Reviewer's report

**Title:** Association Between Frequent Use of Nonsteroidal Anti-Inflammatory Drugs and Breast Cancer

**Version:** 1  **Date:** 29 June 2005

**Reviewer:** Randall E Harris

**Reviewer's report:**

General

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**Major Compulsory Revisions** (that the author must respond to before a decision on publication can be reached)

1. Cases with a prior history of breast cancer (or cancers other than basal cell skin cancer) should be excluded from the analysis in this nested case control study.
2. The reference group used in the analysis should be clarified. Was one reference group used for all comparisons or did the investigators use different reference groups in estimating Odds Ratios for different compounds?
3. Mean levels of exposure among only cases and controls are not helpful. Table 2 could be omitted without compromising the report.
4. The numbers of exposed cases and controls should be presented for each level of exposure as well as the reference category (Tables 3 & 4).
5. Complete data on coxibs, aspirin, other NSAIDs, and acetaminophen should be included in Table 3 (numbers of cases and controls should be given for each strata).
6. Separate data on NSAIDs, Coxibs, and the combined data should be included in Table 4 with the numbers of cases and controls for each strata.
7. The data on aspirin should be divided on regular aspirin (325 mg or more) versus low dose aspirin (100 mg or less) for analysis of effects.

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**Minor Essential Revisions** (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

1. The relative frequencies of exposure to the target compounds should be included in Table 1.

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**Discretionary Revisions** (which the author can choose to ignore)

What next?: Unable to decide on acceptance or rejection until the authors have responded to the major compulsory revisions

Level of interest: An article of importance in its field
Quality of written English: Acceptable

Statistical review: No

Declaration of competing interests:

I declare that I have no competing interests.