



New York State Fetal Defect Markers Proficiency Test,  
 January 2010  
 Summary of First Trimester Results

	FT 246	FT 247	FT 248	FT 249	FT 250
<b>FT hCG All Lab Mean:</b>					
mean	65.82	147.73	76.47	84.15	79.76
SD	14.72	42.67	14.87	18.27	16.68
%CV	22.4%	28.9%	19.4%	21.7%	20.9%
X+3SD	110.0	275.7	121.1	139.0	129.8
X-3SD	21.6	19.7	31.9	29.3	29.7
N	16	16	16	16	16
mean/All kit median	1.09	1.12	1.07	1.08	1.08

<b>FT hCG kit average:</b>					
mean	60.7	131.4	71.2	77.8	73.8
SD	10.0	36.2	11.6	13.6	12.7
all kit median	60.7	131.4	71.2	77.8	73.8

	FT246	FT247	FT248	FT249	FT250
<b>FT hCG MoMs All Lab Mean:</b>					
Mean	0.93	2.05	0.93	0.99	0.91
SD	0.12	0.31	0.13	0.14	0.11
%CV	12.8%	15.3%	13.8%	14.1%	11.6%
X+3SD	1.29	2.99	1.31	1.40	1.23
X- 3SD	0.58	1.11	0.55	0.57	0.60
N	14	14	14	14	14
All Median	0.91	2.14	0.92	1.00	0.91

	FT246	FT247	FT248	FT249	FT250
<b>FT hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:</b>					
mean	67.7	156.9	79.4	87.5	82.8
SD	7.0	16.2	8.5	10.1	9.5
%CV	10.3%	10.3%	10.8%	11.6%	11.5%
X+3SD	88.7	205.5	105.1	117.8	111.4
X-3SD	46.7	108.3	53.8	57.1	54.1
N	10	10	10	10	10
median	67.1	156.4	78.4	88.6	83.7
mean/All kit median	1.12	1.19	1.12	1.12	1.12

<b>FT hCG DPC Immulite or 2000 or 2500(DPB or D or F/DP5) mean:</b>					
mean	53.6	105.8	63.0	68.2	64.9
SD	8.0	19.1	7.3	11.3	7.0
%CV	14.9%	18.0%	11.6%	16.6%	10.8%
X+3SD	77.5	162.9	84.8	102.1	86.0
X-3SD	29.7	48.6	41.1	34.2	43.8
N	5	5	5	5	5
median	53.9	105.2	65.1	66.3	66.0
mean/All kit median	0.88	0.81	0.88	0.88	0.88

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	FT 246	FT 247	FT 248	FT 249	FT 250
<b>FT PAPP-A All Lab Mean: (does not include Beckman)</b>					
Mean	4.59	2.45	4.30	4.06	3.41
SD	2.87	1.43	2.62	2.51	2.07
%CV	62.4%	58.4%	61.1%	61.9%	60.8%
mean + 3SD	13.19	6.74	12.17	11.59	9.61
mean- 3SD	-4.01	-1.84	-3.58	-3.48	-2.80
N	10	10	10	10	10
All Lab Median	3.35	1.81	3.10	2.86	2.49
mean/All kit median	0.79	0.80	0.79	0.79	0.79

\*Not included in all lab ( unit in µg/ml)

**FT PAPP-A Beckman Unicel or Access (BCU or BCX/BC1) Mean:**

Mean	1.89	0.96	1.71	1.59	1.30
SD	0.10	0.04	0.08	0.08	0.08
%CV	5.1%	4.4%	4.7%	4.9%	5.8%
X + 3SD	12.71	6.75	11.31	11.16	8.69
X - 3SD	4.42	2.07	4.56	3.91	3.90
N	6	6	6	6	6
Kit Median	1.88	0.96	1.73	1.59	1.29

**FT PAPP-A kit average (does not include Beckman):**

mean	5.83	3.07	5.46	5.15	4.31
SD	0.85	0.48	0.66	0.73	0.54
all kit median	5.83	3.07	5.46	5.15	4.31

	FT 246	FT 247	FT 248	FT 249	FT 250
<b>FT PAPP-A DPC Immulite or 2000 or 2500 (DPB or D or F/DP5) Mean:</b>					
Mean	8.57	4.41	7.94	7.54	6.29
SD	1.38	0.78	1.13	1.21	0.80
%CV	16.1%	17.7%	14.2%	16.0%	12.7%
X + 3SD	12.71	6.75	11.31	11.16	8.69
X - 3SD	4.42	2.07	4.56	3.91	3.90
N	3	3	3	3	3
Kit Median	8.73	4.58	7.98	8.09	6.54
mean/All kit median	1.47	1.44	1.45	1.46	1.46

**FT PAPP-A Diagnostic Systems Lab (DS1) Mean:**

Mean	3.10	1.72	2.98	2.76	2.33
SD	0.31	0.19	0.19	0.25	0.29
%CV	9.9%	11.1%	6.4%	9.2%	12.4%
X + 3SD	4.02	2.29	3.55	3.51	3.20
X - 3SD	2.18	1.15	2.41	2.00	1.47
N	6	6	6	6	6
Kit Median	3.17	1.73	3.04	2.80	2.47
mean/All kit median	0.53	0.56	0.55	0.54	0.54

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

Mean	1.72	1.21	2.37	2.71	2.71
SD	0.90	0.56	1.13	1.32	1.41
%CV	52.2%	46.1%	47.6%	48.8%	51.9%
mean + 3SD	4.41	2.89	5.75	6.67	6.93
mean- 3SD	-0.97	-0.46	-1.01	-1.26	-1.51
N	15	15	15	15	15
All Lab Median	1.44	1.00	1.99	2.15	2.14

New York State Fetal Defect Markers Proficiency Test,  
January 2010  
Summary of Results

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>Gestational Age All Lab Mean:</b>					
Mean	16.0	19.0	15.0	18.0	17.0
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	19.0	15.0	18.0	17.0
X-3*SD	16.0	19.0	15.0	18.0	17.0
N	29	29	29	29	29

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP Siemens/Bayer ADVIA-Centaur(COB/BA1) mean:</b>					
mean	34.9	153.3	28.3	1.4	39.7
N	2	2	2	1	2
mean/all kit median	1.06	1.01	1.02	1.74	1.03

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP All Lab Mean:</b>					
mean	32.4	147.0	27.1	0.8	37.5
SD	2.2	11.4	2.1	0.2	2.6
%CV	6.7%	7.8%	7.8%	31.1%	7.0%
mean+3SD	38.9	181.3	33.4	1.5	45.5
mean-3SD	25.9	112.8	20.8	0.1	29.6
N	29	29	29	24	29
median	32.2	146.2	27.0	0.8	38.1
mean/all kit median	0.99	0.97	0.98	0.95	0.97

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP DPC Immulite or 2000 (DPB or DPD/DP5) mean:</b>					
mean	31.2	137.9	25.7	0.6	35.7
SD	2.7	9.2	1.7	0.2	2.2
%CV	8.6%	6.7%	6.8%	30.8%	6.3%
mean+3SD	39.3	165.4	30.9	1.1	42.5
mean-3SD	23.2	110.4	20.5	0.0	29.0
N	9	9	9	8	9
median	30.1	142.0	25.4	0.6	34.5
mean/all kit median	0.95	0.91	0.92	0.73	0.92

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP Beckman Unicel (BCU/BC1) mean:</b>					
Mean	32.7	149.6	27.3	0.8	38.6
SD	2.2	12.4	2.7	0.2	2.3
%CV	6.8%	8.3%	9.9%	21.3%	6.0%
mean + 3SD	39.4	186.8	35.4	1.3	45.5
mean - 3SD	26.0	112.4	19.1	0.3	31.7
N	7	7	7	6	7
Median	31.6	150.0	27.1	0.8	39.2
mean/All kit median	1.00	0.98	0.97	0.91	1.00

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP kit average:</b>					
mean	32.9	148.4	27.4	0.9	38.2
SD	1.5	7.2	1.2	0.4	1.7
all kit median	32.8	151.3	27.8	0.8	38.6

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP Beckman Access (BCX/BC1) mean:</b>					
mean	32.8	152.9	28.2	0.8	38.7
SD	1.4	9.1	1.6	0.2	2.4
%CV	4.2%	6.0%	5.7%	20.4%	6.1%
mean+3SD	37.0	180.2	33.1	1.4	45.8
mean-3SD	28.6	125.5	23.4	0.3	31.6
N	9	9	9	7	9
median	33.4	155.7	28.1	0.8	38.8
mean/all kit median	1.00	1.01	1.02	1.05	1.00

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS AFP MoMs All Lab Mean:</b>					
mean	1.16	2.76	0.85	0.02	0.75
SD	0.09	0.23	0.08	0.01	0.08
%CV	8.1%	8.3%	9.7%	42.5%	10.0%
mean+3SD	1.45	3.45	1.10	0.04	0.98
mean-3SD	0.88	2.07	0.60	-0.01	0.53
N	29	29	29	26	29

New York State Fetal Defect Markers Proficiency Test,  
January 2010  
Summary of Results

	MS 246	MS 247	MS 248	MS 249	MS 250	MS uE3 DPC Immulite 2000 or 2500(DPD or F/DP5) mean:					
<b>MS uE3 All Lab Mean:</b>						Mean	2.22	4.43	1.78	2.25	3.16
mean	1.53	2.97	1.22	1.57	2.13	SD	0.49	1.21	0.45	0.58	0.73
SD	0.72	1.62	0.61	0.80	1.09	%CV	22.2%	27.4%	25.1%	25.8%	23.1%
%CV	47.2%	54.4%	49.7%	51.0%	51.2%	mean+3SD	3.70	8.06	3.12	4.00	5.36
mean+3SD	3.69	7.82	3.03	3.97	5.39	mean-3SD	0.74	0.79	0.44	0.51	0.97
mean-3SD	-0.64	-1.88	-0.60	-0.83	-1.14	N	11	11	11	11	11
N	28	28	28	27	28	Median	2.21	4.69	1.90	2.41	3.40
mean/all kit median	1.54	1.67	1.57	1.62	1.64	mean/all kit median	2.23	2.49	2.30	2.33	2.43

	MS uE3 Beckman Unicel (BCU/BC1) mean:					MS uE3 BeckmanAccess (BCX/BC1) mean:					
Mean	0.96	1.78	0.77	0.95	1.30	mean	0.99	1.77	0.76	0.97	1.29
SD	0.10	0.14	0.08	0.11	0.10	SD	0.04	0.10	0.05	0.05	0.08
%CV	10.1%	7.8%	10.4%	11.6%	7.8%	%CV	3.9%	5.9%	6.6%	4.9%	6.5%
mean+3SD	1.25	2.20	1.01	1.28	1.60	mean+3SD	1.11	2.09	0.91	1.11	1.54
mean-3SD	0.67	1.36	0.53	0.62	1.00	mean-3SD	0.88	1.46	0.61	0.83	1.04
N	7	7	7	6	7	N	9	9	9	9	9
Median	0.92	1.80	0.73	0.93	1.28	median	1.01	1.81	0.77	0.96	1.28
mean/all kit median	0.96	1.00	1.00	0.98	1.00	mean/all kit median	1.00	1.00	0.98	1.00	0.99

	MS UE3 kit average:				
mean	1.39	2.66	1.11	1.39	1.92
SD	0.72	1.53	0.59	0.75	1.08
all kit median	0.99	1.78	0.77	0.97	1.30

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS uE3 MoMs All Lab Mean:</b>					
Mean	1.25	1.10	1.18	0.74	1.13
SD	0.21	0.17	0.24	0.14	0.20
%CV	17.1%	15.2%	20.6%	19.2%	17.3%
X+3SD	1.90	1.60	1.90	1.17	1.72
X-3SD	0.61	0.60	0.45	0.32	0.54
N	27	28	28	27	28

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Summary of Results

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS hCG All Lab Mean:</b>					
mean	24.29	16.06	27.92	34.89	20.51
SD	2.51	1.58	2.23	3.94	1.97
%CV	10.3%	9.8%	8.0%	11.3%	9.6%
mean+3SD	31.8	20.8	34.6	46.7	26.4
mean-3SD	16.8	11.3	21.2	23.1	14.6
N	27	27	28	27	28
mean/all kit median	0.99	1.00	1.00	0.97	1.01

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS hCG Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:</b>					
mean	25.6	18.4	31.6	38.8	23.3
N	2	2	2	2	2
mean/all kit median	1.04	1.14	1.13	1.08	1.14

**MS hCG Beckman Unicel (BCU/BC1) mean:**

mean	24.86	16.26	28.20	37.07	20.19
SD	3.09	1.30	2.40	4.27	2.00
%CV	12.4%	8.0%	8.5%	11.5%	9.9%
mean+3SD	30.25	21.29	35.38	48.28	26.83
mean-3SD	16.45	9.89	19.60	21.72	13.82
N	7	7	7	6	7
median	25.60	16.60	28.60	36.40	20.60
mean/All kit median	1.01	1.01	1.01	1.03	0.99

**MS hCG DPC Immulite or 2000 (DPB or D/DP5) mean:**

mean	24.4	15.9	27.4	32.5	20.4
SD	2.6	1.4	1.2	2.4	1.8
%CV	10.8%	8.6%	4.5%	7.4%	9.1%
mean+3SD	32.3	20.0	31.1	39.7	25.9
mean-3SD	16.5	11.8	23.7	25.3	14.8
N	9	8	9	9	9
median	23.5	16.0	27.5	32.0	20.8
mean/all kit median	0.99	0.99	0.98	0.90	1.00

**MS hCG Beckman Access (BCX/BC1) mean:**

mean	23.4	15.6	27.5	35.0	20.3
SD	2.3	1.9	2.6	4.4	2.2
%CV	9.8%	12.2%	9.6%	12.6%	10.7%
mean+3SD	30.2	21.3	35.4	48.3	26.8
mean-3SD	16.5	9.9	19.6	21.7	13.8
N	8	9	9	9	9
median	23.2	14.9	26.9	34.4	19.8
mean/all kit median	0.95	0.97	0.99	0.97	1.00

**MS hCG kit average:**

mean	24.5	16.5	28.7	35.8	21.0
SD	0.9	1.2	2.0	2.7	1.5
all kit median	24.6	16.1	27.8	36.0	20.3

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS hCG MoMs All Lab Mean:</b>					
mean	0.97	0.83	0.71	1.67	0.66
SD	0.12	0.10	0.08	0.22	0.08
%CV	12.3%	12.6%	11.5%	13.4%	12.8%
mean+3SD	1.33	1.14	0.95	2.34	0.92
mean-3SD	0.62	0.52	0.46	1.00	0.41
N	27	27	28	27	28

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Summary of Results

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS Inhibin A all lab/DSL mean:</b>					
Mean	137.13	206.33	131.39	141.47	153.66
SD	17.34	20.92	18.02	17.64	18.56
%CV	12.6%	10.1%	13.7%	12.5%	12.1%
mean + 3SD	189.1	269.1	185.5	194.4	209.3
mean- 3SD	85.1	143.6	77.3	88.6	98.0
N	28	28	28	27	28
All Lab Median	141.9	211.5	137.3	143.1	158.0
mean/all kit median	0.95	0.96	0.94	0.96	0.95

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS Inhibin A Beckman Access (BCX/BC1) mean:</b>					
Mean	146.1	215.8	140.1	147.3	162.8
SD	8.7	8.9	9.5	9.6	9.7
%CV	6.0%	4.1%	6.8%	6.5%	6.0%
mean + 3SD	172.2	242.6	168.6	176.0	191.9
mean- 3SD	120.0	189.0	111.7	118.5	133.7
N	13	13	13	13	13
median	145.0	212.0	138.0	146.0	162.6
mean/All kit median	1.01	1.00	1.01	1.00	1.01

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS Inhibin A Beckman Unicel (BCU/BC1) mean:</b>					
Mean	144.3	216.9	139.1	153.7	161.7
SD	9.9	17.5	10.5	12.1	12.0
%CV	6.9%	8.1%	7.5%	7.9%	7.4%
mean + 3SD	174.1	269.4	170.5	189.9	197.6
mean- 3SD	114.5	164.4	107.8	117.4	125.7
N	8	8	8	7	8
median	143.5	217.4	140.8	153.0	159.5
mean/all kit median	1.00	1.01	1.00	1.04	1.00

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS Inhibin A Diagnostic System Labs (DS1) Mean:</b>					
Mean	112.3	176.7	106.3	118.5	127.5
SD	11.0	9.3	13.2	12.5	11.3
%CV	9.8%	5.2%	12.4%	10.6%	8.9%
mean + 3SD	145.4	204.5	145.8	156.0	161.4
mean- 3SD	79.1	148.9	66.8	81.0	93.6
N	7	7	7	7	7
median	115.0	176.8	101.5	111.9	121.1
mean/all kit median	0.78	0.82	0.76	0.80	0.79

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS Inhibin A kit average:</b>					
mean	134.2	203.1	128.5	139.8	150.7
SD	19.0	22.9	19.3	18.7	20.1
all kit median	144.3	215.8	139.1	147.3	161.7

	MS 246	MS 247	MS 248	MS 249	MS 250
<b>MS Inhibin A MoM All Lab Mean:</b>					
mean	0.90	1.15	0.73	0.84	0.77
SD	0.13	0.15	0.11	0.12	0.15
%CV	14.2%	13.5%	15.5%	14.7%	18.8%
mean+3SD	1.28	1.61	1.07	1.22	1.21
mean-3SD	0.52	0.68	0.39	0.47	0.34
N	28	28	28	27	28

