

abnormality of Case A-2. Miettinen H.M(8) reported the most critical window of sensitivity for the development of the third molar of dioxin-sensitive line C rats was during the early morphogenesis, from tooth initiation to early bud stage, after which the sensitivity substantially decreased. In human case it is very difficult to decide such critical window of sensitivity. We should be attentive to the influence of dioxins to the fetus.

We had reported CaseD-2 who was born after his brother who had so many anomalies. He (CaseD-2) had second lower molar defects. This shows blood level of dioxins of his mother was less than that of her first and second pregnancy (spontaneous abortion). All other families (3families) we studied reported abnormal eruption of teeth. Of course we should make more study about this point.

Another findings were the anomalies of male genital organ. It is important to study the effects of dioxins to fetal genital organ. To assure ourselves of this we intend to further examinations.

Human body is consisted of many organs. It is not homogeneous liquid. PCBs and PCDFs have strong affinity to adipose tissue. When energy metabolism needs lipolysis, PCBs and PCDFs may dissolve into blood, and change their blood concentration. If she is pregnant the effects over the fetus is serious. And such a condition happens easily when a pregnant woman suffers from emesis. So even long after the accident it is possible to affect fetus. The influences over next generation may be possible.

There had been no official inquiry about the status of Yusho victims. In 2008 an official study of the Yusho victims' status was carried out for the first time by the Ministry of Health, Labor and Welfare of Japan. The inquiries asked about the health and well-being of Yusho victims. The questionnaires were mailed to Yusho victims.

This investigation was limited to officially admitted Yusho victims. 1,131 Yusho victims filled the questionnaire. In 2010 the results (Official Report of Health and Welfare Japan) of study were announced. Comparison of this results with those from comprehensive survey of living conditions of the people on health and welfare showed more than 1.5times predominance of diseases(4) such as manic-depressive psychosis, schizophrenia, hallucination, easily offended, anxiety neurosis, vertigo, acroesthesia of teeth, nasal hemorrhage, autonomic imbalance, orthostatic hypotension, and so on. These are newly recognized disorders. About 40% of Yusho victims complained the influences of toxic Kanemi rice oil on their children and 10% on their grand children.

In 2012 the government decided to admit as a (newly admitted)Yusho victim (at his or her request)with whom a (past admitted)Yusho was living at that time. But those who were born after 1969 from Yusho mothers were not admitted as official Yusho victims. The authorities would not admit the long term effects of the toxicity of Kanemi rice oil to the filial (next) generations.

The influence over next generation is important and a hard fact. We are going to study more cases.

Acknowledgement

We Thank for cooperation, Dr. Fujino T, Dr. Miyagawa K., Dr. Akabane I., Dr. Fukuta A., Dr. Iwase Y., Dr. Hayakawa J., Dr. Nomoto T., Dr. Kimura K., Dr. Doi T., Dr. Yonezawa K., Dr. Hashizume Y., Dr. Takagi H.

We also thank Yusho victims who have cooperate with us.

We have no conflict of interest.

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