

New York State Fetal Defect Markers Proficiency Test,
January 2009
Summary of Results

	MS 231	MS 232	MS 233	MS 234	MS 235
Gestational Age All Lab Mean:					
Mean	19.0	17.0	19.0	16.0	18.0
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	19.0	17.0	19.0	16.0	18.0
X-3*SD	19.0	17.0	19.0	16.0	18.0
N	28	28	28	28	28

MS AFP All Lab Mean:

mean	157.1	39.8	159.3	34.9	17.9
SD	9.7	2.9	10.1	1.7	1.2
%CV	6.2%	7.4%	6.3%	4.8%	6.5%
mean+3SD	186.2	48.7	189.7	39.9	21.4
mean-3SD	127.9	31.0	129.0	29.9	14.4
N	29	29	28	29	29
median	155.2	39.4	158.7	34.8	17.9
mean/all kit median	1.00	1.00	0.98	1.00	0.99

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

mean	157.3	40.0	163.0	34.8	18.0
SD	11.6	3.6	11.4	1.9	1.1
%CV	7.3%	8.9%	7.0%	5.6%	6.3%
mean+3SD	192.0	50.7	197.1	40.7	21.4
mean-3SD	122.7	29.3	128.9	29.0	14.6
N	15	15	15	15	15
median	155.1	38.9	160.8	34.6	17.8
mean/all kit median	1.00	1.00	1.00	1.00	1.00

	MS 231	MS 232	MS 233	MS 234	MS 235
MS AFP Siemens/Bayer ADVIA-Centaur or ACS-180(COB or COS/BA1 or CO1) mean:					
mean	166.6	42.1	162.7	36.3	19.4
SD	10.9	1.8	1.5	1.5	0.8
%CV	6.5%	4.2%	0.9%	4.0%	4.1%
mean+3SD	199.3	47.5	167.1	40.7	21.8
mean-3SD	134.0	36.8	158.4	31.9	17.0
N	3	3	3	3	3
median	168.1	41.7	162.7	36.2	19.5
mean/all kit median	1.06	1.05	1.00	1.04	1.08

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

mean	153.3	38.9	151.6	34.5	17.4
SD	4.0	2.0	4.2	1.3	0.8
%CV	2.6%	5.2%	2.7%	3.8%	4.8%
mean+3SD	165.3	45.0	164.0	38.4	19.9
mean-3SD	141.3	32.9	139.1	30.6	14.8
N	9	9	9	9	9
median	152.0	39.4	151.0	34.7	17.3
mean/all kit median	0.97	0.97	0.93	0.99	0.96

MS AFP kit average:

mean	159.1	40.4	159.1	35.2	18.3
SD	6.8	1.6	6.5	1.0	1.1
all kit median	157.3	40.0	162.7	34.8	18.0

	MS 231	MS 232	MS 233	MS 234	MS 235
MS AFP MoMs All Lab Mean:					
mean	3.15	1.04	3.20	0.87	0.39
SD	0.21	0.08	0.24	0.07	0.03
%CV	6.7%	7.5%	7.6%	7.8%	7.0%
mean+3SD	3.79	1.28	3.93	1.08	0.47
mean-3SD	2.52	0.81	2.48	0.67	0.31
N	29	29	29	29	29

New York State Fetal Defect Markers Proficiency Test,
January 2009
Summary of Results

	MS 231	MS 232	MS 233	MS 234	MS 235		MS 231	MS 232	MS 233	MS 234	MS 235
MS uE3 All Lab Mean:						MS uE3 DPC Immulite or 2500 (DPB or DPF/DP5) mean:					
mean	2.07	1.32	2.17	0.98	0.73	mean	3.06	1.70	3.19	1.29	0.96
SD	0.98	0.58	1.09	0.37	0.28	SD	0.17	0.10	0.01	0.09	0.19
%CV	47.5%	43.9%	50.4%	38.0%	38.1%	%CV	5.7%	5.9%	0.2%	7.1%	20.1%
mean+3SD	5.03	3.05	5.45	2.09	1.57	mean+3SD	3.58	2.00	3.21	1.56	1.54
mean-3SD	-0.88	-0.42	-1.11	-0.14	-0.11	mean-3SD	2.54	1.40	3.18	1.01	0.38
N	28	28	28	28	28	N	3	3	3	3	3
mean/all kit median	1.14	1.07	1.10	0.96	0.98	median	3.10	1.70	3.19	1.30	1.04
						mean/all kit median	1.69	1.38	1.62	1.26	1.28

	MS 231	MS 232	MS 233	MS 234	MS 235		MS 231	MS 232	MS 233	MS 234	MS 235
MS uE3 Beckman Unicel (BCU/BC1) mean:						MS uE3 DPC Immulite 2000 (DPD/DP5) mean:					
Mean	1.18	0.77	1.19	0.62	0.51	Mean	3.14	2.01	3.38	1.37	1.01
SD	0.11	0.09	0.07	0.09	0.09	SD	0.54	0.23	0.55	0.24	0.22
%CV	9.4%	11.2%	6.3%	15.0%	18.2%	%CV	17.1%	11.5%	16.3%	17.3%	21.6%
mean+3SD	1.51	1.03	1.42	0.90	0.78	mean+3SD	4.75	2.70	5.04	2.08	1.67
mean-3SD	0.84	0.51	0.97	0.34	0.23	mean-3SD	1.53	1.32	1.72	0.66	0.36
N	5	5	5	5	5	N	9	9	9	9	9
Median	1.20	0.79	1.20	0.65	0.54	Median	3.10	2.02	3.12	1.41	0.98
mean/all kit median	0.65	0.63	0.60	0.61	0.68	mean/all kit median	1.73	1.63	1.71	1.34	1.35

	MS 231	MS 232	MS 233	MS 234	MS 235		MS 231	MS 232	MS 233	MS 234	MS 235
MS uE3 BeckmanAccess (BCX/BC1) mean:						MS uE3 Diagnostic Systems Liquid (GAA/DS2) mean:					
mean	1.23	0.81	1.20	0.67	0.50	Mean	1.82	1.23	1.98	1.02	0.75
SD	0.08	0.06	0.09	0.04	0.04	N	2	2	2	2	2
%CV	6.7%	7.5%	7.6%	6.2%	8.3%	median	1.82	1.23	1.98	1.02	0.75
mean+3SD	1.48	1.00	1.48	0.79	0.62	mean/all kit median	1.00	1.00	1.00	1.00	1.00
mean-3SD	0.98	0.63	0.93	0.54	0.38						
N	9	9	9	9	9						
median	1.22	0.82	1.22	0.67	0.52						
mean/all kit median	0.68	0.66	0.61	0.65	0.67						

	MS 231	MS 232	MS 233	MS 234	MS 235
MS uE3 MoMs All Lab Mean:					
mean	0.77	0.72	0.77	0.72	0.35
SD	0.18	0.12	0.16	0.23	0.11
%CV	23.1%	16.3%	20.1%	32.1%	31.9%
mean+3SD	1.30	1.08	1.24	1.42	0.69
mean-3SD	0.24	0.37	0.31	0.03	0.01
N	27	25	26	27	27

	MS 231	MS 232	MS 233	MS 234	MS 235
MS UE3 kit average:					
mean	2.08	1.31	2.19	0.99	0.75
SD	0.96	0.54	1.05	0.35	0.24
all kit median	1.82	1.23	1.98	1.02	0.75

New York State Fetal Defect Markers Proficiency Test,
January 2009
Summary of Results

	MS 231	MS 232	MS 233	MS 234	MS 235		MS 231	MS 232	MS 233	MS 234	MS 235
MS hCG All Lab Mean:						MS hCG Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:					
mean	19.0	24.9	19.1	27.7	35.7	mean	20.2	25.6	20.3	29.3	38.2
SD	1.5	2.2	1.6	2.4	3.5	SD	0.3	0.2	0.5	0.7	1.0
%CV	7.9%	8.8%	8.2%	8.5%	9.7%	%CV	1.2%	0.9%	2.3%	2.4%	2.7%
mean+3SD	23.4	31.5	23.8	34.8	46.1	mean+3SD	20.9	26.3	21.7	31.4	41.3
mean-3SD	14.5	18.3	14.4	20.6	25.3	mean-3SD	19.4	24.9	18.9	27.1	35.0
N	28	28	28	28	28	N	3	3	3	3	3
mean/all kit median	0.99	0.99	0.99	0.98	1.00	median	20.2	25.5	20.0	29.4	38.5
						mean/all kit median	1.05	1.02	1.05	1.04	1.07

MS hCG Beckman Unicel (BCU/BC1) mean:					
mean	17.87	25.62	19.47	27.85	35.22
SD	1.37	3.27	1.94	2.60	3.56
%CV	7.7%	12.8%	10.0%	9.3%	10.1%
X+3SD	23.64	30.72	25.11	37.13	50.14
X-3SD	14.69	18.55	13.02	19.78	22.66
N	6	6	6	6	6
median	17.35	24.40	19.30	28.25	35.50
mean/All kit median	0.93	1.02	1.01	0.99	0.98

MS hCG DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	19.1	24.6	18.5	26.6	34.8
SD	1.6	2.1	0.9	1.6	2.7
%CV	8.4%	8.5%	5.1%	6.0%	7.7%
mean+3SD	23.9	30.9	21.4	31.3	42.8
mean-3SD	14.3	18.4	15.7	21.8	26.8
N	9	9	9	9	9
median	19.0	24.3	18.5	27.2	34.4
mean/all kit median	1.00	0.98	0.96	0.94	0.97

MS hCG Beckman Access (BCX/BC1) mean:					
mean	19.2	24.6	19.1	28.5	36.4
SD	1.5	2.0	2.0	2.9	4.6
%CV	7.8%	8.2%	10.6%	10.2%	12.6%
mean+3SD	23.6	30.7	25.1	37.1	50.1
mean-3SD	14.7	18.6	13.0	19.8	22.7
N	9	9	9	9	9
median	19.0	24.8	19.3	29.4	38.8
mean/all kit median	1.00	0.98	0.99	1.01	1.02

MS hCG kit average:					
mean	19.1	25.1	19.3	28.0	36.1
SD	0.9	0.6	0.7	1.1	1.5
all kit median	19.1	25.1	19.3	28.2	35.8

	MS 231	MS 232	MS 233	MS 234	MS 235
MS hCG MoMs All Lab Mean:					
mean	1.03	1.02	1.04	0.83	1.63
SD	0.13	0.12	0.11	0.09	0.18
%CV	12.4%	11.7%	10.9%	11.1%	10.9%
mean+3SD	1.41	1.38	1.38	1.10	2.16
mean-3SD	0.65	0.66	0.70	0.55	1.09
N	27	27	27	27	27

New York State Fetal Defect Markers Proficiency Test,
January 2009
Summary of Results

	MS 231	MS 232	MS 233	MS 234	MS 235
MS Inhibin A all lab/DSL mean:					
Mean	193.6	141.6	210.5	128.3	263.1
SD	15.0	11.2	21.4	8.9	20.5
%CV	7.7%	7.9%	10.2%	6.9%	7.8%
mean + 3SD	238.6	175.2	274.8	155.0	324.5
mean- 3SD	148.6	108.0	146.2	101.6	201.7
N	27	27	27	27	27
All Lab Median	197.1	142.0	211.1	129.0	262.1
mean/all kit median	1.02	1.02	1.03	1.01	1.00

	MS 231	MS 232	MS 233	MS 234	MS 235
MS Inhibin A Beckman Unicel or Access (BCU or BCX/BC1) mean:					
Mean	199.9	146.5	222.3	130.1	265.1
SD	11.0	7.4	14.8	6.9	20.4
%CV	5.5%	5.0%	6.6%	5.3%	7.7%
X + 3SD	233.0	168.5	266.5	150.7	326.2
X - 3SD	166.9	124.4	178.0	109.5	204.0
N	18	18	18	18	18
median	198.9	145.4	222.8	129.4	270.5
mean/all kit median	1.05	1.05	1.09	1.02	1.01

	MS 231	MS 232	MS 233	MS 234	MS 235
MS Inhibin A Diagnostic System Labs (DS1) Mean:					
Mean	180.9	131.9	186.9	124.8	259.1
SD	14.2	11.6	9.8	11.7	21.2
%CV	7.8%	8.8%	5.2%	9.4%	8.2%
X + 3SD	223.4	166.7	216.2	159.8	322.8
X - 3SD	138.3	97.2	157.6	89.8	195.3
N	9	9	9	9	9
median	179.0	134.9	186.3	128.7	255.0
mean/all kit median	0.95	0.95	0.91	0.98	0.99

	MS 231	MS 232	MS 233	MS 234	MS 235
MS Inhibin A kit average:					
mean	180.9	131.9	186.9	124.8	259.1
SD	13.5	10.3	25.0	3.7	4.3
all kit median	190.4	139.2	204.6	127.4	262.1

	MS 231	MS 232	MS 233	MS 234	MS 235
MS Inhibin A MoM All Lab Mean:					
Mean	1.12	0.86	1.22	0.71	1.51
SD	0.11	0.06	0.15	0.06	0.12
%CV	9.8%	6.6%	12.6%	8.2%	7.7%
X + 3SD	1.45	1.03	1.68	0.89	1.86
X - 3SD	0.79	0.69	0.76	0.54	1.16
N	27	26	27	27	27

New York State Fetal Defect Markers Proficiency Test,
January 2009
Summary of Results

	AF 231	AF 232	AF 233	AF 234	AF 235	AF 231	AF 232	AF 233	AF 234	AF 235	
AF AFP All Lab Mean :						AF AFP Beckman Unicel (BCU/BC1) mean:					
mean	17.8	6.7	6.7	6.8	4.6	Mean	14.4	5.5	5.3	5.3	3.7
SD	2.5	0.9	0.9	1.1	0.7	SD	1.4	0.6	0.4	0.2	0.3
%CV	14.1%	13.4%	13.9%	16.7%	15.1%	%CV	10.0%	11.7%	6.7%	4.3%	7.9%
mean+3SD	25.3	9.4	9.5	10.1	6.6	X+3SD	19.7	7.4	7.6	7.4	4.9
mean-3SD	10.3	4.0	3.9	3.4	2.5	X-3SD	14.4	5.4	5.2	5.2	3.7
N	27	27	27	27	27	N	5	5	5	5	5
mean/all kit median	0.94	0.92	0.91	0.92	0.95	median	14.2	5.3	5.3	5.5	3.7
						mean/All kit median	0.79	0.80	0.76	0.78	0.82

AF AFP Abbott AxSYM (ABB/AB2) mean:					
mean	21.4	7.7	7.8	7.9	5.1
SD	2.0	0.6	0.6	0.8	0.4
%CV	9.2%	8.4%	7.5%	9.9%	8.6%
mean+3SD	27.3	9.6	9.6	10.2	6.4
mean-3SD	15.5	5.7	6.0	5.6	3.7
N*	4	4	4	4	4
median	22	7.9	7.9	8.15	4.95
mean/all kit median	1.13	1.05	1.06	1.07	1.05

AF AFP Beckman Access (BCX/BC1) mean:					
mean	17.1	6.4	6.4	6.3	4.3
SD	0.9	0.3	0.4	0.4	0.2
%CV	5.2%	5.0%	6.3%	5.6%	4.7%
mean+3SD	19.7	7.4	7.6	7.4	4.9
mean-3SD	14.4	5.4	5.2	5.2	3.7
N	8	8	8	8	8
median	16.8	6.3	6.5	6.4	4.3
mean/all kit median	0.93	0.93	0.92	0.92	0.94

AF AFP Siemens/Bayer ADVIA-Centaur or ACS-180 (COB or COS/BA1 or CO1) mean:					
mean	19.7	8.0	7.8	8.7	5.8
SD	2.2	0.3	0.2	0.7	0.6
%CV	11.0%	4.0%	2.7%	8.0%	9.9%
mean+3SD	26.2	8.9	8.5	10.8	7.6
mean-3SD	13.2	7.0	7.2	6.6	4.1
N	3	3	3	3	3
median	20.8	8.1	7.9	8.4	5.5
mean/all kit median	1.08	1.15	1.12	1.27	1.27

AF AFP DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	18.3	6.9	7.0	6.9	4.6
SD	0.4	0.4	0.2	0.4	0.4
%CV	2.2%	6.0%	3.3%	5.9%	8.9%
mean+3SD	19.5	8.2	7.7	8.1	5.8
mean-3SD	17.1	5.7	6.3	5.6	3.4
N	6	6	6	6	6
median	18.2	7.1	6.95	6.9	4.65
mean/all kit median	1.00	1.00	1.00	1.00	1.00

AF AFP kit average:					
mean	15.3	5.8	5.8	6.0	4.0
SD	8.7	3.3	3.3	3.5	2.3
all kit median	19.0	7.3	7.4	7.4	4.8

	AF 231	AF 232	AF 233	AF 234	AF 235
AF AFP MoMs All Lab Mean:					
mean	2.27	1.23	1.03	1.22	0.48
SD	0.26	0.24	0.12	0.28	0.05
%CV	11.3%	19.6%	11.5%	22.6%	10.5%
mean+3SD	3.04	1.95	1.39	2.05	0.62
mean-3SD	1.50	0.50	0.68	0.39	0.33
N	26	26	26	26	26

New York State Fetal Defect Markers Proficiency Test,
 January 2009
 Summary of First Trimester Results

	FT231	FT232	FT233	FT234	FT235
FT Gestational Age All Lab Mean:					
Mean	12.0	11.0	12.0	13.1	11.5
SD	0.25	0.24	0.25	0.22	0.25
%CV	2.1%	2.2%	2.1%	1.7%	2.2%
X+3*SD	12.8	11.8	12.8	13.7	12.3
X-3*SD	11.3	10.3	11.3	12.4	10.8
N	16	16	16	16	16

	FT231	FT232	FT233	FT234	FT235
FT NT MoMs All Lab Mean:					
Mean	2.27	1.05	2.27	0.69	0.95
SD	0.36	0.16	0.36	0.10	0.15
%CV	16.1%	15.0%	16.1%	14.9%	15.6%
X+3SD	3.37	1.52	3.37	1.00	1.39
X- 3SD	1.18	0.58	1.18	0.38	0.50
N	15	15	15	15	15
All Median	2.13	1.06	2.13	0.65	0.91

New York State Fetal Defect Markers Proficiency Test,
 January 2009
 Summary of First Trimester Results

	FT 231	FT 232	FT 233	FT 234	FT 235
FT hCG All Lab Mean:					
mean	160.0	81.9	155.4	63.0	75.6
SD	22.4	11.5	21.7	7.9	8.9
%CV	14.0%	14.1%	13.9%	12.5%	11.8%
X+3SD	227.1	116.6	220.4	86.6	102.3
X-3SD	92.9	47.3	90.4	39.4	48.9
N	16	16	16	16	16
mean/All kit median	1.02	1.02	1.04	1.02	1.02

FT hCG kit average:					
mean	156.3	80.2	148.7	61.7	74.5
SD	13.9	6.5	25.2	4.9	4.3
all kit median	156.3	80.2	148.7	61.7	74.5

	FT231	FT232	FT233	FT234	FT235
FT hCG MoMs All Lab Mean:					
Mean	2.18	0.96	2.12	1.01	0.91
SD	0.32	0.15	0.26	0.13	0.12
%CV	14.6%	15.7%	12.3%	13.2%	13.7%
X+3SD	3.14	1.41	2.91	1.41	1.28
X- 3SD	1.23	0.51	1.34	0.61	0.53
N	14	14	14	14	14
All Median	2.23	0.96	2.09	0.98	0.91

	FT231	FT232	FT233	FT234	FT235
FT hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:					
mean	166.1	84.8	166.6	65.2	77.5
SD	19.4	12.0	14.8	7.9	9.9
%CV	11.7%	14.1%	8.9%	12.1%	12.7%
X+3SD	224.4	120.7	211.0	88.8	107.1
X-3SD	107.9	48.9	122.1	41.6	47.9
N	11	11	11	11	11
median	168.9	82.4	166.7	64.5	78.3
mean/All kit median	1.06	1.06	1.12	1.06	1.04

FT hCG DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	146.5	75.6	130.9	58.2	71.4
SD	24.6	8.3	10.9	6.0	4.7
%CV	16.8%	10.9%	8.3%	10.2%	6.5%
X+3SD	220.1	100.4	163.5	76.1	85.4
X-3SD	72.8	50.8	98.2	40.3	57.4
N	5	5	5	5	5
median	149.4	77.5	133.0	58.7	73.9
mean/All kit median	0.94	0.94	0.88	0.94	0.96

New York State Fetal Defect Markers Proficiency Test,
 January 2009
 Summary of First Trimester Results

	FT 231	FT 232	FT 233	FT 234	FT 235
FT PAPP-A All Lab Mean:					
Mean	1.07	1.89	0.91	3.15	2.13
SD	0.50	0.85	0.46	1.47	1.02
%CV	46.9%	45.1%	50.9%	46.6%	47.7%
mean + 3SD	2.58	4.45	2.29	7.56	5.17
mean- 3SD	-0.44	-0.67	-0.48	-1.26	-0.92
N	16	16	16	16	16
All Lab Median	0.88	1.61	0.73	2.62	1.78
mean/All kit median	0.80	0.80	0.78	0.79	0.79

FT PAPP-A kit average:					
mean	1.35	2.37	1.16	3.98	2.69
SD	0.19	0.25	0.11	0.41	0.39
all kit median	1.35	2.37	1.16	3.98	2.69

FT PAPP-A MoM All Lab Mean:					
Mean	0.77	1.86	0.65	1.44	1.55
SD	0.34	0.83	0.32	0.68	0.70
%CV	44.9%	44.6%	49.0%	46.9%	45.1%
mean + 3SD	1.80	4.36	1.61	3.48	3.64
mean- 3SD	-0.27	-0.63	-0.31	-0.59	-0.54
N	15	15	15	15	15
All Lab Median	0.64	1.60	0.55	1.28	1.16

	FT 231	FT 232	FT 233	FT 234	FT 235
FT PAPP-A DPC Immullite or 2000 (DPB or D/DP5) Mean:					
Mean	1.87	3.23	1.66	5.50	3.73
SD	0.26	0.22	0.11	0.51	0.50
%CV	13.7%	6.8%	6.6%	9.2%	13.3%
X + 3SD	2.64	3.89	1.98	7.02	5.22
X - 3SD	1.10	2.57	1.33	3.98	2.23
N	4	4	4	4	4
Kit Median	1.79	3.18	1.65	5.39	3.58
mean/All kit median	1.39	1.37	1.43	1.38	1.39

FT PAPP-A Diagnostic Systems Lab (DS1) Mean:					
Mean	0.82	1.50	0.67	2.46	1.65
SD	0.12	0.28	0.11	0.31	0.28
%CV	14.9%	18.5%	16.7%	12.8%	16.8%
X + 3SD	1.19	2.34	1.00	3.40	2.48
X - 3SD	0.46	0.67	0.33	1.51	0.81
N	11	11	11	11	11
Kit Median	0.80	1.46	0.68	2.55	1.57
mean/All kit median	0.61	0.63	0.57	0.62	0.61