P20 Master Database Documentation
Includes list of variables from questionnaires entered in Mexico and Laboratory measures
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Brief summary of laboratory methods for assays done at Michigan

#	Variable	Label
		QUESTIONNARE DATA
1	FOLIOCC	foliocc
233	PROYECTO	Proyecto. BI(biomarcadores) PL(plasma)
234	FOLIO	File ID number
2	CA10	CA10: Riding a bicylce
3	CA11	CA11: Staking or stakeboarding
4	CA12	CA12: Playing basketball
5	CA13	CA13: Dancing (including dance classes like ballet, jazz and Hawaiian)
6	CA14	CA14: Cleaning or fixing the house
7	CA15	CA15: Walking
8	CA16	CA16: Running
9	CA17	CA17: Doing gymnastics, aerobics, etc.
10	CA18	CA18: Swimming (not just playing in the pool)
11	CA19	CA19: Playing baseball
12	CA20	CA20: Playing tennis, racquetball or handball
13	CA21	CA21: Other activities or sports (specify which)
14	CA22	CA22: Do you participate in any team sports in or out of school (Which?)
15	CA23_1	CA23_1: Tell us how many hours you spend watching TV on Monday
16	CA23_2	CA23_2: Tell us how many hours you spend watching TV on Tuesday
17	CA23_3	CA23_3: Tell us how many hours you spend watching TV on Wednesday
18	CA23_4	CA23_4: Tell us how many hours you spend watching TV on Thursday
19	CA23_5	CA23_5: Tell us how many hours you spend watching TV on Friday
20	CA23_6	CA23_6: Tell us how many hours you spend watching TV on Saturday
21	CA23_7	CA23_7: Tell us how many hours you spend watching TV on Sunday
22	CA24	CA24: On a weekday, how many hours do you watch movies or videos on your VCR, DVD?
23	CA25	CA25: On a weekday, how many hours do you spend playing electronic games and using the internt for fun?
24	CA26	CA26: How many hours do you spent on yur homework and/or read on a weekday?
25	CA27	CA27: On a weekend day, how many hours do you watch movies or videos on your VCR, DVD?
26	CA28	CA28: On a weekend day, how many hours do you spend playing electronic games and using the internet for fun?
27	CA29	CA29: How many hours do you spend on your homework and/or read on a weekend day?
28	CA30	CA30: On a weekday, how much time do you spend sitting in a car, truck, or bus?

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#	Variable	Label
29	CA31	CA31: On a weekend day, how much time do you spend sitting in a car, truck, or bus?
30	CA32	CA32: What time do you usually go to sleep on weekdays?
31	CA33	CA33: What time do you usually go to sleep on weekend days?
32	CA34	CA34: What time do you regularly get up to go to school on weekdays?
33	CA35	CA35: What time do you usually wake up on Saturdays and Sundays?
34	CA4	CA4: How old are you?
35	CA5	CA5: You are
36	CA6_1	CA6_1: Are you studying?
37	CA6_2	CA6_2: What grade are you in?
38	CA6_3	CA6_3: What was the last grade you completed?
39	CA7	CA7: How many people under the age of 18 live in your home?
40	CA8	CA8: Playing soccer
41	CA9	CA9: Playing volleyball
42	F10	F10: Another changes is the growth of public hair. Please choose the drawing closest to your stage of hair development by marking your answer with a cross
43	F5	F5: Have you started having periods?
44	F6	F6: If yes, at what age?
45	F6B_AA	F6B_AA: First period (Year)
46	F6B_MM	F6B_MM: First period (month)
47	F6C_AA	F6C_AA: Last period (year)
48	F6C_DD	F6C_DD: Last period (day)
49	F6C_MM	F6C_MM: Last period (month
50	F7	F7: Do you shave or wax your pubic hair?
51	F8	F8: If yes, in which area? (mark all areas where you shave or wax)
52	F9	F9: Please choose the drawing closest to your stage of breast development by marking your answer with a cross
53	M5	M5: Do you shave or wax your pubic hair?
54	M6	M6: If yes, in which area? (mark all areas where you shave or wax)
55	M7	M7: Your stage of penis and scrotum development
56	M8	M8: Your stage of pubic hair development
57	NI_A	NI_A: Girl
58	P10	P10: How often do you consume foods microwaved on or in plastic containers or wrappers?
59	P11	P11: How often do you consume canned foods (for example, canned fruits, vegetables, tuna, etc.)?

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#	Variable	Label
60	P12	P12: How often do you consume canned beverages (for exampl, soda)?
61	P13_FREQ_A	P13_FREQ_A: How often do you normall use fingernail polish?
62	P13_FREQ_B	P13_FREQ_B: How often do you normally use deodorant?
63	P13_FREQ_C	P13_FREQ_C: How often do you normally use hair spray/hair gel?
64	P13_FREQ_D	P13_FREQ_D: How often do you normally use cologne/perfume?
65	P13_FREQ_E	P13_FREQ_E: How often do you normally use bar soap (solid)?
66	P13_FREQ_F	P13_FREQ_F: How often do you normally use liquid soap (also dishwashing detergent)?
67	P13_FREQ_G	P13_FREQ_G: How often do you normally use mouthwash?
68	P13_FREQ_H	P13_FREQ_H: How often do you normally use lotion?
69	P13_FREQ_I	P13_FREQ_I: How often do you normally use shaving cream?
70	P13_FREQ_J	P13_FREQ_J: How often do you normally use aftershave?
71	P13_FREQ_K	P13_FREQ_K: How often do you normally use cosmetics (e.g. hair dye, foundation, blush, eye shadow, eye liner, mascara)?
72	P13_FREQ_L	P13_FREQ_L: How often do you normally use shampoo?
73	P13_FREQ_M	P13_FREQ_M: How often do you normally use conditioner?
74	P13_FREQ_N	P13_FREQ_N: How often do you normally use hair crème (e.g. Vitalis, Sedal, Fructis)?
75	P13_FREQ_O	P13_FREQ_O: How often do you normally use other hair products (e.g. mousse, hair bleach/dyes, relaxer, perm)?
76	P13_FREQ_P	P13_FREQ_P: How often do you normally use other toiletries (waxy or oily based)?
77	P13_FREQ_Q	P13_FREQ_Q: How often do you normally use laundry products (laundry soap, softener, starch, etc.)?
78	P13_USE_A	P13_USE_A: Have you used in the past 24 hours. Finger nail polish?
79	P13_USE_B	P13_USE_B: Have you used deodorant in the past 24 hours?
80	P13_USE_C	P13_USE_C: Have you used hair spray/hair gel in the past 24 hours?
81	P13_USE_D	P13_USE_D: Have you used cologne/perfume in the last 24 hours?
82	P13_USE_E	P13_USE_E: Have you used bar soap (solid) in the past 24 hours?
83	P13_USE_F	P13_USE_F: Have you used liquid soap (also dishwashing detergent) in the past 24 hours?
84	P13_USE_G	P13_USE_G: Have you used mouthwash in the past 24 hours?
85	P13_USE_H	P13_USE_H: Have you used lotion in the past 24 hours?
86	P13_USE_I	P13_USE_I: Have you used shaving cream in the past 24 hours?
87	P13_USE_J	P13_USE_J: Have you used aftershave in the past 24 hours?
88	P13_USE_K	P13_USE_K: Have you used cosmetics (e.g. hair dye, foundation, blush, eye shadow, eye liner, mascara) in the past 24 hours?
89	P13_USE_L	P13_USE_L: Have you used shampoo in the past 24 hours?
90	P13_USE_M	P13_USE_M: Have you used condition in the past 24 hours?

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Brief summary of laboratory methods for assays done at Michigan

#	Variable	Label
91	P13_USE_N	P13_USE_N: Have you used hair crème (e.g Vitalis, Sedal, Fructis)) in the past 24 hours?
92	P13_USE_O	P13_USE_O: Have you used other hair products (e.g. mousse, hair bleach/dyes, relaxer, perm) in the past 24 hours?
93	P13_USE_P	P13_USE_P: Have you used other toiletries (waxy or oily based) in the past 24 hours?
94	P13_USE_Q	P13_USE_Q: Have you used laundry products (laundry soap, softener, starch, etc.) in the past 24 hours?
95	P5	P5: Does your home have any plastic/vinyl flooring?
96	P6	P6: Does your school have any plastic/vinyl flooring?
97	P7	P7: The water that you drink more often is
98	P8	P8: What is the primary source of water in your home for drinking?
99	P9	P9: Do you ever microwave foods on or in plastic containers or wrappers, or does someone prepare food for you in this manner?
100	PA12_1	PA12_1: Weight
101	PA12_10	PA12_10: Weight
102	PA12_11	PA12_11: Height
103	PA12_12	PA12_12: Circumference - waist
104	PA12_13	PA12_13: Circumference - waist
105	PA12_14	PA12_14: Length - Upper arm
106	PA12_15	PA12_15: Midpoint- upper arm
107	PA12_16	PA12_16: Circumference - upper arm
108	PA12_17	PA12_17: Skinfold thickness - triceps
109	PA12_18	PA12_18: Skinfold thickness - Suprailiac
110	PA12_19	PA12_19: Skinfold thickness - Subscapular
111	PA12_2	PA12_2: Height
112	PA12_3	PA12_3: Circumference - waist
113	PA12_4	PA12_4: Length - Upper arm
114	PA12_5	PA12_5: Midpoint- upper arm
115	PA12_6	PA12_6: Circumference - upper arm
116	PA12_7	PA12_7: Skinfold thickness - triceps
117	PA12_8	PA12_8: Skinfold thickness - Suprailiac
118	PA12_9	PA12_9: Skinfold thickness - Subscapular
119	PQ10	PQ10: Physical Activity Questionnaire
120	PQ11	PQ11: Phthalate Exposure Questionnaire
121	PQ9	PQ9: Food Frequency Questionnaire

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Brief summary of laboratory methods for assays done at Michigan

#	Variable	Label
122	PR_DIAS1	PR_DIAS1: Blood Pressure (diastolic), 1st reading
123	PR_DIAS2	PR_DIAS2: Blood Pressure (diastolic, 2nd reading
124	PR_SIS1	PR_SIS1: Blood Pressure (systolic), 1st reading
125	PR_SIS2	PR_SIS2: Blood Pressure (systolic), 2nd reading
126	PS7	PS7: Urine Collection
127	PS8	PS8: Blood collection
128	PS8_2	PS8_2: Plasma blood collection
129	PS8_3	PS8_3: DNA blood collection
130	SEXO_H	SEXO_H: Sex at birth (It came with the P20 data set)
131	TN13	TN13: Tanner Stage Self-Report Pamphlet
132	TN14	TN14: Physician observed tanner staging permission
133	TN15_1	TN15_1: Physician observed pubic hair staging
134	TN15_2	TN15_2: Physician observed breast development (female only)
135	TN15_3	TN15_3: Physician observed genital development (male only)
136	TN15_4A	TN15_4A: Physician observed testicle volume (male only), right
137	TN15_4B	TN15_4B: Physician observed testicle volume (Male only), left
138	TN16	TN16: Currently taking any medications?
139	T_P1	T_P1: May we ask you a few brief questions to allow us to know if ...
140	T_P7	T_P7: Do you or your child suffer from a medical condition
141	T_P8	T_P8: Are you willing to participate in the study?
	HORMONE DATA from P20 Visit	
142	Inhibin_B	Inhibin B (pg/ml) - '10.0' refers to '<10.0' and '11.0' refers to '<11.0'
143	Testo	Testosterone (ng/dl)
144	SHBG	SHBG (nmol/L)
145	E2	Estradiol (pg/ml)
146	C_peptide	C-peptide (ng/ml)
147	DHEA_S	DHEA-S (microg/dl) - '15' refers to '<15'
148	IGF_1	IGF-1 (ng/ml)
149	Leptin	Leptin (ng/ml)
	PHTHALATES AND BPA FROM URINE SAMPLES **T3 IS FOR MATERNAL URINE, P20 IS FOR CHILDREN DURING P20 VISIT** **SEE ADDITIONAL INFORMATION BELOW**	
150	BPA_P20	BPA_P20 - '0.4' refers to '<0.4'

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#	Variable	Label
151	BPA_T3	BPA_T3 - '0.4' refers to '<0.4'
152	MBP_P20	'0.5' refers to '<0.5'
153	MBP_T3	'0.5' refers to '<0.5'
154	MBzP_P20	MBzP_P20 - '0.2' refers to '<0.2'
155	MBzP_T3	MBzP_T3 - '0.2' refers to '<0.2'
156	MCPP_P20	MCPP_P20 - '0.2' refers to '<0.2'
157	MCPP_T3	MCPP_T3 - '0.2' refers to '<0.2'
158	MECPP_P20	'0.2' refers to '<0.2'
159	MECPP_T3	'0.2' refers to '<0.2'
160	MEHHP_P20	'0.1' refers to '<0.1'
161	MEHHP_T3	'0.1' refers to '<0.1'
162	MEHP_P20	MEHP_P20 - '1' refers to '<1'
163	MEHP_T3	MEHP_T3 - '1' refers to '<1'
164	MEOHP_P20	'0.1' refers to '<0.1'
165	MEOHP_T3	'0.1' refers to '<0.1'
166	MEP_P20	MEP_P20 - '1' refers to '<1'
167	MEP_T3	MEP_T3 - '1' refers to '<1'
168	MIBP_P20	MIBP_P20 - '0.2' refers to '<0.2'
169	MIBP_T3	MIBP_T3 - '0.2' refers to '<0.2'
170	spec_grav_P20	
171	spec_grav_T3	
	METHYLATION DATA See additional documentation on this data _P20 indicates P20 visit, _seq indicates a change in the instrument used (see other document), _cord indicates samples from cord blood	
172	LINE_1_p20	LINE_1_p20
173	LINE_2_p20	LINE_2_p20
174	LINE_3_p20	LINE_3_p20
175	LINE_4_p20	LINE_4_p20
176	H19_1_p20	H19_1_p20
177	H19_2_p20	H19_2_p20
178	H19_3_p20	H19_3_p20
179	H19_4_p20	H19_4_p20
180	HSD11B2_1_p20	HSD11B2_1_p20

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#	Variable	Label
181	HSD11B2_2_p20	HSD11B2_2_p20
182	HSD11B2_3_p20	HSD11B2_3_p20
183	HSD11B2_4_p20	HSD11B2_4_p20
184	HSD11B2_5_p20	HSD11B2_5_p20
208	IGF2_1_2_P20_seq	IGF2_1_2_P20_seq
209	IGF2_3_P20_seq	IGF2_3_P20_seq
210	IGF2_4_P20_seq	IGF2_4_P20_seq
211	IGF2_5_6_P20_seq	IGF2_5_6_P20_seq
212	IGF2_7_P20_seq	IGF2_7_P20_seq
213	LINE_1_cord	LINE_1_cord
214	LINE_2_cord	LINE_2_cord
215	LINE_3_cord	LINE_3_cord
216	LINE_4_cord	LINE_4_cord
217	H19_1_cord	H19_1_cord
218	H19_2_cord	H19_2_cord
219	H19_3_cord	H19_3_cord
220	H19_4_cord	H19_4_cord
221	HSD11B2_1_cord	HSD11B2_1_cord
222	HSD11B2_2_cord	HSD11B2_2_cord
223	HSD11B2_3_cord	HSD11B2_3_cord
224	HSD11B2_4_cord	HSD11B2_4_cord
225	HSD11B2_5_cord	HSD11B2_5_cord
226	ELEMENT_ID	ELEMENT_ID
227	IGF2_1_2_cord_seq	IGF2_1_2_cord_seq
228	IGF2_3_cord_seq	IGF2_3_cord_seq
229	IGF2_4_cord_seq	IGF2_4_cord_seq
230	IGF2_5_6_cord_seq	IGF2_5_6_cord_seq
231	IGF2_7_cord_seq	IGF2_7_cord_seq
232	cd_age	Child's age at P20 study visit
	HISTORICAL DATA—breastfeeding, anthropometry, and self reported Tanner stages _X, where X=3-60 indicates age of child in months when variable was taken, otherwise it denotes visit (V0 or V18)	
203	DELIVERY_GESTAGE	Estimated gestational age by R.N.

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#	Variable	Label
235	DELIVERY_WEIGHT	Birth weight (child)
236	DELIVERY_HEIGHT	Birth length (child)
237	BF_total_1strecall	Breast feeding duration constructed from variables collected during child follow-up. At each visit the mother was asked if she was still breast feeding. The first time she answered 'no' (not currently breastfeeding), then we took the value corresponding to the follow-up question 'how long did you breastfeed'.
238	HT_3	Child's height (cm) at 3 mo of age
239	HT_6	Child's height (cm) at 6 mo of age
240	HT_12	Child's height (cm) at 12 mo of age
241	HT_18	Child's height (cm) at 18 mo of age
242	HT_24	Child's height (cm) at 24 mo of age
243	HT_30	Child's height (cm) at 30 mo of age
244	HT_36	Child's height (cm) at 36 mo of age
245	HT_48	Child's height (cm) at 48 mo of age
246	HT_60	Child's height (cm) at 60 mo of age
247	WT_3	Child's weight (kg) at 3 mo of age
248	WT_6	Child's weight (kg) at 6 mo of age
249	WT_12	Child's weight (kg) at 12 mo of age
250	WT_18	Child's weight (kg) at 18 mo of age
251	WT_24	Child's weight (kg) at 24 mo of age
252	WT_30	Child's weight (kg) at 30 mo of age
253	WT_36	Child's weight (kg) at 36 mo of age
254	WT_48	Child's weight (kg) at 48 mo of age
255	WT_60	Child's weight (kg) at 60 mo of age
256	BMI_V0	BMI at V0
257	BMI_V18	BMI at V18
258	BMIZ_CDC_V0	BMI Z-score based on CDC reference at V0
259	BMIZ_CDC_V18	BMI Z-score based on CDC reference at V18
260	BMIZ_WHO_V0	BMI Z-score based on WHO standard at V0
261	BMIZ_WHO_V18	BMI Z-score based on WHO standard at V18
262	height_V0	Children's height at V0
263	height_V18	Children's height at V18
264	waist_V0	Children's waist circumference at V0
265	waist_V18	Children's waist circumference at V18

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#	Variable	Label
266	weight_V0	Children's weight at V0
267	weight_V18	Children's weight at V18
268	F9_V0	Stage of breast development (V0)
269	F10_V0	Growth of pubic hair (V0)
270	M7_V0	Stage of penis and scrotum development (V0)
271	M8_V0	Stage of pubic hair development (V0)
272	F9_V18	Stage of breast development (V18)
273	F10_V18	Growth of pubic hair (V18)
274	M7_V18	Stage of penis and scrotum development (V18)
275	M8_V18	Stage of pubic hair development (V18)
185	DELIVERY_PBCORD	Umbilical cord blood lead(delivery)
186	rotula_qualitycheck	Patella Bone Lead (values with very large uncertainties have been set to missing)
187	tibia_qualitycheck	Tibia Bone Lead (values with very large uncertainties have been set to missing)
188	BLOOD_PB_11	Maternal Blood Lead at 1st Trimester (the original variable name in Combo mothers was BLOOD_PB)
189	BLOOD_PB_12	Maternal Blood Lead at 2nd Trimester (the original variable name in Combo mothers was BLOOD_PB)
190	BLOOD_PB_13	Maternal Blood Lead at 3rd Trimester (the original variable name in Combo mothers was BLOOD_PB)
191	PB_3	Child's Blood Lead at 3 mo of age
192	PB_6	Child's Blood Lead at 6 mo of age
193	PB_12	Child's Blood Lead at 12 mo of age
194	PB_18	Child's Blood Lead at 18 mo of age
195	PB_24	Child's Blood Lead at 24 mo of age
196	PB_30	Child's Blood Lead at 30 mo of age
197	PB_36	Child's Blood Lead at 36 mo of age
198	PB_48	Child's Blood Lead at 48 mo of age
199	PB_60	Child's Blood Lead at 60 mo of age
200	pb_V18	Adolescent Blood Lead at V18 visit
201	pb_V0	Adolescent Blood Lead at V0 visit
202	pb_p20	Adolescent Blood Lead at P20 visit
	Maternal demographics/SES characteristics	

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#	Variable	Label
204	SESLevel	Summary measure from socioeconomic questionnaire at V0 visit. Summary measure contains variables that measure material wellbeing AND education of head of household, constructed as SES_Level= 2*(SC10=1)+(SC11>5)+(SC12>4) +(sc13=1) +2*(SC13>1)+(sc14=1) +(sc15>4) + (sc16=3)+ 2*sc17 + 1.5*(sc18=1) + (sc19=1)+(sc20=1) +(sc21=1) + (sc22=1) (see definitions of variables in original socioeconomic questionnarie)
205	SES_possessions	Summary measure from socioeconomic questionnaire at V0 visit. Summary measure contains only variables that measure material wellbeing, constructed as SES_possessions= (SC12 > 4) + (SC13 = 1) + 2*(SC13 > 1) + (SC14 = 1) + (SC15 > 4) + (SC15 = 3) + 2*SC17 + 1.5*(SC18 = 1) + (SC19 = 1) + (SC20 = 1) + (SC21 = 1) + (SC22 = 1) (see definitions of variables in original socioeconomic questionnaire)
206	SCHOOL_T1	Mother: Total years studied
207	age_m	Mother's Age at time of child's Birth

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Brief summary of laboratory methods for assays done at Michigan

Brief summary of laboratory procedures

HORMONE DATA from P20 Visit		

Hormone	Analytical Method	Lab
C-peptide	Chemiluminescent Immunoassay (CLIA)	MDRTC
DHEA-S	Chemiluminescent Immunoassay (CLIA)	MDRTC
Estradiol	Chemiluminescent Immunoassay (CLIA)	CLASS
IGF-1	Chemiluminescent Immunoassay (CLIA)	MDRTC
Inhibin B	Enzyme linked immunosorbent assay (ELISA)	CLASS
Leptin	Radioimmunoassay (RIA)	MDRTC
SHBG	Chemiluminescent Immunoassay (CLIA)	CLASS
Testosterone	Chemiluminescent Immunoassay (CLIA)	CLASS

* More details about samples, data quality objectives, and equipment used for analyses are contained in:
'P20 Specimen Analysis - Methodology.doc'

PHTHALATES AND BPA FROM URINE SAMPLES			

Chemical	(Sensitivity) (ng/mL)	Analytical Method	Lab
BPA	0.4	On-line solid phase extraction (SPE) + high performance liquid chromatography – isotope dilution tandem mass spectrometry (HPLC-MS/MS)	NSF International
MCPP	0.2	High performance liquid chromatography-electrospray ionization-tandem mass spectrometry (HPLC-ESI-MS/MS)	NSF International
MEP	1.0	Same as above	NSF International
MECPP	0.2	Same as above	NSF International
MEHHP	0.1	Same as above	NSF International
MIBP	0.2	Same as above	NSF International
MEOHP	0.1	Same as above	NSF International
MBP	0.5	Same as above	NSF International
MBzP	0.2	Same as above	NSF International
MEHP	1.0	Same as above	NSF International

METHYLATION DATA
See additional documentation on this data
_P20 indicates P20 visit, _seq indicates a change in the instrument used (see other document),
_cord indicates samples from cord blood

Genic Region	Analytical Method	Lab
LINE1	Pyrosequencing used to measure methylation at 4 CpG Sites in LINE1	Dolinoy
H19	Pyrosequencing used to measure	Dolinoy

P20 Master Database Documentation
Includes list of variables from questionnaires entered in Mexico and Laboratory measures
Questionnaire Data Entered in Mexico, Lab data (Hormones, BPA & Phthalates, Methylation), historical variables on maternal demographics, and on lead exposure and anthropometry.
Brief summary of laboratory methods for assays done at Michigan

	methylation at 4 CpG Sites upstream of *H19* gene	
HSD11B2	Pyrosequencing used to measure methylation at 5 CpG Sites in promoter region of *HSD11B2* gene	Dolinoy

Blood Lead at V0, V18 and P20

Chemical	Analytical Method	Lab	Detection Limit (Sensitivity) (ng/mL)
lead	On-line solid phase extraction (SPE) + high performance liquid chromatography – isotope dilution tandem mass spectrometry (HPLC-MS/MS)	MDCH	0.4