

QUESITO GRADE 3:

Nelle pazienti operate con carcinoma mammario HR+ in premenopausa, il trattamento ormonale adiuvante con exemestane +soppressione ovarica è raccomandato rispetto a tamoxifen + soppressione ovarica?

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Definizione del quesito clinico

- **P** (popolazione target): pazienti con carcinoma mammario operato HR+ in premenopausa
- **I** (intervento): exemestane+soppressione ovarica
- **C** (confronto): tam+soppressione ovarica
- **O** (outcome): Beneficio: DFS, OS, Distant recurrence
Danno: osteoporosi, fratture, dolori articolari, secchezza vaginale, caldane, ipertensione, stroke emorragico e stroke ischemico, infarto miocardio, tromboembolismo.

Classificazione degli outcome positivi (benefici) e negativi (rischi)

| Rating (mediana del voto) | Importanza | Incluso in |
|---------------------------|---|--|
| 7 8 9 | Outcome importanti ed essenziali: DFS (9) OS (9) Recidiva a distanza (7) Secchezza vaginale (8) Dolori articolari (8) Ischemia miocardica (7) Stroke ischemico/emorragico (7) | Tabelle sulla qualità delle prove:si Raccomandazione:si |
| 4 5 6 | Outcome importanti ma non essenziali: Caldane (5) Osteoporosi (5) Tromboembolismo (4) Fratture (6) | Tabelle sulla qualità delle prove:si Raccomandazione:no |
| 1 2 3 | Outcome non importanti Ipertensione (3) | Tabelle sulla qualità delle prove:no Raccomandazione:no |

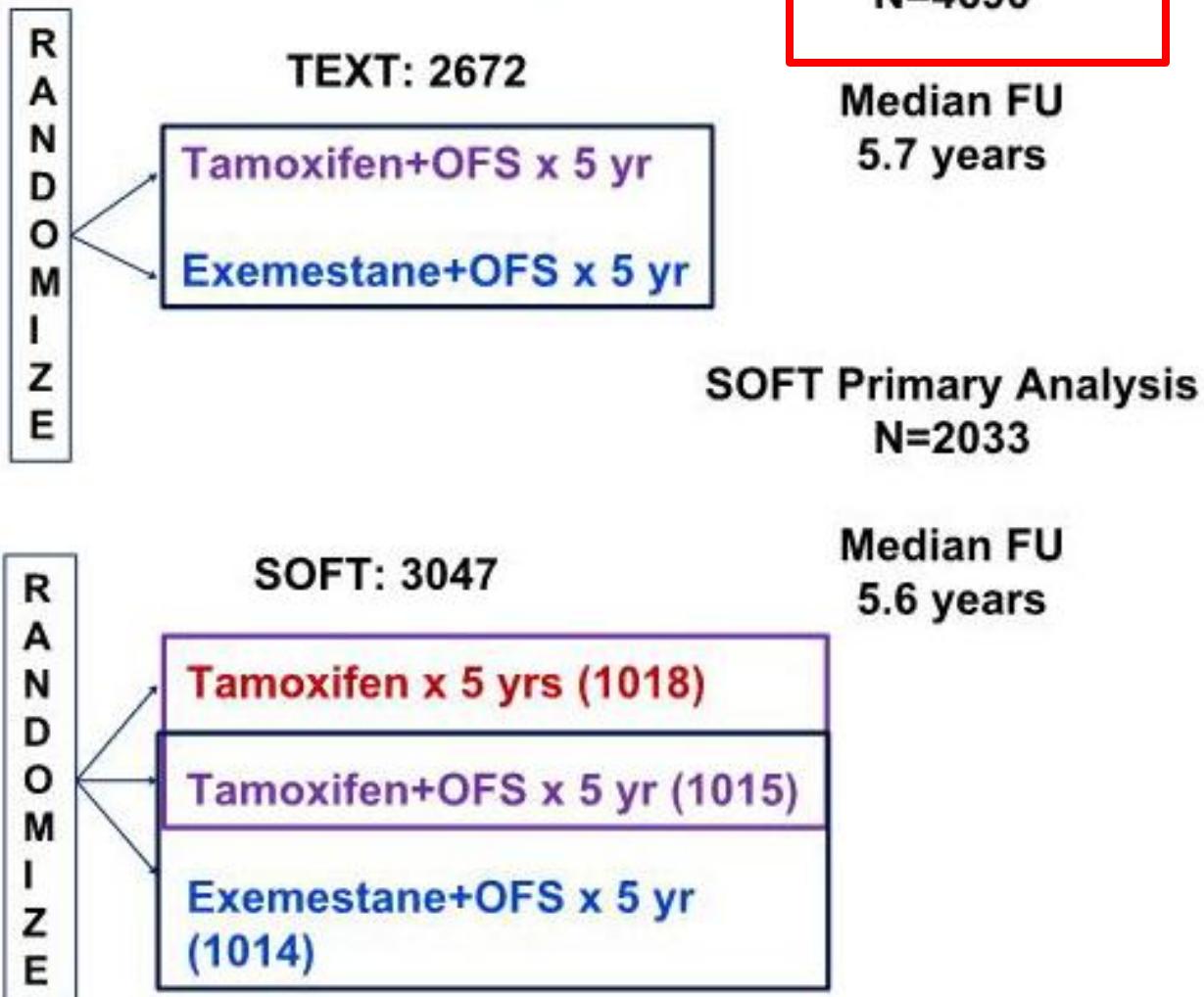
TEXT and SOFT Designs

Enrolled 11/03-4/11

Premenopausal
≤ 12 weeks after
surgery

Planned OFS
No planned chemo
OR planned chemo

Premenopausal
≤ 12 weeks after
surgery
No chemo
OR
Remain
premenopausal ≤ 8
mos after chemo



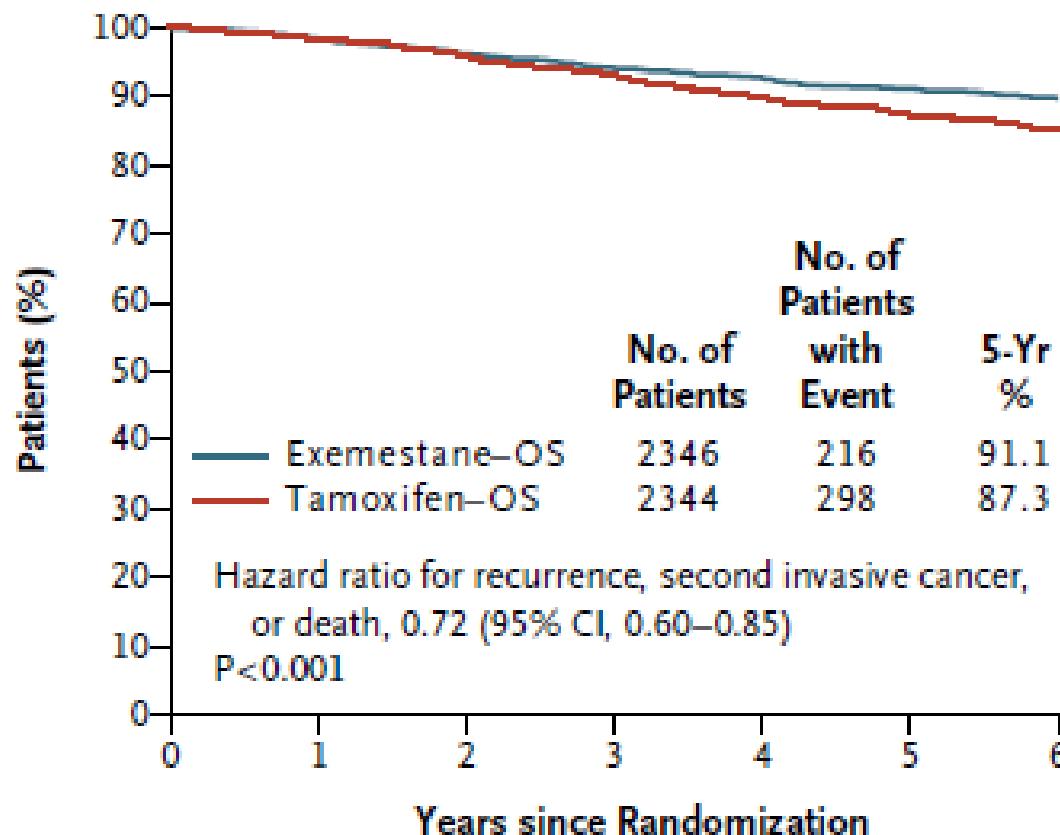
Pagani et al, ASCO 2014 + NEJM 2014, Francis et al, SABCS 2014 + NEJM 2014

Statistical analysis

- Original statistical analysis plans for TEXT and SOFT were to compare DFS between treatments group within each trial separately.
- However, pts enrolled in the studies had lower-risk characteristics
- 2011 protocol amendments: combined analysis of data from TEXT and SOFT (exemestane+OS vs TAM +OS)

| Characteristic | No-Chemotherapy Cohorts | | Chemotherapy Cohorts† | | Overall (N = 4690) |
|--|-------------------------|-------------------|-----------------------|--------------------|-----------------------|
| | TEXT (N = 1053) | SOFT (N = 943) | TEXT (N = 1607) | SOFT (N = 1087) | |
| Age at randomization — no. (%) | | | | | |
| <35 yr | 41 (3.9) | 14 (1.5) | 191 (11.9) | 224 (20.6) | 470 (10.0) |
| 35–39 yr | 123 (11.7) | 68 (7.2) | 289 (18.0) | 312 (28.7) | 792 (16.9) |
| 40–49 yr | 768 (72.9) | 690 (73.2) | 1048 (65.2) | 515 (47.4) | 3021 (64.4) |
| ≥50 yr | 121 (11.5) | 171 (18.1) | 79 (4.9) | 36 (3.3) | 407 (8.7) |
| Lymph-node status — no. (%) | | | | | |
| Negative | 835 (79.3) | 865 (91.7) | 542 (33.7) | 470 (43.2) | 2712 (57.8) |
| Positive | 218 (20.7) | 78 (8.3) | 1065 (66.3) | 617 (56.8) | 1978 (42.2) |
| Tumor size — no. (%):‡ | | | | | |
| ≤2 cm | 847 (80.4) | 800 (84.8) | 738 (45.9) | 537 (49.4) | 2922 (62.3) |
| >2 cm | 203 (19.3) | 139 (14.7) | 844 (52.5) | 508 (46.7) | 1694 (36.1) |
| HER2 positive — no. (%) | 54 (5.1) | 30 (3.2) | 272 (16.9) | 211 (19.4) | 567 (12.1) |
| Interval from surgery to randomization — mo | | | | | |
| Median | 1.5 | 1.8 | 1.2 | 8.0 | 1.6 |
| Interquartile range | 1.1–1.9 | 1.3–2.4 | 0.9–1.6 | 5.7–10.1 | 1.1–2.7 |
| Endocrine therapy before randomization — no. (%):§ | — | 44 (4.7) | — | 453 (41.7) | — |

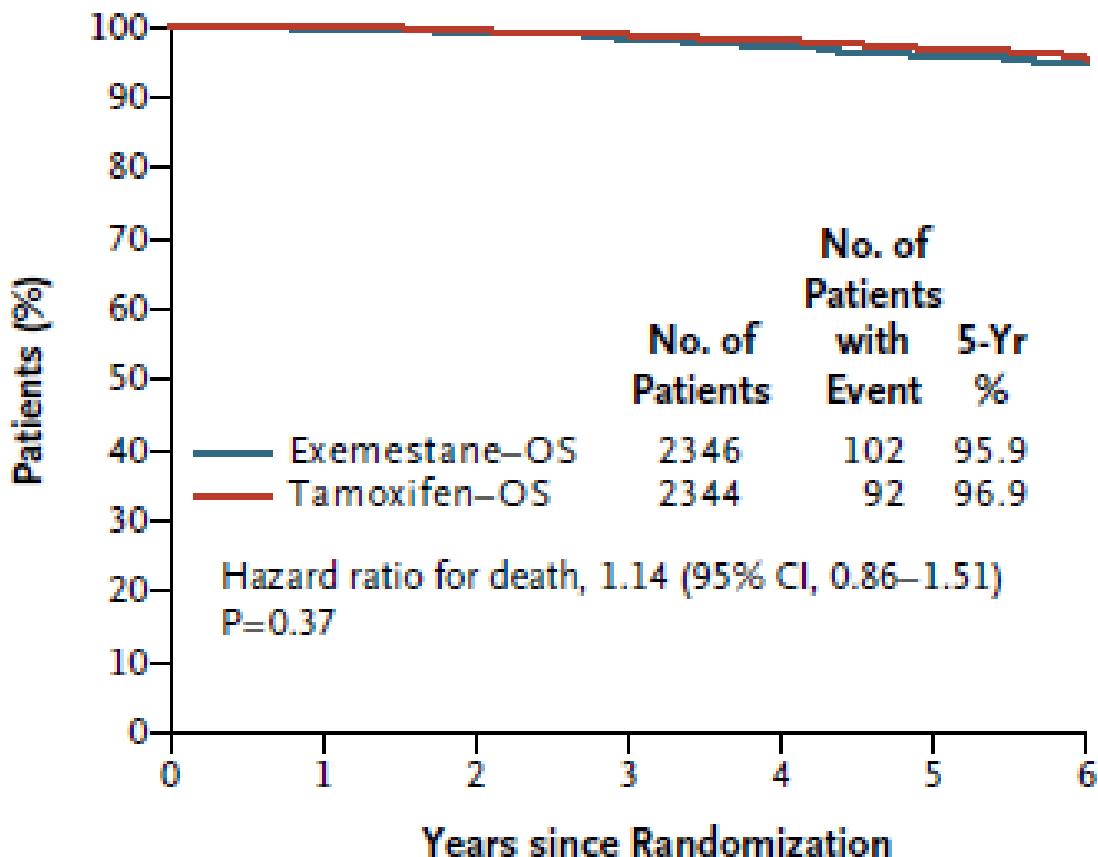
Disease-free Survival



No. at Risk

| | | | | | | | |
|-------------|------|------|------|------|------|------|-----|
| Exemestane- | 2346 | 2217 | 2128 | 1848 | 1517 | 1289 | 866 |
| OS | | | | | | | |
| Tamoxifen- | 2344 | 2247 | 2148 | 1845 | 1486 | 1261 | 834 |
| OS | | | | | | | |

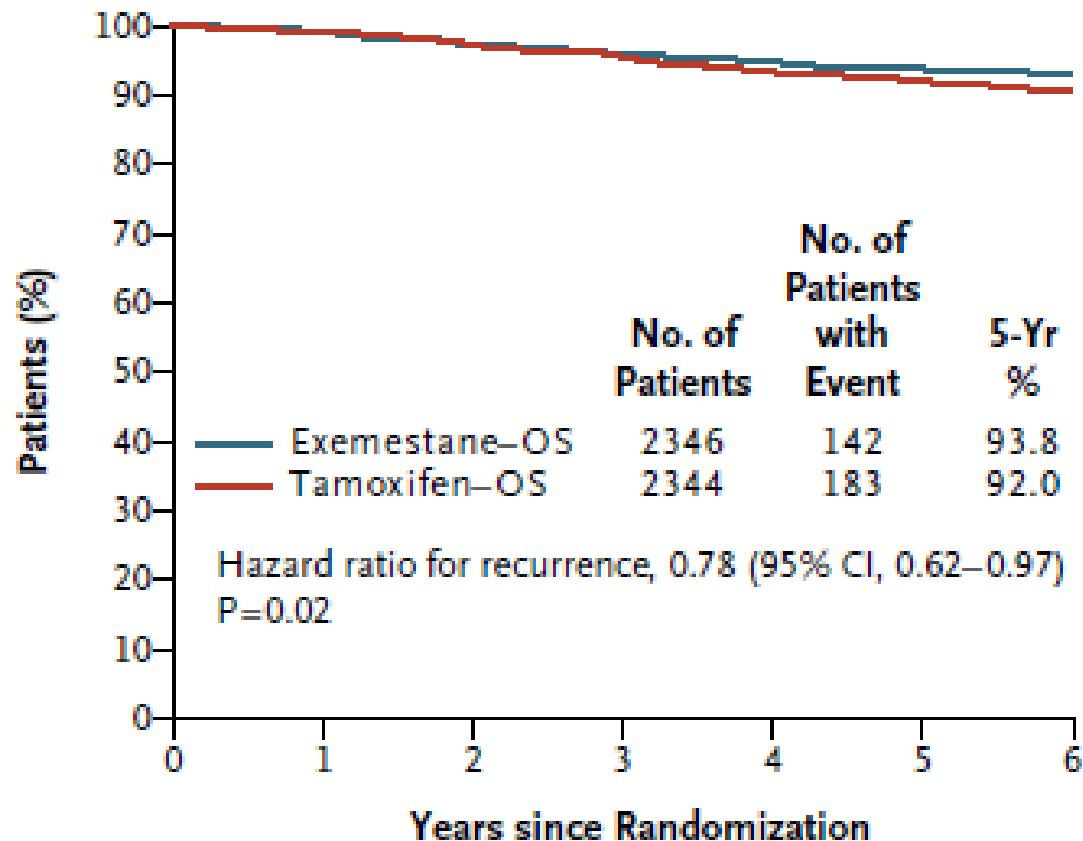
Overall Survival



No. at Risk

| | | | | | | | |
|-------------|------|------|------|------|------|------|-----|
| Exemestane- | 2346 | 2271 | 2235 | 1980 | 1631 | 1393 | 938 |
| OS | | | | | | | |
| Tamoxifen- | 2344 | 2298 | 2246 | 1997 | 1659 | 1424 | 952 |
| OS | | | | | | | |

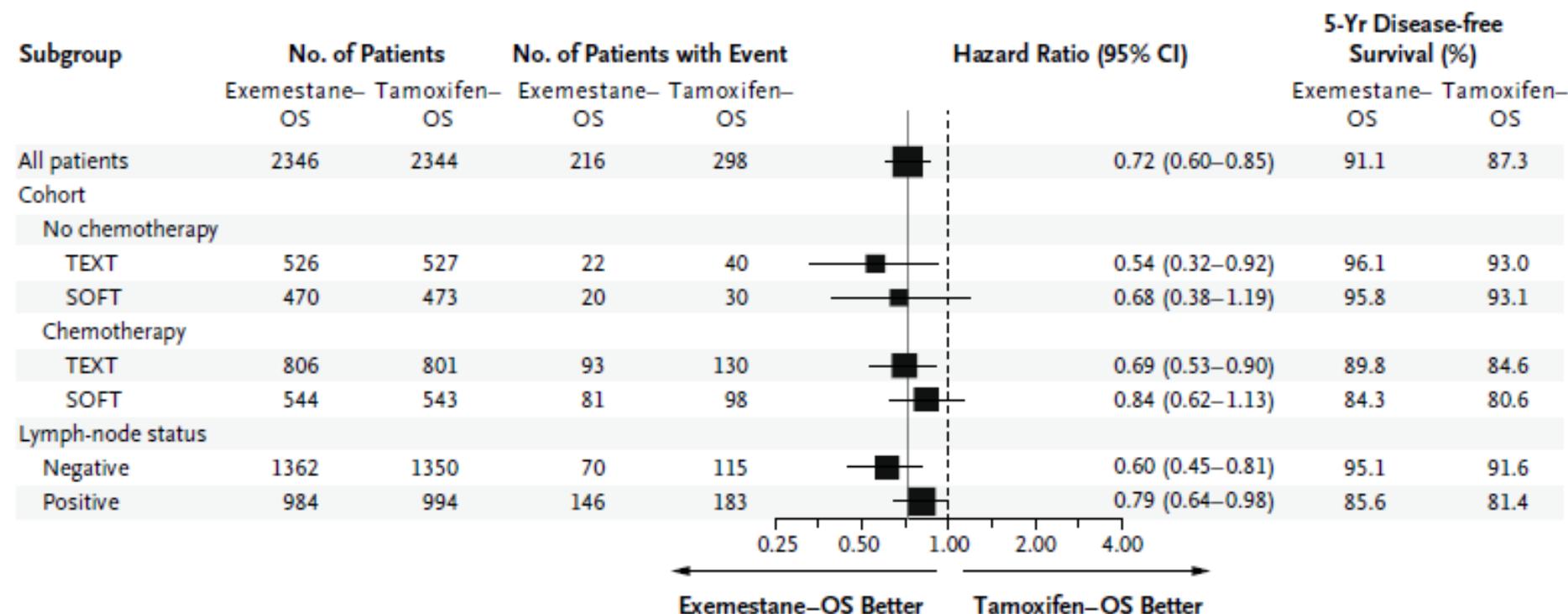
Freedom from recurrence of breast cancer at a distant site



No. at Risk

| | | | | | | | |
|-------------|------|------|------|------|------|------|-----|
| Exemestane- | 2346 | 2232 | 2150 | 1879 | 1548 | 1318 | 890 |
| OS | | | | | | | |
| Tamoxifen- | 2344 | 2264 | 2174 | 1892 | 1540 | 1318 | 874 |
| OS | | | | | | | |

Sottogruppi



EVENTI AVVERSI

Adverse Event

| | Exemestane plus Ovarian Suppression (N=2318) | | | | Tamoxifen plus Ovarian Suppression (N=2325) | | | |
|---------------------------------------|--|------------------|----------------------------|-----------------|---|------------------|----------------------------|------------------|
| | Any Event | | Grade 3 or 4 Event | | Any Event | | Grade 3 or 4 Event | |
| | no. of patients with event | % (95% CI) | no. of patients with event | % (95% CI) | no. of patients with event | % (95% CI) | no. of patients with event | % (95% CI) |
| Allergic reaction or hypersensitivity | 115 | 5.0 (4.1–5.9) | 11 | 0.5 (0.2–0.8) | 107 | 4.6 (3.8–5.5) | 9 | 0.4 (0.2–0.7) |
| Injection-site reaction | 168 | 7.2 (6.2–8.4) | 1 | <0.1 (0.0–0.2) | 187 | 8.0 (7.0–9.2) | 1 | <0.1 (0.0–0.2) |
| Hot flushes | 2125 | 91.7 (90.5–92.8) | 232 | 10.0 (8.8–11.3) | 2169 | 93.3 (92.2–94.3) | 279 | 12.0 (10.7–13.4) |
| Depression | 1165 | 50.3 (48.2–52.3) | 87 | 3.8 (3.0–4.6) | 1164 | 50.1 (48.0–52.1) | 102 | 4.4 (3.6–5.3) |
| Sweating | 1264 | 54.5 (52.5–56.6) | — | — | 1371 | 59.0 (56.9–61.0) | — | — |
| Insomnia | 1348 | 58.2 (56.1–60.2) | 89 | 3.8 (3.1–4.7) | 1361 | 58.5 (56.5–60.5) | 100 | 4.3 (3.5–5.2) |
| Fatigue | 1420 | 61.3 (59.2–63.2) | 73 | 3.1 (2.5–3.9) | 1463 | 62.9 (60.9–64.9) | 67 | 2.9 (2.2–3.6) |
| Hypertension | 527 | 22.7 (21.0–24.5) | 151 | 6.5 (5.5–7.6) | 509 | 21.9 (20.2–23.6) | 169 | 7.3 (6.2–8.4) |
| Cardiac ischemia or infarction | 16 | 0.7 (0.4–1.1) | 7 | 0.3 (0.1–0.6) | 7 | 0.3 (0.1–0.6) | 3 | 0.1 (0.0–0.4) |
| Thrombosis or embolism | 24 | 1.0 (0.7–1.5) | 19 | 0.8 (0.5–1.3) | 50 | 2.2 (1.6–2.8) | 45 | 1.9 (1.4–2.6) |
| Nausea | 721 | 31.1 (29.2–33.0) | 17 | 0.7 (0.4–1.2) | 671 | 28.9 (27.0–30.7) | 13 | 0.6 (0.3–1.0) |
| Musculoskeletal symptoms | 2057 | 88. (87.4–90.0) | 254 | 11.0 (9.7–12.3) | 1766 | 76.0 (74.2–77.7) | 122 | 5.2 (4.4–6.2) |
| Osteoporosis | 894 | 38. (36.6–40.6) | 10 | 0.4 (0.2–0.8) | 586 | 25.2 (23.5–27.0) | 6 | 0.3 (0.1–0.6) |
| Fractures | 158 | 6.8 (5.8–7.9) | 29 | 1.3 (0.8–1.8) | 120 | 5.2 (4.3–6.1) | 18 | 0.8 (0.5–1.2) |
| Vaginal dryness | 1214 | 52. (50.3–54.4) | — | — | 1101 | 47.4 (45.3–49.4) | — | — |
| Decreased libido | 1042 | 45.0 (42.9–47.0) | — | — | 950 | 40.9 (38.9–42.9) | — | — |

Author(s): MC IC

Date: 2015-03-11

vs LHRH agonist + tamoxifen be used in pre-menopausal hormone-receptor-positive breast cancer patients?

Settings:

Bibliography: Pagani O, NEJM 2014; 371:107-18 Regan MM, The Breast 2013, 22:1094-1100

| 2 | randomised trials | no serious risk of bias | no serious inconsistency ² | no serious indirectness ^{1,2} | no serious imprecision | none | 158/2318 (6.8%) | 120/2325 (5.2%) | RR 1.32 (1.05 to 1.66) | 2 more per 100 (from 0 more to 3 more) | ÅÅÅ HIGH | IMPORTANT |
|--|-------------------|-------------------------|---------------------------------------|--|-------------------------------------|------|--------------------------|--------------------------|-------------------------------|---|----------|----------------------|
| Vaginal dryness (any grade) - Pagani 2014 (follow-up median 68 months) | | | | | | | | | | | | |
| 2 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ^{1,2} | no serious imprecision | none | 1214/2318 (52.4%) | 1101/2325 (47.4%) | RR 1.11 (1.04 to 1.17) | 5 more per 100 (from 2 more to 8 more) | ÅÅÅ HIGH | IMPORTANT |
| Musculoskeletal symptoms (any grade) - Pagani 2014 (follow-up median 68 months) | | | | | | | | | | | | |
| 2 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ^{1,2} | no serious imprecision | none | 2057/2318 (88.7%) | 1766/2325 (76%) | RR 1.17 (1.14 to 1.2) | 13 more per 100 (from 11 more to 15 more) | ÅÅÅ HIGH | CRITICAL |
| Hypertension (any grade) - Pagani 2014 (follow-up median 68 months) | | | | | | | | | | | | |
| 2 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ^{1,2} | no serious imprecision | none | 527/2318 (22.7%) | 509/2325 (21.9%) | RR 1.04 (0.93 to 1.16) | 9 more per 1000 (from 15 fewer to 35 more) | ÅÅÅ HIGH | NOT IMPORTANT |
| Myocardial ischemia (any grade) - Pagani 2014 (follow-up median 68 months) | | | | | | | | | | | | |
| 2 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ^{1,2} | no serious imprecision ⁴ | none | 16/2318 (0.69%) | 7/2325 (0.3%) | RR 2.29 (0.94 to 5.56) | 0 more per 100 (from 0 fewer to 1 more) | ÅÅÅ HIGH | CRITICAL |
| Stroke (hemorrhage) (any grade) - Pagani 2014 (follow-up median 68 months) | | | | | | | | | | | | |
| 2 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ^{1,2} | no serious imprecision ⁴ | none | 15/2318 (0.65%) | 21/2325 (0.9%) | RR 0.72 (0.37 to 1.36) | 0 fewer per 100 (from 1 fewer to 0 more) | ÅÅÅ HIGH | CRITICAL |
| Stroke (ischemia) (any grade) - Pagani 2014 (follow-up median 68 months) | | | | | | | | | | | | |
| 2 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness ^{1,2} | no serious imprecision ⁴ | none | 5/2318 (0.22%) | 11/2325 (0.47%) | RR 0.45 (0.16 to 1.31) | 0 fewer per 100 (from 0 fewer to 0 more) | ÅÅÅ HIGH | CRITICAL |

¹ In the SOFT trial the ovarian function suppression via LHRH chosen in 91% patients

² Tha majority of patients received chemotherapy before randomization

³ 95% confidence interval includes no effect and the upper confidence limit crosses the minimal important difference (MID)

⁴ We decided to not downgrade quality of evidence for imprecision due to the low number of events in both arms

Bilancio beneficio/danno: 3 positivi/
15 incerti

Forza della raccomandazione:
18 debole