



## What the law (Children's Health Act of 2000 Public Law 106-310 Title X Section 1004) says



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The Study is required to:

(1) incorporate behavioral, emotional, educational, and contextual consequences to enable a **complete assessment** of the physical, chemical, biological, and psychosocial environmental influences on children's well-being;

(2) Gather data on environmental influences and outcomes on **diverse populations** of children, which may include the consideration of prenatal exposures; and

(3) Consider **health disparities** among children, which may include the consideration of prenatal exposures."







## **Evolution of Design**



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- 2009: a multi-stage, modified national probability sample using selected geographic areas as primary and secondary sampling units and door-to-door household recruitment
- Vanguard data demonstrated divergence between expected and observed experience, which led to re-examination of options
- In examining options, NCS was informed by pilot data supplemented by participant, community, and expert input



## NCS Vanguard Study Recruitment



	Household Based Recruitment	Provider Based Recruitment	Direct Outreach Recruitment
Number of Sites	17	13	10
Eligible women	62750	6100	19350
Contacted for pregnancy screen (% of eligible)	56400 (90%)	4970 (81%)	19300 (99%)
Completed screen (% of contacted)	51350 (91%)	3400 (68%)	15850 (82%)
Pregnant or trying to become pregnant (% of screened)	5700 (11%)	2650 (78%)	2800 (18%)
Women enrolled (% of pregnant or trying)	3650 (64%)	1950 (74%)	2300 (82%)
Women contacted for each woman enrolled	15.5	2.5	8.4
Newborns enrolled	2450	1150+ *	1100
Women contacted for each newborn enrolled	23.0	*	17.6
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Exposures	Examples		Health Outcomes	Examples
Physical Environment	Housing quality, neighborhood		Pregnancy Outcomes	Preterm, Birth defects
Chemical Exposures	Pesticides, phthalates, heavy metals, BPA		Neurodevelopment & Behavior	Autism, learning disabilities, schizophrenia, conduct and behavior problems
Biologic Environment	Infectious agents, endotoxins, diet			
Genetics	Interaction between genes and environment		Injury	Head trauma, Injuries requiring
Psychosocial milieu	Family structure, socio-economic status, parenting style, social networks, exposure to media and violence		Asthma	hospitalizations Asthma incidence and exacerbation
			Obesity & Physical Development	Obesity, diabetes, altered puberty
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Front Loaded Visit Schedule						
Prenatal and infancy	Childhood	Youth				
Pregnancy before 20 weeks*	18 months	7 years				
Pregnancy after 20 weeks*	24 months	9 years				
Birth	30 months	11 years				
3 months	36 months	13 years				
6 months	42 months	15 years				
9 months	48 months	17 years				
12 months	54 months	19 years				
	60 months	21 years				
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