



National Birth Defect Registry

- Based on concept of "alert practitioner"
- Identifies patterns of birth defects with the same or similar exposures
- Collects data on maternal/paternal preconceptual and prenatal exposures
- Cases dually identified by individual symptoms and overall syndrome or category name
- Designed to raise hypotheses

Teratogens Identified by Alert Practitioners

- Thalidomide
- Rubella
- Dilantin
- DES
- Alcohol
- Methyl Mercury
- Radiation

Scientific Advisory Board

- Peter Kahn, Ph.D.
 Rutgers University
- James Murphy, Ph.D. University of Colorado
- Theo Colborn, Ph.D.
 World Wildlife Fund
- Stuart Newman, Ph.D.
 New York Medical College

- Shanna Swan, Ph.D.
 California Department of Health Services
- Maureen Paul, M.D.
 University of Massachusetts
- Wayland Swain, Ph.D.
 Eco Logic Company
- Janette Sherman, M.D.
 Wayne State University

Registry Projects

- Agent Orange
- Gulf War
- Community based
 - Dickson, TN oral cleft cluster
 - Apopka, FL lupus cluster

BIRTH DEFECT RESEARCH FOR CHILDREN, INC. REGISTRY QUESTIONNAIRE

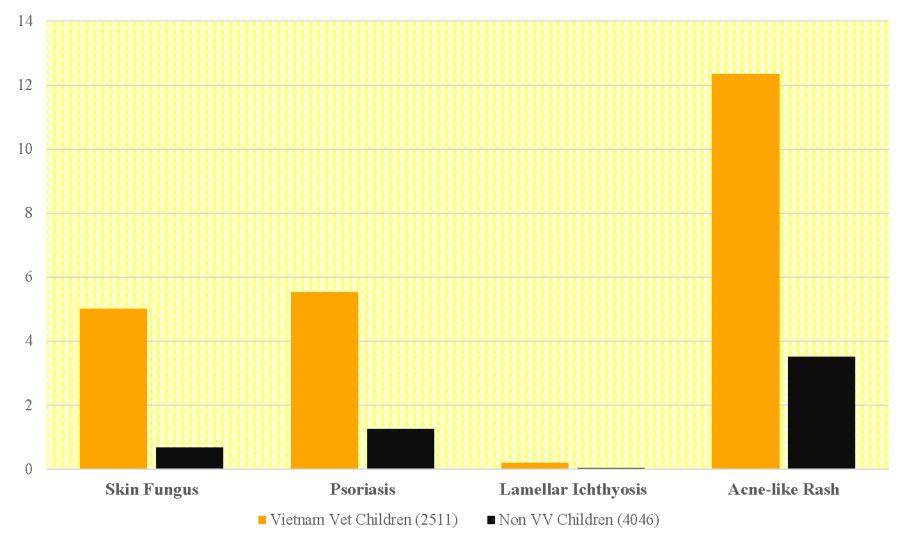
(Please print in blue or black ink or no.2 pencil)

Date: //	_ Reportin	g person's name:		
Relationship to child:		stepmotherstepfather	grandmother grandfather	O other:
Street/POB:				Apt No:
City			Stato	Zip:
City:			State	Σιρ
Phone: ()				
Name and number of s	someone who ca	an always get in to	uch with you. Name	e:
			Phon	e: ()
I would like to be ma	tched with oth	er families of chil	dren with similar d	isabilities. Oyes Ono
	СН	ILD DISABI	LITIES INFO	RMATION
Child's name:				
Sex: O Male O Female	De: OA O	RH+ C) Asian or Pacific Isla) Black (non-Hispani) Hispanic	ander ONative American or Alaskan Native OWhite (non-Hispanic) Other (please specify):
Date of birth:	<u>/ </u>	Place of birth:	· -	State
Birth weight: lbs.			r I's age at birth (mont	
Do the father and mot	her of this child	nave other biologic	•	Oyes Ono Odon't know
If yes, please	list date of birth	and sex for each	one: DOB: Mo	/OMale OFemale
DOB: /	yay Yr ON	lale OFemale	DOB: /	y Yr OMale OFemale
Were child's disabilitie (please mark all t		a: Ophysicia		orker
Are medical or school	records availab	le confirming child	's disabilities?	yes Ono Odon't know
Would you be willing t Has your child died?			n? Oyes O	no Odon't know and Date // // // Mo Day Yr
	ſ		OD DISABIL	
		condition you	r child has. If you	ur child has a condition that is not listed,
write	the name of t		ervous System (C	e in the appropriate column.
 ○ A001 anencepha ○ A002 microcepha ○ A003 hydrocepha ○ A004 porencepha ○ A005 Arnold Cha ○ A006 cortical blia ○ A007 encephalo 	aly ialy ialy iari malformatioi indness icele		○ A010 sp ○ A011 hc ○ A012 se ○ A013 D ○ A014 tu ○ A015 at ○ A016 ce	bina bifida occulta bloprosencephaly bizure disorder andy Walker malformation berous sclerosis axia erebral palsy
				her CNS

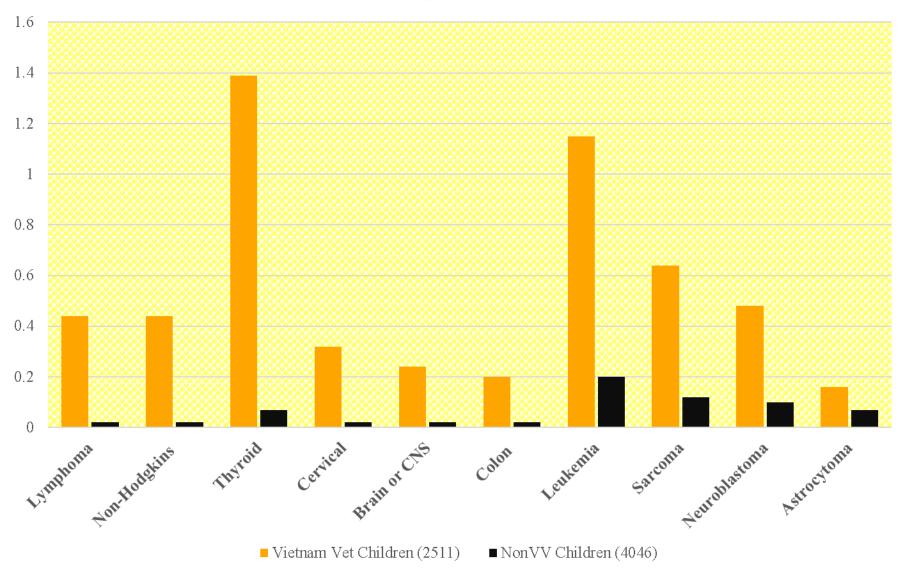
Agent Orange

- 2-45T/2-4D/TCDD
- TCDD targets immune system
- Ectodermal effects
- Neurobehavioral effects
- Thyroid defects
- Abnormalities of teeth
- Alterations in learning

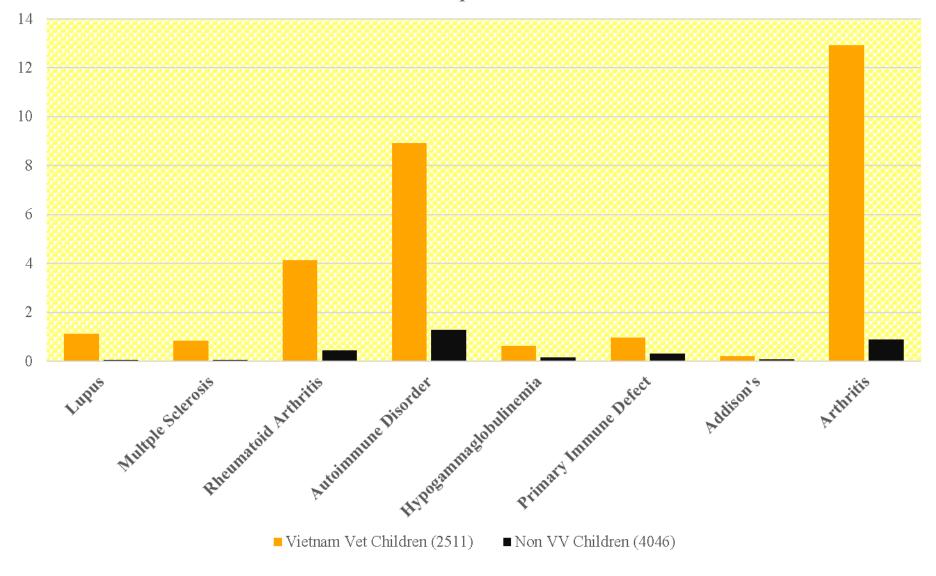
Skin Defects



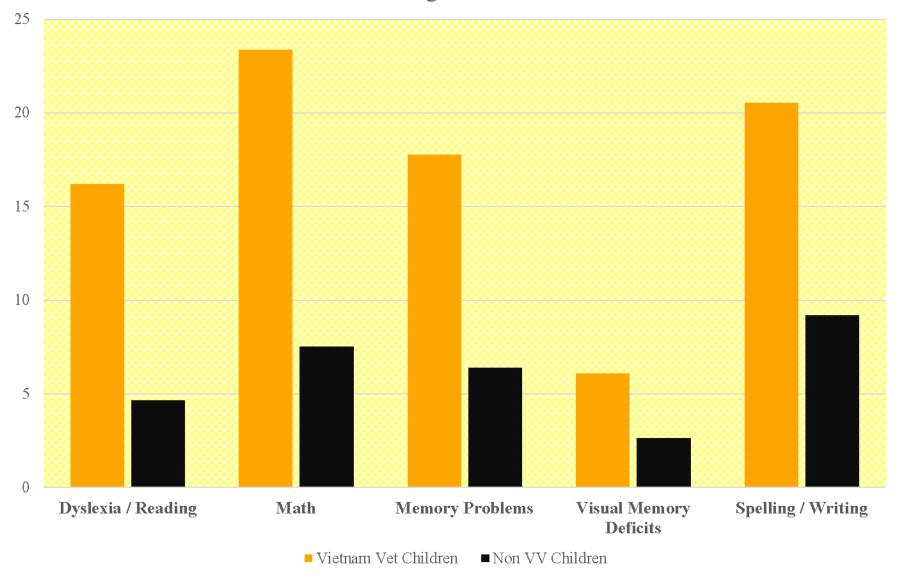
Cancer



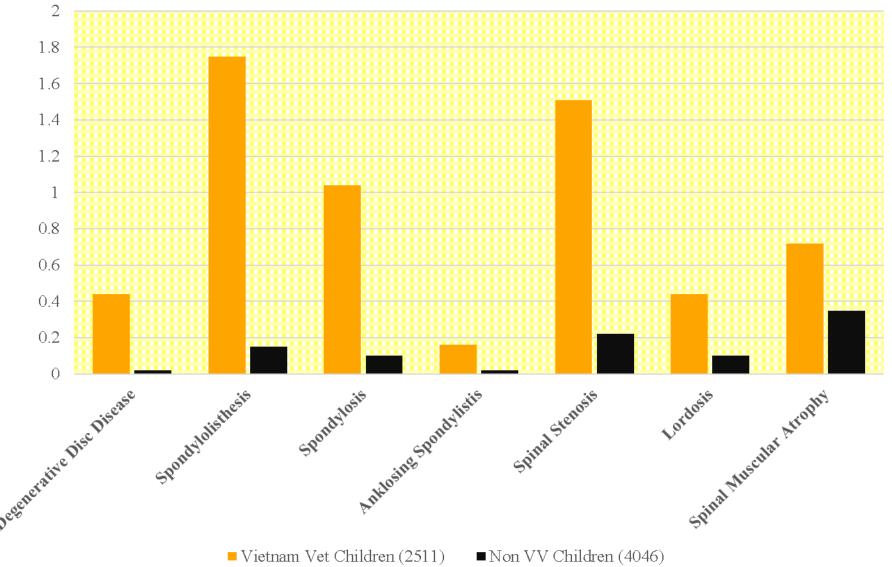
Immune Response Disorder



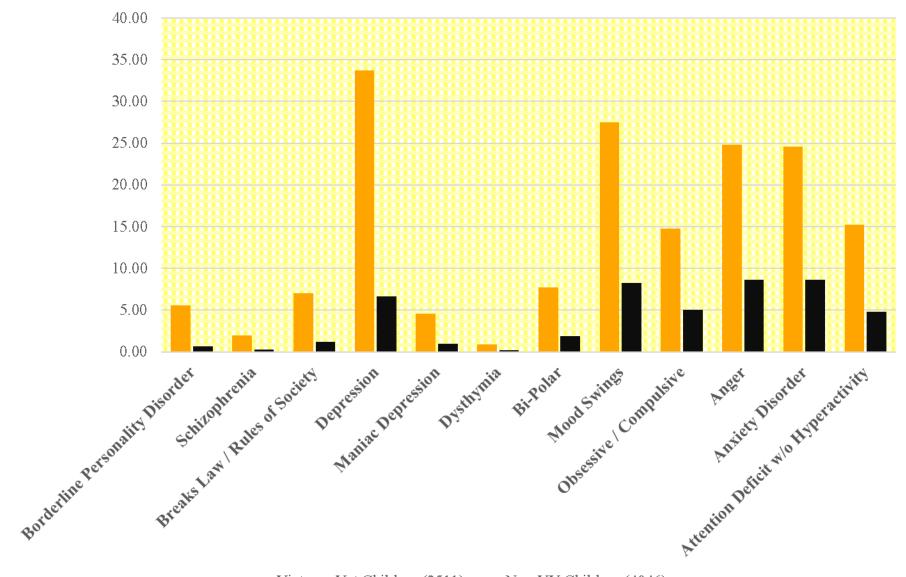
Learning Disabilities





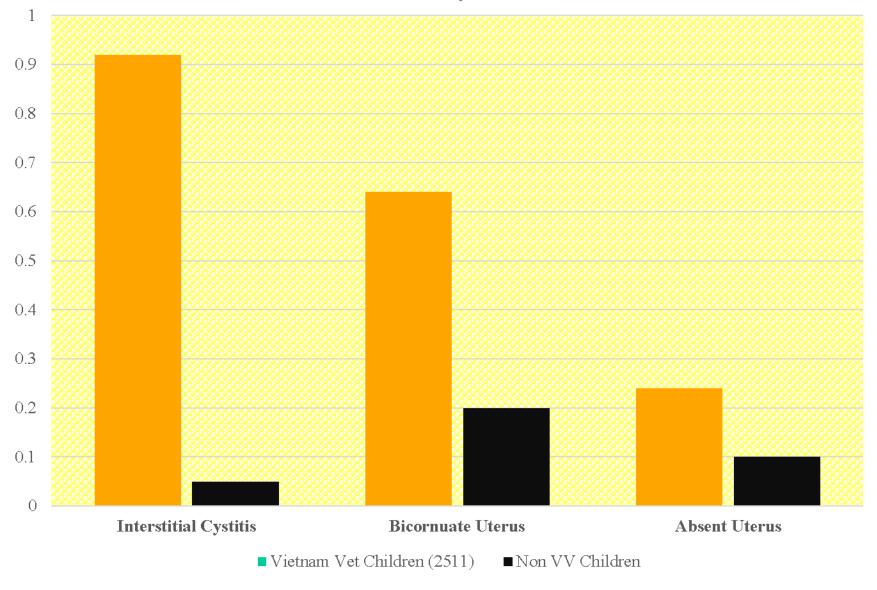


Emotional / Behavioral

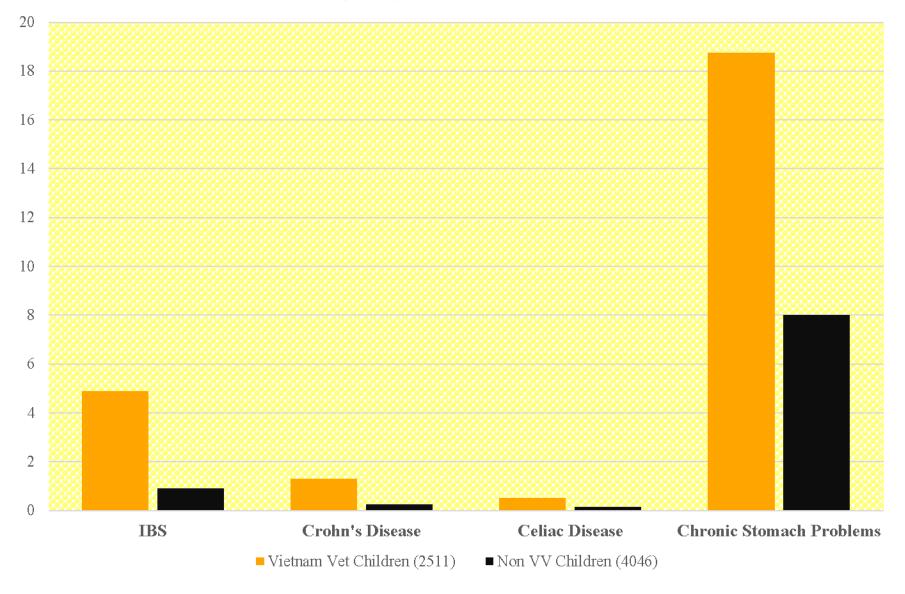


■ Vietnam Vet Children (2511) ■ Non VV Children (4046)

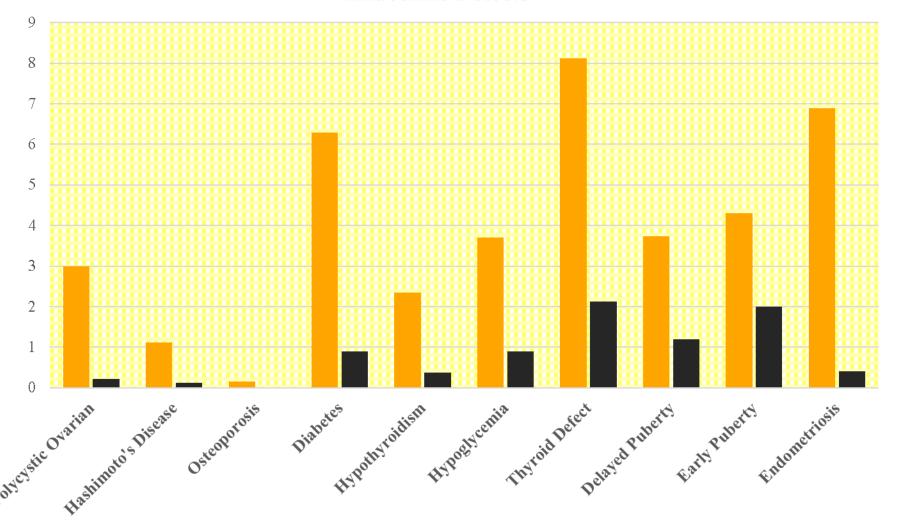
Genitourinary Defects



Gastrointestinal Defects



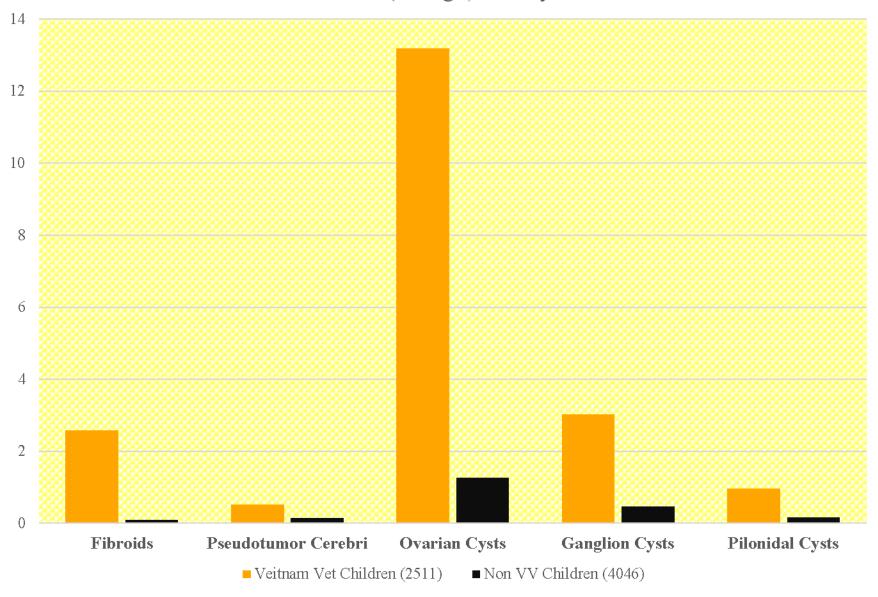
Endocrine Defects



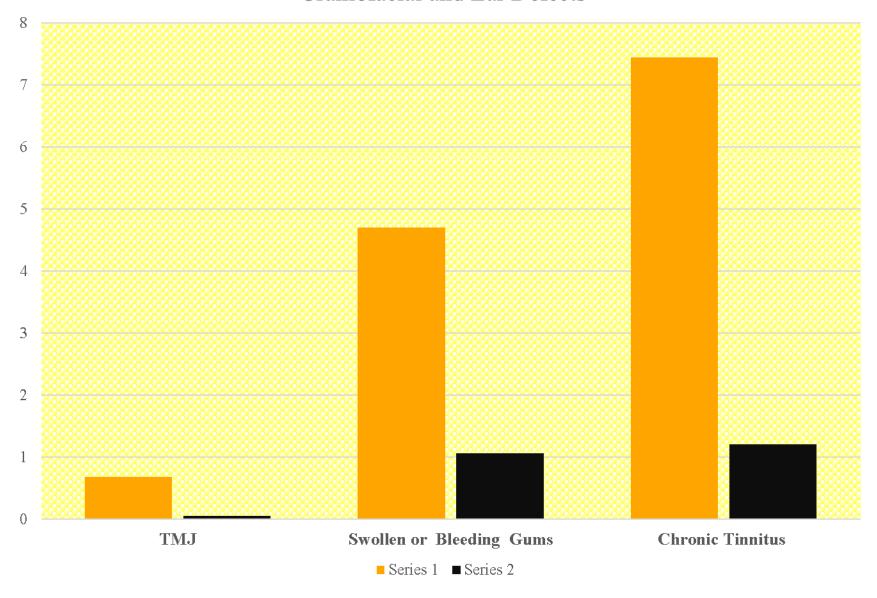
■ Vietnam Vet Children (2511)

■ Non VV Children (4046)

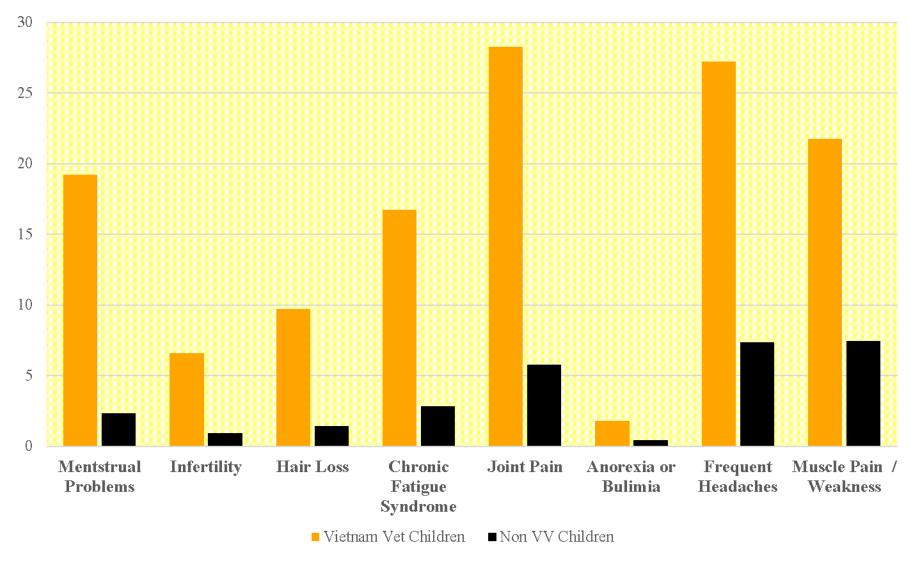
Tumors (Benign) and Cysts



Craniofacial and Ear Defects



Misc Defects



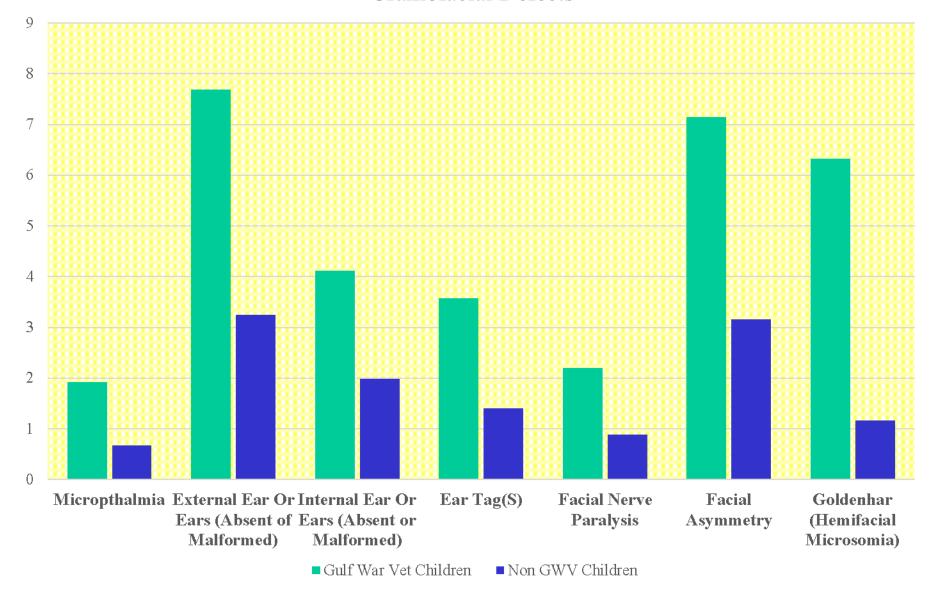
Gulf War Exposures

- DEET
- Permethrin
- Pyridostigmine
- Pentachlorophenol
- Benzocaine sulfur
- Aluminum phospide
- Baygon
- Boric Acid
- Sevin
- Amidinohydrazone
- Diazinon

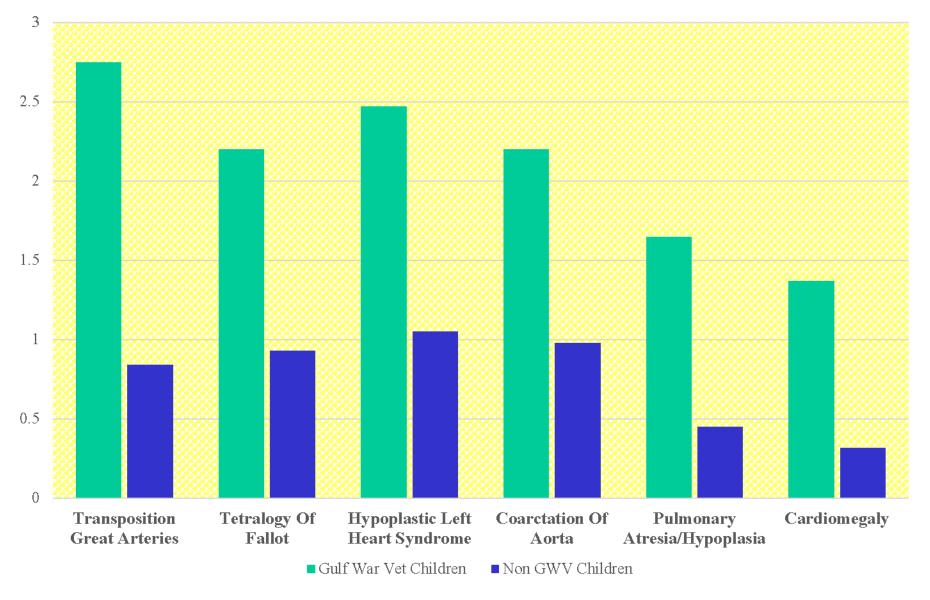
- Dursban
- Dichlorvos
- Ficam
- Carbaryl
- Lindane
- Malathion
- Oil Well Fires
- Leaded fuels
- Depleted Uranium
- Solvents
- Decontam agent

- Malaria Pills
- Campfires
- Leishmaniasis
- Chemical warfare agents
- CARC
- Vaccinations
- D-phenothrin
- Allethrin
- Paint
- Others

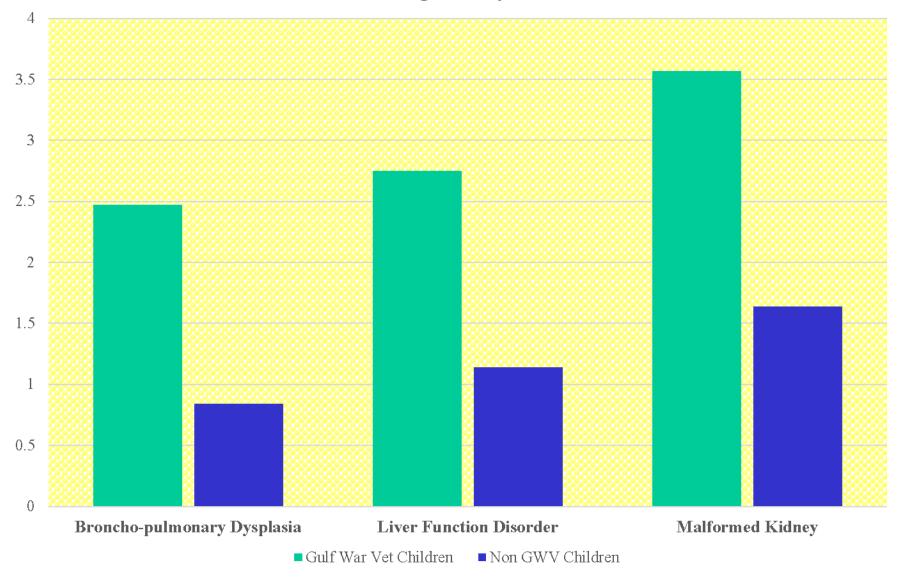
Craniofacial Defects



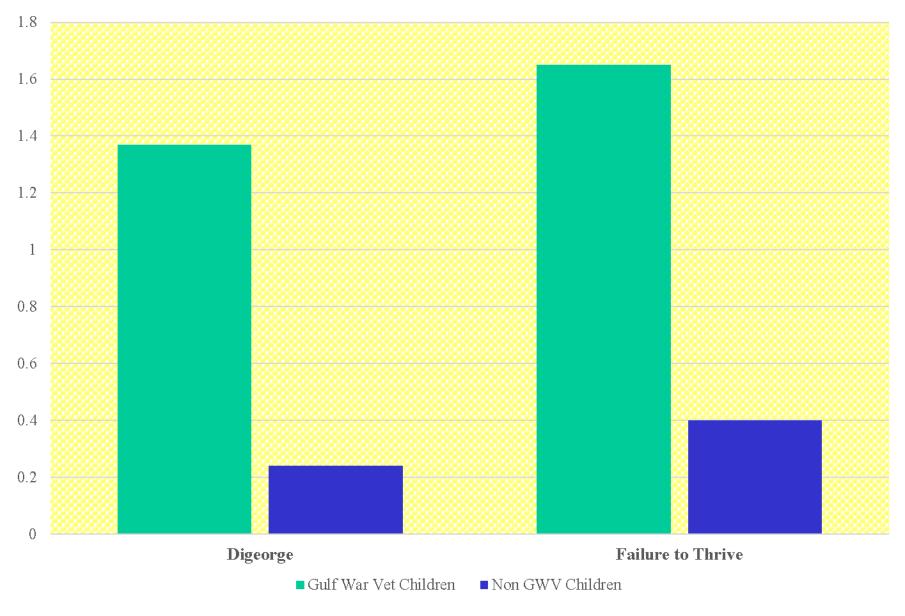
Heart Defects



Liver Lung Kidney Defects



Misc Defects



Dickson Cleft Palate Investigation

- 19 cases of cleft palate/2 expected
- TCE leachate from old landfill
- Toluene emissions from printing company
- Excessive Trihalomethanes in water
- CDC confirmed cluster
- EPA contracted new report on landfill
- Landfill now capped
- Tennessee legislature voted to move source of community's water to a different river

NBDR Can Be A Tool for Birth Defect Prevention

- Generates hypotheses for further research
- Gives families a role in research and prevention
- A tool for community investigation
- The ultimate source for exposure information
- Low cost of operation

"because every birth defect has a cause"