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MAR 27 1984

March 20, 1984

Charles Love III, Esquire
Bowles, McDavid, Graff & Love
Commerce Square, Box 1386
Charleston, WV 25325-1386

Dear Charlie:

Enclosed herewith is a copy of the issue paper describing effects of dioxin on the immune and hematopoietic systems. I think this could be of interest to you.

The most significant facts are brought out in the conclusions on page one.

The first of these facts is that there has been shown to be relatively little correspondence between findings of studies on the immune system in animals and the effects of similar materials in man.

Second, and clearly related to the first, is the fact that most immunosuppressive materials in animals are shown to be immunosuppressive by virtue of the fact that these cause involution of the thymus gland. There is no active thymus gland in the adult human. Thus, no predictions of effects in humans can be made on the basis of studies which show that materials cause involution of thymus in animals. It is for this reason that it is frequently difficult, if not impossible, to translate from immunosuppressive effects in animals to man.

A third major point to make is that no one has, as yet, been able to demonstrate the meaning of changes in certain segments of the immune system in man. As is described in this paper, no effects of dioxin on the immune system of humans has been demonstrated. The paper goes on to say, "... in fact, when the data on extensively exposed human populations are considered, no effects on immune response, immediate or delayed, have been observed at all (excepting one unpublished report)...." The author has studied this extensively and the data to support this conclusion are found in the issue paper.

The final point to make is that reviews of all data in animals show that no irreversible effects of administration of dioxin on the immune or erythropoietic systems have been demonstrated. This fact was reported by Dr. Kenneth Sells at a recent meeting of the Veterans Administration Advisory Commission on use of herbicides in Vietnam.

I am not sure about the specific applications of this paper in the case at hand, but I do think that you may find this interesting reading.

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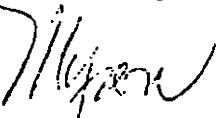
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Please let me know if we can help or call me if indeed, a further review of the information in this paper would be useful.

Very truly yours,



WEINBERG CONSULTING GROUP Inc.
Myron S. Weinberg, Ph.D.

Enclosure

cc: Marcia Silcox (w/o encl.)
David Snively, Esq. (w/o encl.)

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