



OF THE CITY UNIVERSITY  
OF NEW YORK

# THE MOUNT SINAI MEDICAL CENTER

ONE GUSTAVE L. LEVY PLACE • NEW YORK, N.Y. 10029



Mount Sinai School of Medicine • The Mount Sinai Hospital

October 22, 1979

*Environmental Sciences Laboratory  
Cummings Basic Sciences Building  
10 Ecs: 102 Street  
New York, New York 10029  
(212) 650-6173*

Dr. M.J. McKenna  
Toxicology Research Laboratory  
Health Environmental Sciences  
1803 Building  
Midland, Michigan 48640  
USA

Dear Dr. McKenna:

I have received telephone calls from Mr. Howard Yakel and I have learned that you and your staff are going to start inhalation experiments of "heavy doses" of vinyl chloride exposure, based on the original animal cohort, of which details were written in your letter of August 24, 1979.

Thank you very much indeed for your cooperation in this research project.

I have talked with Mr. Hugh Reid, Administrator of our laboratory, about payment of the inhalation experiment cost, and he has told me that there is no problem for this matter.

I understand that this new inhalation will be initiated by the end of this month (October) and the animals will be shipped to New York by airplane by the end of November (27th or 28th), immediately after the one month exposure. I do not have any problems with this schedule.

If some of the animals are found dead during the process of the exposure, please fix those animals by a perfusion\* of 10% buffered neutral formalin via Inferior Vena Cava or Aorta, without opening the chest, before major organs are taken out from the bodies. After perfusion, major organs such as lung, liver, brain, stomach, kidneys, testis, spleen and any abnormal organs should be refixed in the fixative. Later, those organs and the bodies should be sent to New York for further process of histological studies.

If some animals are found fatally sick, the animals should be sacrificed by a deep anesthesia of ether\*\*, then a perfusion of paraformaldehyde without sugar\*\*\* should be performed as pre-fixations for light and electron microscopy. For electron microscopy, lung (right lower lobe; 15 blocks), liver (5 blocks), brain (occipital area; 5 blocks) and abnormal tissue should be kept in the paraformaldehyde fixative for further steps in New York. For light microscopy, after the pre-fixation by paraformaldehyde, the major organs stated before should be post-fixed in 10% neutral buffered fixative to be shipped to New York with the bodies.

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Dr. M.J. McKenna

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\*Perfusion done in the previous experiments was too high in pressure. Therefore, at this time, please set a lower position (about 1 meter in height) of the fixative bottle.

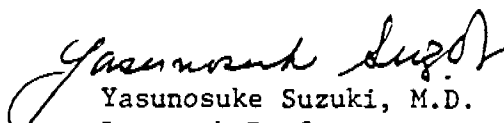
\*\*To avoid structural damages caused by the perfusion under anesthesia, a complete death of the animals may be necessary.

\*\*\*The previous E.M. fixative was "hypertonic", and there was some difficulties in staining of light microscopic sections, possibly due to existence of sugar in the fixative.

Please give my best regards to Dr. Kociba and his staff.

Could you give warm regards to Mr. Howard Yakel?

Sincerely,

  
Yasunosuke Suzuki, M.D.  
Research Professor

YS:mm

cc: Dr. I.J. Selikoff  
Mr. Hugh Reid