4th February, 1957.

Dear Todd,

Thank you for your letter of January 31st with notes on papers touching on inhaling.

The enquiry of Hill and Doll in which no association with inhaling was found, was, I believe, one in which the numbers of cigarettes smoked was not estimated, and the smokers were classified in groups, at least so far as heavy, medium, and light smokers. If it is admitted, as I presume it is, that there is a statistical association between lung cancer and the quantity of cigarettes smoked, any other association, such as possibly with inhaling, should be tested by comparison within quantitative groups. It may be, and I cannot find the fact ascertained in such a table as Hamtoft and Lindhardt, that heavy smokers are inclined to inhale more than light smokers, which would, of course, tilt the evidence against inhaling and produce an apparent association, even if this practice had no effect at all. Reading the excerpts enclosed with your letter, I should judge that none of the authors quoted have made a comparison of association with inhaling free from the undoubted association, which may be entirely genetic, with quantity of cigarettes smoked.

Yours sincerely,