March 26, 2009

Kingdom

London School of Hygiene and Tropical Medicine, London, United Kingdom.

Fletcher, Tony, for the C8 Science Panel

in the Mid-Ohio Valley

C8 and Immune markers in adults

Parkersburg: March 26, 2009

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in C8 linked to change in these markers.
markers. IgG, IgM: no evidence of change
of only 56 workers, looking at only two
Almost no human data (one Italian study
against disease
mune system important in protecting
mune function
Animal tests indicate C8 disturbs normal

Why look at Immune System?
on children

Results here focus on adults, analyses are ongoing

partnership with WVL on Joint reports

Data cleaning and analyses underway, working in

mid 2008 analyses, turned over to Science Panel by Brookmar

Final data, after checking and repeated lab

2005-July 2006

Serum and questionnaires data collected in July

Project

Analyses of data already collected in the CS Health

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Data used for immune analyses

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drinking.

age, sex, ethnicity, obesity, smoking,
which may hide or mislead associations:

- Analyses take into account other factors
- Disease marker
- Inflammation marker
- Immunoglobulins
- Autoimmune

- Data available on 6 immune markers

29, 72 Female, 26, 536 Male

All adults 18+ in C8 health project

Analyses done

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1. Is there a trend of change of marker with changing levels of C8?
2. What is the shape of the relationship?
3. If there is a change, is it a big change?
4. Is there any difference between men and women?
5. Show results as graphs to reveal trends.

Results

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Adjusted for age, BMI, ethnicity, smoking, alcohol

Reduction in the trend for inflammation marker of immune disease

Upward trend of suggestive immune suppression

Supporting immune disease indicator of auto-

Downward trend

Females

Males

C Reactive Protein CRP

Antinuclear Antibodies ANA

IgA Immunoglobulin A

3 with clear trends

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Adjusted for age, BMI, ethnicity, smoking, alcohol

Interpret falling difficult to
Trends rising and

Chance may be due to
Trend for females

Males and females

Other immune markers

Little or no consistent relationships for 3

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No relationship or no consistent relationship

- Females only, fall in IGE with PFOA

Weak statistical association:

- Significant -ve relationship with CRP
- Significant -ve relationship with IGA
- Significant +ve relationship with ANA

Sexes:

Strong statistical association, consistency between

Summary of results
Future work will collect more data to deal with uncertainties in these results. Technical report preparation and publication of detailed specialists at Society of Toxicology presented last week at meeting of Immune and Public Summary of results presented today to press status report filed with Court present these results for open scrutiny.

Ongoing work

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Assessment of modification of vaccination efficacy
Additional markers of immune status
Collection of data on infectious disease incidence
Repeated measures over time of clinical markers

Several Components:

A sample of the population (800) additional interview and blood sampling in science panel study will carry out

Ongoing work

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Sign up at www.sciencepanel.org

Science Panel
5 Science panel closes new consensus
4 Immune markers and CB
3 Clearance of CB after stopping exposure
2 Birth outcomes and CB
1 Science panel launches e-newsletter

Contents: C8 Science Panel News
March 26 2009
C8 Science Panel Newsletter #1

New Newsletter
Science Panel communications
Thank you