

Message

From: SWARTHOUT, JOHN T [AG/1000] [john.t.swarthout@monsanto.com]
Sent: 6/16/2014 8:25:20 PM
To: REYNOLDS, TRACEY L [AG/1000] [tracey.l.reynolds@monsanto.com]
CC: GOLDSTEIN, DANIEL A [AG/1000] [daniel.a.goldstein@monsanto.com]
Subject: Re: New Paper

Yes we have. The write up is complete.

John

Sent from my iPhone

> On Jun 16, 2014, at 3:17 PM, "REYNOLDS, TRACEY L [AG/1000]" <tracey.l.reynolds@monsanto.com> wrote:

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>> Dan/John,
> Have we assessed this paper?
> Tracey

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>> David et all --

>>> I wanted to bring to your attention a just-published
>>> meta-analysis of 44 papers exploring the impacts of pesticide
>>> exposure on non-Hogkin lymphoma
>>> (NHL) -- see attached. It was done by a team at the International
>>> Agency for Research on Cancer in France. These results will be taken
>>> seriously worldwide.

>>> This was a mammoth project that required a very
>>> significant time investment. The findings are pretty clear and
>>> consistent with my read of most of these studies over the last 20 years.

>>> The data in Table 2 on the phenoxy herbicides <
>>> including 2,4-D and dicamba < is particularly chilling given that use
>>> of these herbicides has already gone up several-fold since bottoming
>>> out in the early 2000s, and use will further explode if 2,4-D and
>>> dicamba herbicide tolerant crops are approved. The phenoxies are
>>> clearly associated with three distinct types of NHL, with Relative
>>> Risk Ratios (RR) in the 1.8-2.0 range (pretty high).

>>> From reading the literature on phenoxy herbicide
>>> health impacts over many years, I actually feel the data is even more
>>> compelling on developmental and reproductive impacts, but when added
>>> to such clear evidence of heightened cancer risk, a chilly wind doth blow.

>>> The data on glyphosate is also worth looking over;
>>> Table 4, page 4505, summarizes six studies on glyphosate and NHL, 3
>>> or 4 of which report significant increases in the risk ratio. The
>>> strongest evidence < a risk ratio of 2 < is reported for glyphosate
>>> and B cell lymphoma. Again, these are old studies, mostly based on
>>> pre-GE crop use patterns that would not be producing the diversity or levels of exposure common
>>> today.

>>> The paper properly emphasizes the need for more
>>> research in developing countries, where NHL accounts for 37% of all
>>> cancers according to the WHO. The team suspects exposures will be
>>> much higher in many developing countries, likely leading to even
>>> stronger associations in this type of epi study.

>>
>> chuck
>>
>> Charles Benbrook, Research Professor and Program Leader "Measure to



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>> David Friedberg
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