

3/6/15 Plenary General Remarks

Group I. Exposure Assessment.

Exposure assessment yes/no:
 few to individual pesticides
 Questionnaires
 Except for the Ag. Health Study.

used most: glyphosate low production for many
 banned: malathion

Group II. Epidemiology

Ag. Health Study. 2 case-controls
 Midwest Canadian

Exposure Assessments

TCVP - inadequate for carcinogenicity

Parathion - excess risk for melanoma - limited
~~other~~ otherwise inadequate

Malathion - limited

Diazinon - more evidence for cancer
 limited NHL, leukemia, lung

Glyphosate - limited NHL
 inadequate MM

Dewayne Johnson v.
 Monsanto Company

Defendant's Exhibit 2580

Case No. CGC-16-550128

Group III - Animal studies

Early-mid 70s Animal bioassay

Limited # of animals

Number of limited ~~factor~~

All studies were considered adequate

FOAs - EPA documents - studies submitted
for registration purposes to EPA from Ag. comp.

TCVP - \uparrow liver tumors mice } sufficient
 \uparrow Renal carcinoma }

A switch from limited \rightarrow sufficient

Group IV

10 key charac. of agents that cause cancer

TCVP genotoxic - moderate

Group I

Parathion

Group II

Parathion - Epi. not a lot in humans

Originally: Group II

→ Lung cancer

Prostate ← some signals
OR 1.5

Group III

Parathion

Sufficient
evidence
for animal
carcinogenicity

micro adenoma
lymphoma

Rats adrenal
Mamm.
Pancreatic

Group IV

Parathion,

Group I

Malathion - exposure

Group II

Malathion - prostate, NHL

Group III

malathion - mouse liver (M, F) ↑
rat liver
rat mammary

} Sufficient
in animals

FOIA - Malathion

MAL/DEN/GLY

→ mechanisms operable in humans ←

Group IV

Malathion Mechanism Upgrade.

Group I

Diazinon

Group II

Diazinon - NHL

Lung cancer Limited.

Group III

Diazinon

1 study
NTP

Mouse - Hcc

Rat - leukemias

Inadequate evidence
in animals

Group IV

Group I

Glyphosate - detectable in water & food.

Group II

Glyphosate negative NHL

Case-control glyph. → NHL

AHS negative data.

Group III

Glyphosate - limited to inadequate.

Group IV

Glyphosa

4.3

Fill data gaps