Abstract OTTO (Erlangen):

Experimental investigations with native cigarette smoke and the gas-phase of cigarette smoke on mice.

The experimental conditions of exposure to native smoke in a closed system are shown in a 5 minute movie. Mice in groups of 40 animals were exposed in a chamber to a vacuum of 650 mm Hg, the vacuum being replaced by cigarette smoke in the rhythm of a 2-second puff every 58th second from 12 cigarettes at once. After an exposure of 40 to 50 minutes the animals had to be removed as protracted exposure resulted in a fatal CO-intoxication with a level of 40% or more of CO-hemoglobin. The effect of a 2 years' treatment in the way described are an increase in the spontaneous tumor rate from 3% to at least 20% and, in animals treated for over a year, an increased rate of proliferation of the [illegible] mainly the smaller bronchi. The experiments were [illegible] filter between the cigarettes and the [illegible] phase of the smoke was thus eliminated and [illegible] to the gas phase of the smoke alone. No [illegible] observed, [illegible] any [illegible]. These experiments [illegible] to the [illegible] particulate ph[illegible].

[illegible] -term [illegible] (up to 2 years) [illegible] [illegible] activity of cigarette [illegible].

[illegible] the passive exposure of animals in [illegible] CO-content, the experiments were repeated [illegible] with green tea and tobacco condensate using [illegible] re. The results up to date are that the [illegible] too big for the cleaning system of the [illegible] lung.