

New York State Fetal Defect Markers Proficiency Test,  
 May 2007  
 Summary of First Trimester Results

	FT206	FT207	FT208	FT209	FT210
<b>Gestational Age All Lab Mean:</b>					
Mean	11.8				
SD	0.22				
%CV	1.8%				
X+3*SD	12.5				
X-3*SD	11.1				
N	12				

<b>FT hCG All Lab Mean:</b>	
mean	121.93
SD	17.93
%CV	14.7%
X+3SD	175.72
X-3SD	68.13
N	12
mean/All kit median	1.01

	FT 206	FT 207	FT 208	FT 209	FT 210
<b>FT hCG MoMs All Lab Mean:</b>					
Mean	1.63				
SD	0.29				
%CV	17.8%				
X+3SD	2.50				
X- 3SD	0.76				
N	11				
All Median	1.74				

	FT 206	FT 207	FT 208	FT 209	FT 210
<b>FT hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:</b>					
mean	128.57				
SD	19.80				
%CV	15.4%				
X+3SD	187.98				
X-3SD	69.15				
N	6				
median	126.45				
mean/All kit median	1.06				

<b>FT hCG DPC Immulite or 2000 (DPB or D/DP5) mean:</b>	
mean	113.70
SD	15.58
%CV	13.7%
X+3SD	160.44
X-3SD	66.96
N	5
median	119.00
mean/All kit median	0.94

<b>FT hCG kit average:</b>	
mean	121.13
SD	10.51
all kit median	121.13

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	FT 206	FT 207	FT 208	FT 209	FT 210
<b>FT PAPP-A All Lab Mean:</b>					
Mean	4.51				
SD	2.48				
%CV	55.1%				
mean + 3SD	11.96				
mean- 3SD	-2.95				
N	12				
All Lab Median	3.40				
mean/All kit median	0.83				

**FT PAPP-A Diagnostic System Labs (DS1) Mean:**

Mean	3.14
SD	0.53
%CV	16.8%
X + 3SD	4.73
X - 3SD	1.56
N	7
Kit Median	3.00
mean/All kit median	0.58

**FT PAPP-A MoM All Lab Mean:**

Mean	3.21
SD	2.51
%CV	78.1%
mean + 3SD	10.75
mean- 3SD	-4.32
N	11
All Lab Median	1.90

	FT 206	FT 207	FT 208	FT 209	FT 210
<b>FT PAPP-A DPC Immulite or 2000 (DPB or D/DP5) Mean*:</b>					
Mean	7.72				
SD	0.60				
%CV	7.8%				
X + 3SD	9.51				
X - 3SD	5.92				
*N	4				
Kit Median	7.55				
mean/All kit median	1.42				

\*note: an outlier was excluded from this table (DPC Immulite, N was equal to 5)

**FT PAPP-A kit average:**

mean	5.43
SD	3.23
all kit median	5.43

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	MS206	MS207	MS208	MS209	MS210
<b>Gestational Age All Lab Mean:</b>					
Mean	16.0	17.0	18.0	15.0	19.0
SD	0.00	0.00	0.00	0.00	0.00
%CV	0.0%	0.0%	0.0%	0.0%	0.0%
X+3*SD	16.0	17.0	18.0	15.0	19.0
X-3*SD	16.0	17.0	18.0	15.0	19.0
N	29	30	30	29	28

**MS AFP All Lab Mean:**

mean	95.09	88.14	46.96	31.85	25.19
SD	7.50	6.83	3.71	2.60	2.03
%CV	7.9%	7.7%	7.9%	8.2%	8.1%
mean+3SD	117.60	108.61	58.09	39.65	31.29
mean-3SD	72.58	67.66	35.84	24.05	19.09
N	30	30	30	30	30
mean/all kit median	1.00	1.01	1.01	0.99	0.99

**MS AFP Abbott (ABB/AB2) mean:**

mean	97.20	87.33	46.85	32.90	26.28
SD	10.20	4.70	2.37	1.99	2.35
%CV	10.5%	5.4%	5.1%	6.0%	8.9%
mean+3SD	127.81	101.42	53.96	38.86	33.32
mean-3SD	66.59	73.23	39.74	26.94	19.23
N	4	4	4	4	4
median	97.95	86.20	46.75	32.45	25.35
mean/all kit median	1.02	1.00	1.01	1.02	1.03

**MS AFP Beckman Unicel or Access (BCU or BCX/BC1) mean:**

mean	93.53	87.47	46.27	31.34	24.56
SD	5.82	3.82	2.70	2.19	0.95
%CV	6.2%	4.4%	5.8%	7.0%	3.9%
mean+3SD	110.98	98.93	54.37	37.91	27.42
mean-3SD	76.08	76.01	38.17	24.77	21.70
N	10	10	10	10	10
median	93.10	87.00	46.55	31.00	24.30
mean/all kit median	0.98	1.00	0.99	0.98	0.97

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS AFP Bayer ADVIA-Centaur or ACS-180(COB or COS/BA1 or CO1) mean:</b>					
mean	107.20	100.93	52.95	36.10	28.13
SD	1.26	3.94	2.17	0.54	0.57
%CV	1.2%	3.9%	4.1%	1.5%	2.0%
mean+3SD	110.99	112.76	59.46	37.71	29.85
mean-3SD	103.41	89.09	46.44	34.49	26.40
N	4	4	4	4	4
median	107.40	100.10	52.45	36.15	28.15
mean/all kit median	1.12	1.15	1.14	1.12	1.11

**MS AFP DPC Immulite or 2000 (DPB or DPD/DP5) mean:**

mean	90.76	83.50	44.70	30.07	23.88
SD	3.70	3.37	1.68	1.16	1.04
%CV	4.1%	4.0%	3.8%	3.9%	4.4%
mean+3SD	101.86	93.62	49.75	33.55	27.01
mean-3SD	79.66	73.38	39.65	26.60	20.76
N	11	11	11	11	11
median	89.40	84.00	44.20	30.00	23.80
mean/all kit median	0.95	0.96	0.96	0.94	0.94

**MS AFP kit average:**

mean	97.17	89.81	47.69	32.60	25.71
SD	7.19	7.64	3.62	2.60	1.90
all kit median	95.37	87.40	46.56	32.12	25.42

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS AFP MoMs All Lab Mean:</b>					
mean	3.03	2.13	1.02	0.93	0.44
SD	0.31	0.13	0.08	0.07	0.03
%CV	10.3%	6.3%	7.6%	7.9%	6.1%
mean+3SD	3.98	2.54	1.25	1.15	0.52
mean-3SD	2.09	1.73	0.78	0.71	0.36
N	29	28	28	28	28

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	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS UE3 All Lab Mean:</b>					
mean	1.01	1.33	1.79	0.83	0.93
SD	0.33	0.46	0.65	0.23	0.29
%CV	33.1%	35.0%	36.3%	28.2%	31.1%
mean+3SD	2.01	2.72	3.73	1.54	1.81
mean-3SD	0.01	-0.07	-0.16	0.13	0.06
N	30	30	30	30	30
mean/all kit median	1.17	1.21	1.29	1.15	1.16

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS UE3 Diagnostic Systems Liquid (GAA/DS2) mean:</b>					
Mean	0.86	1.10	1.39	0.72	0.81
SD	0.23	0.28	0.28	0.18	0.22
%CV	26.7%	25.8%	20.5%	24.9%	27.6%
mean+3SD	1.55	1.94	2.24	1.26	1.47
mean-3SD	0.17	0.25	0.53	0.18	0.14
N	6	6	6	6	6
median	0.78	1.03	1.35	0.66	0.74
mean/All Kit Median	1.00	1.00	1.00	1.00	1.00

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS UE3 MoMs All Lab Mean:</b>					
mean	0.81	0.75	0.80	0.73	0.34
SD	0.21	0.19	0.16	0.21	0.10
%CV	25.5%	25.6%	20.6%	29.1%	28.7%
mean+3SD	1.43	1.33	1.29	1.36	0.63
mean-3SD	0.19	0.17	0.30	0.09	0.05
N	27	27	27	27	27

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS UE3 DPC Immulite, 2000 or 2500 (DPB, DPD or DPF/DP5) mean:</b>					
mean	1.32	1.77	2.46	1.04	1.21
SD	0.19	0.23	0.22	0.15	0.16
%CV	14.3%	13.0%	8.9%	14.1%	13.1%
mean+3SD	1.89	2.46	3.12	1.49	1.68
mean-3SD	0.75	1.08	1.80	0.60	0.73
N	13	13	13	13	13
median	1.40	1.72	2.38	1.05	1.22
mean/all kit median	1.54	1.62	1.77	1.45	1.50

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS UE3 Beckman Unicel or Access (BCU or BCX/BC1) mean:</b>					
mean	0.68	0.86	1.13	0.61	0.65
SD	0.04	0.06	0.04	0.05	0.03
%CV	6.4%	6.5%	3.8%	7.6%	5.0%
mean+3SD	0.81	1.03	1.26	0.75	0.74
mean-3SD	0.55	0.69	1.00	0.47	0.55
N	10	10	10	10	10
median	0.68	0.87	1.13	0.60	0.65
mean/all kit median	0.79	0.78	0.82	0.85	0.80

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS UE3 kit average:</b>					
mean	0.95	1.24	1.66	0.79	0.89
SD	0.33	0.47	0.71	0.23	0.29
all kit median	0.86	1.10	1.39	0.72	0.81

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	MS 206	MS 207	MS 208	MS 209	MS 210		MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS hCG All Lab Mean:</b>						<b>MS hCG Bayer ADVIA-Centaur or ACS-180 (COB or COS/BA1 or CO1) mean:</b>					
mean	35.45	31.27	26.63	45.71	55.75	mean	36.03	30.98	26.08	45.50	55.08
SD	2.80	2.65	2.46	3.98	5.83	SD	0.96	1.13	1.09	1.42	2.05
%CV	7.9%	8.5%	9.2%	8.7%	10.5%	%CV	2.7%	3.7%	4.2%	3.1%	3.7%
mean+3SD	43.85	39.21	34.01	57.63	73.24	mean+3SD	38.90	34.37	29.35	49.75	61.23
mean-3SD	27.06	23.33	19.25	33.78	38.26	mean-3SD	33.15	27.58	22.80	41.25	48.92
N	26	26	27	27	27	N	4	4	4	4	4
mean/all kit median	0.98	1.01	1.02	1.00	1.01	median	36.25	30.80	26.30	45.05	54.65
						mean/all kit median	1.00	1.00	1.00	1.00	1.00

<b>MS hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:</b>					
mean	35.23	30.46	26.17	45.69	56.47
SD	3.07	3.56	2.63	4.82	6.35
%CV	8.7%	11.7%	10.1%	10.6%	11.2%
mean+3SD	44.45	41.13	34.06	60.16	75.51
mean-3SD	26.01	19.79	18.28	31.22	37.43
N	10	10	10	10	10
median	34.65	30.00	25.70	45.55	54.60
mean/all kit median	0.98	0.98	1.00	1.00	1.02

<b>MS hCG DPC Immulite or 2000 (DPB or D/DP5) mean:</b>					
mean	36.53	33.36	27.36	45.87	55.34
SD	4.76	3.84	2.80	4.33	6.88
%CV	13.0%	11.5%	10.2%	9.4%	12.4%
mean+3SD	50.81	44.88	35.77	58.86	75.96
mean-3SD	22.25	21.85	18.96	32.88	34.71
N	11	11	11	11	11
median	35.10	32.30	27.60	44.50	54.80
mean/all kit median	1.01	1.08	1.05	1.00	1.00

	MS 206	MS 207	MS 208	MS 209	MS 210
<b>MS hCG MoMs All Lab Mean:</b>					
mean	1.26	1.20	1.21	0.99	2.64
SD	0.14	0.14	0.18	0.12	0.31
%CV	11.2%	11.6%	14.6%	12.3%	11.8%
mean+3SD	1.68	1.62	1.74	1.35	3.58
mean-3SD	0.83	0.79	0.68	0.62	1.70
N	26	26	26	25	26

<b>MS hCG kit average:</b>					
mean	35.93	31.60	26.54	45.69	55.63
SD	0.65	1.55	0.72	0.19	0.74
all kit median	36.03	30.98	26.17	45.69	55.34

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	<b>MS 206</b>	<b>MS 207</b>	<b>MS 208</b>	<b>MS 209</b>	<b>MS 210</b>
<b>MS Inhibin A all lab/DSL mean:</b>					
Mean	137.18	144.20	147.17	142.38	437.05
SD	12.86	13.91	14.51	13.38	40.56
%CV	9.4%	9.6%	9.9%	9.4%	9.3%
mean + 3SD	175.78	185.93	190.68	182.52	558.75
mean- 3SD	98.59	102.48	103.65	102.24	315.36
N	26	26	26	26	26
All Lab Median	141.50	144.50	148.45	143.00	434.55

	<b>MS 206</b>	<b>MS 207</b>	<b>MS 208</b>	<b>MS 209</b>	<b>MS 210</b>
<b>MS Inhibin A MoM All Lab Mean:</b>					
<b>Mean</b>	0.89	0.81	0.84	0.66	2.25
<b>SD</b>	0.10	0.10	0.10	0.11	0.33
<b>%CV</b>	11.8%	12.9%	12.0%	15.8%	14.7%
<b>X + 3SD</b>	1.20	1.12	1.14	0.98	3.24
<b>X - 3SD</b>	0.58	0.50	0.54	0.35	1.26
<b>N</b>	25	25	25	25	25

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	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP All Lab Mean :</b>					
mean	11.7	27.4	10.5	4.9	9.9
SD	1.8	4.0	1.2	0.6	1.3
%CV	15.5%	14.7%	11.2%	12.0%	12.7%
mean+3SD	17.2	39.4	14.1	6.7	13.7
mean-3SD	6.3	15.3	7.0	3.2	6.1
N	27	27	27	27	27
mean/all kit median	0.94	0.95	0.97	0.93	0.94

	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP Abbott AxSYM (ABB/AB2 or AB1) mean†:</b>					
mean	13.8	31.9	11.7	5.1	11.1
SD	1.4	1.4	1.0	0.1	0.9
%CV	9.8%	4.5%	8.8%	2.9%	7.9%
mean+3SD	17.8	36.2	14.7	5.6	13.7
mean-3SD	9.7	27.6	8.6	4.7	8.4
<b>N*</b>	5	5	5	5	5
median	14.1	31.4	11.9	5.1	11
mean/all kit median	1.12	1.11	1.07	1.03	1.07

	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP kit average:</b>					
mean	9.8	22.7	8.6	4.0	8.2
SD	5.7	13.1	4.9	2.3	4.7
all kit median	12.4	28.9	10.9	5.0	10.4

	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP MoMs All Lab Mean:</b>					
mean	1.20	2.34	1.09	0.62	1.53
SD	0.12	0.30	0.11	0.07	0.18
%CV	10.3%	12.9%	9.8%	11.9%	11.6%
mean+3SD	1.57	3.25	1.41	0.85	2.07
mean-3SD	0.83	1.43	0.77	0.40	1.00
N	27	28	27	27	27

	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP Beckman Unicel or Access (BCU or BCX/BC1) mean:</b>					
mean	10.5	24.0	9.8	4.5	9.0
SD	0.9	2.4	0.7	0.5	0.7
%CV	9.0%	10.2%	7.2%	10.1%	7.8%
mean+3SD	13.3	31.3	11.9	5.9	11.1
mean-3SD	7.7	16.7	7.7	3.1	6.9
N	9	9	9	9	9
median	10.5	24.3	10	4.5	9
mean/all kit median	0.85	0.83	0.90	0.85	0.86

	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP Bayer ADVIA-Centaur or ACS-180 (COB or COS/BA1 or CO1) mean:</b>					
mean	13.9	31.3	11.6	5.8	11.3
SD	1.3	2.9	1.3	0.5	1.2
%CV	9.3%	9.1%	10.8%	8.8%	10.4%
mean+3SD	17.7	39.8	15.4	7.3	14.9
mean-3SD	10.0	22.7	7.9	4.3	7.8
N	4	4	4	4	4
median	13.5	32.15	11.4	5.75	10.95
mean/all kit median	1.12	1.08	1.07	1.09	1.08

	AF 206	AF 207	AF 208	AF 209	AF 210
<b>AF AFP DPC Immulite or 2000 (DPB or D/DP5) mean:</b>					
mean	10.9	26.5	10.1	4.8	9.6
SD	0.7	2.1	0.8	0.3	0.6
%CV	6.5%	8.0%	7.5%	5.8%	6.0%
mean+3SD	13.1	32.8	12.4	5.7	11.4
mean-3SD	8.8	20.1	7.9	4.0	7.9
N	7	7	7	7	7
median	10.9	26.6	10	4.7	9.7
mean/all kit median	0.88	0.92	0.93	0.91	0.92

\*note: an outlier was excluded from this table (Abbott AxSYM, N was equal to 6)