

New York State Fetal Defect Markers Proficiency Test,
January 2008
Summary of Results

	MS216	MS217	MS218	MS219	MS220
Gestational Age All Lab Mean:					
Mean	20.0	17.0	16.0	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	20.0	17.0	16.0	15.0	19.0
X-3*SD	20.0	17.0	16.0	15.0	19.0
N	30	30	30	30	30

MS AFP All Lab Mean:

mean	31.6	37.9	67.6	30.5	39.2
SD	2.9	3.2	5.3	2.7	2.8
%CV	9.2%	8.4%	7.9%	8.7%	7.3%
mean+3SD	40.3	47.4	83.6	38.5	47.8
mean-3SD	22.8	28.4	51.5	22.5	30.7
N	30	30	30	30	30
mean/all kit median	0.97	0.97	0.97	0.96	0.99

MS AFP Abbott (ABB/AB2) mean:

mean	34.2	40.2	72.0	33.6	40.3
SD	3.1	4.9	5.1	3.8	5.9
%CV	9.0%	12.3%	7.1%	11.5%	14.8%
mean+3SD	43.4	55.0	87.4	45.1	58.1
mean-3SD	25.0	25.4	56.6	22.0	22.4
N	3	3	3	3	3
median	34.5	38.3	73.3	31.6	37.4
mean/all kit median	1.05	1.03	1.03	1.06	1.02

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

mean	31.0	37.8	67.2	30.2	38.7
SD	2.4	1.9	4.4	2.2	1.9
%CV	7.8%	5.1%	6.6%	7.2%	4.8%
mean+3SD	38.2	43.6	80.4	36.7	44.3
mean-3SD	23.7	31.9	53.9	23.7	33.2
N	11	11	11	11	11
median	30.9	38.0	67.0	30.3	38.5
mean/all kit median	0.95	0.97	0.97	0.95	0.98

	MS 216	MS 217	MS 218	MS 219	MS 220
MS AFP Bayer ADVIA-Centaur or ACS-180(COB or COS/BA1 or CO1) mean:					
mean	36.1	42.4	73.7	33.4	43.0
SD	1.1	1.4	4.1	0.9	1.5
%CV	2.9%	3.3%	5.5%	2.7%	3.5%
mean+3SD	39.3	46.5	85.9	36.1	47.6
mean-3SD	32.9	38.2	61.5	30.7	38.5
N	4	4	4	4	4
median	36.6	42.2	75.5	33.8	43.0
mean/all kit median	1.11	1.09	1.06	1.05	1.09

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

mean	29.7	35.6	64.2	28.7	37.9
SD	1.5	2.1	4.3	1.4	1.9
%CV	5.2%	5.9%	6.7%	5.1%	4.9%
mean+3SD	34.4	41.9	77.0	33.0	43.5
mean-3SD	25.1	29.4	51.4	24.3	32.3
N	11	11	11	11	11
median	29.8	35.3	63.3	28.4	37.9
mean/all kit median	0.91	0.91	0.92	0.90	0.96

MS AFP kit average:

mean	32.7	39.0	69.3	31.5	40.0
SD	2.9	2.9	4.4	2.4	2.3
all kit median	32.6	39.0	69.6	31.8	39.5

	MS 216	MS 217	MS 218	MS 219	MS 220
MS AFP MoMs All Lab Mean:					
mean	0.55	0.85	2.13	1.25	0.78
SD	0.05	0.07	0.22	0.11	0.05
%CV	8.3%	8.0%	10.3%	8.4%	6.6%
mean+3SD	0.69	1.05	2.79	1.57	0.93
mean-3SD	0.41	0.65	1.47	0.94	0.62
N	29	29	29	29	29

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	MS 216	MS 217	MS 218	MS 219	MS 220
MS uE3 All Lab Mean:					
mean	1.20	1.59	1.32	1.07	1.25
SD	0.47	0.66	0.58	0.45	0.61
%CV	38.7%	41.7%	44.1%	41.8%	48.7%
mean+3SD	2.60	3.57	3.07	2.42	3.08
mean-3SD	-0.19	-0.40	-0.43	-0.27	-0.58
N	30	30	30	30	30
mean/all kit median	1.07	1.11	1.06	1.12	1.08

	MS 216	MS 217	MS 218	MS 219	MS 220
MS uE3 Diagnostic Systems Liquid (GAA/DS2) mean:					
Mean	1.13	1.44	1.25	0.96	1.16
SD	0.16	0.20	0.11	0.12	0.14
%CV	13.9%	14.2%	8.6%	12.2%	12.5%
mean+3SD	1.60	2.05	1.57	1.31	1.59
mean-3SD	0.66	0.82	0.93	0.61	0.72
N	5	5	5	5	5
median	1.08	1.36	1.22	0.90	1.16
mean/All Kit Median	1.00	1.00	1.00	1.00	1.00

	MS216	MS217	MS218	MS219	MS220
MS uE3 MoMs All Lab Mean:					
mean	0.37	0.88	1.03	1.09	0.48
SD	0.13	0.30	0.34	0.38	0.18
%CV	35.2%	34.2%	33.2%	34.5%	38.4%
mean+3SD	0.76	1.78	2.05	2.22	1.03
mean-3SD	-0.02	-0.02	0.01	-0.04	-0.07
N	29	29	29	29	29

	MS 216	MS 217	MS 218	MS 219	MS 220
MS uE3 DPC Immulite, 2000 or 2500 (DPB, DPD or DPF/DP5) mean:					
mean	1.62	2.19	1.90	1.46	1.72
SD	0.26	0.40	0.26	0.33	0.60
%CV	16.3%	18.1%	13.8%	22.8%	34.9%
mean+3SD	2.41	3.38	2.68	2.46	3.51
mean-3SD	0.83	1.00	1.11	0.46	-0.08
N	13	13	12	13	13
median	1.60	2.15	1.89	1.40	1.60
mean/all kit median	1.43	1.53	1.52	1.53	1.48

	MS 216	MS 217	MS 218	MS 219	MS 220
MS uE3 Beckman Unicel or Access (BCU or BCX/BC1) mean:					
mean	0.70	0.89	0.78	0.63	0.71
SD	0.08	0.06	0.08	0.06	0.09
%CV	11.3%	7.1%	10.5%	10.1%	12.9%
mean+3SD	0.94	1.08	1.02	0.82	0.98
mean-3SD	0.46	0.70	0.53	0.44	0.43
N	11	11	11	11	11
median	0.72	0.90	0.77	0.62	0.70
mean/all kit median	0.62	0.62	0.62	0.65	0.61

	MS 216	MS 217	MS 218	MS 219	MS 220
MS UE3 kit average:					
mean	1.15	1.51	1.31	1.02	1.19
SD	0.46	0.65	0.56	0.42	0.51
all kit median	1.13	1.44	1.25	0.96	1.16

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	MS216	MS217	MS218	MS219	MS220	MS 216	MS 217	MS 218	MS 219	MS 220
MS hCG All Lab Mean:						MS hCG Bayer ADVIA-Centaur (COB/BA1) mean:				
mean	41.1	26.7	41.9	39.1	10.1	mean	43.9	27.8	45.0	42.3
SD	4.5	3.3	4.2	5.3	1.1	SD	1.2	1.8	0.3	2.2
%CV	11.1%	12.2%	10.0%	13.6%	11.2%	%CV	2.6%	6.6%	0.6%	5.3%
mean+3SD	54.8	36.4	54.5	55.1	13.5	mean+3SD	47.3	33.3	45.8	49.0
mean-3SD	27.5	16.9	29.3	23.2	6.7	mean-3SD	40.4	22.3	44.2	35.6
N	28	28	27	28	27	N	4	4	4	4
mean/all kit median	1.00	0.98	0.96	0.97	0.98	median	43.8	28.5	45.1	42.6
						mean/all kit median	1.07	1.02	1.03	1.05

	MS216	MS217	MS218	MS219	MS220
MS hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:					
mean	41.0	27.2	43.7	40.2	10.3
SD	5.1	4.0	7.2	5.9	1.4
%CV	12.5%	14.7%	16.5%	14.7%	13.8%
mean+3SD	56.4	39.2	65.2	57.9	14.6
mean-3SD	25.7	15.2	22.1	22.5	6.1
N	11	11	11	11	11
median	41.6	27.5	43.4	40.7	10.7
mean/all kit median	1.00	1.00	1.00	1.00	1.00

	MS 216	MS 217	MS 218	MS 219	MS 220
MS hCG DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	41.1	26.3	41.0	37.8	9.8
SD	4.1	2.4	3.6	4.9	1.0
%CV	9.9%	9.1%	8.9%	13.1%	10.2%
mean+3SD	53.2	33.5	51.9	52.6	12.8
mean-3SD	28.9	19.1	30.0	23.0	6.8
N	11	11	11	11	11
median	40.9	26.5	40.6	36.3	10.0
mean/all kit median	1.00	0.97	0.94	0.94	0.94

	MS216	MS217	MS218	MS219	MS220
MS hCG MoMs All Lab Mean:					
mean	2.35	0.93	1.29	1.21	0.52
SD	0.38	0.13	0.19	0.22	0.09
%CV	16.2%	14.1%	14.4%	18.2%	17.7%
mean+3SD	3.49	1.31	1.84	1.87	0.79
mean-3SD	1.21	0.54	0.73	0.55	0.24
N	28	28	27	28	28

	MS 216	MS 217	MS 218	MS 219	MS 220
MS hCG kit average:					
mean	42.0	27.1	43.2	40.1	10.2
SD	1.6	0.8	2.0	2.3	0.3
all kit median	41.1	27.2	43.7	40.2	10.3

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	MS 216	MS 217	MS 218	MS 219	MS 220
MS Inhibin A all lab/DSL mean:					
Mean	519.5	186.0	162.2	175.5	187.6
SD	46.1	14.4	17.6	14.4	16.7
%CV	8.9%	7.7%	10.8%	8.2%	8.9%
mean + 3SD	657.9	229.1	214.9	218.8	237.7
mean- 3SD	381.1	142.8	109.5	132.2	137.4
N	26	26	26	26	26
All Lab Median	525.0	186.4	162.5	172.8	185.0
mean/all kit median	1.00	0.99	0.99	1.00	1.00

	MS 216	MS 217	MS 218	MS 219	MS 220
MS Inhibin A Beckman Unicel or Access (BCU or BCX/BC1) mean:					
Mean	528.8	193.3	169.2	181.4	192.5
SD	38.2	13.9	12.5	15.0	17.3
%CV	7.2%	7.2%	7.4%	8.3%	9.0%
X + 3SD	643.4	235.0	206.7	226.4	244.2
X - 3SD	414.1	151.6	131.7	136.5	140.7
N	11	11	11	11	11
median	532.6	193.8	169.2	182.2	186.8
mean/all kit median	1.02	1.03	1.04	1.03	1.02

	MS 216	MS 217	MS 218	MS 219	MS 220
MS Inhibin A Diagnostic System Labs (DS1) Mean:					
Mean	512.7	180.6	157.1	171.2	184.0
SD	51.4	12.6	19.3	12.8	15.9
%CV	10.0%	7.0%	12.3%	7.5%	8.6%
X + 3SD	666.9	218.5	215.0	209.5	231.7
X - 3SD	358.6	142.7	99.2	132.8	136.3
N	15	15	15	15	15
median	513.4	185.5	157.0	169.0	179.6
mean/all kit median	0.98	0.97	0.96	0.97	0.98

	MS 216	MS 217	MS 218	MS 219	MS 220
MS Inhibin A kit average:					
mean	512.7	180.6	157.1	171.2	184.0
SD	11.3	9.0	8.6	7.3	6.0
all kit median	520.7	186.9	163.1	176.3	188.2

	MS216	MS217	MS218	MS219	MS220
MS Inhibin A MoM All Lab Mean:					
Mean	2.80	1.01	0.96	1.08	1.07
SD	0.32	0.12	0.13	0.14	0.13
%CV	11.4%	12.3%	13.8%	12.9%	11.8%
X + 3SD	3.75	1.39	1.35	1.50	1.45
X - 3SD	1.85	0.64	0.56	0.67	0.69
N	26	26	26	26	26

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	AF 216	AF 217	AF 218	AF 219	AF 220		AF 216	AF 217	AF 218	AF 219	AF 220
AF AFP All Lab Mean :						AF AFP Beckman Unicel or Access (BCU or BCX/BC1) mean:					
mean	2.9	7.1	24.4	3.8	4.8	mean	2.8	6.2	21.4	3.5	4.3
SD	0.6	1.2	4.7	0.6	0.7	SD	0.3	0.5	2.2	0.4	0.5
%CV	19.5%	16.9%	19.2%	16.0%	15.2%	%CV	9.8%	8.8%	10.1%	11.8%	11.1%
mean+3SD	4.6	10.7	38.5	5.6	6.9	mean+3SD	3.6	7.9	27.9	4.7	5.7
mean-3SD	1.2	3.5	10.4	2.0	2.6	mean-3SD	1.9	4.6	14.9	2.3	2.9
N	28	28	28	28	28	N	10	10	10	10	10
mean/all kit median	1.01	0.93	0.94	0.95	0.94	median	2.8	6.1	21.15	3.35	4.3
						mean/all kit median	0.96	0.82	0.82	0.88	0.85

AF AFP Abbott AxSYM (ABB/AB2) mean:					
mean	3.0	8.6	30.2	4.4	5.4
SD	0.1	0.2	2.5	0.5	0.3
%CV	3.8%	2.4%	8.2%	11.0%	5.5%
mean+3SD	3.3	9.2	37.7	5.8	6.3
mean-3SD	2.7	7.9	22.8	2.9	4.5
N*	4	4	4	4	4
median	3	8.55	30.2	4.25	5.45
mean/all kit median	1.04	1.13	1.16	1.10	1.06

AF AFP Bayer ADVIA-Centaur or ACS-180 (COB or COS/BA1 or CO1) mean:					
mean	4.1	9.0	31.9	4.3	5.9
SD	0.2	0.3	1.6	0.4	0.4
%CV	6.0%	3.6%	4.9%	9.4%	7.6%
mean+3SD	4.8	9.9	36.5	5.5	7.2
mean-3SD	3.4	8.0	27.2	3.1	4.5
N	4	4	4	4	4
median	4.15	8.95	31.75	4.3	5.8
mean/all kit median	1.42	1.18	1.22	1.08	1.15

AF AFP kit average:					
mean	2.5	6.1	21.1	3.2	4.1
SD	1.5	3.6	12.7	1.8	2.3
all kit median	2.9	7.6	26.1	4.0	5.1

AF AFP DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	2.5	6.6	21.9	3.7	4.8
SD	0.2	0.5	1.7	0.4	0.3
%CV	6.4%	7.1%	7.7%	10.5%	6.6%
mean+3SD	3.0	8.0	26.9	4.8	5.7
mean-3SD	2.0	5.2	16.9	2.5	3.8
N	8	8	8	8	8
median	2.45	6.45	22.05	3.585	4.83
mean/all kit median	0.86	0.87	0.84	0.92	0.94

	AF 216	AF 217	AF 218	AF 219	AF 220
AF AFP MoMs All Lab Mean:					
mean	0.45	0.73	1.70	0.88	0.62
SD	0.06	0.08	0.23	0.11	0.07
%CV	12.7%	10.6%	13.3%	12.3%	10.7%
mean+3SD	0.62	0.97	2.38	1.20	0.81
mean-3SD	0.28	0.50	1.02	0.56	0.42
N	28	28	28	26	28

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 Summary of First Trimester Results

	FT216	FT217	FT218
Gestational Age All Lab Mean:			
Mean	10.9	13.1	11.9
SD	0.15	0.11	0.10
%CV	1.3%	0.8%	0.8%
X+3*SD	11.4	13.4	12.1
X-3*SD	10.5	12.8	11.6
N	13	13	13

FT hCG All Lab Mean:			
mean	83.1	51.6	169.9
SD	10.6	7.7	24.9
%CV	12.8%	14.9%	14.7%
X+3SD	114.9	74.7	244.8
X-3SD	51.3	28.5	95.1
N	13	13	13
mean/All kit median	1.01	1.03	1.02

	FT 216	FT 217	FT 218
FT hCG MoMs All Lab Mean:			
Mean	1.01	0.84	2.22
SD	0.12	0.09	0.28
%CV	11.8%	10.8%	12.4%
X+3SD	1.36	1.11	3.05
X- 3SD	0.65	0.57	1.39
N	12	12	12
All Median	1.00	0.86	2.25

	FT 216	FT 217	FT 218
FT hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:			
mean	84.6	53.6	177.3
SD	13.6	8.3	27.2
%CV	16.1%	15.4%	15.4%
X+3SD	125.3	78.4	259.0
X-3SD	43.8	28.8	95.6
N	7	7	7
median	80.6	53.6	170.6
mean/All kit median	1.03	1.06	1.07

FT hCG DPC Immulite or 2000 (DPB or D/DP5) mean:			
mean	79.4	47.1	154.6
SD	4.8	4.9	14.4
%CV	6.0%	10.5%	9.3%
X+3SD	93.8	61.9	197.7
X-3SD	65.0	32.3	111.5
N	5	5	5
median	77.8	46.7	162.3
mean/All kit median	0.97	0.94	0.93

FT hCG kit average:			
mean	82.0	50.4	166.0
SD	3.6	4.6	16.1
all kit median	82.0	50.4	166.0

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	FT 216	FT 217	FT 218
FT PAPP-A All Lab Mean:			
Mean	2.56	4.30	1.72
SD	1.26	1.94	0.88
%CV	49.3%	45.1%	51.3%
mean + 3SD	6.33	10.12	4.36
mean- 3SD	-1.22	-1.52	-0.93
N	13	13	12
All Lab Median	1.90	3.20	1.20
mean/All kit median	0.90	0.91	0.93

FT PAPP-A Diagnostic System Labs (DS1) Mean:			
Mean	1.62	2.90	1.03
SD	0.23	0.71	0.17
%CV	14.3%	24.4%	16.8%
X + 3SD	2.32	5.03	1.55
X - 3SD	0.92	0.78	0.51
N	8	8	7
Kit Median	1.69	2.80	1.00
mean/All kit median	0.57	0.62	0.55

FT PAPP-A MoM All Lab Mean:			
Mean	2.41	1.81	1.03
SD	1.35	0.92	0.58
%CV	56.0%	50.8%	57.0%
mean + 3SD	6.45	4.56	2.78
mean- 3SD	-1.63	-0.95	-0.73
N	12	12	12
All Lab Median	1.66	1.62	0.67

	FT 216	FT 217	FT 218
FT PAPP-A DPC Immullite or 2000 (DPB or D/DP5) Mean:			
Mean	4.05	6.54	2.68
SD	0.34	0.51	0.31
%CV	8.4%	7.8%	11.5%
X + 3SD	5.07	8.07	3.61
X - 3SD	3.03	5.00	1.76
N	5	5.00	5.00
Kit Median	4.05	6.79	2.60
mean/All kit median	1.43	1.38	1.45

FT PAPP-A kit average:			
mean	2.84	4.72	1.85
SD	0.29	0.61	0.24
all kit median	0.11	0.16	0.14