

con il Patrocinio dell'Associazione Italiana di Oncologia Medica



Progetto **CANOA**
CARCINOMA
MAMMARIO:

QUALI NOVITÀ PER IL 2014?

“Saper leggere” uno studio clinico per migliorare la pratica clinica

Coordinatori scientifici:
Stefania Gori
Giovanni L. Pappagallo



PROGRAMMA

Ospedaletto di Pescantina (VR) 21-22 marzo 2014
Park Hotel Villa Quaranta

Valutazione delle evidenze: studio IBIS II

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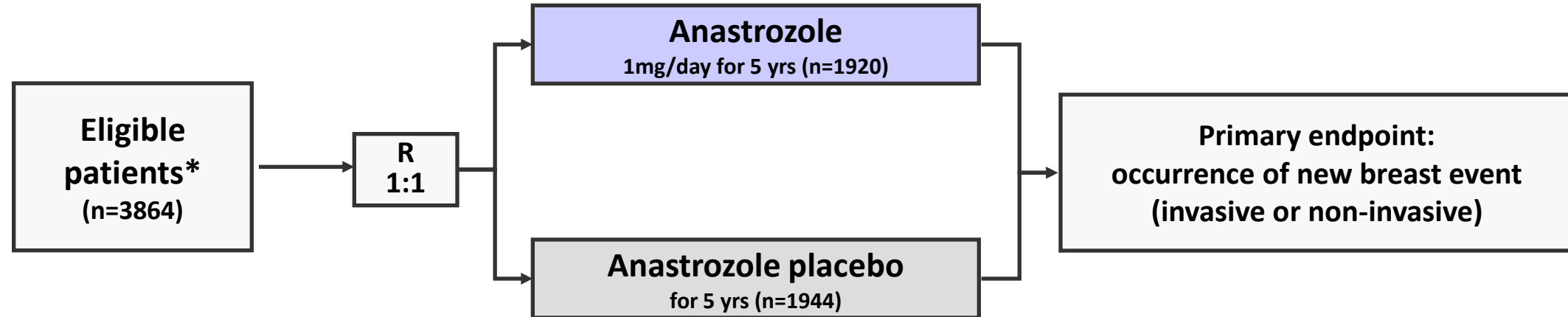


IBIS-II: Preventive Anastrozole in Postmenopausal Women at High Risk of BC

- Hormonal strategies for breast cancer shown to be efficacious in women with high risk of breast cancer
 - Including use of tamoxifen, raloxifene, and exemestane^[1-4]
- IBIS-II, an international double-blind randomized placebo-controlled trial, explored use of anastrozole in postmenopausal women with high risk of breast cancer^[5]
 - Criteria for women at high risk: family history, atypia/lobular carcinoma in situ, and/or breast density. Women who did not meet these criteria were included if the Tyrer-Cuzick model indicated a 10 –year risk of BC >5%
 - Primary endpoint: breast cancer incidence (invasive or DCIS)
 - Secondary endpoints: cancer incidence, mortality, safety

IBIS-II: Study design

02/2003-01/2012



*Main inclusion criteria

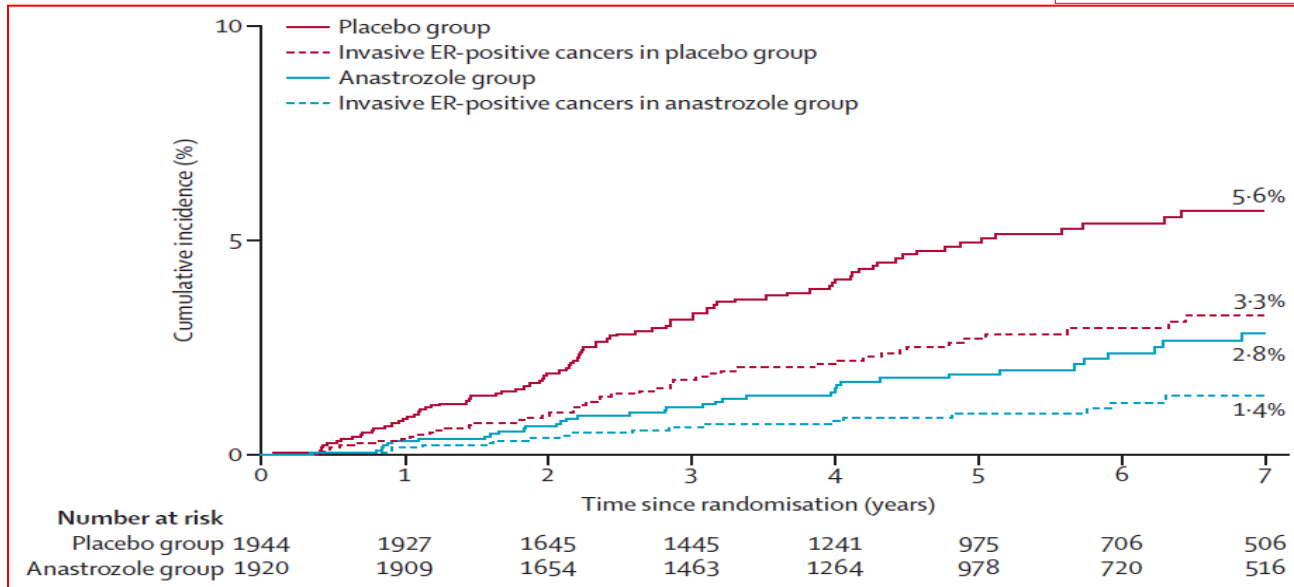
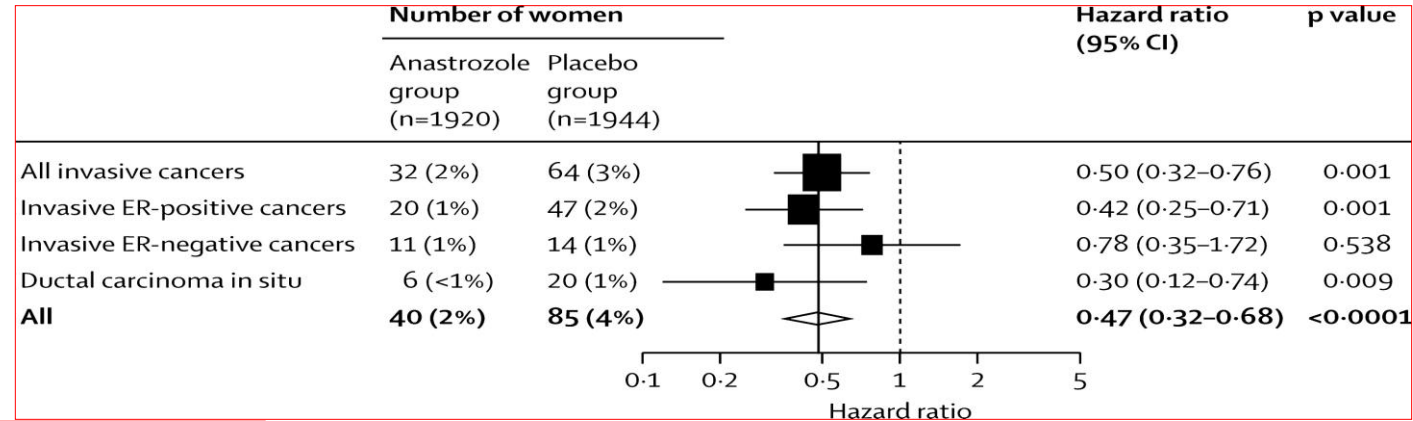
- Postmenopausal women
 - ✓ 40-70 years of age
- No current HRT
- High risk of breast cancer
 - ✓ Family history
 - ✓ Atypia/LCIS
 - ✓ Breast density



Follow-up after 5 years varied

IBIS-II: Results (primary end point)

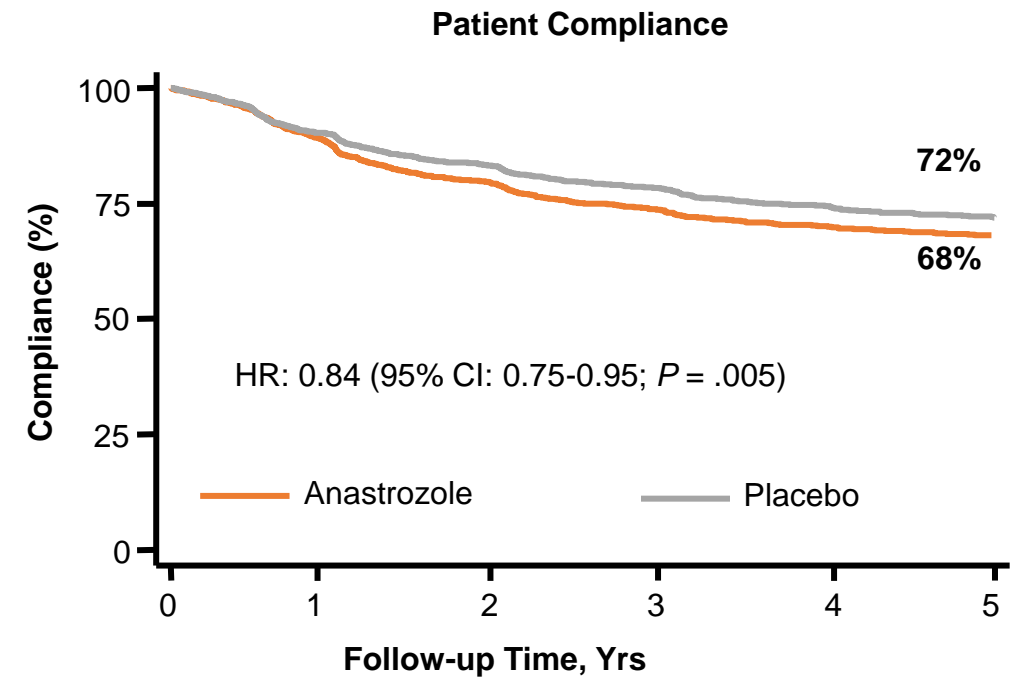
- Significant decrease in risk of invasive or non-invasive breast cancer with anastrozole
 - HR: 0.47, $p < 0.0001$



36 women (95% CI: 33-44) would need to be treated to prevent 1 cancer in 7 years of follow-up

IBIS-II: Toxicity and patient compliance

| Select Adverse Events % | Anastrozole (n = 1920) | Placebo (n = 1944) | RR (95% CI) |
|---------------------------------------|---------------------------|-----------------------|------------------|
| Fractures | 8.5 | 7.7 | 1.11 (0.90-1.38) |
| Musculoskeletal | 63.9 | 57.8 | 1.10 (1.05-1.16) |
| • Arthralgia (any) | 50.6 | 46.0 | 1.10 (1.03-1.18) |
| • Arthralgia (severe) | 8 | 6 | 1.24 (0.99-1.56) |
| • Joint stiffness | 7.4 | 4.9 | 1.51 (1.17-1.94) |
| • Carpal tunnel/ nerve compression | 3.5 | 2.2 | 1.58 (1.08-2.30) |
| Vasomotor (any) | 56.8 | 49.4 | 1.15 (1.08-1.22) |
| • Hypertension | 5 | 3 | 1.64 (1.18-2.28) |
| Vasomotor (severe) | 8 | 7 | 1.20 (0.95-1.50) |
| Gynecologic | 23.9 | 21.8 | 1.10 (0.98-1.24) |
| • Vaginal dryness | 19 | 16 | 1.19 (1.03-1.37) |



IBIS-II: Trial conclusions

- 53% reduction in breast cancer incidence compared with placebo in high-risk postmenopausal women
 - Unexpected reduction in incidence of other cancer types
- Anastrozole well tolerated compared with placebo by most high-risk postmenopausal women
 - Small but significant decrease in compliance
 - Small, non significant increase in fractures
 - 10% increase in musculoskeletal adverse events
- Anastrozole effective risk-reduction option for high-risk postmenopausal women

**PROCESSO DI PRODUZIONE
RACCOMANDAZIONE CLINICA
– METODO GRADE –**

Gruppo di lavoro B

**Coordinatori: C. Angiolini, M. Cinquini
C. Fontanella, M. Pestrin, B. Pistilli**

II QUESITO

P: donne in post-menopausa ad alto rischio di ca mammario invasivo

I: Antiaromatasi (ANASTROZOLE)

C: Placebo

Gli outcome

| | |
|---------------------------------------|---|
| O1: Incidenza di ca mammario invasivo | 9 |
| O2: mortalità | 8 |
| O3: artralgia | 7 |
| O4: eventi cardiovascolari | 9 |
| O5: fratture | 9 |
| O6: osteoporosi | 6 |
| O7: disturbi cognitivi | 8 |
| O8: sindrome tunnel carpale | 6 |
| O9: vampate | 5 |
| O10: rigidità articolare | 7 |
| O11: dislipidemia | 6 |
| O12: Ipertransaminasemia | 2 |

Bibliographic search

Anastrozole for prevention of breast cancer in high-risk postmenopausal women (IBIS-II): an international, double-blind, randomised placebo-controlled trial



*Jack Cuzick, Ivana Sestak, John F Forbes, Mitch Dowsett, Jill Knox, Simon Cawthorn, Christobel Saunders, Nicola Roche, Robert E Mansel, Gunter von Minckwitz, Bernardo Bonanni, Tiina Palva, Anthony Howell, on behalf of the IBIS-II investigators**



Summary

Background Aromatase inhibitors effectively prevent breast cancer recurrence and development of new contralateral tumours in postmenopausal women. We assessed the efficacy and safety of the aromatase inhibitor anastrozole for prevention of breast cancer in postmenopausal women who are at high risk of the disease.

Published Online
December 12, 2013
[http://dx.doi.org/10.1016/S0140-6736\(13\)62292-8](http://dx.doi.org/10.1016/S0140-6736(13)62292-8)

METODO GRADE

METODO TRASPARENTE CHE ANALIZZA
DETTAGLIATAMENTE UNO STUDIO CLINICO
METTENDO IN RISALTO SIA I RISULTATI SIA
LA QUALITA' DELL'EVIDENZA OUTCOME-
CENTRED

Summary of Findings Table (SoF)

Outcome di beneficio

Author(s): Group B

Date: 2014-03-21

Question: Should Anastrozole be used in invasive breast cancer high-risk postmenopausal women?

Settings:

Bibliography: Cuzick, Lancet 2013



| Quality assessment | | | | | | | No of patients | | Effect | | Quality | Importance |
|---|-------------------|-------------------------|--------------------------|--------------------------------------|-------------------------------------|----------------------|-----------------|-----------------|------------------------|---|-----------|------------|
| No of studies | Design | Risk of bias | Inconsistency | Indirectness | Imprecision | Other considerations | Anastrozole | Control | Relative (95% CI) | Absolute | | |
| Invasive breast cancer incidence (follow-up median 5 years) | | | | | | | | | | | | |
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision | none | 32/1920 (1.7%) | 64/1944 (3.3%) | RR 0.51 (0.33 to 0.77) | 2 fewer per 100 (from 1 fewer to 2 fewer) | ⊕⊕⊕⊕ HIGH | CRITICAL |
| Mortality (follow-up median 5 years) | | | | | | | | | | | | |
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision ⁴ | none | 18/1920 (0.94%) | 17/1944 (0.87%) | RR 1.07 (0.55 to 2.07) | 0 more per 100 (from 0 fewer to 1 more) | ⊕⊕⊕⊕ HIGH | CRITICAL |

| | | | | | | | | | | | | |
|---|-------------------|-------------------------|--------------------------|--------------------------------------|------------------------|------|--------------------|-------------------|------------------------|---|-----------|-------|
| Arthralgia (follow-up median 5 years; assessed with: CTC-NCI) | | | | | | | | | | | | |
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision | none | 872/1920 (45.4%) | 894/1944 (46%) | RR 1.10 (1.03 to 1.18) | 5 more per 100 (from 1 more to 8 more) | ⊕⊕⊕⊕ HIGH | CRITI |
| Carpal tunnel syndrome (follow-up median 5 years; assessed with: CTC-NCI) | | | | | | | | | | | | |
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision | none | 67/1920 (3.5%)* | 43/1944 (2.2%)* | RR 1.58 (1.08 to 2.3) | 1 more per 100 (from 0 more to 3 more) | ⊕⊕⊕⊕ HIGH | IMPOR |
| Fractures (follow-up median 5 years; assessed with: CTC-NCI) | | | | | | | | | | | | |
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision | none | 164/1920 (8.5%) | 149/1944 (7.7%) | RR 1.11 (0.9 to 1.38) | 1 more per 100 (from 1 fewer to 3 more) | ⊕⊕⊕⊕ HIGH | CRITI |
| Hot flushes (follow-up median 5 years; assessed with: CTC-NCI) | | | | | | | | | | | | |
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision | none | 1090/1920 (56.8%)* | 981/1944 (49.4%)* | RR 1.15 (1.08 to 1.22) | 7 more per 100 (from 4 more to 11 more) | ⊕⊕⊕⊕ HIGH | IMPOR |
| Cardiovascular events (follow-up median 5 years; assessed with: CTC-NCI) | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|-----------------------------------|-------------------|-------------------------|--------------------------|--------------------------------------|-------------------------------------|------|------------------------------|-----------------|------------------------|--|-----------|-------|
| 1 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ¹ | no serious imprecision ² | none | 8/1920 (0.42%)* ² | 9/1944 (0.46%)* | RR 0.90 (0.35 to 2.32) | 0 fewer per 100 (from 0 fewer to 1 more) | ⊕⊕⊕⊕ HIGH | CRITI |
| articular rigidity - not reported | | | | | | | | | | | | |

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Votazione Bilancio
Beneficio/Danno

FAVOREVOLE

Votazione Forza della Raccomandazione

POSITIVA DEBOLE

Raccomandazione Clinica

Nelle donne in post-menopausa ad alto rischio di recidiva il trattamento con anastrozole può essere considerato