Population-Rased and Research Outcomes

Etiological Reproductive Outcomes

Adverse and Toxic Wastes

Adverse and Toxic Wastes

PUBLIC DRINKING WATER CONTAMINATION AND BIRTHWEIGHT, AND SELECTED BIRTH DEFECTS



Jim Florio Governor Bruce Siegel, M.D., M.P.H.
Acting State Commissioner of Health

APPENDIX

POPULATION-BASED SURVEILLANCE AND ETIOLOGICAL RESEARCH OF ADVERSE REPRODUCTIVE OUTCOMES AND TOXIC WASTES

REPORT ON PHASE IV-B: PUBLIC DRINKING WATER CONTAMINATION AND BIRTHWEIGHT, AND SELECTED BIRTH DEFECTS

A CASE-CONTROL STUDY

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Division of Birth Defects and Developmental Disabilities
National Center for Environmental Health and Injury Control
Centers for Disease Control

APPENDIX A

QUESTIONNAIRE

A. VERIFICATION OF NOTHER'S STATUS:

I would like to begin by asking you to verify some general information.

1. What is your full name, including your maiden name? [ENTER ON COVER SHEET ONLY.]

NUMBER AND STREET: CITY: COUNTY: STATE: ZIP: A. When did you move to this address? MOY yr. 5. Is this your home phone number? CENTER ON COVER SHEET ONLY.] 6. Is there a more convenient number where we can reach you? [IF YES] What is the number? [ENTER ON COVER SHEET ONLY.] 6. Is there a more convenient number where we can reach you? [IF YES] What is the number? [ENTER ON CO SHEET ONLY.] 6. Is there a more convenient number where we can reach you? [IF YES] What is the number? [ENTER ON CO SHEET ONLY.] 6. Is there a more convenient number where we can reach you? [IF YES] What is the number? [ENTER ON CO SHEET ONLY.] 6. Is there a more convenient number where we can reach you? [IF YES] What is the first name of the child's natural (i.e., biological) father? [IF YES] What is the number? [INTER] [IF YES] What is the number? [INTER] What became was before DOI the birth of					
4. When did you move to this address? / _ /		HUNDER AND SIREET:		· · · · · · · · · · · · · · · · · · ·	
mo. day yr. 5. Is this your home phone number? [ENTER ON COVER SHEET ONLY.] 6. Is there a more convenient number where we can reach you? [IF YES] What is the number? [ENTER ON CO SHEET ONLY.] DESCRIBE BRIEFLY: 7. What is the first name of the child's natural (i.e., biological) father? [first] NOTHER'S ADDRESS HISTORY: I would like to ask you about all the places where you lived from (one year before DOI the birth of DOIRS]. 1. Address # 1 (BIRTH): Where were you living when [NOIB] was born? NUMBER AND STREET: CITY: COUNTY: STATE: ZIP: a. On what dates did you live there? From:/ _ to/ b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? [NUMBER AND STREET: [NOINTY: STATE: ZIP:		CITY:	COUNTY:	STATE:	ZIP:
6. Is there a more convenient number where we can reach you? [IF YES] What is the number? [ENTER ON CO SHEET ONLY.] DESCRIBE BRIEFLY: 7. What is the first name of the child's natural (i.e., biological) father? (first) MOTHREY'S ADDRESS HISTORY: I would like to ask you about all the places where you lived from			mo. day	yr.	
SHEET CHLY.] DESCRIBE BRIEFLY: 7. What is the first name of the child's natural (i.e., biological) father? (first) NOTHER'S ADDRESS HISTORY: I would like to ask you about all the places where you lived from	, .	s tills your nome prione n	GIDELY TENIER ON COA	ER SHEET UNLT.J	
NOTHER'S ADDRESS HISTORY: I would like to ask you about all the places where you lived from		SHEET ONLY.] DESCRIB	E BRIEFLY:		
I would like to ask you about all the places where you lived from	7. W	hat is the first name of	the child's natural	(i.e., biological) father?	
I would like to ask you about all the places where you lived from					(11130)
the birth of DNOIR]. 1. Address # 1 (BIRTH): Where were you living when [KOIB] was born? NUMBER AND STREET: COUNTY: STATE: ZIP: a. On what dates did you live there? From: / _ to / _	NOTHE	R'S ADDRESS HISTORY:			
NUMBER AND STREET: CITY:		I would like to ask y	ou about all the place	es where you lived from	(one year before DOIB)
a. On what dates did you live there? From: / _ to _ / _ mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 2. Address # 2 (CONCEPTION): Where were you living when you think you became pregnant with [N NUMBER AND STREET: STATE: ZIP:	1. A	ddress # 1 (8IRTH): Wher	e were you living when	[NOIB] was born?	
a. On what dates did you live there? Brom: / _ to / _ mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 2. Address # 2 (CONCEPTION): Where were you living when you think you became pregnant with [No NUMBER AND STREET: COUNTY: STATE: ZIP: CITY: COUNTY: STATE: / _ to / _ mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		NUMBER AND STREET:			
mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 2. Address # 2 (CONCEPTION): Where were you living when you think you became pregnant with [N NUMBER AND STREET: STATE: ZIP: CITY: COUNTY: STATE: ZIP: a. On what dates did you live there? From:/ to/ mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		CITY:	COUNTY:	STATE:	ZIP:
b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 2. Address # 2 (CONCEPTION): Where were you living when you think you became pregnant with[N NUMBER AND STREET:		a. On what dates did	you live there?	·	
2. Address # 2 (CONCEPTION): Where were you living when you think you became pregnant with		b. Was it a single-f	smily home? [2]-Yes		nome was it?
NUMBER AND STREET: CITY: COUNTY: STATE: ZIP: a. On what dates did you live there? From: / to / mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		c. Was it a mobile h	ome? [2] - Yes	[1]-No	
CITY: STATE: ZIP: a. On what dates did you live there? From: / to / mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before	2. A	ddress # 2 (CONCEPTION):	Where were you living	when you think you became preg	nant with [NOII
a. On what dates did you live there? From: / _ to / mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		NUMBER AND STREET:			
mo. yr. mo. yr. b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		CITY:	COUNTY:	STATE:	ZIP:
b. Was it a single-family home? [2]-Yes [1]-No If no, what type of home was it? c. Was it a mobile home? [2]-Yes [1]-No 3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		a. On what dates did	you live there?		
3. Address # 3 [before CONCEPTION]: Where were you living before that (especially the three months before		b. Was it a single-fa	amily home? [2]-Yes	•	ome was it?
		c. Was it a mobile ho	ome? [2] -Yes	[1] -No	•
		ddress # 3 [before CONCE	PTION]: Where were you	living before that (especially	the three months before)?
NUMBER AND STREET:	3. A				
CITY: COUNTY: STATE: ZIP:	5. A	NUMBER AND STREET:			

		a.	On what dat	es did you l	ive the	re?	From:					
				lo-domilu l	homo?	F21 - Voc	r43.	•	. MO. '	•	was it?	
		D.	Was It a SI	ngte-ramity (ione f	[5] - 169		-NO 11 1K	, who cyp		,	
		c.	Was it a mo	bile home?		[2] - Yes	[1]	-No				
	4. A	ddress	# 4: Where	were you liv	ing bef	ore that	? Con	tinue unt	il at least	one year	before DO	IB.
		NUM	IBER AND STRE	ET:						·	<u> </u>	
		CIT	Γ Υ:		COUNTY	:		:	STATE:		21	P:
•			On what dat	es did you l	ive the	re?	From:		_ to / mo.			
C.	LIVIN	G IN A	A NOBILE HOM	(NOTE THAT	THIS SH	OULD BE	CLEAR	FROM PREV	ious questi	ONS):		
								PERIOD O	CCURRED ARC	UND INDEX	PREGNANCY	•
								<u>-3-to-D0</u>	C Trim.#1			
								2	2			
								1	1		1	
								9	9	9	9	- Unknown
D.		No		ke to ask you		eckgrou	nd ques	stions abo	ut yourself	f.	2. AGE	E AT DOIB []
	3. L	ihere (was your fam	ily living wh	nen you	were bo	rn?					
		C1	TY:		COUNTY	/:			STATE:		co	DUNTRY:
	4. 1	ihat i	s your race?	Are you	.?		•					
		r 1] - White				(2) - 1	Black				
				pecify			•-•					
				not to answer		ion	[9] - (Unknown				
	5. I	What w	as the highe	st grade of	regul ar	school	or col	lege that	you comple	ted? CHEC	K CATEGOR	1 :
		r1] - No forma	l schoolina	[4]	- Grade	s 9-11				[7] - Co	llege graduate
		-] - Grades 1	_				ompleted h	nigh school			st-graduate
] - Grades 7									known/No response
	6. 1	Vi thou	nt shoes on,	how tall are	you?	feet	inch	_ es		Keight	in centi	meters []

E.	ŒW	ERAL INFORMATION, FATHER:				•
		Now, I would like to ask you	some questions about the chi	ld's natural (i.e.,	biological)	father.
	1.	When was he born?/_/_ mo. day y			2. AGE A	T DOIB []
	3.	What is his race? Is he	7			
		[1] - White [3] - Other, specify	[2] - Black			
		[8] - Chooses not to answer of	question [9] - Unknown			
	4.	What was the highest grade of reg	gular school or college that	he completed? CHEC	K CATEGORY:	
		[1] - No formal schooling	[4] - Grades 9-11		[7] - Colle	ce craduate
		(2] - Grades 1-6	[5] - Grade 12, completed h	igh school	[8] - Post-	graduate
		[3] - Grades 7-8	[6] - 1-3 years of college	or technical school	[9] - Unkno	wn/No response
	5.	Are you and [NOIB'S] father relat		1]-No [8]-No res s, how are you rela		
	6.	Did he have any jobs in the period	od from [-3] to [DOIB]?	[2] -Yes	(1) -No	[9] -Unknown
		What was his usual job around	i the time of your pregnancy (with [NOIB]. What I	was his job c	alled?
		JOS TITLE:				
		What was the name and address				
		COMPANY NAME:				
		NUMBER AND STREET:				
			COUNTY:			

Describe what his job involved? What did he do?

Describe what the employer did? What did they make?

DESCRIPTION:

F. PREGNANCY HISTORY - INSTRUCTIONS:

Now, I would like to ask you some questions about all of your pregnancies. The questions in this section will deal with any live births, miscarriages, elective abortions, or stillbirths you may have had. A <u>miscarriage</u>, also called a spontaneous abortion, is a pregnancy that ended before 20 weeks (or about 5 months) due to natural causes. They are estimated to occur in up to 15% of all pregnancies. A stillbirth is a pregnancy that ended sometime after 20 weeks.

1. Let's start with the number of pregnancies you have had. Including all live births, miscarriages, abortions, and stillbirths:

a.	How many pregnancies have you had?				[]
b.	Did any of your pregnancies result in twins or other multiple babies?	[2] -Yes	[1]-No	How many?	[]
c.	Did any of your pregnancies result in a live birth?	[2] -Yes	[1] -No	How marry?	[]
d.	Did any of your pregnancies that were 20 weeks or longer result in a stillbirth?	[2] -Yes	[1] -No	How many?	[]
e.	Did any of your pregnancies that were less than 20 weeks long result in a spontaneous abortion?	[2] -Yes	[1] -No	How marry?	[]
f.	Were any of your pregnancies that were less than 20	[2] -Yes	[1] -No	How marry?	[]

- 2. Now, let's talk about your __ pregnancy (insert number, in order, going through all pregnancies).
 - a. When did this pregnancy end? (Enter pregnancy number and record date of birth.)
 - b. (IF A LIVEBIRTH OR STILLBIRTH) How many babies were you pregnant with?
 - c. Did (this baby/these babies) have the same natural (i.e., biological) father as (NOIB)?
 - d. What was the result of this pregnancy? (LIST EACH CHILD SEPARATELY)
 - (1) Was the (order number, if multiple) baby a livebirth?
 - (2) Was the (order number, if multiple) baby a stillbirth?
 - (3) Did this (order number, if multiple) pregnancy end in a miscarriage?
 - (4) Was this (order number, if multiple) pregnancy ended by an induced abortion?
 - e. (IF LIVEBIRTH) What did you name the child?
 - f. (IF LIVEBIRTH) What was the the child's sex?
 - g. (IF LIVEBIRTH) How much did (child's name) weigh at birth? (RECORD AS STATED AND CONVERT LATER)
 - h. (IF LIVEBIRTH) Was (child's name) born with any problems or birth defects? (IF YES) What were they?
 - i. (IF LIVEBIRTH) Did (child's name) have any medical problems that developed or became apparent after birth? (IF YES) What were they?
 - j. (IF LIVEBIRTH) Is (child's name) still living?
 - (IF NOT ALIVE) When did (child's name) die?
 - (IF NOT ALIVE) What caused (child's name) death?
 - k. (IF CHILD DIED) Did any doctors examine the child's body after death? (IF YES) What did they find?
 - i. In what month of your pregnancy did you start prenatal care?
 - m. (INDEX PREGNANCY ONLY) How many prenatal visits did you have during your pregnancy with [NOIB]?
 - n. (INDEX PREGNANCY ONLY) Did you miss any prenatal visits during your pregnancy with [NOIB]?
 - o. Did your doctor say that the (baby was/babies were) born early, on time, or late? (IF EARLY OR LATE) How many weeks (early/late)?
 - p. Did you have any complications or problems during this pregnancy that required special attention? (IF YES, WHAT WERE THE COMPLICATIONS?)
 - q. Was the delivery vaginal or caesarean?
 - r. Were you aware of any complications or problems during labor, delivery, or after delivery? (IF YES, WHAT WERE THE COMPLICATIONS?)

G. PREGNANCY HISTORY - GRID:

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02	[]	//	(2)Y	[2]Y	(2)Y	[Z]Y	[2]Y	(Z) Y		(2) F	[]	[2]Y	(Z)Y	(Z)Y	
			[1]N		[1]N	C13N	(1)N	[1]N		[f]]H		[1]N	[1]N	C13N	
03	(1	//				(2)Y				[2] F	[]	(Z)Y	[2]Y	(Z)Y	-J-J
			(fi)N	(13N	C13N	(1)N	C13N	[1]N		C13M		(1)N	C13N	E13N	
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•		//		[1]N						(1)H	,,	[1]N	(1)N	(1)N	
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09	[]	//	(Z] Y	[2]Y	(Z)Y	[2] Y	(Z)Y	(2) Y		(Z) F	[]	(Z)Y	(Z)Y	[2]Y	
			[1]N	[13N	[1]N	[1]N	(1)N	(1)N		(1)M		[1]N	[1]N	[1]N	
10	[3	//		(2)Y	(Z)Y		(Z)Y			(Z) F	[]	(Z) Y	(Z)Y	[2] Y	-
			[1]N	C13N	[1]N	[1]N	[1]N	[1]N		(1)M		(1)N	(1)N	[1]N	
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ID NAMER: ____

G.	PREIGNA	PRECIONALCY HISTORY - GRID, CONTINUED:				INDEX CHLY										
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	TR		YN		M	M	s	S	N	R	T	T	WEEKS	N G	PL	N L
	0 F	DATE FIRST ROUND	T	MONTH STARTED	В	T	T	S	T	L	H	E	EARLY/	PN	EI	PI
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04	[2] Y	//	[2]Y	[_]						(1)E	(2)	[3] L	[]	[2]Y	(2)C	(Z)Y
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05	[2] Y	//	(Z)Y	[_1						(1)E	(2)	(3)L	[1	[2] Y	(2) ([2] Y
	{1]N		(1)N											[1]N	[1]V	[1]N
06	(2)Y	//	[2]Y	[_]					-	(1)E	[2]	[3]L	[]	(2)Y	[2]C	[<u>2</u>] Y
	(1)N		C13N	- - -						•	_		··	C13N	(13V	ETJN
07	(2)Y	//	(2) Y	[_]						[1]E	121	(3)L	[]	[2]Y	(2)C	(Z) Y
	C13N		C13N	`-'						1.76		WIL		(1)N	[1]V	(1)N
08	[2] Y	//	[2]Y	[_]						[1]E	121	(3) L	[]	[2]Y	C20.C	
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	[1]N		[1]N											C13N	[1]V	(1)N
10	(2)Y	//	[2]Y	[_]	-					(1]E	[2]	[3] L	[]	(2) Y	(2)C	(Z) Y
	(13N		(1)N	_										[1]N	(1]V	C13N
11	[Z] Y	//	[2]Y	[_]						(1)E	171	(3)	[]	[2]Y	1210	
• •	מנו	''	וונון	`-'						LIJE		שונט		(1)N	[2]C [1]V	(2)Y [1]N
12	[2] Y		- COV													
14	(1)N	//	(2) Y [1] N	[_1						(1)E	[2]	(3)L	[1	(2)Y	(2)C	(2)Y
	ÇIJN		Lijk											(1) N	[1]V	[1]N
13	(Z)Y	//	(Z) Y	[_]						(1)E	[2]	(3) L	[]	[2]Y	(Z)C	[2] Y
	C13N		C13N											(1)N	[1]V	מנוז
14	(2)Y	//	[2]Y	[_]						[1]E	(2)	ßL	[]	(Z)Y	[2]C	[2] Y
	[1]N		(1]N											C13N	[1]V	ETON
15	(2) Y	//	[2]Y	[_1	_		_	-		[1]E	יכו	(3):	[]	[2]Y	(2)C	1210
	[1]N	''	CTON							1172		ے ارب	,	[1]N	[1]V	(2)Y (1)N
	I XOEX I	REGINALLY - BITTER LA	NTER:											- -	·	
	mv	, ,	17 1.4													
_	(2)Y (1)N	//	[2]Y [1]N	[_]	ι.		1	(2 (1)		[1]E	[2]	IJL	[]	(2)Y (1)N	(2)C (1)V	(2)Y (1)N
_															_	

H. MEDICAL PROBLEMS DURING PREGMANCIES:

Now, I'm going to ask you about some medical problems or conditions that women sometimes experience during pregnancy. I'd like you to think back over your pregnancy with [NOIS]. We would like to know if you experienced any of these problems during that pregnancy.

	MEDICAL PROBLEM/CONDITION	DURING INDEX
1.	Bladder, kidney, or urinary tract infection?	[2] -Yes
	,,,	[1] -No
		11, 110
2	Anemia or low blood count?	[2] -Yes
	Middle of the Stood County	
		[1] -No
7	Any serious injury or accident?	[2] -Yes
٦.	SPECIFY:	
	Greati.	[1] -No
4	A vaginal or cervical infection?	[2] -Yes
٠.	SPECIFY:	
	ortuiri.	[1] -No
5	Vaginal bleeding during the first 3 months of pregnancy?	121 - You
٠.	raginal breeding during the first 3 months of pregnancy?	[2] -Yes
		[1] -No
4	Vaginal blooding during the assent 7 marchs of assences.	191 No.
٥.	Vaginal bleeding during the second 3 months of pregnancy?	[2] -Yes
		[1] -No
7	Verifical blanding during the last 7 months of account	
٠.	Vaginal bleeding during the last 3 months of pregnancy?	[2] -Yes
		[1] -No
	Pariado as assertados	
٥.	Toxemia or pre-eclampsia?	[2] -Yes
	SPECIFY:	[1] -No
_		
у.	Compatibility problems between your blood type and the	[2] -Yes
	baby's blood type?	{1} -No
10.	Labor before the ninth month of pregnancy?	(2) -Yes
		[1] -No
11.	Did you have any high fevers?	[2] -Yes
		[1] -No
12.	Did you take any medications, including aspirin?	[2] -Yes
	SPECIFY:	[1] -No
	•	
13.	Did you have diabetes (high blood or urine sugar) while	[2] -Yes
	pregnant?	[1] -No
	•	
14.	Did you have a seizure during pregnancy?	[2] -Yes
	SPECIFY:	[1] -No
15.	Were you hospitalized during the pregnancy?	[2] -Yes
	SPECIFY:	[1] -No

I. HISTORY OF CENERAL MEDICAL CONDITIONS, PROBLEMS, TESTS, AND TREATMENTS DURING THE INDEX PREGNANCY:

Now let's turn to some general medical questions. I'm going to read you a list with a veriety of conditions, problems, tests, or treatments. For each item on the list, I'll ask you if you had it around the time you were pregrant with DDIED. With respect to DDDIED, we'll talk about things that happened in the 3 months just before you become pregrant and then events that occurred while you were pregrant with DDDED. To make it easier, we'll divide the time after you were pregrant into three, three-month periods (or "trimesters"). The first three months of the pregrancy was your first trimester; then, months four, five, and six made up your second trimester, while the last three months (i.e., seven, eight, and nine) made up the third trimester. It is important that we both understand each other about <u>UNED</u> certain things happened. Do you understand the use of the three, three-month trimesters or do you went me to explain it again? (REPEAT IF MECESSARY)

		ARCLIND				PREGWICY	DATE OF ILLNESS	
<u>œ</u>	OTTOWARDS LEVIEST	INDEX	<u>-3-to-000</u>	<u>Trim.#1</u>	Trim.#2	Trin.#5	OR TREMENT	TREATMENT/MEDICATION
1.	Chicken pox?	[2] -Yes	2	2	2	2	Fram://	
		[1] -No	1	1	-1	1	To://	
2.	Hepatitis?	[2] -Yes	2	2	2	2	From://	
		[1] -No	1	1	1	1	To://	
3.	Influenza?	[2] -Yes	2	2	2	2	From://	
		[1] -No	1	1	1	1	To://	
4.	Rubella (German	[2] -Yes	2	2	2	2	Fram://	-
	meastes)?	[1] -No	1	1	1	1	To://	
5.	Acne or skin problems	[2] -Yes	2	2	2	2	Fram://	
	for which medication	[1] -No	1	1	1	1	To://_	
	was prescribed?						****	
6.	High blood pressure?	[2] -Yes	2	2	2	2	From://_	
		[1] -No	1	1	1	1	To://	
	•							
7.	Thyroid cardition?	(2) -Yes	2	2	2	2	From://	
	(indicate if under-	[1] -No	1	1	1	1	To://	
	or over-active)							
8.	Asthma/allergies?	[2] -Yes	2	2	2	2	Fram://	
		[1] -No	1	1	1	1	To:/_ /	
9.	Epilepsy/seizure	(Z) -Yes	2	2	2	2	From://	
	disorder?	[1] -No	1	1	1	1	To://	
10.	Gonorrhea?	(Z) -Yes	2	2	2	2	From://	
		(1) -No	1	1	1	1	To://	
11.	Syphillis?	[2] -Yes	2	2	2	2	Fram://_	
		[1] -No	1	1	1	1	To://	
12.	Chlamydia?	[2] -Yes	2	2	2	2	From://	
		[1] -No	1	1	1	1	To://	
13.	Genital herpes?	(2) -Yes	2	2	2	2	Fram:/_ /_	
		[1] -No	1	1	1	1	To://_	
14.	Pelvic infections?	[2] -Yes	2	2	2	2	From:/_ /	
		[1] -No	1	1	1	1	To://	
	•							

1. HISTORY OF GENERAL MEDICAL CONDITIONS, PROBLEMS, TESTS, AND TREATMENTS DURING THE INDEX PREGNANCY, CONTINUED:

		ARCLIND	PERIOD CCC	LERED ARC	LNO INDEX	PREGNANCY	DATE OF ILLNESS	
CON	DITION/PROBLEM/TEST	INDEX	-3-to-000		Trim.#2	Trim.#5	OR TREAMENT	TREATMENT/MEDICATION
	Treated for cancer with	[2] -Yes	2	2	2	2	From://	
	either radiation or	[1] -No	1	1	1	1	To://	
	chemotherapy?							
16.	Dental X-rays during	[2] -Yes	2	2	2	2	From://	
	pregnancy?	[1] -No	1	1	1	1	To://	
								
17	Other Verse (a.e. for	[2] - Yes	2	2	•	2	From://	
17.	Other X-rays (e.g., for chest, breast, head,	(1)-No	2 1	2	2 1	1	To://_	
	spine, glands, etc.)?	[1]	•	•	•	•	104	
	church Breeze, creek.							
18.	Amiccentesis?	[Z] -Yes	2	2	2	2	From://	
		(1) -No	1	1	1	1	To://_	
19.	Chorionic villi	[2] -Yes	2	2	2	2	From://	
	sampling?	[1] -No	1	1	1	1	To://	
~	Ultrasound/pictures?	ETT Van	-	_	-	-	P 4 4	
۵٠.	ottrasourd/pictures/	(2) - Yes (1) - No	2 1	2 1	2 1	2 1	Fram: _ /_ /	
	•	(1)-100	,	•	•	'	10:	
21.	Birth control: pill/	[2] -Yes	2	2	2	2	From://_	
	oral contraceptive?	[1] -No	1	1	1	1	To://_	
	SPECIFY NAME:							
22.	Birth control: sperm.	[2] -Yes	2	2	2	2	From://	
	cream/jelly (alone or	[1] -No	1	1	1	1	To://	·
	with condons, etc.)?							
~~	Birth control: other?	ran -Yee	-	-	-	•	6	
చ.	Birdi controt: other?	(2) -Yes (1) -No	2 1	2 1	2 1	2 1	From://_	
		fil-wo	'	•	•	•	To://	
24.	While you were pregnant	[2] -Yes	2	2	2	2	From://	
	with DIDIB), did you	[1] -No	1	1	1	1	To://_	
	experience severe							
	nausea or vaniting?							•
	SPECIFY:							
3.	In the month before you	became pre	gnent with	(NOIB), h	av much			
	did you weigh?							
24					lbs.			Kilograms []
Ф.	How much weight did you Verify gain or loss; u	_	- •		ncy with I	MOIR] ?		
	verity gain or toss; u		ilgi lura t	uss.	lbs.			Kilograms []
					-1474			
27.	MUTHER. Here you born w	ith a birt	h defect or	a			[2] -Yes	[1]-No [9]-Unknown
	physical problem? If							
	•			•				•
28.	FATHER. How about (NOIB			-			[2] -Yes	[1]-No [9]-Unknown
	physical problem? If	yes, whait	problems? _		····			

1.	MOTHER'S	OCCUPATIONAL	WISTORY -

	co	's talk about am wer the period bac e year before the	k to about	(insert	month) of	(in:	sert year), ı	c hich is	: would
1.	Did yo	have any jobs in	the year before	e the birth of	your child DOI	B] ?	[2] -Yes		[1] -N:
2.	Se.	THIS SECTION IF N inning with your ing that year. I	job just before					sition y	rou hai
	Job #1	What was your jo						to /	'
		JOB TITLE:							
		What was the nam	e and address of	f the employer?			mo. yr.	mo.	yr.
		COMPANY NAMI	E:						
		NUMBER AND	STREET:						
		CITY:		COUNTY:		STATE:			
		Describe what you	ur employer did:	What did the	/ make?				
		How many hours d	• •		,		τ	1-H	iours
		DESCRIPTION							
	Job #2:	What was your job	before that ca	alled? When did	d you have this	job? From	n: / :	to /	
		JOB TITLE:							
		What was the name	e and address of	the employer?			mo. yr.	mo.	yr.
		COMPANY NAME	•						
		NUMBER AND S	TREET:						
		CITY:		COUNTY		STATE.			
		Describe what you	r employer did?	What did the	make2	31A1E:			
		How many hours di			mare:		ľ] -н	ours
		DESCRIPTION:							
	Job #3:	What was your job	before that ca	illed? When did	you have this	job? From	=/1	· /	- -
		JOB TITLE:							
		What was the name					mo. yr.	mo.	yr.
		COMPANY NAME	•						
		NUMBER AND S	TREET:				·		
		CITY:		COUNTY		CTATE.			
		Describe what you	r employer did2	What did the	make?	SIAIE:		_	
		How many hours di			maker		t	J-H	ours
		DESCRIPTION:		· · · · · · · · · · · · · · · · · · ·					<u> </u>
3.	Did you	have any jobs bef	ore the year in	which you were	pregnant with	DIOI8]?	[2] -Yes	i	[1]-No
		(If Yes) What was	your usual job what you did?	before your pr	egnancy with DA	DIB]? What	was that job	called	?
		DESCRIPTION:				<u> </u>			
		(If stopped worki					o working?	/	

L. WORK CHARACTERISTICS AND ACTIVITIES

(If worked in the year before DOIB) Let's talk about some of your work activities around the time you were pregnant with [NOIB].

		AROUND	PERIOD OCC	OCCURRED AROUND INDEX PREGNANC			
	CHARACTERISTIC/ACTIVITY	INDEX	-3-to-DOC		Trim.#2	Trim.#3	
1	. Did you typically work a regular five-day workweek?	(2) - Yes	3	•	_	_	
•		(1) - No	2 1	2	2	2	
		11, 110	•	•	1	1	
2	. Did you typically work the same shift?	(2) -Yes	2	2	2	2	
		[1] -No	1	1	1	1	
-	. Were you often exposed to smake from you or your	400 11	_				
3.	co-workers?	(2) - Yes	2	2	2	2	
	CO HOI NO.	[1] -No	1	1	1	1	
4.	Did you work with any machinery that is considered	[2] - Yes	2	2	2	•	
	hazardous or dangerous?	[1] -No	1	1	1	2 1	
					•	•	
	If yes, DESCRIBE:						
5.	Did you work with any chemicals?	233 W.	_	_			
۶.	Did you work with any andmoderat	(2) - Yes [1] - No	2 1	2	2	2	
		[1]-NO	,	1	1	1	
	If yes, DESCRIBE:						
6.	Was the noise in the work environment frequently	[2] -Yes	2	2	2	2	
	excessive (e.g., to consider protective equipment)?	[1] - No	1	1	1	1	
	If yes, DESCRIBE:						
7.	Was the vibration in the work environment frequently	[2] - Yes	2	•	_		
	excessive (e.g., to consider protective equipment)?	(1) -No	2 1 ·	2 1	2 1	2	
		t 12 mg	•	1	'	1	
	If yes, DESCRIBE:			•			
8.	Was the temperature in the work environment	[2] - Yes	2	2	2	-	
•	often extremely cold (e.g., to consider protection)?	[1]-No	1	1	1	2 1	
	If yes, DESCRIBE:					·	
_							
9.	Was the temperature in the work environment	[2] - Yes	2	2	2	2	
	Often extremely hot (e.g., to consider protection)?	[1] -No	1	1	1	1	
	If yes, DESCRIBE:						
10.	In your opinion, was your work area poorly		_				
	Ventilated?	[2] -Yes	2	2	2	2	
		[1] -No	1	1	1	1	
	If yes, DESCRIBE:						
11.	Did you or your co-workers often complain of	(2) - Yes	2	•	_	_	
	headaches, dizziness, nausea, eye irritation, etc.?	(1) - No	2 1	2 1	2	2	
			•	•	•	1	
	If yes, DESCRIBE:						

K. WORK CHARACTERISTICS AND ACTIVITIES, CONTINUED:

		ARCUND	PERIOD OCC	URRED ARC	UND INDEX (PREGNAMO
	CHARACTERISTIC/ACTIVITY	INDEX	-3-to-DOC		<u> Trim.#2</u>	Trim.
12.	While working, did you usually spend four or more hours of your work-day in any of the following activities?					
	a. Walking?	[2] -Yes	2	. 2	2	2
	•	[1] -No	1	1	1	1
	b. Standing (not walking)?	[2] - Yes	2	2	2	2
		[1] -No	1	1	1	1
	c. Working with a VDT (computer monitor)?	[2] - Yes	2	2	2	2
		[1] -No	1	1	1	1
	d. Working on tasks requiring the same movements	[2] -Yes	2	2	2	•
	over and over (repetitive)?	[1] -No	1	1	1	1
13.	Did your work involve any of the following activites?					
	a. Heavy physical exertion (lifting, pushing,	[2] -Yes	2	2	2	2
	etc.)?	[1] -No	1	1	1	1
	If any, DESCRIBE:					
	b. Exposure to any hazardous (or dangerous)	(2) -Yes	2	2	2	2
	substances, chemicals, or radiation?	[1] -No	1	1	1	1
	If exposed, DESCRIBE the types of substances:					
	c. Administering or preparing chemotherapeutic	[2] -Yes	2	2	2	2
	agents?	[1] -No	1	1	1	1
	d. Exposure to anesthetic gases?	[2] -Yes [1] -No	2 1	2	2	2
		F13-WG	Ĭ	1	1	1
	•					
	e. Exposure to high-voltage electrical currents or power lines?	[2] - Yes	2	2	2	2
	,	[1] -No	1	1	1	1

If exposed, DESCRIBE:

L. SPECIFIC TYPES OF EXPOSURES:

Now, we would like to know if you were exposed to any of the following substances (either during your work activities or from another worker's activities) around the time you were pregnant with DNOIS).

•	ARCUMD	PERIOD OCC	URRED ARO	UND INDEX	PREGNANCY
SURSTANCE OF EXPOSURE	INDEX	-3-to-DOC		<u> Trim.#2</u>	Trim.#3
1. Metals or metal compounds (e.g., lead, mercury,	[2] -Yes	2	2	2	2
nickel, cadmium chromium, arsenic)?	[1] -No	1	1	1	1
If yes, DESCRIBE:					
2. Particular chemicals?					
If yes to any below, DESCRIBE:					
a. Drugs or pharmaceuticals?	[2] -Yes	2	2	2	2
	[1] -No	1	1	1	1
b. Chemicals used to develop film?	[2] -Yes	2	2	2	2
	[1] -No	1	1	1	1
c. Hair dyes?	[2] -Yes	2	2	2	2
c. Hair dyes?	[1] -No	1	1	1	1
d Balantas duna	£79 V	•	•	•	•
d. Printing dyes?	[2] -Yes [1] -No	2 1	2 1	2 1	2 1
	נון אט	•	•	•	•
e. Fabric/yarn (textile) dyes?	[2] -Yes	2	2	2	2
	[1] -No	1	1	1	1
f. Other dyes?	[2] -Yes	2	2	2	2
	[1] -No	1	1	1	1
g. Grease or oils (e.g., cutting oil,	[2] -Yes	2	2	2	2
creosote)?	[1]-No	1	1	1	1
h. Solvents (to dissolve oil, etc. or	[2] -Yes	2	2	2	2
lubricate/soften)?	[1] -No	1	1	1	1
i. Chemicals used to make rubber or plastic?	[2] -Yes	2	2	2	2
	[1] -No	1	1	1	1
j. Chemicals used to control insects	[2] -Yes	2	2	2	2
(insecticides)?	[1] -No	1	1	1	1
k. Chemicals used to control fungi	[2] - Yes	2	2	2	2
(fungicides)?	[1] -No	1	1	1	1
l. Chemicals used to control rodents	(2) -Yes	2	2	2	2
(rodenticide)?	[1] -No	1	1	1	1
m. Chemicals used to control plants/pests	[2] -Yes	2	2	2	2
(herbicides)?	[1] -No	1	1	1	1
n. Chemical fertilizers?	(2) -Yes	2	2	2	2
	[1] -No	1	1	1	1
		•			

L. SPECIFIC TYPES OF EXPOSURES, CONTINUED:

	ARCUMD	PERIOD OCCURRED AROUND INDEX PREGNANCI				
SUBSTANCE OF EXPOSURE	INDEX	-3-to-DOC		Trim.#2	Trim.#	
o. Wood preservatives?	[2] -Yes	2	2	2	2	
	[1] -No	1	1	1	1	
p. Stains, varnishes, or other wood finishes?	[2] -Yes	2	2	2	2	
•	[1] -No	1	1	1		
	(12 110	•	•	'	1	
q. Paint, paint products, or paint thinners?	[2] -Yes	2	2	2	2	
	[1] -No	1	1	1	1	
3. Any other chemicals or chemical products?	[2] -Yes	2	2	2	2	
	[1] -No	1	1	1	1	
If yes, DESCRIBE:			•	•	Į	
4. Natural gas, gasoline, or fuel products?	[2] -Yes	2	•	_	_	
•	[1] -No	1	2	2	2	
If yes, DESCRIBE:	£13-NO	ı	ı	1	1	
5. Sand, stone, glass, clay, or pottery?	(2) -Yes	2	•	_	_	
, , , , , , , , , , , , , , , , , , ,	(1) - No	2	2	2	2	
If yes, DESCRIBE:	£13-NO	1	1	1	1	
c. Chemicals used to sterilize instruments?	P33 M.	_	_			
and the second trace the strength of	[2] -Yes	2	2	2	2	
If yes, DESCRIBE:	[1] -No	1	1	1	1	
7. Rediation?						
a. X-rays?	[2] -Yes	•		_		
·	[1] - No	2	2	2	2	
	[1] -MO	1	1	1	1	
b. Fluoroscopy?	[2] •Yes	2	2	2	2	
	[1] -No	1	1	1	2 1	
c. Radioisotopes?	[2] -Yes	•	_	_		
•	[1] - No	2	2	2	2	
	f t] -NO	1	1	1	1	
d. Atomic/nuclear fuel?	[2] -Yes	2	2	2	2	
	[1] -No	1	1	1	1	
e. Radar?	[2] -Yes	2	•	_	_	
	[1] -No	1	2	2	2	
	C12 NO	1	1	1	1	
f. Microwaves?	[2] -Yes	2	2	2	2	
	[1] -No	1	1	1	1	
g. Ultrasound?	(2) -Yes	2	2	•	•	
	[1] -No	1	1	2	2	
		•	•	1	1	
Photocopy or Xerox machines?	[2] -Yes	2	2	2	2	
	[1] -No	1	1	1	1	

M. CHARACTERISTICS OF THE HOPE ENVIRONMENT THROUGHOUT THE INDEX PREGNANCY:

Now, I'd like to ask you some questions about characteristics of the home environment(s) where you lived around the time you were pregnant with DADIED. These characteristics will refer to all of the locations you may have lived in during the period that began with the 3 months just before you become pregnant and ended on DODIED.

		ARCLIND	PERIOD CCC	urred ard	ND INDEX:	PREGNANCY	
ᅄ	WACTERISTIC/ACTIVITY	INDEX	-3-to-DOC		Trim.#2	Irim.#3	
1.	Did you frequently use any of the following as						
	sources of heat?						
	a. Wood (wood stove)?	(Z) -Yes	2	2	2	2	- Yes
		[1] -No	1	1	1	1	- No
		(9) -Unk	9	9	9	9	- Unknown
	h Kananana (annan hanban)		_	_	_	_	
	b. Kerosene (space heater)?	(2) -Yes	2	2	2		- Yes
		[1] -No	1	1	1		- No
		(9) -Unk	9	9	9	9	- Unknown
	c. Gas stove/oven?	(2) -Yes	2	2	2	2	- Yes
		[1] -No	1	1	1		- No
		[9] -Unk	9	9	9	-	- Unknown
						•	
2.	Did you use a gas stove or an indoor gas	[2] -Yes	2	2	2	2	- Yes
	grill for cooking?	[1] -No	1	1	1	1	- No
		[9]-Unk	9	9	9	9	- Unknown
3.	Did your home's water supply come from						
	a. a public water system?	[2] -Yes	2	2	2	2	· Yes
		(1) -No	1	1	1	1 .	- No
		(9] -Unk	9	9	9	9	- Unknown
	b. a household well?	[2] -Yes	2	2		-	
		[1]-No	1	1	. 5		· Yes
	•	[9]-Unk	9	9	1 9	•	- No
	,	(7) -UK	•	7	7	y .	- Unknown
	c. same other source?	[2] -Yes	Ź	2	2	2 .	- Yes
		(1) -No	1	1	1	-	· No
	If yes, SPECIFY:	(9) -Unk	9	9	9	9 .	- Unknown
	d. Whom did you pay for your home's water (company, city, etc.)?						
	e. Was a water filter used in your home?	[2] -Yes	2	2	2	2 -	Yes
		[1] -No	1	1	1	1 .	No.
		(9) -Unk	9	9	9	9 -	Unknown
	If yes, was it located on the tap?						
		(2) -Yes	2	2	2		Yes
		[1] -No	1	1	1	1 -	No
		[9]-Unk	9	9	9	9 -	Unknown
	If yes, do you know what type and make of filter was used?				· · · · · · · · · · · · · · · · · · ·		
4.	For cooking, did you use						
	a. Plain tap water from your home's water	(2) -Yes	2	2	2	2 -	Yes
	supply?	[1] -No	1	1	1	1 -	Но
	•	(9) -Unk	9	9	9	9 -	Unknown
	•						

N. CHARACTERISTICS OF THE HOPE ENVIRONMENT THROUGHOUT THE INDEX PRESERVICY, CONTINUED:

WARDERSTEACHTIVITY		•	ARCUND	PERIOD CCC	LERED ARC	IND INDEX	PREDVAICY	
C. Bottled water/cooler? 121-Yes 2 2 2 2 2 2 2 2 1 1	HARAC	TERISTIC/ACTIVITY	INDEX	-3-to-00C	<u>Trim#1</u>	Trim_#2	Trim.#3	
C. Bottled water/cooler? 121-Yes 2 2 2 2 2 - Yes 111-No 1 1 1 1 1 1 No 151-Wick 9 9 9 9 9 - Unknown For drinking, did you use a. Plain top water from your home's water 121-Yes 2 2 2 2 2 Yes supply?	b.	Filtered tap water from your home's water	(2) -Yes	2	2	2	2	- Yes
C. Bottled water/cooler? 12] -Yes 2 2 2 2 2 - Yes		supply?	[1] -No	1	1	1	1	- No
Filtered tap sater from your home's sater 121-Yes 2 2 2 2 2 2 2 2 2			[9] -Unk	9	9	9	9	- Unknown
For drinking, did you use	c.	Bottled water/cooler?	[2] -Yes	2	2	2	2	- Yes
## Production was assets from your home's water 121-Yes 2 2 2 2 2 1/Yes 2 2 2 2 1/Yes 2 2 2 2 1/Yes 2 2 2 2 1/Yes 2 2 2 2 1/Yes 2			[1] -No	1	1	1	1	- No
a. Plain tap water from your home's water supply? 111-No			[9] -Unk	9	9	9	9	- Unknown
11-No	. Fa	r drinking, did you use						
191-trik 9 9 9 9 9 1-thrown	a,	Plain tap water from your home's water	[2] -Yes	2	2	2	2	- Yes
b. Filtered tap water from your home's water supply? Column		supply?	[1] -No	1	1	1	1	- No
C13-No			(9) -Unk	9	9	. 9	9	- Unknown
C13-No	b.	Filtered tap water from your home's water	[2] -Yes	2	2	2	2	- Yes
C. Bottled water/cooler? (2] -Yes 2 2 2 2 2 2 7 Yes [1] -No 1 1 1 1 1 No [9] -Unkrown d. [I] USED FILTERED OR BOTTLED WATER FOR COOKING OR DRINKING] Why didn't you always use plain top water? e. At home, about how many glasses or cups of water or odd to you drink each day? This should include any beverages made from concentrate. [DO NOT INCLIDE BEVERACES MIDE FROM BOTTLED WATER] by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 f. At home, about how many glasses or cups of hot beverages made from plain or filtered top water did you drink each day? This should include any beverages made such as coffee or tea. [DO NOT INCLIDE BEVERACES MIDE FROM BOTTLED WATER] by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 for bathing, a. Which did you take more frequently, showers or baths? [2]-Sh. 2 2 2 2 2 Showers or baths? [1]-Ba. 1 1 1 1 Baths [9]-Unknown by trimester supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath? [7]-Unk 9 9 9 9 9 - Unknown by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5		- · · · · · · · · · · · · · · · · · · ·					_	
ITI-No 1 1 1 1 1 1 No ITI-No 1 1 1 1 1 1 No ITI-No 9 9 9 9 9 9 - Unknown d. LIF USED FILTERED OR BOTTLED WATER FOR COOKING OR DRINKING] Why didn't you always use plain tap water? e. At home, about how many glasses or cups of water or cold beverages made from plain or filtered tap water did you drink each day? This should include any beverages made from concentrate. DO NOT INCLIDE BEVERAGES MODE FROM BOTTLED WATER] by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. DO NOT INCLIDE BEVERAGES MODE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 for bathing, a. Which did you take more frequently, showers or baths? C2-sh. 2 2 2 2 2 Showers (7)-Unk 9 9 9 9 Unknown b. Now many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath?		- Appendix		•	•	•	•	
ITI-No 1 1 1 1 1 1 No ITI-No 1 1 1 1 1 1 No ITI-No 9 9 9 9 9 9 - Unknown d. LIF USED FILTERED OR BOTTLED WATER FOR COOKING OR DRINKING] Why didn't you always use plain tap water? e. At home, about how many glasses or cups of water or cold beverages made from plain or filtered tap water did you drink each day? This should include any beverages made from concentrate. DO NOT INCLIDE BEVERAGES MODE FROM BOTTLED WATER] by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. DO NOT INCLIDE BEVERAGES MODE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 for bathing, a. Which did you take more frequently, showers or baths? C2-sh. 2 2 2 2 2 Showers (7)-Unk 9 9 9 9 Unknown b. Now many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath?	_	Report and automatical and	*** 14		_	_	_	
d. (If USED FILTERED OR BUTTLED WATER FOR COCKING OR DRINKING) My didn't you always use plain top water? e. At home, about how many glasses or cups of water or cold beverages made from plain or filtered top water did you drink each day? This should include any beverages made from concentrate. (DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#I Trim.#Z Trim.#S f. At home, about how many glasses or cups of hot beverages made from plain or filtered top water did you drink each day? This should include any beverages made such as coffee or tea. (DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#I Trim.#Z Trim.#S For bathing, a. Which did you take more frequently, showers or baths? C2-Sh. 2 2 2 2 2 5 Showers (9)-Unk 9 9 9 9 9 Unknown b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#I Trim.#Z Trim.#S C. How many minutes did you usually stay in the shower or bath? Minutes per shower/bo	С,	Bottled Water/cooler?					_	
d. (IF USED FILTERED OR BOTTLED WATER FOR COCKING OR DRINKING! Mry dich't you always use plain tap water? e. At home, about how many glasses or cups of water or cold beverages made from plain or fittered tap water did you drink each day? This should include any beverages made from concentrate. (DO NOT INCLIDE SEVERAGES MADE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 f. At home, about how many glasses or cups of hot beverages made from plain or fittered tap water did you drink each day? This should include any beverages made such as coffee or tea. (DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 For bathing, a. Which did you take more frequently, showers or baths? C21-Sh. 2 2 2 2 2 Showers (Y31-Ba. 1 1 1 1 1 Baths (Y31-Unk 9 9 9 9 9 - Unknown) b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 c. How many minutes did you usually stay in the shower or bath?				•	•	•	•	- No
COCKING OR DRIMKING) thy didn't you always use plain tap water? e. At home, about how many glasses or cups of water or cold beverages made from plain or filtered tap water did you drink each day? This should include any beverages made from concentrate. DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER! by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. [DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER! by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 For bathing, a. Which did you take more frequently, showers or baths? CI-Sh. 2 2 2 2 5 Showers or baths? For bathing, b. Which did you take more frequently, showers or baths? CI-Sh. 2 2 2 2 5 Showers (1)-Ba. 1 1 1 1 - Baths (9)-Unknown b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath?			[9] -Unk	9	9	9	9	- Unknown
e. At home, about how many glasses or cups of water or cold beverages made from plain or filtered tap water did you drink each day? This should include any beverages made from concentrate. (DO NOT INCLIDE BEVERACES MADE FROM BOTTLED WATER) f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. (DO NOT INCLIDE BEVERACES MADE FROM BOTTLED WATER) for bathing, a. Which did you take more frequently, showers or baths? b. How many times a week did you take a shower or bath with your home's water supply? c. How many minutes did you usually stay in the shower or bath? Hinters per shower/or bath? c. How many minutes did you usually stay in the shower or bath? HINTERS PER SHOWER FROM BOTTLED WATER IN Trim.#3 - Number per week by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 - Number per week	d.	(IF USED FILTERED OR BUTTLED WATER FOR						
e. At home, about how many glasses or cups of water or cold beverages made from plain or filtered tap water did you drink each day? This should include any beverages made from concentrate. (DO NOT INCLIDE BEVERACES MADE FROM BOTTLED WATER)		COOKING OR DRINKING Why didn't						
water or cold beverages made from plain or filtered tap water did you drink each day? This should include any beverages made from concentrate. DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER! f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER! by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 For bathing, a. Which did you take more frequently, showers or baths? CI-Sh. 2 2 2 2 Showers or baths? [1]-Ba. 1 1 1 1 Baths [9]-Unk 9 9 9 9 Unknown b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath?		you always use plain tap water?						
BEVERAGES MADE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER) by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 For bathing, a. Which did you take more frequently, showers or baths? [1]-Ba. 1 1 1 1 Baths [9]-Unk 9 9 9 9 - Unknown b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath? Minutes per	e.	water or <u>cold</u> beverages made from plain or filtered tap water did you drink each day?						
f. At home, about how many glasses or cups of hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. [DO NOT INCLIDE				_	_	_	_	•
hot beverages made from plain or filtered tap water did you drink each day? This should include any beverages made such as coffee or tea. [DO NOT INCLIDE BEVERAGES MADE FROM BOTTLED WATER] by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 For bathing, a. Which did you take more frequently, showers or baths? [2]-Sh. 2 2 2 2 5 Showers [1]-Ba. 1 1 1 1 1 Baths [9]-Unk 9 9 9 9 - Unknown b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#5 c. How many minutes did you usually stay in the shower or bath?			by trimester	-3-to-000	Trim.#1	Trim.#2	Trim.#3	·
by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 For bathing, a. Which did you take more frequently, showers or baths? D. How many times a week did you take a shower or bath with your home's water supply? C. How many minutes did you usually stay in the shower or bath? D. How many minutes did you usually stay in the shower or bath? D. How many minutes did you usually stay in the shower or bath? D. How many minutes did you usually stay in the shower or bath? D. How many minutes did you usually stay in the shower or bath? D. How many minutes did you usually stay in the shower or bath? D. How many minutes did you usually stay in the shower or bath?	f.	<u>hot</u> beverages made from plain or filtered tap water did you drink each day? This should include <u>any</u> beverages made						- Number ner
For bathing, a. Which did you take more frequently, showers or baths? [1]-Ba. 1 1 1 1 - Baths [9]-Unk 9 9 9 9 - Unknown b. How many times a week did you take a shower or bath with your home's water supply? c. How many minutes did you usually stay in the shower or bath?				_	-	_	_	
a. Which did you take more frequently, showers or baths? C2 -Sh. 2 2 2 2 2 3 5 5 5 5 5 5 5 5 5			by trimester	-3-to-DOC	Trim.#1	Trim.#2	Trim.#3	
or baths? [1]-Ba. 1 1 1 1 - Baths [9]-Unk 9 9 9 9 - Unknown b. How many times a week did you take a shower or bath with your home's water Number per supply? c. How many minutes did you usually stay in the shower or bath? [1]-Ba. 1 1 1 1 - Baths [9]-Unk 9 9 9 9 - Unknown Number per Week	. Fo	r bathing,						
or baths? [1]-Ba. 1 1 1 1 - Baths [9]-Unk 9 9 9 9 - Unknown b. How many times a week did you take a shower or bath with your home's water supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 c. How many minutes did you usually stay in the shower or bath?	8.	Which did you take more frequently, showers	(2) -Sh.	2	2	2	2	· Showers
b. How many times a week did you take a shower or bath with your home's water supply? c. How many minutes did you usually stay in the shower or bath? [9]-Unk 9 9 9 9 - Unknown		or baths?	(1) -Ba.	1	1			
or bath with your home's water Number per supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 c. How many minutes did you usually stay in the shower or bath? Minutes per shower/bath?			(9) -Unk	9	9	9		
or bath with your home's water Number per supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 c. How many minutes did you usually stay in the shower or bath? Minutes per shower/bath?	b.	HOW many times a week did you take a shower						
supply? by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 c. How many minutes did you usually stay in the shower or bath? - Minutes per shower/ba								- Mighan nan
by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3 c. How many minutes did you usually stay in the shower or bath? Minutes per shower/bath.		-		-	_	_	_	
the shower or bath? Minutes per shower/ba		order 2.1	by trimester	-3- to-000	Trim.#1	Trim.#2	Trim.#3	HEEK
shower/ba	c.							
		the shower or DBth?		-	_	_	_	 Minutes per shower/ba
			by trimester	-3-to-000	Trim.#1	Trim.#2	Trim.#3	

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M. CHARACTERISTICS OF THE HOME ENVIRONMENT THROUGHOUT THE INDEX PRESIDENCY, CONTINUED:

				ARCUND	PERIOD OC	OURRED ARC	THO INDEX	PREGNANCY	
머			STIC/ACTIVITY	INDEX	-3-to-000	Trim.#1	Trim.#2	Trim.#3	
	d	. Hou	many minutes did you usually stay in the bathroom after you bathed?		_	_	_	_	- Minutes per shower/bath
				by trimester	-3-to-DCC	Trim.#1	Trim.#2	Trim.#3	
	e	. Dic	d the bathroom remain steamy because	[2] -Yes	2	2	2	2	- Yes
			of poor ventilation?	[1] -No	1	1	1	1	- No
				(9) -Unk	9	9	9	9	- Unknown
7.	D	id ya.	usually wash dishes by hand?	[2] -Yes	2	2	2	2	- Yes
				[1] -No	1	1	1	1	- No
				[9] -Unk	9	9	9	9	- Unknown
8.	A	t work	, what kind of water did you drink?						
	a .	. Bot	tled water?		1	1	1	1	- Bottled
	b.	. Tap	water (water cooler)?		2	2	2	2	- Filtered
	C.	. Тар	water (plain)?		3	3	3	3	- Тар
	d.	. Oth	er, SPECIFY:		4	4	4	4	- Other
			For responses a, b, or d, Why didn't you drink the tap water?		9	9	9	9	- Unknown
	e.	d ir	Nork, about how many glasses or cups of ater or beverages made from this water id you drink each day? This should notuce any beverages made such as offee, tea, or others made from		_	_	_	_	- Number per day
		C	oncentrate.	by trimester	-3-to-000	Trim.#1	Trim.#2	Trim.#3	
9.	Но	w abo	ut some of the following changes or activities?						
	a.	Mov	ed into a different home?	[2] -Yes	2	2	2	2	· Yes
			ASK ONLY IF LOCATIONS AND DATES ARE	[1]-No	1	1	1	_	- No
			NOT ALREADY CLEAR.	(9) -Unk	9	9	9	-	- Unknown
	b.	Und	ertook household improvements or	[2] • Yes	2	2	2	2 .	· Yes
			renovetions?	[1]-No	1	1	1		· No
			If yes, CIRCLE BELOW OR SPECIFY:	[9]-Unk	9	9	9		Unknown
			you, amount below in Greater:						
			(1). Installed several drapes?	(2)-Yes	2	2	2	2 .	Yes
			(2). Installed carpets?	(2) -Yes	2	2	2	2 -	Yes
			(3) Installed paneling?	(Z)-Yes	2	2	2	2 -	Yes
			(4). Installed form insulation?	(2) -Yes	2	2	2	2 -	Yes
			(5). Other, SPECIFY:	[2] -Yes	2	2	2	2 -	Yes

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M. CHARACTERISTICS OF THE HOME ENVIRONMENT THROUGHOUT THE INDEX PREGNANCY, CONTINUED:

	ARCLIND	PERIOD CC	Curred arci	ad index f	REGIANCY	
CHARACTERISTIC/ACTIVITY	INDEX	<u>-3-to-000</u>	Trim.#1	<u>Trin.#2</u>	<u>Trim_#3</u>	
c. Used electric blankets or mattress pads?	[2] -Yes	2	2	2	2	- Yes
	[1] -No	1	1	1	1	- No
	[9] -Unk	9	9	9	9	- Unknown
d. Used a rug shampoo/cleaner for entire areas	(2) -Yes	2	2	2	2	- Yes
of carpeting, not just for isolated spots?	(1] -No	1	1	1	1	- No
	[9] -Unik	9	9	9	9	- Unknown
e. Used oil-based paint/varnish/thinner/	[2] -Yes	2	2	2	2	• Yes
stripper?	[1] -No	1	1	1	1	- No
	(9) -Unk	9	9	9	9	- Unknown
f. Kad your hair straightened, permed,	[2] -Yes	2	2	2	2	- Yes
colored, or dyed or did any of these to	[1] -No	1	1	1	1	- No
someone else's hair?	[9] -Unk	9	9	9		- Unknown
10. Were any pesticides used inside your home?	[2] -Yes	2	2	2	2	· Yes
If yes, SPECIFY which:	[1] -No	1	1	1		- No
	[9] -Unk	9	9	9		- Unknown
 a. Who applied any treatments above (self, other household members, commercial firm, etc.)? 						
b. Was your home treated by a professional	[2]-Yes	2	2	2	2 .	· Yes
exterminator on a regular basis?	[1] -No	1	1	1	-	· No
•	[9] -Urk	9	9	9	=	· Unknown
c. Was your home treated for termites?	[2] -Yes	2	2	2	2 .	Yes
	[1] -No	1	1	1		· No
	(9) -Unk	9	9	9		Unknown
d. Was your home treated for ants, roaches, or	(2) -Yes	2	2	2	2 .	Yes
other insects?	[1] -No	1	1	1	1 -	No
	[9] -Unk	9	9	9	_	Unknown
e. Did you use mothballs, air freshners, or	(2) -Yes	2	2	2	2 -	Yes
disinfectants (e.g., Lysol)?	[1]-No	1	1	1		No
	[9] -Unk	9	9	9		Unknown
f. Did you own or have frequent contact with	[2] -Yes	2	2	2	2 -	Yes
any pets?	[1] -No	1	1	1		No
If yes, SPECIFY:	(9) -Unk	9	9	9		Unknown
g. Did any pets wear flee collars?	[2] -Yes	2	2	2	2 -	Yes
	[1] -No	1	1	1	1 .	No
	[9] -Unik	9	9	9		Unknown
h. Were any pets treated for fleas or ticks	(2) -Yes	2	2	2	2 .	Yes
with powders or sprays?	[1] -No	1	1	1		No
	[9] -Unik	9	9	9	~	Unknown
11. Were any lawn care products applied to your yard?	[2] - Yes	2	2	2	2 .	Yes
	[1] -No	1	1	1		No
If yes, SPECIFY which:	[9]-Unk	9	9	9	9 -	Unkhown

M. CHARACTERISTICS OF THE HOPE ENVIRONMENT THROUGHOUT THE INDEX PREGNANCY, CONTINUED:

	ACTERISTIC/ACTIVITY	ARCIAD	PERIOD OCC		_		
	Did you use any fertilizers or pesticides on your	INDEX	<u>-3-to-DCC</u>		Trim.#2	Trin.#	·
	own garden at home?	[2] - Yes	2	2	2	2	- Yes
		[1] -No	1	1	1	1	- No
	If yes, SPECIFY which:	[9] -Unk	9	9	9	9	- Unknown
17 1	Ned						
13. L	Did you eat fruits or vegetables from your	[2] -Yes	2	2	2	2	- Yes
	own garden at home?	(1) -No	1	1	.1	1	- No
		(9) -Unk	9	9	9	9	- Unknown
14. 0	olid trucks or planes spray for mosquitoes or	[2] -Yes	2	2	2	2	- Yes
	insects around where you Lived?	[1] -No	1	1	1	1	- No
		[9] -Unk	9	9	9	9	- Unknown
15. W	les the soil in your yard or garden ever	[2] -Yes	2	2	•	_	
	tested for problems (e.g., metals)?	[1] -No	1		2	2	- Yes
	Ever: [2]-Yes [1]-No [9]-Unknown	[列-Unk	9	1 9	1 9	1 9	- No - Unknown
	If yes, SPECIFY tests, dates, results:					•	
16. H	ave you or anyone else in your home ever had a	F21 - Von	3	,	_	-	
	blood test for lead or any other metal?	[2] -Yes	2	2	2	2	- Yes
	Ever: [2]-Yes [1]-No [9]-Unknown	[1]-No	1	1	1	1	- No
		[9] -Unk	9	9	9	9	- Unknown
	If yes, SPECIFY whom, when, results:						
i7. D:	uring the time around your pregnancy, were	(2)-Yes	2	2	2	2	- Vac
	you ever within one-half mile of a landfill	[1]-No	1	1	1	_	- Yes
	or a dump?	[9]-Unk	9	9	9	_	- No
	If yes, SPECIFY sites, dates,	73 GK	7	7	y .	9	- Unknown
	distance from site, etc.:						
a,	. If within one-half mile of a cump, were you	(2) - Yes	2	,	3	•	
	ever actually right on the site?	[1]-No	1	2	2		· Yes ·
	• · · · · · · · · · · · · · · · · · · ·	[1]-110 [9]-Unk	9	1	1	_	- No
	If yes, SPECIFY what did:	(3) *UNK	y	9	9	9 .	- Unknown
ь	If within one-half mile of a dump, were there	-	_				
٠.	any noticeable odors?	(2) -Yes	2	2	2	2 -	Yes
	any increasing course	[1] -No	1	1	1	1 .	No
		(9) -Unk	9	9	9	9 -	Unknown
c.	If within one-half mile of a dump, did you	[2] • Yes	2	2	2	2 -	Yes
	have any contact with soil from the site?	[1] -No	1	1	1	_	No
		[9]-Unk	9	9	9		Unknown
d.	If within one-half mile of a dump, did you	[2] -Yes	2	2	2	2	Van
	have any contact with water from or on the	[1]-No	1	1		_	Yes
	site?	[9] -Unk	9	9	1 9 .	_	No Unknown
3. In	the places you lived in during the time					•	,
-	around your pregnancy.						
a.	Were there any facilities (e.g., industries,	[2] -Yes	2	2	2	2 -	Yes
	incinerators, gas stations, dry cleaners, or	[1] -No	1	1	1	1 -	41-
	dumps) that emitted odors strong enough to	•.•	•	•	•		No

M. CHARACTERISTICS OF THE HOME ENVIRONMENT THROUGHOUT THE INDEX PREGNANCY, CONTINUED:

		ARCLAD	PERIOD CCC	LRRED ARC	und index i	PREGNANCY	
<u> </u>	ARACTERISTIC/ACTIVITY	INDEX	-3-to-000		Trim.#2	Trim.#3	
	If yes, SPECIFY names and types:						
	b. Did the air in your neighborhood often have a	n (2)-Yes	2	2	2	2	- Yes
	unusual/unpleasant odor?	[1] -No	1	1	1		- No
	If yes, DESCRIBE strength, cause, etc.:	(9) -Unk	9	9	9	·	- Unknown
	c. How many times a week did you notice an unusual/unpleasant odor?		-	_	-	-	- Number per week
		by trimester	-3-to-DOC	Trim.#i	Trim.#2	Trim.#3	
	d. Did you ever feel ill or sick because of the	[2] - Yes	2	2	2	2	• Yes
	air in your neighborhood?	[1] -No	1	1	1	_	- No
	If yes, DESCRIBE symptoms, etc.:	(9) -Unk	9	9	9	•	- Unionavin
	e. Did the tap water in your neighborhood often	PR v.s	•	_	_	_	
	have an unusual/unpleasant taste or smell?	[2] - Yes	2	2	2		- Yes
	nove an dissast/diptessant taste or signt?	[1] -No	1	1	1		- No
	If yes, DESCRIBE:	[9] -Unk	9	9	9	9	- Unknown
	f Herrman times a makedid						
	f. How many times a week did you notice an unusual/unpleasant taste or smell?		_	_	-	_	 Nurber per week
		by trimester	-3-to-DOC	Trim.#1	Trim.#2	Trim.#3	MOCK
	g. Did you ever feel ill or sick because of the	[2] -Yes	2	2	2	2	• Yes
	tap water in your neighborhood?	(1) -No	1	1	1		· No
	If yes, DESCRIBE symptoms, etc.:	(9) -Unk	9	9	9		- Unknown
40							
19.	Were any of the homes you ever lived in tested	(2) -Yes	2	2	2	2	- Yes
	for rador?	[1]-No	1	1	1	1 -	- No
	Ever: (2)-Yes (1)-No (9)-Unknown	[9]-Unk	9	9	9	9	· Unknown
	If yes, SPECIFY tests, dates, results:						
20.	Were there other sources of chemicals in your	[2] -Yes	2	2	2	2 .	· Yes
	home's indoor air that we haven't mentioned?	[1]-No	1	1	1		- 1es - No
		(9) -Unk	9	9	9	_	· Unknown
	If yes, DESCRIBE				·	•	
21.	Were there other sources of chemical substances	(2) • Yes	2	2	2	2	Von
	in the immediate neighborhood right around	[1] -No	1	1	1		·Yes ·No
	your home that we haven't mentioned?	[9] -Unk	9	9	9	•	· No · Unknown
	If yes, DESCRIBE						,
22.	Were there electrical high tension wires within	[2] -Yes	2	2	2	2 -	Yes
	300 feet of your home or property?	[1] -No	1	1	1	1 -	No
		[9] -Unk	9	9	9	9 -	Unknown
۳.	Compared to other nearby communities like yours, h	ow much polluti	ion do you t	hink then	e is in you	ur toun?	
		out the same -		shat more		Auch more	[9] -Unknown
24.	How likely do you feel it is that you or your fami with a pollution problem such as a toxic waste s	ly might experi	ience some s	erious he	alth proble	ems if you	lived in an are
	[1]-Very unlikely [2]-Somewhat unlikely [3]-So		rator, etc.? [4]•Very		(€1 -1	Jnknown	
	. ,	·	173 YEI Y		(7) -(~ PV 1-24E)	

20

N. HOBBIES, ARTS, CRAFTS, AND RECREATIONAL ACTIVITIES THROUGHOUT THE INDEX PREGNANCY:

This section about hobbies, arts, crafts, and recreational activities is somewhat similar to the questions about your home environment. We'll talk about some of your leisure-time activities around the time you were pregnant with DIDIBI, during the period that began with the 3 months just before you became pregnant and ended on DIDIBI.

		ARCLIED	PERIOD CCC	URRED ARD	LIND INDEX	PREGNANC	Y
HC	BBIES/ARTS/CRAFTS/RECREATIONAL ACTIVITIES	INDEX	<u>-3-to-bac</u>	<u>Trim.#1</u>	Trim.#2	Trim#	3
1.	Did you participate in any hobbies that might	[2] -Yes	2	2	2	•	v
	involve chemicals (e.g., developing or printing	[1]-No	1	1		2	- Yes
	photos, ceramics, auto repair, etc.)?	[9]-No	9	•	1	1	- No
	provide an armony cases repair ; decrys	D)-UK	y	9	9	9	- Unionown
	If yes, DESCRIBE:						
2.	Were any hobbies that might involve chemicals	[2] -Yes	2	2	2	2	- Yes
	done in the living area of your home by someone	[1] -No	1	1	1	-	- No
	else?	191 - Unk	9	9	9	9	- NO - Unknown
	If yes, DESCRIBE:						
3.	While you were pregnant, did you swim or wade?	(2) -Yes	2	2	2	2	• Yes
		[1] -No	1	1	1	1	- No
		(9) - Unk	9	9	9	9	- Unknown
	If yes, SPECIFY where, when, and frequency:				·	•	u to ba i
4.	While you were pregnant, did you eat any fish or	[2] -Yes	2	2	2	2	• Yes
	shellfish from a nearby river, lake, or	[1] -No	1	1	1	1	• No
	stream?	(9] -Unk	9	9	9	'	
		173 GK	7	7	¥	9	- Unknown

If yes, SPECIFY where and when:

O. FOOD, ALCOHOL, AND TOBACCO CONSUMPTION THROUGHOUT THE INDEX PREGNANCY:

Our next set of questions deal with your consumption of food and alcohol from [-3] to [DOIR], around the time you were programt with _______ DDIR]. For alcohol use, we are specifically interested in beer, wine, wine coolers, and hard liquor.

		ARCUAD	PERIOD COLLEGED AROUND INDEX PREGNANCY				
ङ्गाव	N	INDEX	<u>-3-to-000</u>	<u>Trim.#1</u>	<u> Trim,#2</u>	<u>Trim.#S</u>	
	A4 500 INA						
	ALCOHOL:		_	_			
	a. Did you have one or more drinks a week of	[2] -Yes	2	2	2	2	- Yes
	beer, wine, wine coolers, or hard liquor?	[1] -No	1	1	1	1	- No
		[9] -Unk	9	9	9	9	- Unknown
	b. How often did you drink?						
	Never?		1	1	1	1	- Never
	Less than once a week?		2	2	2	2	- < Weekly
	Once a week?		3	3	3	3	- Weekly
	Several times a week, not daily?		4	4	4	4	- Several/wee
	Daily?		5	5	5	5	- Daily
	Frequently more than once-a-day?		6	6	6	6	- Frequently
			9	9	9	9	- Unionown
(c. Around the time you became pregnant,	[2] •Yes	2	2	2	2	- Yes, reduce
	did you change the number of times a	[1] -No	1	1	1		- No, same
	week that you drank? When?	[9] -Unk	9	9	9		- Unknown/DNA
(d. How many days a week did you drink						- Days
	beer?				_	_	- Oays
	e. When you drank beer, how many cans or			_	_	_	- Cans/Glasse
	glasses did you usually have?						
1	f. How many days a week did you drink		_	_	_	_	- Days
	wine or wine coolers?	•					
9	g. When you drank wine or wine coolers, how		_		·	_	- Glasses
	many glasses did you usually have?						
ŀ	h. How many days a week did you drink	•	_		_		- Days
	hard liquor?			_	_	_	·
ŧ	i. When you drank hard liquor, how many						- Drinks
	drinks did you usually have?		_	_	_	_	
j	j. Where there ever occasions when you	(2) -Yes	2	2	2	2	- Yes
	had five or more drinks of beer, wine,	(1) -No	1	1	1	_	- No
	or hard liquor in one sitting?	(9) -Unk	9	9	9	•	- Unknown
					•		
	CAFFEINE:	_					
8	a. Did you drink caffeinated beverages	[2] -Yes	2	2	2	2	· Yes
	such as coffee, tea, or cola?	[1] -No	1	1	1	1 .	· No
	•	(9) -Unk	9	9	9	9 ·	- Unknown
t	b. Around the time you became pregnant,	(2) - Yes	2	2	2	2	· Yes, reduced
	did you change the amount of coffee	[1] -No	1	1	1		No, same
	that you drank? When?	(9) -Unk	9	9	9		- Unknown/DNA

O. FOOD AND ALCOHOL CONSUMPTION THROUGHOUT THE INDEX PREGRANCY, CONTINUED:

	•	ARCUND	PERIOD OCC	-			
CLESTION		INDEX	-3-to-000	<u>Trim.#1</u>	Trin.#2	Trim.#5	
c.	How many days a week did you drink coffee?		-	_	_		- Days
d.	When you drank coffee, how many cups did you usually have?		-	_	_ ·	_	- Cups
e.	Around the time you became pregnant,	[2] -Yes	2	2	2	2	- Yes, reduced
	did you change the amount of tea that you drank? When?	[1]-No [9]-Unk	1 9	1 9	1 9		- No, same - Unionoun
f.	Now many days a week did you drink caffeinated tea?		_	-	-	_	- Days
9.	When you drank caffeinated tea, how many cups did you usually have?		-		_	-	- Oups
h.	Around the time you became pregnant,	[2] -Yes	2	2	2	2	- Yes, reduced
	did you change the amount of cola that you drank? When?	(1) -No (9) -Unk	1 9	9	1 9		- No, same - Unionown/DNA
i.	Ном many days a week did you drink caffeinated colas?		_				- Days
j.	When you drank caffeinated colas, how many cans did you usually have?		_		-	_	- Cans/Glasses
3. FC	œ:						
a.	Thinking back over your pregnancy, was	[2] -Yes	2	2	2	2	- Yes
	a special diet recommended for you by	[1]-No	1	1	1	1	- No
	a physician/other health professional?	(9) - Unk	9	9	9	9	- Unknown
	If yes, SPECIFY:						
b.	If a diet was recommended, was it for	[2] -Yes	2	2	2	2	· Yes
	weight loss?	[1] -No	1	1	1		- No
	If no, SPECIFY reason(s):	[9] -Unk	9	9	9	9	- Unknown
c.	If a diet was recommended, how closely		1	1	1	1	- Not at all
	did you follow it?		2	2	2		- Seldom
			3	3	3		- Usually
	•		4	4	4		- Closely
	•		9	9	9		- Unknown/DNA
d.	Around the time you were pregnant,	[2] -Yes	2	2	2	2	- Yes
	did you modify your diet on your own?	[1] -No	1	1	1		- No
	•	[9] -Unk	9	9	9		- Unknown

If yes, SPECIFY modifications:

O. FOOD AND ALCOHOL CONSUMPTION THROUGHOUT THE INDEX PREGNANCY, CONTINUED:

			AROLAD	PERIOD OC	CURRED ARC	UND INDEX	PREGNANCY	
<u>alestio</u>	1		INDEX		Trim.#1	Trim.#2		
		Around the time you were pregnant,	170 V	•	•	_	_	
	€.	were you receiving food stamps?	(2)-Yes (1)-No	2 1	2	2	2	- Yes
		wife you receiving room staiper	[9]-Unk	9	1	1	1	- No
			(F)-UK	7	y	y	y	- Unknown
	f.	Around the time you were pregnant,	[2]-Yes	2	2	2	2	- Yes
		did you participate in the WIC program?	CM-[1]	1	1	1	1	- No
			(9)-Unk	9	9	9	9	- Unknown
4.	TO	RACCO:						
	a.	Did you use cigarettes, cigars, pipes,	[2] - Yes	2	2	2	2	• Yes
		snuff, or other tobacco products around	[1] -No	1	1	1	1	- No
		the time you were pregnant?	[9] -Unk	9	9	9	9	- Unknown
	ь.	If yes, around the time you became	(21 - Yes	2	2	2	2	- You make and
		pregnant, did you change the amount of	[1] -No	1	1	1		Yes, reducedNo, same
		smoking that you did? When?	[9]-Unk	9	9	9		- Unknown/DNA
	c.	If you smoked, how many days a week did you smoke digarettes?			—	-	-	- Cays
	d.	If you smoked cigarettes, how many a day did you usually have?		_	_	_	_	- Cigarettes
ı	e.	If you smoked cigarettes,						
		what brand?						
		what size?						
		filtered?						
	f.	Did anyone else regularly smoke in your	(2) -Yes	2	2	2	2 .	Yes
		hame when you were pregnant?	[1] -No	1	1	1	1 .	· No
		If yes, WHOM:	(9) -Unk	9	9	9	9 .	· Unknown
S		Throughout the entire day, including time at home and at work, how many hours a day were you exposed to smoking?						
		Hours?			_	_		Hours per day
			by trimester	-3-to-DO	Trim #1	Trim #2	Trim #3	

by trimester -3-to-DOC Trim.#1 Trim.#2 Trim.#3

P. STRESS:

Sometimes events can happen which cause stress in a person's life. I'm going to read a list of possible stressful events. Tell me if any of them happened to you between -3 and DOIB.

1.	A change in your job or type of work/job responsibilities?	[2] -Yes	[1]-No	[8]-No response	[9] -Unknown
2.	Your spouse/partner changed to a new line of work?	[2] -Yes	[1]-No	[8]-No response	[9] -Unknown
3.	Being laid off or fired from your job; trouble with your boss?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
4.	Your spouse/partner laid off or fired from work?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
5.	Your living conditions changed (e.g., you moved)?	[2] -Yes	[1] -No	(8)-No response	[9] -Unknown
6.	The addition of a new family member (excluding NOIB)?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
7.	You took out a mortgage or a loam?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
8.	You had financial problems?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
9.	Foreclosure on a mortgage or a loan?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
10.	A major change in the health or behavior of family members?	[2] -Yes	[1]-No	(8) -No response	[9] -Unknown
11.	Serious illness/accident (excluding complications of pregnancy)?	[2] -Yes	[1]-No	[8]-No response	[9] -Unknown
12.	In-law troubles?	[2] -Yes	[1] -No	(8)-No response	[9] -Unknown
13.	Major arguments with your spouse/partner/other significant person (e.g., mother)?	(2) -Yes	[1] -No	[8]-No response	[9] -Unknown
14.	Sexual problems?	[2] -Yes	[1] - Ko	[8] -No response	[9] -Unknown
15.	You or your spouse/partner were arrested?	[2] -Yes	[1]-No	[8]-No response	[9] -Unknown
16.	Assaulted or beaten up?	[2] -Yes	[1]-No	[8]-No response	(9) -Unknown
17.	Marriage/reconciliation with your spouse/partner?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
18.	Divorce or separation from your spouse/partner?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
19.	Death of your spouse/partner?	(2) -Yes	[1] -No	[8]-No response	[9] -Unknown
20.	Death of a close family member or close friend?	[2] -Yes	[1] -No	[8]-No response	[9] -Unknown
21.	Other stressful events between -3 and DOIB? SPECIFY:	[2] -Yes	[1] -No	(8]-No response	[9] -Unknown

22.	When	you found	out	that	you were	pregne	nt wit	h (NOIB)	, how did	you feel?	Would you say you	felt
		(2) - uabb	you	. were	pregnant?		2] -Not	happy, i	but you aco	cepted it?	[1] -Unhappy?	
						ι	8] - Ko	response	:		[9] -Unknown	

23. From -3 to DOIB, were you ever very depressed for several days? [2]-Yes [1]-No [8]-nr [9]-Unknown

24 Did your personality change a lot after you became pregnant? [2]-Yes [1]-No [8]-nr [9]-Unknown

Q. FAMILY INCOME:

	Finally, pregnanc	, let's ask about your family's sy:	ability to	obtain med	lical care	around the ti	ne of your
1.	When you fir	est found out you were pregnant wi	th	[NOIB],			
	a. What	was the total yearly income of y	our family,	before taxes:	?	s	-·
	ENTE	R AMOUNT AFTER PROBING.					
		How many wage earners were there	in the hous	ehold?			
		How often were they each paid?					
		How much did they take home?		· ···			
	b. How	many people were supported by thi	s income?	•			
	c. At t	that time, did you have any proble	ms paying me	dical and oth	ner bills?	[2] -Yes	(1) -No
	d. Were	e you unable to get medical help o	r treatment	when you need	ded them bec	ause of any fin	ancial
		difficulties?				[2]-Yes	[1] -No
		If yes, SPECIFY:					
	e. How	did you pay your medical bills?	Was it by				
		Blue Cross/Blue Shield?	[2] - Yes	[1] -No			
		Н40?	[2] -Yes	[1] -No			
		Medicaid?	[2] -Yes	[1]-No			
		Some other source?	[2] - Yes	[1] -No			
		SPECIFY:					
		Unable to pay bills at all?	[2] -Yes	[1] -No			
	f. At t	that time, were you receiving bene	fits from an	y of the foli	lowing progr	ams?	
		Social Security?	[2] -Yes	[1]-No			
		AFDC?	[2] -Yes	[1]-No			
		Local/general Welfare?	[2] - Yes	[1] -No			
		Unemployment Compensation?	[2] - Yes	[1]-No			

		•				
2.	Later,	when you gave birth to	NOIB],		•	
	a.	What was the total yearly income of	your family	, before taxes?	\$	
		ENTER AMOUNT AFTER PROBING.				
		How many wage earners were then	e in the hou	usehold?		
		How often were they each paid?				
		How much did they take home?				
	ъ.	How many people were supported by th	is income?			
	c.	At that time, did you have any proble	ems paying m	medical and other b	oills? [2]-Yes	[1] -No
	d.	Were you unable to get medical help	or treatment	when you needed t	hem because of any f	inancial
		difficulties?			[2] -Yes	[1] -No
		If yes, SPECIFY:				
	e.	How did you pay your medical bills?	Was it by			
		Blue Cross/Blue Shield?	[2] -Yes	[1] -No		
		NHO?	[2] -Yes	[1]-No		
		Medicaid?	[2] -Yes	[1] -No		
		Some other source?	[2] - Yes	[1] -No		
		SPECIFY:				
		Unable to pay bills at all?	[2] -Yes	[1] -No		
	τ.	At that time, were you receiving bend	efits from a	ny of the following	programs?	
		Social Security?	[2] - Yes	[1] - No		
		AFDC?	[2] - Yes	[1] -No		
		Ļocal/general Welfare?	(2)-Yes	[1] -No		
		Unemployment Compensation?	[2] -Yes	[1] -No		
		•				

Q. FAMILY INCOME, CONTINUED:

APPENDIX B

APPENDIX B

VARIABLES EVALUATED FOR INCLUSION

MOTHER'S AGE(1): < 23 (ref.), 23-27, 28-32, 33-35, > 35

MOTHER'S AGE(2): < 22 (ref.), 22-34, > 34

MOTHER'S HEIGHT: up to 5 feet (ref.), > 5 ft

MOTHER'S WEIGHT PRIOR

TO CONCEPTION: > 115 - 140 lbs (ref.), up to 115 lbs, > 140 lbs

MOTHER'S RACE: white (ref.), black, "other"

GRAVIDITY: 1 pregnancy (ref), 2-3 pregnancies, > 3 pregnancies

NULLIPAROUS: no (ref.), yes

PREVIOUS MISCARRIAGE: no (ref.), yes

PREVIOUS MISCARRIAGE OR STILLBIRTH: no (ref.), yes

INADEQUATE PRENATAL CARE*: no (ref.), yes

MOTHER'S EDUCATION LEVEL: not a high school graduate (ref.), high school graduate, college graduate

FATHER'S EDUCATION LEVEL: not a high school graduate (ref.), high school graduate, college graduate

FAMILY YEARLY INCOME: up to \$20,000 (ref.), > \$20,000 - \$30,000, > \$30,000 - \$40,000, > \$40,000

AFDC &/or GENERAL RELIEF &/or FAMILY YEARLY INCOME UP TO \$20,000 &/or FOOD STAMPS &/or MEDICAID: no (ref.), yes

AFDC &/or GENERAL RELIEF &/or FAMILY YEARLY INCOME UP TO \$30,000 &/or FOOD STAMPS &/or MEDICAID &/or SS &/or WIC: no (ref.), yes

MOTHER'S OCCUPATION (a year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): professional/supervisory except nurses (ref.), white collar including nurses, blue collar, student or not working

MOTHER WORKED (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

MOTHER WORKED WITH CHEMICALS (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

MOTHER'S WORK INVOLVED WORKING WITH CHEMICALS - chemotherapeutic agents; anesthetic gases; solvents; paints and thinners; chemicals used to produce rubber or plastic; grease or oil; film developers; chemicals used to sterilize instruments (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

MOTHER WORKED WITH PAINT, VARNISH, WOOD PRESERVATIVES, THINNERS (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

MOTHER WORKED WITH SOLVENTS (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

MOTHER WORKED WITH XRAYS, RADIOACTIVE MATERIALS, RADAR, ULTRASOUND (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

MOTHER'S EXPOSURE TO PHYSICAL STRESS ON THE JOB - noise; vibration; excessive heat or cold; repetitive assembly work; standing, walking or heavy exertion most of the workday (one year prior to conception, from 3 months before conception to month of conception, first trimester, during the pregnancy): no (ref.), yes

HOME IMPROVEMENTS (first trimester, later trimesters) - install drapes, carpet, paneling, foam insulation: no (ref.), yes

EXPOSURE TO PASSIVE SMOKE AT HOME (first trimester, later trimesters): no (ref.), yes

HOME PESTICIDE USE - professional or self/family member applications for termites, ants, roaches and other insects, lawn care (first trimester, later trimesters): no (ref.), yes

PETS WITH FLEA COLLARS OR FLEA/TICK TREATMENTS (first trimester, later trimesters): no (ref.), yes

USE OF MOTHBALLS, AIR FRESHNERS OR DISINFECTANTS (first trimester, later trimesters): no (ref.), yes

MOTHER'S HOBBIES INVOLVED USE OF CHEMICALS (first trimester, later trimesters): no (ref.), yes

MOTHER USED PAINTS/THINNERS IN THE HOME (first trimester, later trimesters): no (ref.), yes

MOTHER USED ELECTRIC BLANKET (first trimester, later trimesters): no (ref.), yes

MOTHER EXPOSED TO NEARBY TOXIC WASTE SITE - onsite, came in contact with soil or water from the site, smelled odors (first trimester, later trimesters): no (ref.), yes

MOTHER EXPOSED TO ODORS FROM INDUSTRIAL FACILITIES NEARBY - e.g., dry cleaners, gas stations, incinerators, factory (first trimester, later trimesters): no (ref.), yes

MATERNAL SMOKING (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

CIGARETTES/DAY(1) (3 months prior to conception to conception, first trimester, later trimesters): 0 (ref.), 1-9, 10-19, > 19

CIGARETTES/DAY(2) (3 months prior to conception to conception, first trimester, later trimesters): 0 (ref.), 1-5, 6-10, 11-20, > 20

MOTHER CONSUMED ALCOHOLIC BEVERAGES (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

MOTHER CONSUMED 5 OR MORE ALCOHOLIC BEVERAGES AT ONE SITTING (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

TOTAL AMOUNT OF ALCOHOLIC BEVERAGES CONSUMED IN A WEEK - glasses or bottles per day x days per week (3 months prior to conception to conception, first trimester, later trimesters):

0 (ref.), 1-5, 6-10, > 10.

NUMBER OF DAYS PER WEEK MOTHER CONSUMED ALCOHOLIC BEVERAGES (3 months prior to conception to conception, first trimester, later trimesters): 0 (ref.), 1, 2, 3-4, > 4

MOTHER CONSUMED CAFFEINATED BEVERAGES (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

TOTAL AMOUNT OF CAFFEINATED BEVERAGES CONSUMED PER DAY (3 months prior to conception to conception, first trimester, later trimesters): 0 (ref.), 1-2, 3-4, > 4

SPECIAL DIET WAS RECOMMENDED BY PHYSICIAN/HEALTH PROFESSIONAL (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

EMOTIONAL STRESS DURING PREGNANCY: no (ref.), "low" (job change, new mortgage/loan, move, marriage/reconciliation, addition of new family member besides newborn, other), "medium" (divorce/separated, sexual problems, major arguments with spouse/family, in-law troubles, fired/laid off, financial problems, foreclosure of mortgage/loan, major change in health or behavior of family member), "high" (assaulted/battered, arrested - you/spouse, death of close friend or family member, serious accident/illness)

HIGH FEVERS DURING PREGNANCY - includes chicken pox, hepatitis and flu (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

DIABETES WHILE PREGNANT: no (ref.), yes

EPILEPSY OR SEIZURES WHILE PREGNANT: no (ref.), yes

INFECTIONS WHILE PREGNANT - includes bladder, kidney, UTI, vaginal and cervical: no (ref.), yes

COMPATIBILITY PROBLEMS BETWEEN MOTHER'S AND CHILD'S BLOOD TYPE: no (ref.), yes

TOXEMIA OR PRE-ECLAMPSIA WHILE PREGNANT: no (ref.), yes

TAKE MEDICATIONS WHILE PREGNANT: no (ref.), yes

HIGH BLOOD PRESSURE (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

SERIOUS ACCIDENT/INJURY WHILE PREGNANT: no (ref.), yes

DENTAL OR OTHER XRAYS (3 months prior to conception to conception, first trimester, later trimesters): no (ref.), yes

USED ORAL CONTRACEPTIVE AROUND TIME OF CONCEPTION: no (ref.), yes

USED SPERMICIDE AROUND TIME OF CONCEPTION: no (ref.), yes

MOTHER HAD A BIRTH DEFECT: no (ref.), yes

FATHER HAD A BIRTH DEFECT: no (ref.), yes

MOTHER AND FATER RELATED BY BLOOD: no (ref.), yes

SEX OF THE CHILD

APPENDIX C

APPENDIX C

BIVARIATE ANALYSIS OF RISK FACTORS AND ADVERSE REPRODUCTIVE OUTCOMES

A. BIRTH DEFECT OUTCOMES

<u>VARIABLE</u>	NEU <u>OR</u>	RAL TUBE 95% CI	MAJO OR	R CARDIAC 95% CI	ORA <u>OR</u>	L CLEFT	
mother's age(1): < 23 23 - 27 28 - 32 33 - 35 > 35	0.55 0.35 0.57	0.19, 1.6 0.12, 1.0 0.17, 1.9 0.12, 2.5	1.01 0.93 0.86	0.37, 2.8 0.35, 2.5 0.27, 2.7 0.13, 2.8	1.03 1.12 0.37	0.36, 0.40, 0.08, 0.15,	3.1 1.6
mother's age(2): < 22 22 - 34 > 34	0.54	0.19, 1.6 0.06, 1.4	1.83	0.49, 6.8 0.24, 5.4	1.63		
mother's race: white black other	1.0 0.52	0.15, 1.9	1.52	0.67, 3.5 0.23, 7.4	0.54	0.17,	
gravidity: 1 2 - 3 > 3	0.41	0.18, 0.9 0.29, 2.3	0.97	0.46, 2.1 0.68, 4.4	1.12	0.52, 0.22,	
nulliparous; no yes	1.0	0.96, 4.3	1.0	0.44, 1.8	1.0 1.07	0.52,	2.2
previous miscarriage; no yes	1.0 0.67	0.27, 1.7	1.0 1.48	0.76, 2.9	1.0 0.84	0.39,	1.8
previous miscarriage or stillbirth: no yes	1.0	0.39, 2.1	1.0	0.73, 2.8	1.0 0.80	0.37,	1.7
inadequate prenatal care: no yes	1.0 1.36	0.49, 3.7	1.0 0.84	0.31, 2.3	1.0	0.87,	4.7

 $^{{}^{*}}$ 3 months prior to conception through the first trimester.

VARIABLE	net <u>or</u>	JRAL TUBE 95% CI	MAJ(OR	OR CARDIAC 95% CI	ORA <u>OR</u>	AL CLEFT 95% CI
mother's education: < 12th grade high school grad college grad	1.0 0.70 0.41	0.20, 2.5 0.10, 1.6	1.0 0.80 0.27	0.27, 2.4	1.0 0.68 0.24	0.23, 2.1 0.07, 0.9
father's education: < 12th grade high school grad college grad	1.0 0.56 0.18	0.18, 1.8 0.05, 0.7	1.0 0.81 0.39	0.27, 2.5	1.0 0.35 0.22	0.13, 1.0 0.08, 0.6
family annual income:						
- < \$20,000 >\$20,000-\$30,000 >\$30,000-\$40,000 >\$40,000-\$60,000 > \$60,000	1.0 0.51 0.46 0.35 0.32	0.17, 1.5 0.14, 1.5 0.12, 1.0 0.09, 1.1	1.0 1.06 1.32 0.71 0.57	0.38, 2.9 0.47, 3.7 0.27, 1.9 0.18, 1.9	1.0 1.32 1.10 0.36 0.29	0.49, 3.5 0.38, 3.2 0.11, 1.1 0.07, 1.2
AFDC, (etc.):						
no yes	1.0 3.14	1.38, 7.2	1.0 1.11	0.47, 2.6	1.0 1.68	0.74, 3.8
SS/WIC, (etc.): no yes	1.0	0.97, 4.2	1.0 1.29	- 0.69, 2.4	1.0 1.94	1.00, 3.8
mother's occupation*:						
professional/ supervisory white collar blue collar student/	1.0 1.16 1.35	0.41, 3.3 0.28, 6.5		0.70, 4.6 0.14, 4.4	1.0 1.39 2.70	0.46, 4.2 0.64, 11.4
unemployed	1.46	0.49, 4.4	1.88	0.69, 5.1	3.36	1.13, 10.0
mother worked*: no. yes	1.0 1.21	0.52, 2.8	1.0 0.97	0.49, 1.9	1.0	0.19, 0.8
mother worked with chemicals*:						
no yes	1.0 0.65	0.14, 3.1	1.0 1.36	0.48, 3.9	1.0 2.22	0.84, 5.9

 $[\]mbox{*}$ 3 months prior to conception through the first trimester.

<u>VARIABLE</u>	NEI <u>OR</u>	URAL TUBE 95% CI	MAJ <u>OR</u>	OR CARDIAC 95% CI	or <u>or</u>	AL CLEF <u>95%</u>	_
mother's work involved chemicals*: no yes	1.0 1.45	0.53, 4.0	1.0 1.14	0.41, 3.2	1.0 2 1.58	0.59,	4.2
mother's work involved paints*: no yes	1.0 0.81	0.17, 3.9	1.0 0.58		1.0 3 0.92	0.24,	3.5
<pre>mother's work involved solvents*: no</pre>	1.0	_	1.0		1.0		
yes mother's work involved		0.21, 5.3		0.40, 5.1	1.0 0.38	0.05,	3.2
radiation*: no yes	1.0 0.73	0.08, 6.4	1.0 0.48		1.0	-	
mother's work involved physical stress*:							
no yes	1.0 0.97	0.47, 2.0	1.0 0.55	0.29, 1.0	1.0 0.58	0.30,	1.1
home improve- ments*: no yes	1.0 0.50	0.11, 2.3	1.0 1.25	0.47, 3.3	1.0	-	
passive smoking*: no yes	1.0 1.21	0.58, 2.5	1.0	0.67, 2.4	1.0	0.63,	2.4
home pesticide use*:		2.3	1.27	0.07, 2.4	1.24	0.63,	2.4
no yes	1.0 0.50	0.22, 1.1	1.0 0.94	0.50, 1.8	1.0 0.65	0.33,	1.3

^{* 3} months prior to conception through the first trimester.

<u>VARIABLE</u>	NEU <u>OR</u>	RAL TUBE 95% CI	MAJOR C	CARDIAC 95% CI	ORA <u>OR</u>	L CLEFT	<u>CI</u>
pets with flea/tick treatment*: no yes	1.0 0.51	0.17, 1.6	1.0 0.41 0.	15, 1.1	1.0 0.71	0.29,	1.7
household use of mothballs/ disinfectants*: no yes	1.0 1.01	0.45, 2.3	1.0 1.37 O.	- 65, 2.9	1.0 0.93	0.45,	1.9
mother's hobbies involved use of chemicals*:	1.0	0.14, 3.1	1.0	-	1.0	0.20,	2.8
mother used paint in home*: no yes	1.0	-	1.0	32, 3.7	1.0	0.24,	
mother used electric blanket*: no yes	1.0	· .	1.0 0.97 O.	- 18, 5.2	1.0 0.55	0.06,	4.8
mother exposed to nearby toxic waste dump*: no yes	1.0 0.35	0.04, 2.8	1.0 2.1 0.7	- '8, 5.6	1.0		
mother exposed to industrial odors*:	1.0			•			
no yes	1.0 1.44	0.55, 3.7	1.0 1.68 O.	75, 3.7	1.0 0.70	0.25,	2.0
maternal smoking*: no yes	1.0 0.75	0.33, 1.7	1.0 0.84 0.	41, 1.7	1.0 1.28	0.65,	2.5

^{* 3} months prior to conception through the first trimester.

<u>VARIABLE</u>	NEURAL TUB OR 95%		MAJO OR	OR CARD	IAC CI	ORA <u>OR</u>	L CLEFT 95%	
<pre>cigarettes/ day(1)*: 0 1 - 9 10 - 19 > 19</pre>	1.0 - 1.15 0.22, 1.26 0.37, 0.60 0.21,	4.3		0.68, 0.16,	7.4	1.64	0.71, 0.56, 0.34,	4.8
cigarettes/ day(2)*: 0 1 - 5 6 - 10 11 - 20 > 20	1.0 - 0.61 0.13, 0.72 0.19, 0.67 0.14,	2.7	1.41 0.61	0.27, 0.43, 0.23, 0.09,	4.6 1.6	2.63 0.68	0.19, 0.88, 0.24, 0.47,	7.8 2.0
maternal alcohol consumption*: no yes consumption	1.0 - 1.33 0.61,	2.9	1.0 1.02	0.50,	2.1	1.0 1.00	0.48,	2.1
of 5 or more alcoholic drinks in one setting*: no yes	1.0 - 0.81 0.17,	3.9	1.0 1.51	0.52,	4.4	1.0	0.51,	5.0
total amount of alcoholic drinks per week*: 0 1 - 5 6 - 10 > 10	1.0 - 0.64 0.27, 0.60 0.12, 0.50 0.10,	1.5 2.9	0.54 0.38	0.26, 0.08, 0.19,	1.1 1.8	0.44 0.82	0.19, 0.24, 0.02,	2.8
days per week mother consumed alcoholic beverages*: 0 1 2 3 - 4 > 4	1.0 - 0.58 0.20, 1.15 0.37, 0.50 0.13, 0.30 0.04,	3.6 1.9	0.84 0.20	0.23, 0.29, 0.04, 0.08,	2.4 0.9	1.0 0.23 1.06 0.33 0.20	•	

<u>VARIABI</u>		JRAL TUBE 95% CI	MAJOR CA OR	RDIAC 95% CI	ORAL <u>OR</u>	CLEFT 95% CI
caffein beverag no	es*: 1.0	0.40	1.0	-	1.0	5
yes	1.28	0.49, 3.4	0.65 0.3	3, 1.3	1.10	0.48, 2.5
beverag day*:	einated				• •	
0	1.0	-	1.0	-	1.0	-
1 - 2	. 1.28	0.51, 3.2	0.61 0.2	8, 1.3		0.30, 2.5
3 - 4	0.90	0.29, 2.8		3, 2.3		0.42, 3.3
> 4	1.86	0.56, 6.2	1.03 0.3			0.22, 2.1
special	4: a + * .					
no			1.0			
	1.0	0 00 1 0	1.0	.	1.0	-
yes	0.24	0.03, 1.9	2.44 1.0	7, 5.5	1.22	0.44, 3.4
emotion stress:	al					
no	1.0	•	1.0	_	1.0	_
"low"	0.45			6, 1.9		0.34, 2.7
"medium			1.25 0.5			0.52, 3.4
"high"	1.06		0.74 0.2			0.24, 1.9
	, du			,		,
high fe						
no	1.0	-	1.0	-	1.0	•
yes	2.61	0.99, 6.9	2.86 1.23	3, 6.6	1.32	0.47, 3.7
diabetes	s :					
no	1.0	•	1.0		1.0	
yes	3.91	0.76, 20.3		0, 18.9		0.31, 11.6
-			1.55	, 10.5	1.05	J.JI, II.0
epilepsy seizures	s :					
no	1.0	-	1.0	-	1.0	-
yes	•	-	2.48 0.34	4, 18.1	2.85 (0.39, 20.8
infectio	, nne •					
no	1.0		1.0			
yes		0.42, 2.5	1.0 1.61 0.80	-). 3.2	1.0 1.48 (0.70, 3.1
		•		,	2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
blood						
compatib	_					
no	1.0	0.04 0.0	1.0		1.0	•
yes	0.35	0.04, 2.8	1.24 0.40	J, 3.8	0.82 (0.22, 3.1
toxemia:						
no	1.0	-	1.0	•	1.0	-
yes		0.82, 7.2	0.71 0.19	2.7		0.22, 3.1
		-		• •		·, ··-

•

VARIABLE	NEURAL TUBE	MAJOR CARDIAC	ORAL CLEFT
	OR 95% CI	OR 95% CI	OR 95% CI
medications: no yes	1.0 - 0.79 0.38, 1.6	1.0 - 1.63 0.85, 3.1	1.0 - 1.32 0.68, 2.6
high blood pressure*: no yes	1.0 - 3.75 0.23, 61.4	1.0 - 5.00 0.44, 56.3	1.0 - 2.80 0.17, 46.0
serious accident: no yes	1.0 - 1.94 0.55, 6.8	1.0 - 1.92 0.63, 5.8	1.0 - 2.23 0.73, 6.8
dental or other x-rays*: no yes	1.0 -	1.0 -	1.0 -
	1.05 0.21, 5.3	0.71 0.31, 1.6	0.78 0.16, 3.9
use of oral contraceptives: no yes	1.0	1.0 -	1.0 -
	1.36 0.46, 4.1	0.49 0.14, 1.8	0.57 0.16, 2.1
use of spermicides: no yes	1.0 0.60 0.22, 1.7	1.0 - 0.74 0.32, 1.7	1.0 - 0.64 0.26, 1.6
mother had a birth defect: no yes	1.0 -	1.0	1.0 -
	0.35 0.08, 1.6	0.88 0.35, 2.2	0.86 0.32, 2.3
father had a birth defect: no yes	1.0 -	1.0 -	1.0
	1.50 0.28, 8.1	2.02 0.52, 7.8	1.71 0.39, 7.4
sex of the child: male female	1.0 2.02 0.96, 4.3	1.0 - 1.07 0.57, 2.0	1.0 0.92 0.48, 1.8

APPENDIX C

BIVARIATE ANALYSIS OF RISK FACTORS AND ADVERSE REPRODUCTIVE OUTCOMES

B. LOW BIRTHWEIGHT OUTCOMES

VARIABLE		RY LOW THWEIGHT 95% CI		EDIATE LOW HWEIGHT
	<u> </u>	<u> </u>	<u> </u>	95% CI
mother's age(1): < 23 23 - 27 28 - 32 33 - 35 > 35	1.0 1.17 1.04 1.09 1.64	0.48, 2.8 0.43, 2.5 0.40, 3.0 0.55, 4.9	1.0 0.95 1.26 0.73 1.07	0.41, 2.2 0.56, 2.8 0.27, 2.0 0.36, 3.2
mother's age(2):				
< 22 22 - 34 > 34	1.0 0.83 0.83	0.33, 2.1 0.28, 2.5	1.0 0.80 0.73	0.33, 1.9 0.25, 2.1
mother's height:				
<pre>- < 5 feet > 5 feet</pre>	1.0 0.97	0.38, 2.5	1.0 2.46	1.15, 5.3
mother's weight before conception: > 115 - 140 lbs = < 115 lbs > 140 lbs	1.0	0.94, 3.7		1.13, 3.9
/ 140 IDS	2.09	1.13, 3.9	1.40	0.76, 2.6
mother's race: white black other	1.0 2.28 0.68	1.19, 4.4 0.13, 3.6	1.0 1.78 0.82	0.93, 3.4 0.19, 3.5
gravidity: 1	1.0	-	1.0	
2 - 3 > 3	0.84 2.15	0.45, 1.6 1.01, 4.6	0.83 1.57	0.46, 1.5 0.75, 3.3
nulliparous:	1.0	-	1.0	-
yes	0.90	0.50, 1.6	1.02	0.59, 1.8
previous miscarriage: no	1.0	0.70	1.0	
yes previous	1.37	0.78, 2.4	1.25	0.72, 2.2
miscarriage or stillbirth: no yes	1.0 1.58	0.91, 2.8	1.0 1.31	0.76, 2.2

		RY LOW THWEIGHT	INTERMEDIATE LOW BIRTHWEIGHT		
<u>VARIABLE</u>	<u>OR</u>	95% CI	<u>OR</u>	95% CI	
inadequate prenatal care: no	1.0				
yes	1.34	0.65, 2.8	1.0 1.93	0.99, 3.7	
mother's education: < 12th grade	1.0	_	1.0	_	
high school grad college grad	0.48 0.45	0.20, 1.1 0.19, 1.1	0.80 0.60	0.33, 1.9 0.24, 1.5	
father's education: < 12th grade	1.0				
high school grad	0.77	0.30, 2.0	1.0 0.63	0.26, 1.5	
college grad	0.41	0.16, 1.1	0.39	0.16, 0.96	
family annual income:					
= < \$20,000 >\$20,000 - \$30,000	1.0 0.50	0.20, 1.2	1.0 0.79	0.35, 1.8	
>\$30,000 - \$40,000	0.73	0.30, 1.8	0.94	0.40, 2.2	
>\$40,000 - \$60,000 > \$60,000	0.52 0.87	0.23, 1.2 0.38, 2.0	0.72 0.70	0.34, 1.6 0.30, 1.6	
AFDC, (etc.):					
no yes	1.0 1.86	0.98, 3.5	1.0 1.45	- 0.76, 2.7	
SS/WIC, (etc.):				-	
no yes	1.0 1.27	0.75, 2.1	1.0		
•	1.27	0.73, 2.1	1.09	0.66, 1.8	
mother's occupation*: professional/					
supervisory	1.0	-	1.0	-	
white collar blue collar	0.90 0.58	0.46, 1.8 0.18, 1.9	0.71	0.37, 1.4	
student/		0.10, 1.9	0.73	0.25, 2.1	
unemployed	0.82	0.39, 1.7	0.85	0.42, 1.7	
mother worked*:	1.0				
no yes	1.36	0.75, 2.5	1.0 1.10	0.63, 1.9	
mother worked with chemicals*:					
no yes	1.0 0.77	0.28, 2.2	1.0		
yes	U.//	0.28, 2.2	0.96	0.35, 2.7	

^{*} during most of the pregnancy

<u>VARIABLE</u>		RY LOW THWEIGHT 95% CI	INTERMEDIATE LOW BIRTHWEIGHT OR 95% CI		
mother's work involved chemicals*: no yes	1.0 0.73	0.33, 1.6	1.0 1.72	- 0.89, 3.3	
mother's work involved paints*:	1.0		1.0		
yes mother's work involved	0.63	0.19, 2.1	1.0 1.15	0.49, 2.7	
solvents*: no yes	1.0 0.72	0.13, 4.0	1.0 0.61	0.15, 2.5	
mother's work involved radiation*: no yes	1.0 0.28	0.03, 2.5	1.0	- -	
mother's work involved physical stress*:					
nō yes	1.0 0.64	0.38, 1.1	1.0 1.17	0.71, 1.9	
home improve- ments*: no yes	1.0	0.12, 1.12	1.0 0.93	0.50, 1.7	
passive smoking*: no • yes	1.0 0.96	0.56, 1.7	1.0 1.50	0.90, 2.5	
home pesticide use*:					
no yes	1.0 1.13	0.67, 1.9	1.0 0.98	0.60, 1.6	

^{*} during most of the pregnancy

<u>VARIABLE</u>		CRY LOW CTHWEIGHT 95% CI	INTERMEDIATE LOW BIRTHWEIGHT		
	<u> </u>	954_61	<u>OR</u>	95% CI	
pets with flea/tick treatment*: no yes	1.0 1.30	0.69, 2.4	1.0 1.25	0.68, 2.3	
household use of mothballs/ disinfectants*: no	1.0		1.0	-	
yes	0.93	0.53, 1.6	1.32	0.75, 2.3	
<pre>mother's hobbies involved use of chemicals*:</pre>					
no yes	1.0 0.51	0.16, 1.7	1.0	-	
mother used paint in home*:	0.31	0.10, 1.7	•	•	
no yes	1.0 0.42	-	1.0	-	
mother used electric blanket*:	0.42	0.15, 1.2	1.87	0.93, 3.8	
no	1.0	•	1.0	-	
mother exposed to nearby toxic	1.16	0.30, 4.4	1.70	0.57, 5.1	
waste dump*: no	1.0	_	1.0		
yes	0.56	0.17, 1.8	1.0 1.27	0.53, 3.0	
mother exposed to industrial odors*:		•.			
no	1.0		1.0	-	
yes maternal smoking*:	0.70	0.31, 1.6	1.14	0.57, 2.3	
no	1.0	-	1.0	-	
yes	0.77	0.44, 1.4	1.65	0.96, 2.8	

^{*} during most of the pregnancy

	VERY LOW BIRTHWEIGHT		INTERMEDIATE LOW BIRTHWEIGHT		
<u>VARIABLE</u>	<u>OR</u>	95% CI	<u>or</u>	95% CI	
<pre>cigarettes/ day(1)*: 0 1 - 9 10 - 19</pre>	1.0 0.49 0.66	0.18, 1.3 0.19, 2.2	1.0 1.41 2.12	- 0.67, 3.0 0.83, 5.4	
> 19	0.66	0.16, 2.7	1.65	0.53, 5.1	
cigarettes/ day(2)*: 0 1 - 5 6 - 10 11 - 20 > 20	1.0 0.68 0.36 0.47 0.42	0.24, 1.9 0.11, 1.1 0.12, 1.8 0.04, 4.1	1.0 2.04 1.19 2.26 1.41	0.83, 5.0 0.51, 2.8 0.71, 7.2 0.28, 7.2	
maternal alcohol consumption*: no yes	1.0 1.31	0.74, 2.3	1.0 0.79	0.44, 1.4	
consumption of 5 or more alcoholic drinks in one setting*: no yes	1.0 5.98	0.66, 54.3	1.0 3.79	0.39, 37.0	
total amount of alcoholic drinks per week*: 0 1 - 5 6 - 10 > 10	1.0 0.62 1.35 0.34	0.33, 1.1 0.54, 3.4 0.09, 1.3	1.0 0.73 0.63 0.38	0.42, 1.3 0.22, 1.8 0.12, 1.2	
days per week mother consumed alcoholic beverages*: 0 1 2 3 - 4 > 4	1.0 0.60 1.29 0.35 0.48	0.29, 1.2 0.56, 3.0 0.12, 1.0 0.14, 1.6	1.0 0.83 0.70 0.24 0.61	0.44, 1.6 0.28, 1.7 0.08, 0.74 0.21, 1.8	

 $^{^{\}star}$ during most of the pregnancy

	VERY LOW BIRTHWEIGHT		INTERMEDIATE LOW BIRTHWEIGHT	
<u>VARIABLE</u>	<u>or</u>	95% CI	<u>OR</u>	95% CI
mother consumed caffeinated beverages*: no yes	1.0 1.26	0.70, 2.3	1.0 0.89	0.52, 1.5
total amount of caffeinated beverages per day*:				
0	1.0	•	1.0	-
1 - 2	1.68	0.85, 3.3	1.17	0.62, 2.2
3 - 4	1.46	0.67, 3.2	1.21	0.59, 2.5
> 4	1.51	0.58, 3.9	1.90	0.82, 4.4
special diet*:				
no	1.0	•	1.0	-
yes	1.18	0.52, 2.6	2.37	1.18, 4.7
emotional stress:				
no	1.0	-	1.0	-
"low"	1.06	0.46, 2.5	0.92	0.41, 2.0
"medium"	1.55	0.71, 3.4	1.32	0.63, 2.7
"high"	0.92	0.40, 2.1	0.95	0.44, 2.1
high fevers*:				·
no	1.0	-	1.0	•
yes	1.78	0.82, 3.8	2.18	1.06, 4.5
diabetes:	1.0		1.0	
yes	-	-	1.0 2.25	0 (/ 7 0
epilepsy or seizures:	-	•	2.25	0.64, 7.9
no	1.0		1.0	
yes	0.72	0.06, 8.0	1.0	0.06, 6.9
yes	0.72	0.00, 8.0	0.62	0.06, 6.9
infections:	1.0		1.0	
yes	1.01	0.54, 1.9	1.0	0.67, 2.2
blood compatibility:		0.54, 1.9	1.21	0.67, 2.2
no	1.0	-	1.0	•
yes	0.71	0.23, 2.1	1.13	0.44, 2.9

^{*} during most of the pregnancy

VARIABLE	VERY LOW BIRTHWEIGHT		INTERMEDIATE LOW BIRTHWEIGHT	
ANTINDEE	<u>OR</u>	95% CI	<u>OR</u>	95% CI
toxemia:				
no	1.0	•	1.0	-
yes	1.82	0.78, 4.2	2.22	1.00, 4.9
medications:				
no	1.0	-	1.0	_
yes	0.70	0.42, 1.2	0.81	0.49, 1.3
		·		
high blood pressure*:				
no	1.0	_	1.0	
yes	9.74	2.13, 44.6	1.0 3.34	1.40, 7.9
,		2125, 44.0	3.34	1.40, 7.9
serious				
accident:				
no	1.0	-	1.0	-
yes	0.96	0.33, 2.8	1.41	0.55, 3.6
dental or				
other x-rays*:				
no .	1.0	•	1.0	-
yes	0.61	0.15, 2.4	0.70	0.20, 2.4
af am.1				
use of oral contraceptives:				
no	1.0	•	1.0	
yes	1.65	0.74, 3.7	1.38	0.62, 3.1
				0.02, 5.1
use of				
spermicides:				
no yes	1.0 0.41	0.18, 0.9	1.0	
yes	0.41	0.18, 0.9	0.71	0.37, 1.4
mother had a				
birth defect:				
no	1.0	•	1.0	-
yes	0.06	0.01, 0.5	0.40	0.16, 1.0
father had a				
birth defect:				
no	1.0	•	1.0	_
yes	1.81	0.54, 6.1	2.10	0.67, 6.6
		•	· -	,
sex of the				
child: male	1 0			
female .	1.0 0.76	0.45, 1.3	1.0	-
a waste & w	0.70	U.4J, I.J	1.67	1.01, 2.8

^{*} during most of the pregnancy

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