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Letter to the Editor Breast cancer and tobacco smoke

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Sir,

The Collaborative Group on Hormonal Factors in Breast Cancer has certainly done a disservice regarding the question of the possible connection between tobacco smoke and breast cancer by publishing their recent paper (Collaborative Group, 2002) and concluding that there is no increase in breast cancer risk from smoking cigarettes. They note under Methods that 'no attention was given to the reported associations of breast cancer with environmental tobacco smoke'. Again, under limitations of these findings in the Discussion section, they say 'nor has attention been given to the reported effects of environmental exposure to tobacco, as active smoking only has been considered'. However, they make no estimate as to what effect this limitation might have on their findings, nor do they qualify their conclusion in the abstract. Their finding is erroneous because they compared ever-smokers with all never-smokers. Since most never-smokers have had significant passive smoking exposure, and since the passive risk, based on the better studies, is almost as large as the active risk,

REFERENCES

Collaborative Group on Hormonal Factors in Breast Cancer (2002) Alcohol, tobacco and breast cancer – collaborative reanalysis of individual data from 53 epidemiological studies, including 58 515 women with breast cancer and 95 067 women without the disease. *Br J Cancer* 87: 1234–1245 Johnson KC, Hu J, Mao Y and the Canadian Cancer Registries Epidemiology Research Group (2000) Passive and active smoking they, in effect, were comparing exposed with exposed and found no effect.

An estimate of the magnitude of the passive smoking breast cancer risk and its effect on the active smoking risk can be obtained by studying the data in Morabia et al (1996) and Johnson et al (2000), probably the two best of the 16 or so studies on this issue so far. When these investigators used nonpassively exposed never-smokers as their reference category, Morabia et al (1996) found odds ratios of 2.3 (95% confidence interval (CI), 1.5-3.7) for passive smoking and 3.2 (95% CI, 2.1-4.9) by combining odds ratios for three levels of ever active smoking. Johnson et al (2000), with a somewhat less comprehensive questionnaire, reported odds ratios for both pre- and postmenopausal women, which, when combined, are 1.43 (95% CI, 1.01-2.02) for passive smoking and 1.7 (95% CI, 1.2-2.2) for active smoking. Using even the lower estimates of Johnson et al (2000) to correct the Collaborative Group's active smoking relative risk would have resulted in a substantial, statistically significant, positive risk.

and breast cancer risk in Canada, 1994-97. Cancer Causes Control 11: 211-221

Morabia A, Bernstein M, Heritier S, Khatchatrian N (1996) Relation of breast cancer with passive and active exposure to tobacco smoke. *Am J Epidemiol* 143: 918-928

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