

Comparison of farmworker MDA levels & NHANES Mexican American Adults 1999-2000

Unpublished results presented:



Malathion on farmworker hands: Controls vs Intervention

Unpublished results presented:



Malathion levels on clothing patch & skin patch samples

Unpublished results presented:



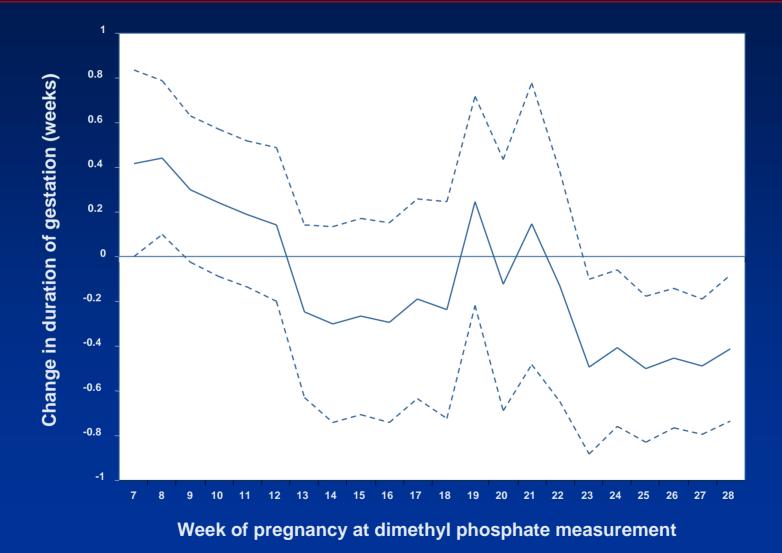
Workers who did not wear gloves and ate strawberries from the fields had higher pesticide levels

Unpublished results presented:

Do these pesticide exposures affect children's health?



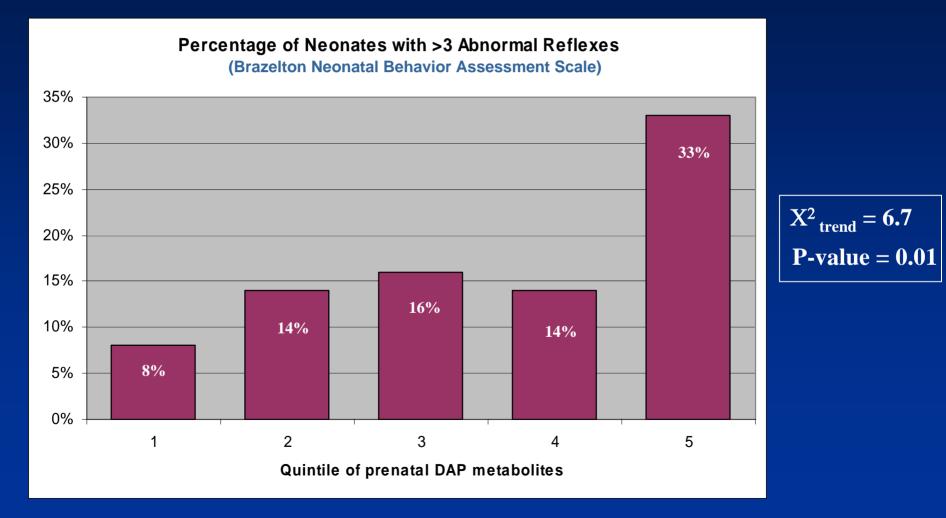
Length of Gestation is Shorter in Women with Higher Organophosphate Pesticide Exposures



Eskenazi et al., 2004

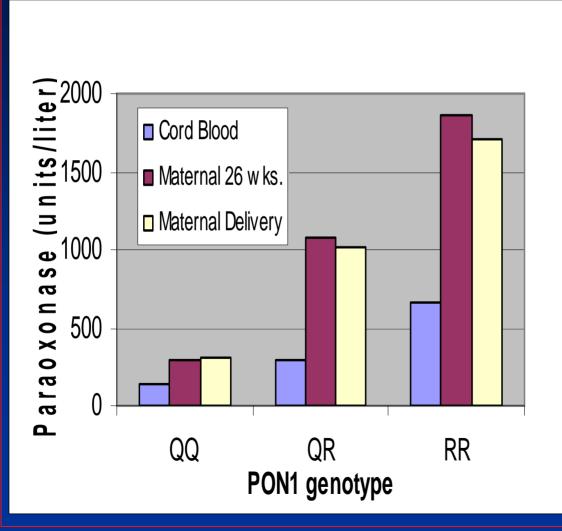


Newborns of Mothers with Higher Organophosphate Pesticide Exposures have More Abnormal Reflexes



Young et al., 2005

Individual Susceptibility to Pesticides May Vary by Age and Genotype



• PON1 newborns lower than adults; therefore, greater susceptibility to OP's • Children with QQ genotype have low level of enzyme; *therefore*, may be at highest risk

Holland et al., in press



Broad variability of PON1 levels and activity in CHAMACOS mothers and children

Variability in PON1:

Among Newborns: 25 X

Among Mothers: 14 X

Newborn:Mothers: 4 X

Total Range in CHAMACOS: 65-fold

Unpublished results presented:



Background: Historical and current use of DDT for malaria control

- Banned in U.S. in 1972 and in Mexico in 2000.
- A few studies have investigated neurodevelopmental toxicity of DDE in humans, with mixed results.
- DDT associated with neurodevelopmental toxicity in animals.
- No studies of DDT and neurodevelopment in humans.

Movement to bring DDT back for malaria control in some countries



DDT/DDE levels and Maternal Characteristics

Unpublished results presented:



Multivariate Analysis Results

Unpublished results presented:



Maternal OCs (\log_{10} ng/g lipid) Levels and Gestational Length and Birthweight

	Adj. ^a ß (95% CI)	p-value
Length of Gestation		
p,p'-DDE	-0.10 (-0.40, 0.20)	0.51
p,p'-DDT	0.04 (-0.18, 0.26)	0.72
HCB	-0.47 (-0.95, -0.002)	0.05**
Birth Weight (g)		
p,p'-DDE	-49 (-136, 38)	0.27
p,p'-DDT	-36 (-99, 27)	0.27
HCB	-20 (-154, 115)	0.77

DDT/DDE FINDINGS CONSISTENT WITH OTHER PAPERS

Fenster et al., in press



DDT Exposure and Bayley Mental Development Index (MDI)

Unpublished results presented:

In summary...

Unpublished results presented:



www.chamacos.org