

CORESTA Smoke Study Group  
1st Phase Task Force  
CO Determination

PAK15, 14th March, 1977

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Dear Colleague

First of all, I want to thank you for your interest in our collective trials concerning carbon monoxide determination.

The purpose of this letter is to announce the imminent sending of 3 boxes, each containing 100 cigarettes similar to those of our 1976 trial. The trial should include three steps :

*Graham*  
*if convenient*  
*10 smoking x 8cigs*

1°/ Smoking of 100 cigarettes following CORESTA's standards (one 35 ml puff of 2 s duration every 60 secondes ; butt length : 28 mm) using your usual environmental conditions. Please, determine the CO your usual way, and send to me quickly the detailed results of all your CC and puff number determinations. It would be interesting to precise the ambient temperature and pressure during the smoking and the determination, if you can measure them. & R.H.

2°/ As soon as I shall have calculated the mean number of puffs for all participating laboratories, I shall send it to all of you. If your personal puff number value is different from the general mean, I shall require that you would try to obtain, with the second box containing 100 cigarettes, new puff number values as close as possible to that general mean ; this could be obtained by modifying the efficiency of the fumehood designed to eliminate the sidestream smoke from your smoking machine. Thus, if your puff number value is lower than the mean, try to increase either the pressure drop on the tubing of the aspirating pump of the hood, or the distance between the hood and the burning cigarettes. It would be interesting to determine the CO concentration (or yield) corresponding to each new condition, so as to see whether one can establish correlations between the puff number and CO (% v/v and/or ml or mg/cig). If you usually smoke 100 cigarettes in one run, please reduce this number (for example, by smoking only one cigarette per channel, and note five), so as to can have many trials.

3°/ When the hood will be adjusted as well as possible, make a new CO determination on the last 100 cigarettes.

<b>GROUP R &amp; D CENTRE</b>	
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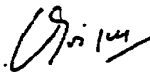
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The results (number of puff and CO values) could be sent to me simultaneously for 2<sup>o</sup>/ and 3<sup>o</sup>/ if both operations can be achieved approximately at the same time ; if it can not be, please send to me at least the results concerning 2<sup>o</sup>/.

On the other hand, in the case where smoking 100 cigarettes would not be sufficient to permit a good adjustment of the ventilation due to the hood, you should use the 3rd 100 cigarette sample to improve this adjustment, because one of the most important objectives of this trial is to see whether such an adjustment is possible, or not, in all laboratories.

I am looking forward to news from you, and I remain,

Sincerely yours



C. JOIGNY

P.S. Please mention the type of smoking machine used by your laboratory for this trial.

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