia	15%	12%	0.007
Alopecia	5%	3%	0.003

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Conclusions

- Premenopausal patients with ER-positive breast cancer benefit significantly from extended AI (letrozole) therapy after they become postmenopausal.
 - Absolute difference in 4-year % DFS in patients treated with letrozole versus placebo:
 - Premenopausal at diagnosis: 10.1%
 - Postmenopausal at diagnosis: 3.3%
- A similar treatment benefit was observed in patients who delayed letrozole therapy up to 6 years after completion of tamoxifen therapy.
- Reported treatment-related toxicities in premenopausal women were infrequent.

Goss PE et al. SABCS 2009;Abstract 13.

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