Reviewer's report

Title: Celecoxib Concentration Predicts Decrease In Prostaglandin E2 Concentrations In Nipple Aspirate Fluid From High Risk Women

Version: 3 Date: 14 December 2007

Reviewer: Peter Gann

Reviewer's report:

The data are still rather sparse and there is a great degree of variability in both the PGE2 and celecoxib assays. The variability in plasma celecoxib (>100x) in particular still seems excessive. Chow HH, et al (2004) reported a range of 82-1700 ng/ml in 68 subjects after a 400 mg dose;it is not clear what "steady-state" refers to in Table 4. The HPLC assays for celecoxib were probably done in small batches and inter-batch variability could conceivably produce results like those shown here. Absorption of the drug is affected by food and metabolism by a number of concomitant agents not excluded. The only result relatively inconsistent with chance is in a single subgroup (400 mg, post-menopausal women), and this result really hinges on 2 or 3 datapoints. This work adds marginally to previous work published by these authors and seems better suited as a short note or letter.

What next?: Reject because too small an advance to publish

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

I declare that I have no competing interests.