UNIVERSITY OF MICHIGAN MEDICAL CENTER

W. K. Kellogg Eye Center
1000 Wall Street
Ann Arbor, Michigan 48105
(313) 763-8122

January 6, 1987

Thomas N. Bistline
Litigation Counsel
Law Department
Monsanto Company
800 North Lindbergh Blvd.
St. Louis, MO 63167

JAN 09 1986

RE: Bloomington, Indiana
Litigation

Dear Mr. Bistline:

Enclosed are copies of follow-up correspondence which I have had with Mr. Stuart Curry regarding my involvement in Monsanto's PCB mortality study. I will let you know if any further contact occurs on this subject.

Sincerely,

David C. Musch

David C. Musch, PhD
Assistant Research Scientist

DCM:kaw
J6-2

Enclosures

DSW 153343

December 10, 1986

Dr. David C. Musch
Kellogg Eye Center
1000 Wall St.
Ann Arbor, Michigan
48105-1910

Dear Dr. Musch,

Thank you for talking with me about the mortality study at Monsanto dated December 14, 1979.

As I mentioned my Father-in-Laws PCB blood level was 336 ppb. The average for workers tested at Westinghouse was 502ppb.

I have found that most of these exposed workers have similar health symptoms. I would like to know if you did a health survey of the Monsanto PCB exposed workers. If such a survey was done I would like to compare the Westinghouse workers health problems with those of the Monsanto workers . Incidently, just about all of the Westinghouse workers I have talked to list eyes sensitive to light as well as problems with night lights such as on coming headlights.

It sill seems to me that your study is significant from the stand point that more that half okf the observed deaths were higher than expected and in some catagories much higher. I would appreciate knowing how significant you feel the study was. Also, I am not sure how you calculated the 22.88 number for expected deaths. I think you told me but I missed that some how. The 7.22 higher that expected deaths looks pretty big at least in my view.

Thank you for your time.

Sincerely,

Stuart A Curry

Stuart A. Curry
P.O. Box 3267
Bloomington, Indiana
47402

DSW 153344

UNIVERSITY OF MICHIGAN MEDICAL CENTER

W. K. Kellogg Eye Center
1000 Wall Street
Ann Arbor, Michigan 48105
(313) 763-8122

December 12, 1986

Stuart A. Curry
P.O. Box 3267
Bloomington, IN 47402

Dear Mr. Curry:

You raised several questions in your correspondence dated 10 December, 1986, which I will attempt to answer. Regarding a health survey of Monsanto workers exposed to PCBs, I was not involved in such a study. My sole involvement was in the mortality study, which did not have a morbidity component. If such a study has been done since my Monsanto employment, I am unaware of it.

Regarding the method of calculating the expected deaths for the study group, a computer program (Monson RR. Analysis of relative survival and proportional mortality. Computers in Biomedical Research 1974; 7:325-32) was employed, which uses age, race, and cause-specific mortality rates for U.S. males to calculate what number of deaths would be expected for the Monsanto worker group.

As I mentioned on the phone, the mortality study had several significant shortcomings, including a small sample size and, therefore, a small number of deaths to evaluate, as well as insufficient exposure information. These weaknesses did not permit us to be conclusive regarding whether the discrepancies between observed and expected deaths in the Monsanto cohort were due to chance, or due to an exposure such as smoking or PCBs. These problems made the study preliminary and inconclusive, and so Judy Zack and I agreed to not pursue publication.

I hope this letter provides you with the answers you needed.

Sincerely,

David C. Musch

David C. Musch, MPH, PhD
Assistant Research Scientist
WK Kellogg Eye Center

DCM:kaw
mdec12

DSW 153345