

The Michigan Dioxin Exposure Study

The University of Michigan

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The Questions We Want to Answer

- Are dioxin levels in blood increased among people who live in the Tittabawassee River flood plain compared to people who live
 - *Elsewhere in Midland and Saginaw Counties*
 - *Elsewhere in Michigan (Jackson/Calhoun counties)*
- What factors explain the variation in serum dioxin levels among the population?
 - *Soil dioxins, house dust dioxins*
 - *Residential proximity to Tittabawassee River*
 - *Consumption of fish and game*
 - *Occupations*
 - *Age, BMI, sex, etc.*



Study Overview

- We have collected the following information/samples from each participant:
 - *Responses to a 1-hour personal interview*
 - *Serum (80 ml blood draw)*
 - *House dust (vacuum filter sample)*
 - *Soil*
- Blood, house dust, and soil are being analyzed for the WHO 29 list of dioxins, furans, and coplanar PCBs.



Progress to date

- We completed our field data collection in Midland/Saginaw and in Jackson/Calhoun counties in early September 2005.

	Midland/Saginaw floodplain & near floodplain	Midland/Saginaw non-floodplain	Jackson/Calhoun	Total
Interviews	589	375	352	1323
Blood samples	455	246	251	952
Dust samples	365	199	198	762
Soil samples	366	205	194	765
Participants who have all 4 data elements	352	196	183	731



Progress to date

- **Laboratory analyses of blood, dust, and soil for dioxins are expected to be completed during fall 2005.**
- **Letters giving participants their personal results are being mailed out as the laboratory results become available.**
- **We are setting up the data audit with the ATSDR, which is anticipated to begin in fall 2005.**
- **We will meet with the Scientific Advisory Board on October 20, 2005**



Future Release of Study Results

- All reports and results of statistical analyses must be reviewed by the Scientific Advisory Board (SAB) prior to their release to the public.
- We anticipate that these results will be sent to the SAB in the spring and summer of 2006.
- We anticipate that results will be presented at public meetings in the summer and fall of 2006 and will be posted to our website.



END

