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

	MS 301	MS 302	MS 303	MS 304	MS 305
Gestational Age All Lab Mean:					
Mean	19.0	16.0	18.0	17.0	20.0
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	19.0	16.0	18.0	17.0	20.0
mean-3*SD	19.0	16.0	18.0	17.0	20.0
N	26	26	26	26	26

	MS 301	MS 302	MS 303	MS 304	MS 305
MS AFP All Lab Mean:					
mean	29.3	36.2	33.4	41.0	180.5
SD	1.5	2.6	1.7	3.0	13.1
%CV	5.1%	7.3%	5.2%	7.3%	7.3%
mean+3SD	33.7	44.0	38.6	50.0	220.0
mean-3SD	24.8	28.3	28.1	32.0	141.1
N	26	26	26	26	26
median	29.1	35.6	33.5	40.2	181.1
mean/all kit median	1.00	0.99	1.00	1.00	0.99
MS AFP Beckman Unicel (BCU/BC1) mean:					
Mean	29.2	35.2	33.2	40.5	175.5
SD	1.4	1.7	1.2	2.2	10.5
%CV	4.8%	4.9%	3.7%	5.5%	6.0%
mean + 3SD	33.4	40.4	36.9	47.2	206.9
mean - 3SD	25.0	30.1	29.6	33.8	144.1
N	13	13	13	13	13
Median	29.0	34.9	33.4	40.9	176.5
mean/All kit median	1.00	0.96	1.00	0.98	0.96
MS AFP Beckman Access/2 (BCX/BC1) mean:					
mean	29.2	36.7	34.4	42.2	190.8
SD	2.4	3.6	2.3	5.4	17.6
%CV	8.2%	9.7%	6.7%	12.7%	9.2%
mean+3SD	36.3	47.4	41.2	58.3	243.5
mean-3SD	22.0	26.0	27.5	26.2	138.2
N	5	5	5	5	5
median	29.8	35.4	35.0	40.0	195.1
mean/all kit median	1.00	1.00	1.03	1.03	1.05
MS AFP Siemens Immulite 2000 (DPD/DP5) mean:					
mean	29.2	37.1	32.7	41.2	182.4
SD	1.0	3.2	2.0	2.5	12.1
%CV	3.3%	8.6%	6.0%	6.1%	6.7%
mean+3SD	32.2	46.7	38.5	48.7	218.8
mean-3SD	26.3	27.6	26.8	33.6	146.0
N	7	7	7	7	7
median	29.0	36.8	32.9	40.2	183.0
mean/all kit median	1.00	1.01	0.98	1.00	1.00
MS AFP kit average:					
mean	29.2	36.4	33.4	41.3	182.9
SD	0.0	1.0	0.9	0.9	7.7
all kit median	29.2	36.7	33.2	41.2	182.4

	MS 301	MS 302	MS 303	MS 304	MS 305
MS AFP MoM All Lab Mean:					
mean	0.52	1.06	0.79	1.11	3.03
SD	0.04	0.08	0.05	0.10	0.29
%CV	8.2%	7.4%	6.7%	8.5%	9.5%
mean+3SD	0.65	1.29	0.95	1.40	3.90
mean-3SD	0.40	0.82	0.63	0.83	2.17
N	26	26	26	26	26
All Median	0.52	1.04	0.79	1.12	2.95
mean/all kit median	0.98	1.01	1.00	1.00	1.01
MS AFP MoM Beckman Unicel (BCU/BC1) mean:					
Mean	0.54	1.05	0.79	1.11	2.96
SD	0.05	0.08	0.05	0.10	0.23
%CV	8.9%	7.7%	6.1%	8.7%	7.8%
mean + 3SD	0.68	1.29	0.94	1.40	3.65
mean - 3SD	0.39	0.81	0.65	0.82	2.26
N	13	13	13	13	13
Median	0.53	1.03	0.79	1.14	2.91
mean/all kit median	1.01	1.00	1.00	1.00	0.99
MS AFP MoM Beckman Access/2 (BCX/BC1) mean:					
Mean	0.53	1.09	0.83	1.16	3.32
SD	0.04	0.10	0.06	0.14	0.38
%CV	8.1%	8.9%	6.6%	12.3%	11.3%
mean + 3SD	0.66	1.37	1.00	1.58	4.45
mean - 3SD	0.40	0.80	0.67	0.73	2.20
N	5	5	5	5	5
Median	0.55	1.12	0.85	1.18	3.36
mean/all kit median	1.00	1.03	1.05	1.04	1.11
MS AFP MoM Siemens Immulite 2000 (DPD/DP5) mean:					
Mean	0.50	1.04	0.75	1.09	2.99
SD	0.02	0.07	0.04	0.06	0.24
%CV	3.5%	7.0%	4.9%	5.4%	8.1%
mean + 3SD	0.55	1.26	0.86	1.27	3.71
mean - 3SD	0.44	0.82	0.64	0.91	2.27
N	7	7	7	7	7
Median	0.49	1.03	0.75	1.09	2.98
mean/all kit median	0.93	0.99	0.95	0.98	1.00
MS AFP MoM kit average:					
mean	0.52	1.06	0.79	1.12	3.09
SD	0.02	0.02	0.04	0.03	0.20
all kit median	0.53	1.05	0.79	1.11	2.99

	MS 301	MS 302	MS 303	MS 304	MS 305
MS uE3 All Lab Mean:					
mean	0.57	0.64	0.72	0.80	1.40
SD	0.06	0.08	0.07	0.08	0.11
%CV	9.8%	12.1%	9.3%	9.9%	8.1%
mean+3SD	0.74	0.87	0.93	1.03	1.74
mean-3SD	0.40	0.41	0.52	0.56	1.06
N	25	25	25	25	25
mean/all kit median	0.97	0.97	0.99	0.99	0.98
MS uE3 Beckman Unicel (BCU/BC1) mean:					
Mean	0.58	0.66	0.74	0.81	1.43
SD	0.04	0.04	0.05	0.07	0.08
%CV	7.2%	6.5%	6.7%	8.2%	5.4%
mean+3SD	0.71	0.79	0.88	1.01	1.66
mean-3SD	0.46	0.53	0.59	0.61	1.20
N	13	13	13	13	13
mean/all kit median	1.00	1.00	1.00	1.00	1.00
MS uE3 Beckman Access/2 (BCX/BC1) mean:					
mean	0.59	0.68	0.77	0.83	1.49
SD	0.03	0.02	0.04	0.04	0.05
%CV	5.7%	3.2%	5.4%	4.7%	3.7%
mean+3SD	0.69	0.74	0.89	0.94	1.65
mean-3SD	0.49	0.61	0.64	0.71	1.32
N	5	5	5	5	5
mean/all kit median	1.01	1.02	1.04	1.02	1.04
MS uE3 Siemens Immulite/2000 (DPD/DP6) mean:					
Mean	0.52	0.58	0.67	0.76	1.28
SD	0.07	0.12	0.08	0.11	0.11
%CV	13.1%	20.1%	12.4%	14.6%	8.5%
mean+3SD	0.73	0.93	0.92	1.09	1.60
mean-3SD	0.32	0.23	0.42	0.43	0.95
N	7	7	7	7	7
mean/all Kit Median	0.89	0.87	0.91	0.94	0.89
MS uE3 kit average:					
mean	0.57	0.64	0.73	0.80	1.40
SD	0.04	0.05	0.05	0.03	0.11
all kit median	0.58	0.66	0.74	0.81	1.43

	MS 301	MS 302	MS 303	MS 304	MS 305
MS uE3 MoM All Lab Mean:					
Mean	0.40	0.85	0.63	0.86	0.78
SD	0.06	0.18	0.11	0.18	0.12
%CV	15.4%	20.7%	17.5%	21.1%	15.6%
mean+3SD	0.58	1.38	0.97	1.40	1.14
mean-3SD	0.21	0.32	0.30	0.32	0.41
N	25	25	25	25	25
mean/all kit Median	1.04	1.07	1.04	1.07	1.05
MS uE3 MoM Beckman Unicel (BCU/BC1) Mean:					
Mean	0.38	0.79	0.59	0.80	0.74
SD	0.04	0.08	0.05	0.08	0.06
%CV	10.0%	9.6%	7.9%	9.6%	7.9%
mean+3SD	0.50	1.02	0.73	1.03	0.92
mean-3SD	0.27	0.56	0.45	0.57	0.57
N	13	13	13	13	13
mean/all kit Median	1.00	1.00	0.97	1.00	1.00
MS uE3 MoM Beckman Access/2 (BCX/BC1) Mean:					
Mean	0.37	0.79	0.61	0.80	0.74
SD	0.02	0.03	0.05	0.07	0.04
%CV	4.5%	4.0%	8.1%	8.4%	5.3%
mean+3SD	0.42	0.89	0.76	1.00	0.86
mean-3SD	0.32	0.70	0.46	0.60	0.63
N	5	5	5	5	5
mean/all kit Median	0.96	1.00	1.00	1.00	1.00
MS uE3 MoM Siemens Immulite/2000 (DPD/DP6) Mean:					
Mean	0.44	1.01	0.73	1.01	0.87
SD	0.09	0.27	0.16	0.28	0.19
%CV	20.3%	27.0%	22.4%	28.1%	22.0%
mean+3SD	0.71	1.82	1.23	1.86	1.45
mean-3SD	0.17	0.19	0.24	0.16	0.30
N	7	7	7	7	7
mean/all kit Median	1.16	1.27	1.21	1.26	1.17
MS uE3 MoM kit average:					
mean	0.40	0.86	0.64	0.87	0.79
SD	0.04	0.12	0.08	0.12	0.07
all kit median	0.38	0.79	0.61	0.80	0.74

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Summary of Results

	MS 301	MS 302	MS 303	MS 304	MS 305
MS hCG All Lab mean:					
mean	34.0	26.1	13.0	23.5	17.1
SD	3.5	3.3	1.1	2.0	1.2
%CV	10.2%	12.8%	8.4%	8.3%	7.0%
mean+3SD	44.5	36.1	16.3	29.4	20.6
mean-3SD	23.6	16.0	9.7	17.6	13.5
N	25	25	25	25	25
mean/all kit median	1.01	0.98	1.02	1.01	1.01
MS hCG Beckman Unicel (BCU/BC1) mean:					
mean	33.8	26.5	12.8	23.2	16.9
SD	2.3	2.1	1.0	1.7	1.1
%CV	6.7%	8.0%	7.7%	7.3%	6.7%
mean+3SD	40.58	32.89	15.78	28.33	20.26
mean-3SD	27.05	20.18	9.87	18.16	13.52
N	13	13	13	13	13
median	33.60	26.50	12.80	23.50	16.90
mean/All kit median	1.00	1.00	1.00	1.00	1.00
MS hCG Beckman Access/2 (BCX/BC1) mean:					
mean	38.7	28.2	14.2	26.0	18.3
SD	1.8	1.0	0.5	0.9	0.2
%CV	4.7%	3.6%	3.8%	3.6%	1.1%
mean+3SD	44.1	31.2	15.8	28.8	18.9
mean-3SD	33.2	25.1	12.6	23.2	17.6
N	5	5	5	5	5
median	38.3	28.3	14.3	26.2	18.3
mean/all kit median	1.14	1.06	1.10	1.12	1.08
MS hCG Siemens Immulite 2000 (DPD/DP5) mean:					
mean	31.1	23.7	12.7	22.1	16.5
SD	2.9	4.9	1.2	1.2	1.3
%CV	9.3%	20.7%	9.3%	5.6%	7.6%
mean+3SD	39.9	38.3	16.2	25.9	20.3
mean-3SD	22.4	9.0	9.1	18.4	12.8
N	7	7	7	7	7
median	30.0	23.8	12.0	21.6	16.4
mean/all kit median	0.92	0.89	0.99	0.95	0.98
MS hCG kit average:					
mean	34.5	26.1	13.2	23.8	17.2
SD	3.8	2.3	0.8	2.0	0.9
all kit median	33.8	26.5	12.8	23.2	16.9

	MS 301	MS 302	MS 303	MS 304	MS 305
MS hCG MoMs All Lab Mean:					
mean	1.80	0.87	0.67	1.01	0.99
SD	0.25	0.08	0.07	0.10	0.11
%CV	13.7%	9.6%	10.3%	9.6%	11.2%
mean+3SD	2.53	1.12	0.87	1.30	1.32
mean-3SD	1.06	0.62	0.46	0.72	0.66
N	25	24	25	25	25
mean/All Kit Median	0.98	1.00	0.98	1.00	1.00
MS hCG MoM Beckman Unicel (BCU/BC1) mean:					
mean	1.83	0.87	0.65	0.99	0.99
SD	0.17	0.07	0.05	0.09	0.09
%CV	9.2%	8.5%	7.1%	8.8%	8.7%
mean+3SD	2.33	1.09	0.79	1.25	1.25
mean-3SD	1.32	0.65	0.51	0.73	0.73
N	13	13	13	13	13
median	1.85	0.88	0.67	1.00	0.99
mean/All kit median	1.00	1.00	0.96	0.98	1.00
MS hCG MoM Beckman Access/2 (BCX/BC1) mean:					
mean	1.88	0.90	0.68	1.07	0.93
SD	0.41	0.10	0.12	0.15	0.18
%CV	22.1%	10.7%	17.5%	14.2%	19.0%
X+3SD	3.12	1.18	1.04	1.53	1.46
X-3SD	0.63	0.61	0.32	0.62	0.40
N	5	5	5	5	5
median	1.84	0.87	0.66	1.03	0.92
mean/All kit median	1.03	1.03	1.01	1.06	0.94
MS hCG MoM Siemens Immulite 2000 (DPD/DP5) mean:					
mean	1.68	0.79	0.68	1.01	1.02
SD	0.22	0.17	0.07	0.05	0.10
%CV	13.0%	21.4%	9.6%	5.0%	9.5%
X+3SD	2.33	1.30	0.87	1.16	1.31
X-3SD	1.02	0.28	0.48	0.86	0.73
N	7	7	7	7	7
median	1.62	0.78	0.68	1.00	1.01
mean/All kit median	0.92	0.92	1.00	1.00	1.03
MS hCG MoM kit average:					
mean	1.8	0.9	0.7	1.0	1.0
SD	0.1	0.1	0.0	0.0	0.0
all kit median	1.8	0.9	0.7	1.0	1.0

	MS301	MS302	MS303	MS304	MS305
MS Inhibin A all lab mean:					
Mean	296.7	138.4	147.1	151.9	175.0
SD	17.2	8.4	10.0	10.2	13.1
%CV	5.8%	6.1%	6.8%	6.7%	7.5%
mean + 3SD	348.2	163.8	177.2	182.6	214.5
mean- 3SD	245.3	113.1	116.9	121.2	135.6
N	25	25	25	25	25
All Lab Median	298.0	138.9	149.8	150.0	173.0
mean/all kit median	1.00	1.00	1.00	1.00	1.00
MS Inhibin A Beckman Unicel (BCU/BC1) mean:					
Mean	295.4	137.8	147.0	151.6	176.0
SD	16.6	7.9	10.8	11.1	14.0
%CV	5.6%	5.8%	7.4%	7.3%	8.0%
mean + 3SD	345.1	161.7	179.4	184.8	218.1
mean- 3SD	245.7	114.0	114.5	118.4	134.0
N	17	17	17	17	17
kit median	298.0	136.6	147.4	150.0	179.8
mean/all kit median	0.99	0.99	1.00	1.00	1.01
MS Inhibin A Beckman Access/2 (BCX/BC1) mean:					
Mean	299.6	139.7	147.2	152.5	172.9
SD	19.2	9.9	8.8	8.8	11.6
%CV	6.4%	7.1%	6.0%	5.8%	6.7%
mean + 3SD	357.1	169.3	173.7	179.0	207.8
mean- 3SD	242.0	110.1	120.8	126.0	138.0
N	8	8	8	8	8
kit median	301.3	140.8	149.9	153.2	170.9
mean/All kit median	1.01	1.01	1.00	1.00	0.99
MS Inhibin A kit average:					
mean	297.5	138.8	147.1	152.0	174.5
SD	2.9	1.3	0.2	0.7	2.2
all kit median	297.5	138.8	147.1	152.0	174.5

	MS301	MS302	MS303	MS304	MS305
MS Inhibin A MoM All Lab mean:					
mean	1.71	0.76	0.89	0.92	0.89
SD	0.14	0.07	0.08	0.07	0.11
%CV	8.4%	8.7%	8.7%	7.6%	12.1%
mean+3SD	2.14	0.96	1.12	1.13	1.21
mean-3SD	1.28	0.56	0.65	0.71	0.57
N	25	25	25	25	25
mean/all kit median	1.00	1.00	1.01	1.00	1.01
MS Inhibin A MoM Beckman Unicel (BCU/BC1) mean:					
Mean	1.72	0.76	0.89	0.92	0.91
SD	0.16	0.07	0.09	0.08	0.12
%CV	9.1%	9.0%	10.0%	8.5%	12.9%
mean + 3SD	2.19	0.96	1.16	1.16	1.27
mean- 3SD	1.25	0.55	0.63	0.69	0.56
N	17	17	17	17	17
Kit Median	1.70	0.76	0.90	0.90	0.91
mean/all kit median	1.01	0.99	1.01	1.01	1.04
MS Inhibin A MoM Beckman Access (BCX/BC1) mean:					
Mean	1.68	0.77	0.87	0.90	0.84
SD	0.11	0.06	0.04	0.05	0.07
%CV	6.7%	8.4%	4.7%	5.3%	8.1%
mean + 3SD	2.02	0.97	0.99	1.04	1.05
mean- 3SD	1.34	0.58	0.75	0.76	0.64
N	8	8	8	8	8
Kit Median	1.70	0.76	0.89	0.91	0.89
mean/all kit median	0.99	1.01	0.99	0.99	0.96
MS Inhibin A MoM kit average:					
mean	1.70	0.77	0.88	0.91	0.88
SD	0.03	0.01	0.02	0.01	0.05
all kit median	1.70	0.77	0.88	0.91	0.88

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	AF301	AF302	AF303	AF304	AF305
AF AFP All Lab mean :					
mean	3.9	3.4	5.8	4.8	20.3
SD	0.5	2.4	0.6	0.6	2.6
%CV	13.7%	69.7%	9.7%	11.8%	12.8%
mean+3SD	5.5	10.5	7.6	6.4	28.1
mean-3SD	2.3	-3.7	4.1	3.1	12.5
N	19	19	19	19	19
All kit median	3.7	2.0	5.6	4.8	19.8
mean/all kit mean	1.07	1.68	1.04	0.99	1.03
AF AFP Beckman Unicel (BCU/BC1) mean:					
Mean	3.6	2.0	5.6	4.4	21.6
SD	0.4	0.1	0.5	0.4	1.9
%CV	10.5%	4.9%	9.2%	8.6%	8.9%
X+3SD	4.8	2.3	7.2	5.6	27.4
X-3SD	2.5	1.7	4.1	3.3	15.9
N	11	11	11	11	11
median	3.5	2.0	5.5	4.4	21.4
mean/all kit median	0.99	1.00	1.00	0.92	1.10
AF AFP Beckman Access/2 (BCX/BC1) mean:					
mean	3.7	2.0	5.6	4.8	19.8
N	2	2	2	2	2
median	3.7	2	5.55	4.8	19.75
mean/all kit median	1.00	0.99	0.99	1.00	1.00
AF AFP DPC Immulite 2000 (DPD/DP5) mean:					
mean	4.5	7.2	6.3	5.3	17.2
SD	0.4	0.7	0.4	0.5	1.5
%CV	8.0%	9.4%	5.8%	9.0%	8.8%
mean+3SD	5.5	9.2	7.4	6.8	21.7
mean-3SD	3.4	5.2	5.2	3.9	12.6
N	5	5	5	5	5
median	4.5	6.8	6.4	5.4	17.8
mean/all kit median	1.23	3.57	1.12	1.11	0.87
AF AFP kit average:					
mean	3.9	3.7	5.8	4.9	19.5
SD	0.5	3.0	0.4	0.5	2.2
all kit median	3.7	2.0	5.6	4.8	19.8

	AF301	AF302	AF303	AF304	AF305
AF AFP MoM All Lab Mean:					
mean	0.51	0.44	0.62	0.42	3.24
SD	0.07	0.29	0.07	0.05	0.52
%CV	14.0%	67.1%	10.6%	10.7%	16.0%
mean+3SD	0.72	1.32	0.82	0.56	4.80
mean-3SD	0.29	-0.44	0.43	0.29	1.68
N	19	19	19	19	19
All median	0.51	0.28	0.63	0.42	3.35
mean/all kit median	0.99	1.56	0.99	1.00	0.97
AF AFP MoM Beckman Unicel(BCU/BC1) mean:					
Mean	0.48	0.27	0.62	0.40	3.48
SD	0.05	0.03	0.06	0.03	0.37
%CV	11.2%	9.8%	9.9%	7.4%	10.8%
X+3SD	0.65	0.35	0.80	0.49	4.60
X-3SD	0.32	0.19	0.44	0.32	2.36
N	11	11	11	11	11
median	0.49	0.26	0.63	0.40	3.41
mean/all kit median	1.00	1.00	1.00	1.00	1.07
AF AFP MoM Beckman Access (BCX/BC1) mean:					
Mean	0.48	0.26	0.58	0.40	3.25
N	2	2	2	2	2
median	0.48	0.26	0.58	0.40	3.25
mean/all kit median	0.98	0.96	0.93	0.98	1.00
AF AFP MoM DPC Immulite 2000 (DPD/DP5) mean:					
Mean	0.56	0.91	0.64	0.46	2.66
SD	0.07	0.09	0.06	0.05	0.39
%CV	12.4%	9.8%	9.5%	10.4%	14.6%
X+3SD	0.77	1.18	0.82	0.61	3.83
X-3SD	0.35	0.64	0.46	0.32	1.50
N	5	5	5	5	5
median	0.52	0.90	0.62	0.49	2.77
mean/all kit median	1.16	3.37	1.04	1.14	0.82
AF AFP MoM kit average:					
mean	0.51	0.48	0.61	0.42	3.13
SD	0.05	0.37	0.03	0.04	0.42
all kit median	0.48	0.27	0.62	0.40	3.25