7/25/77 [illegible] 1974

1. [illegible] are & if we are all together —
[illegible] a point [illegible] wants our reactions —

— Abandoned another [illegible] of skin [illegible] —
— Can devise [illegible] — certain parameters
— Inhalation studies to study chronic effects of nicotine —
[illegible] high [illegible]
1. Auerbach study — (hi vs lo nic) animals that died showed no toxic effect due to nic.
2. Battelle — bio control — experimental [illegible] fold nicotine 0.1 to 2.0 — should give clearer picture.
3. Resuming study of effect of CO with + w/o high cholesterol diets, — probably no use to anybody — (cigts "spiked" with CO), also control group with only CO.
— To make every effort to reduce CO.
He would put more emphasis on nicotine studies,
— CO probably will not show any long term chronic toxicity —
— Study NO_x — chronic bronchitis + emphasema —
— Titration — will smoker smoke more with lowered nicotine,
— Another dev. — pharmacology of nicotine —
— anti smoking drugs —
— only viable one was testing nicotine per se — as deterrent of smoking behavior

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(2)

Amer. Health Assn. – Dr. Wynder.
Nicotine aerosol to be inhaled by smoker.
Now can formulate nic that can be inhaled –
and can be det'd in blood, same as when
smoking.
Nicotine may be effective means for
smoking cessation.

Anti-smoking clinics

100 micrograms / puff
nic tartrate in PG + water (nebulizer) + surfactant to
make fine particles – (freon propellant) –
Have not run a placebo study – should do this
also suggest flavors in placebo – peppermint for ex.
Can take home + use –
When used in "confirmed smoker" he reduced
his smoking + then stopped for up to 4 weeks, while taking
get a strange flavor of smoke or smoothness like
[illegible]
Don't know if patient will go back to
cigarettes when "treatment" is stopped. Some
actually kept smoking anyway.
Dr. Hill – pilot [illegible] –
Alexander Smith – trying to develop workable aerosol.
– high nic – low tar cigt. –
– Conclude flavor project with ADL – suggested –
– ADL press claims –
Cytrel – per GBG – no chance for Cytrel in US.
per Wally – initial consumer reaction
in UK not good.

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Some other issues

(1) Passive smoker — studies should be done to confirm that passive smoker not likely to be harmed — strictly emotional + some irritation —

a. epidemiologic studies?

b. studies conducted under normal conditions — exposure in plane is actually minimal. (claustrophobic reactio

(2) Individual susceptibility — vs resistance

~~[illegible]~~ genetics —

measuring depth of inhalation — measure risk level of deep inhalers vs shallow inhalers.

3. Polonium + lead — Martell —

to measure level of α emission from lungs of smokers vs non smokers

4. Issue of low tar-hi nic cigarettes.

"Smoker"

~~[illegible]~~ per ~~[illegible]~~ use up 10% in 10 years,

% of smokers constant " " "

want to extend epidemiological studies to include these parameters.

5. little cigars — RCS —

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pH, CO, T + N in cigars — may get into —
Huffman did some work & published in "Science" —

6. Hand-rolled cigts —

Inhalation depth should be [illegible] to
element of research —
Polonium M. — Curiosity —
"Royal Mosden" —
[illegible] named Hartley? — to test cadavers' lung

No money for Series 5.

Would like to continue nicotine study
and epidemiological studies
3rd would be inhalation depth study —

Series 4 data to be presented at next (Nov.?)
meeting of tob. whg. group later this year.

— Conclusions may be some statistical
associations —

Tob. whg. group defunct as a chartered
group — will continue to meet —
will call "workshop" — maybe

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(5)

Paper - publishing brands by name;
brands below 10 Mg.
** Cigts on market or which will be on mkt in 2-3 months when paper is published.
Away of "pushing" the industry to lower T+N.
Current paper has not been published —
Gori wants to hear from Industry before release of paper for publication —

"Mg/day if Co reduced"

"Advisability of using brand names in scientific paper (Market)

Also suggestions for further work + comments on suggested areas of research as outlined above. —
by Sept 1st.

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