EBM IN ACTION

Safety of hormone replacement therapy after mastectomy

Clinical question

After mastectomy, chemotherapy and radiotherapy for high-grade ductal carcinoma with nodal involvement and lymphatic infiltration, a 48-year-old woman had premature menopause, with symptoms of loss of libido. Her general practitioner wanted to know how safe and effective hormone replacement therapy (HRT) would be for this patient.

Search question

The revised question was: “Does HRT increase the likelihood of recurrence in a patient previously diagnosed with breast cancer?”.

The ideal study to answer this question would be a randomised controlled trial of HRT versus placebo comparing outcomes of mortality and recurrence in women previously treated for breast cancer or high-grade ductal carcinoma of the breast.

Search


Summary of findings

No ideal studies have been published. However, five observational studies (three cohort and two case–control) were identified that reported the occurrence of adverse events after administration of HRT in women previously treated for breast cancer.

Two of the cohort studies were prospective studies of 24 and 25 women who had received HRT after treatment for breast cancer. No recurrences were reported in the 24 women observed over a period of 24–44 months; and three recurrences occurred in the 25 women after a mean follow-up of 30.4 months (survival rate, 96%). In the retrospective cohort study, seven recurrences occurred in 77 women; the average interval from diagnosis to relapse was 45.3 months.

A case–control study was conducted in a subset of the 77 patients in the cohort study mentioned above. Forty-one patients who received HRT were matched with 82 controls not receiving HRT. There were no significant differences in disease-free times and survival times between the two groups.

Comment

In the studies identified in this search, there was little evidence of increased recurrence of breast cancer with the use of HRT in patients previously diagnosed with breast cancer. However, these studies involved small numbers of patients, the duration of follow-up was not long, and there was potential for bias. Caution should prevail until appropriate clinical trials are conducted.

Outcome

After weighing up the evidence against the benefits of menopause symptom control, the general practitioner continued to prescribe HRT for this patient.

Christopher B Del Mar
Professor
Paul P Glasziou
Professor
Anneliese B Spinks
Research Officer
Sharon L Sanders
Research Officer
Deborah J Hilton
Research Officer
Centre for General Practice, Medical School
University of Queensland, Herston, QLD
c.delmar@cgp.uq.edu.au

References


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