New York State Fetal Defect Markers Proficiency Test,
May 2013
Summary of Results

	MS 296	MS 297	MS 298	MS 299	MS 300
Gestational Age All Lab Mean:					
Mean	20.0	17.0	16.0	15.0	18.0
SD	0.00	0.00	0.00	0.00	0.00
%CV	0.0%	0.0%	0.0%	0.0%	0.0%
mean+3*SD	20.0	17.0	16.0	15.0	18.0
mean-3*SD	20.0	17.0	16.0	15.0	18.0
N	27	27	27	27	27

	MS 296	MS 297	MS 298	MS 299	MS 300
MS AFP All Lab Mean:					
mean	187.0	49.9	43.5	96.0	29.3
SD	20.8	4.2	3.8	8.3	2.2
%CV	11.1%	8.4%	8.7%	8.7%	7.6%
mean+3SD	249.6	62.5	54.9	121.0	35.9
mean-3SD	124.5	37.3	32.1	71.1	22.6
N	27	27	27	27	27
median	188	49.9	43.6	96.8	29.4
mean/all kit median	1.04	1.03	1.00	1.02	1.02
MS AFP Beckman Unicel (BCU/BC1) mean:					
Mean	180.6	48.5	43.3	94.6	28.7
SD	11.5	3.5	3.3	5.4	1.7
%CV	6.4%	7.1%	7.5%	5.7%	5.8%
mean + 3SD	215.0	58.9	53.1	110.8	33.6
mean - 3SD	146.1	38.2	33.5	78.4	23.7
N	12	12	12	12	12
Median	181.2	48.8	42.7	95.5	28.9
mean/All kit median	1.00	1.00	1.00	1.00	1.00
MS AFP Beckman Access/2 (BCX/BC1) mean:					
mean	173.5	47.2	39.8	88.8	27.6
SD	21.8	5.0	4.3	9.4	1.9
%CV	12.6%	10.5%	10.9%	10.6%	6.9%
mean+3SD	239.1	62.1	52.8	117.1	33.3
mean-3SD	108.0	32.3	26.8	60.5	21.9
N	6	6	6	6	6
median	170.4	46.5	40.9	91.6	28.0
mean/all kit median	0.96	0.97	0.92	0.94	0.96
MS AFP Siemens Immulite 2000 (DPD/DP5) mean:					
mean	202.0	53.4	46.3	104.4	31.1
SD	18.8	2.1	1.3	5.1	2.1
%CV	9.3%	4.0%	2.8%	4.9%	6.6%
mean+3SD	258.4	59.8	50.2	119.7	37.2
mean-3SD	145.6	47.0	42.4	89.1	24.9
N	7	7	7	7	7
median	197.0	53.1	46.0	107.0	31.0
mean/all kit median	1.12	1.10	1.07	1.10	1.08
MS AFP kit average:					
mean	185.4	49.7	43.1	95.9	29.1
SD	14.8	3.3	3.2	7.9	1.8
all kit median	180.6	48.5	43.3	94.6	28.7

	MS 296	MS 297	MS 298	MS 299	MS 300
MS AFP MoM All Lab Mean:					
mean	3.20	1.26	1.15	3.44	0.68
SD	0.36	0.11	0.12	0.28	0.05
%CV	11.1%	9.1%	10.5%	8.1%	7.4%
mean+3SD	4.27	1.60	1.51	4.28	0.83
mean-3SD	2.13	0.91	0.79	2.60	0.53
N	27	27	27	27	27
All Median	3.19	1.27	1.18	3.51	0.69
mean/all kit median	1.02	1.01	0.99	0.99	1.00
MS AFP MoM Beckman Unicel (BCU/BC1) mean:					
Mean	3.15	1.25	1.16	3.47	0.68
SD	0.25	0.09	0.12	0.18	0.05
%CV	7.9%	7.3%	10.1%	5.3%	6.7%
mean + 3SD	3.89	1.52	1.51	4.02	0.81
mean - 3SD	2.40	0.97	0.81	2.92	0.54
N	12	12	12	12	12
Median	3.15	1.24	1.19	3.52	0.67
mean/all kit median	1.00	1.00	1.00	1.00	1.00
MS AFP MoM Beckman Access/2 (BCX/BC1) mean:					
Mean	2.97	1.18	1.09	3.20	0.64
SD	0.48	0.16	0.18	0.39	0.06
%CV	16.1%	13.2%	16.6%	12.2%	9.7%
mean + 3SD	4.41	1.64	1.64	4.37	0.83
mean - 3SD	1.54	0.71	0.55	2.03	0.45
N	6	6	6	6	6
Median	2.90	1.13	1.11	3.17	0.66
mean/all kit median	0.95	0.94	0.94	0.92	0.95
MS AFP MoM Siemens Immulite 2000 (DPD/DP5) mean:					
Mean	3.43	1.34	1.18	3.64	0.71
SD	0.27	0.08	0.07	0.14	0.04
%CV	7.8%	5.9%	5.9%	3.9%	5.2%
mean + 3SD	4.23	1.58	1.39	4.07	0.82
mean - 3SD	2.62	1.10	0.97	3.22	0.60
N	7	7	7	7	7
Median	3.41	1.33	1.19	3.67	0.69
mean/all kit median	1.09	1.08	1.02	1.05	1.05
MS AFP MoM kit average:					
mean	3.18	1.25	1.15	3.44	0.67
SD	0.23	0.08	0.05	0.22	0.03
all kit median	3.15	1.25	1.16	3.47	0.68

	MS 296	MS 297	MS 298	MS 299	MS 300
MS uE3 All Lab Mean:					
mean	1.57	0.89	0.72	0.87	0.58
SD	0.13	0.10	0.07	0.06	0.04
%CV	8.5%	10.9%	9.3%	7.3%	7.4%
mean+3SD	1.96	1.18	0.91	1.06	0.71
mean-3SD	1.17	0.60	0.52	0.68	0.45
N	26	26	26	26	26
mean/all kit median	0.98	0.96	0.96	0.99	0.99
MS uE3 Beckman Unicel (BCU/BC1) mean:					
Mean	1.60	0.92	0.75	0.88	0.59
SD	0.08	0.10	0.05	0.07	0.03
%CV	4.8%	10.7%	6.6%	8.5%	5.0%
mean+3SD	1.83	1.22	0.89	1.10	0.68
mean-3SD	1.37	0.63	0.60	0.65	0.50
N	12	12	12	12	12
mean/all kit median	1.00	1.00	1.00	1.00	1.00
MS uE3 Beckman Access/2 (BCX/BC1) mean:					
mean	1.66	0.94	0.75	0.88	0.59
SD	0.09	0.04	0.04	0.05	0.05
%CV	5.4%	4.7%	5.1%	5.8%	7.8%
mean+3SD	1.93	1.08	0.87	1.03	0.73
mean-3SD	1.39	0.81	0.64	0.73	0.45
N	6	6	6	6	6
mean/all kit median	1.04	1.02	1.01	1.00	1.00
MS uE3 Siemens Immulite/2000 (DPD/DP6) mean:					
Mean	1.45	0.80	0.64	0.85	0.56
SD	0.15	0.05	0.05	0.05	0.06
%CV	10.6%	6.0%	7.5%	6.2%	9.8%
mean+3SD	1.91	0.94	0.79	1.00	0.73
mean-3SD	0.99	0.65	0.50	0.69	0.40
N	8	8	8	8	8
mean/all Kit Median	0.91	0.86	0.86	0.96	0.95
MS uE3 kit average:					
mean	1.57	0.89	0.71	0.87	0.58
SD	0.11	0.08	0.06	0.02	0.02
all kit median	1.60	0.92	0.75	0.88	0.59

	MS 296	MS 297	MS 298	MS 299	MS 300
MS uE3 MoM All Lab Mean:					
Mean	0.90	0.93	0.98	1.58	0.52
SD	0.12	0.15	0.16	0.41	0.10
%CV	13.0%	15.9%	16.4%	26.2%	18.4%
mean+3SD	1.26	1.38	1.46	2.82	0.80
mean-3SD	0.55	0.49	0.50	0.34	0.23
N	26	26	26	26	26
mean/all kit Median	1.04	1.03	1.07	1.15	1.08
MS uE3 MoM Beckman Unicel (BCU/BC1) Mean:					
Mean	0.84	0.90	0.91	1.37	0.48
SD	0.05	0.12	0.10	0.18	0.04
%CV	6.5%	13.3%	10.9%	12.8%	7.8%
mean+3SD	1.00	1.25	1.21	1.89	0.59
mean-3SD	0.68	0.54	0.61	0.84	0.36
N	12	12	12	12	12
mean/all kit Median	0.97	0.99	0.99	1.00	0.99
MS uE3 MoM Beckman Access/2 (BCX/BC1) Mean:					
Mean	0.87	0.91	0.92	1.35	0.48
SD	0.10	0.10	0.13	0.19	0.06
%CV	11.0%	11.4%	13.8%	13.7%	13.5%
mean+3SD	1.15	1.22	1.30	1.91	0.67
mean-3SD	0.58	0.60	0.54	0.79	0.29
N	6	6	6	6	6
mean/all kit Median	1.00	1.00	1.00	0.99	1.00
MS uE3 MoM Siemens Immulite/2000 (DPD/DP6) Mean:					
Mean	1.03	1.01	1.14	2.07	0.61
SD	0.11	0.20	0.16	0.38	0.12
%CV	11.1%	19.9%	13.8%	18.2%	19.2%
mean+3SD	1.37	1.60	1.61	3.20	0.96
mean-3SD	0.68	0.41	0.67	0.94	0.26
N	8	8	8	8	8
mean/all kit Median	1.18	1.10	1.24	1.51	1.27
MS uE3 MoM kit average:					
mean	0.91	0.94	0.99	1.60	0.52
SD	0.10	0.06	0.13	0.41	0.08
all kit median	0.87	0.91	0.92	1.37	0.48

New York State Fetal Defect Markers Proficiency Test,
May 2013
Summary of Results

	MS 296	MS 297	MS 298	MS 299	MS 300
MS hCG All Lab mean:					
mean	20.2	27.5	32.2	43.8	51.8
SD	2.1	2.9	3.2	5.3	6.2
%CV	10.6%	10.5%	10.0%	12.1%	12.0%
mean+3SD	26.5	36.2	41.9	59.7	70.5
mean-3SD	13.8	18.8	22.5	28.0	33.1
N	26	26	26	26	26
mean/all kit median	1.02	0.99	0.99	0.98	0.98
MS hCG Beckman Unicel (BCU/BC1) mean:					
mean	19.9	27.9	32.6	44.7	52.9
SD	2.0	2.1	3.1	4.2	4.0
%CV	10.2%	7.6%	9.4%	9.5%	7.6%
mean+3SD	25.92	34.23	41.73	57.44	65.02
mean-3SD	13.78	21.58	23.37	31.95	40.83
N	12	12	12	12	12
median	19.70	27.05	31.90	45.00	53.15
mean/All kit median	1.00	1.00	1.00	1.00	1.00
MS hCG Beckman Access/2 (BCX/BC1) mean:					
mean	22.3	30.4	35.3	48.6	58.1
SD	1.6	1.5	1.7	1.8	2.3
%CV	7.0%	4.9%	4.7%	3.7%	3.9%
mean+3SD	26.9	34.9	40.4	54.0	64.9
mean-3SD	17.6	26.0	30.3	43.2	51.3
N	6	6	6	6	6
median	22.3	30.4	35.3	48.4	58.8
mean/all kit median	1.12	1.09	1.09	1.09	1.10
MS hCG Siemens Immulite 2000 (DPD/DP5) mean:					
mean	18.7	24.1	28.9	37.9	44.2
SD	1.4	1.4	0.9	3.9	4.3
%CV	7.7%	5.9%	3.2%	10.3%	9.6%
mean+3SD	23.0	28.4	31.7	49.6	57.0
mean-3SD	14.4	19.8	26.1	26.3	31.4
N	7	7	7	7	7
median	18.9	24.1	29.2	37.4	45.3
mean/all kit median	0.94	0.86	0.89	0.85	0.84
MS hCG kit average:					
mean	20.3	27.5	32.3	43.7	51.7
SD	1.8	3.2	3.2	5.4	7.0
all kit median	19.9	27.9	32.6	44.7	52.9

	MS 296	MS 297	MS 298	MS 299	MS 300
MS hCG MoMs All Lab Mean:					
mean	1.19	1.11	1.03	1.21	2.59
SD	0.15	0.12	0.11	0.17	0.34
%CV	12.8%	10.6%	11.1%	14.0%	13.1%
mean+3SD	1.65	1.47	1.37	1.72	3.61
mean-3SD	0.73	0.76	0.69	0.70	1.57
N	26	26	26	26	26
mean/All Kit Median	0.99	0.97	0.97	0.98	0.96
MS hCG MoM Beckman Unicel (BCU/BC1) mean:					
mean	1.20	1.15	1.06	1.23	2.70
SD	0.13	0.08	0.11	0.09	0.26
%CV	10.7%	7.1%	10.8%	7.5%	9.6%
mean+3SD	1.59	1.40	1.40	1.51	3.48
mean-3SD	0.81	0.90	0.72	0.95	1.92
N	12	12	12	12	12
median	1.20	1.16	1.04	1.22	2.74
mean/All kit median	1.00	1.00	1.00	1.00	1.00
MS hCG MoM Beckman Access/2 (BCX/BC1) mean:					
mean	1.23	1.17	1.10	1.28	2.78
SD	0.23	0.12	0.10	0.21	0.36
%CV	18.5%	10.5%	9.1%	16.6%	13.1%
X+3SD	1.92	1.53	1.39	1.91	3.88
X-3SD	0.55	0.80	0.80	0.64	1.69
N	6	6	6	6	6
median	1.28	1.16	1.12	1.22	2.80
mean/All kit median	1.03	1.01	1.03	1.04	1.03
MS hCG MoM Siemens Immulite 2000 (DPD/DP5) mean:					
mean	1.16	1.03	0.93	1.15	2.30
SD	0.12	0.12	0.04	0.22	0.24
%CV	10.6%	11.6%	4.1%	19.2%	10.6%
X+3SD	1.53	1.39	1.05	1.81	3.03
X-3SD	0.79	0.67	0.82	0.49	1.57
N	7	7	7	7	7
median	1.19	1.02	0.94	1.09	2.39
mean/All kit median	0.97	0.89	0.88	0.93	0.85
MS hCG MoM kit average:					
mean	1.2	1.1	1.0	1.2	2.6
SD	0.0	0.1	0.1	0.1	0.3
all kit median	1.2	1.2	1.1	1.2	2.7

	MS 296	MS 297	MS 298	MS 299	MS 300
MS Inhibin A all lab mean:					
Mean	213.5	136.3	125.7	120.6	444.2
SD	21.6	14.5	14.3	14.2	42.9
%CV	10.1%	10.6%	11.4%	11.8%	9.6%
mean + 3SD	278.5	179.9	168.6	163.3	572.8
mean- 3SD	148.6	92.8	82.8	77.9	315.6
N	26	26	26	26	26
All Lab Median	218.0	139.5	129.8	123.3	450.1
mean/all kit median	1.01	0.98	0.99	0.98	1.00
MS Inhibin A Beckman Unicel (BCU/BC1) mean:					
Mean	221.6	139.9	129.9	123.3	454.9
SD	15.1	8.6	7.8	9.9	29.3
%CV	6.8%	6.1%	6.0%	8.0%	6.4%
mean + 3SD	266.9	165.6	153.4	152.9	542.7
mean- 3SD	176.3	114.3	106.5	93.7	367.0
N	15	15	15	15	15
kit median	224.0	139.0	130.0	122.0	457.0
mean/all kit median	1.05	1.01	1.02	1.00	1.02
MS Inhibin A Beckman Access/2 (BCX/BC1) mean:					
Mean	211.4	138.7	127.5	124.1	446.1
SD	16.7	11.4	9.6	10.4	45.4
%CV	7.9%	8.2%	7.5%	8.4%	10.2%
mean + 3SD	261.4	172.9	156.2	155.4	582.1
mean- 3SD	161.5	104.5	98.8	92.8	310.0
N	9	9	9	9	9
kit median	212.5	142.5	129.6	124.8	452.3
mean/All kit median	1.00	1.00	1.00	1.01	1.00
MS Inhibin A Diagnostic System Labs (DS1) mean:					
Mean	162.4	98.7	85.8	84.8	355.6
N	2	2	2	2	2
kit median	162.4	98.7	85.8	84.8	355.6
mean/all kit median	0.77	0.71	0.67	0.69	0.80
MS Inhibin A kit average:					
mean	198.5	125.8	114.4	110.7	418.8
SD	31.6	23.5	24.8	22.5	55.0
all kit median	211.4	138.7	127.5	123.3	446.1

	MS 296	MS 297	MS 298	MS 299	MS 300
MS Inhibin A MoM All Lab mean:					
mean	1.12	0.80	0.72	0.67	2.68
SD	0.12	0.08	0.08	0.09	0.26
%CV	10.8%	9.6%	11.7%	13.0%	9.7%
mean+3SD	1.49	1.03	0.98	0.94	3.46
mean-3SD	0.76	0.57	0.47	0.41	1.90
N	26	26	26	26	26
mean/all kit median	1.03	0.99	0.99	0.99	1.00
MS Inhibin A MoM Beckman Unicel (BCU/BC1) mean:					
Mean	1.17	0.81	0.75	0.68	2.73
SD	0.11	0.06	0.06	0.07	0.24
%CV	9.2%	7.8%	7.8%	9.7%	8.8%
mean + 3SD	1.49	1.01	0.92	0.88	3.45
mean- 3SD	0.84	0.62	0.57	0.48	2.01
N	15	15	15	15	15
Kit Median	1.12	0.80	0.72	0.67	2.67
mean/all kit median	1.07	1.01	1.02	1.00	1.02
MS Inhibin A MoM Beckman Access (BCX/BC1) mean:					
Mean	1.09	0.81	0.73	0.71	2.67
SD	0.11	0.06	0.07	0.07	0.28
%CV	10.0%	7.3%	9.6%	9.7%	10.7%
mean + 3SD	1.42	0.99	0.94	0.92	3.53
mean- 3SD	0.76	0.63	0.52	0.50	1.82
N	9	9	9	9	9
Kit Median	1.13	0.82	0.74	0.69	2.68
mean/all kit median	1.00	1.00	1.00	1.05	1.00
MS Inhibin A MoM Diagnostic System Labs (DS1) mean:					
Mean	0.93	0.64	0.52	0.48	2.37
N	2	2	2	2	2
Kit Median	0.93	0.64	0.52	0.48	2.37
mean/all kit median	0.85	0.79	0.71	0.70	0.89
MS Inhibin A MoM kit average:					
mean	1.06	0.75	0.67	0.62	2.59
SD	0.12	0.10	0.13	0.13	0.19
all kit median	1.09	0.81	0.73	0.68	2.67

New York State Fetal Defect Markers Proficiency Test,
May 2013
Summary of Results

	AF 296	AF 297	AF 298	AF 299	AF 300
AF AFP All Lab mean :					
mean	18.5	10.1	8.6	3.3	4.3
SD	1.7	1.8	1.4	0.5	0.6
%CV	9.0%	18.2%	16.8%	15.1%	13.6%
mean+3SD	23.5	15.7	12.9	4.7	6.1
mean-3SD	13.5	4.6	4.2	1.8	2.6
N	20	20	20	20	20
All kit median	18.4	10.8	9.0	3.3	4.5
mean/all kit mean	1.01	0.93	0.96	1.00	0.97
AF AFP Beckman Unicel (BCU/BC1) mean:					
Mean	18.0	8.7	7.5	3.1	3.9
SD	1.7	1.2	0.7	0.3	0.3
%CV	9.6%	13.3%	9.7%	9.5%	6.9%
X+3SD	23.1	12.1	9.7	4.0	4.7
X-3SD	12.8	5.2	5.3	2.2	3.1
N	10	10	10	10	10
median	18.3	8.5	7.6	3.0	3.9
mean/all kit median	0.98	0.80	0.83	0.95	0.87
AF AFP Beckman Access/2 (BCX/BC1) mean:					
mean	18.5	9.8	8.0	3.4	4.2
N	2	2	2	2	2
median	18.5	9.75	8	3.4	4.15
mean/all kit median	1.01	0.90	0.89	1.05	0.93
AF AFP DPC Immulite 2000 (DPD/DP5) mean:					
mean	18.2	11.9	10.0	3.0	4.8
SD	1.1	0.6	0.6	0.2	0.2
%CV	5.8%	5.4%	6.1%	6.6%	3.2%
mean+3SD	21.4	13.9	11.8	3.5	5.2
mean-3SD	15.1	10.0	8.1	2.4	4.3
N	5	5	5	5	5
median	18.6	11.8	9.9	2.9	4.8
mean/all kit median	0.99	1.10	1.11	0.91	1.07
AF AFP Abbott Axsym (ABB/AB2) mean:					
mean	20.7	12.4	10.6	4.4	5.4
N	2	2	2	2	2
mean/all kit median	1.12	1.14	1.17	1.35	1.21
AF AFP kit average:					
mean	18.8	10.7	9.0	3.5	4.5
SD	1.2	1.8	1.5	0.6	0.7
all kit median	18.4	10.8	9.0	3.3	4.5

	AF 296	AF 297	AF 298	AF 299	AF 300
AF AFP MoM All Lab Mean:					
mean	2.90	0.60	0.61	0.28	0.45
SD	0.41	0.09	0.09	0.03	0.05
%CV	14.2%	15.2%	14.4%	11.1%	11.8%
mean+3SD	4.14	0.87	0.87	0.37	0.61
mean-3SD	1.67	0.32	0.35	0.19	0.29
N	20	20	20	20	20
All median	2.90	0.58	0.61	0.29	0.46
mean/all kit median	1.00	1.03	1.00	0.98	0.98
AF AFP MoM Beckman Unicel(BCU/BC1) mean:					
Mean	2.90	0.55	0.57	0.28	0.43
SD	0.47	0.08	0.06	0.03	0.05
%CV	16.1%	14.2%	10.6%	9.3%	11.6%
X+3SD	4.30	0.79	0.75	0.36	0.57
X-3SD	1.49	0.32	0.38	0.20	0.28
N	10	10	10	10	10
median	2.94	0.56	0.56	0.29	0.42
mean/all kit median	1.01	0.99	0.97	0.99	0.94
AF AFP MoM Beckman Access (BCX/BC1) mean:					
Mean	3.05	0.55	0.54	0.29	0.44
N	2	2	2	2	2
median	3.05	0.55	0.54	0.29	0.44
mean/all kit median	1.07	0.97	0.93	1.01	0.96
AF AFP MoM DPC Immulite 2000 (DPD/DP5) mean:					
Mean	2.83	0.70	0.71	0.26	0.49
SD	0.39	0.05	0.07	0.03	0.04
%CV	13.7%	7.7%	9.2%	12.5%	7.9%
X+3SD	3.99	0.86	0.91	0.35	0.60
X-3SD	1.67	0.54	0.52	0.16	0.37
N	5	5	5	5	5
median	2.78	0.70	0.69	0.24	0.47
mean/all kit median	0.99	1.25	1.22	0.89	1.07
AF AFP MoM Abbott Axsym (ABB/AB2) mean					
Mean	2.82	0.57	0.60	0.31	0.48
N	2	2	2	2	2
mean/all kit median	0.98	1.01	1.03	1.08	1.04
AF AFP MoM kit average:					
mean	2.90	0.59	0.60	0.28	0.46
SD	0.11	0.07	0.08	0.02	0.03
all kit median	2.86	0.56	0.58	0.29	0.46