

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

	FT241	FT242	FT243	FT244	FT245
FT Gestational Age All Lab Mean:					
Mean	12.4	12.0	11.5	13.1	10.9
SD	0.12	0.09	0.10	0.09	0.13
%CV	0.9%	0.7%	0.9%	0.7%	1.2%
X+3*SD	12.7	12.3	11.9	13.3	11.3
X-3*SD	12.1	11.8	11.2	12.8	10.5
N	16	16	16	16	16

	FT241	FT242	FT243	FT244	FT245
FT NT MoMs All Lab Mean:					
Mean	0.98	2.17	0.91	0.91	1.08
SD	0.11	0.24	0.10	0.09	0.12
%CV	11.4%	11.0%	11.4%	9.9%	11.6%
X+3SD	1.31	2.89	1.23	1.18	1.45
X- 3SD	0.64	1.45	0.60	0.64	0.71
N	15	15	15	15	11
All Median	0.95	2.07	0.89	0.89	1.10

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	FT 241	FT 242	FT 243	FT 244	FT 245
FT hCG All Lab Mean:					
mean	65.90	139.46	76.88	65.57	77.42
SD	11.16	25.22	15.74	10.09	12.97
%CV	16.9%	18.1%	20.5%	15.4%	16.7%
X+3SD	99.4	215.1	124.1	95.8	116.3
X-3SD	32.4	63.8	29.7	35.3	38.5
N	16	16	16	16	16
mean/All kit median	1.05	1.06	1.06	1.05	1.06

FT hCG kit average:					
mean	62.6	131.3	72.2	62.2	72.7
SD	6.2	17.4	5.0	5.7	10.6
all kit median	62.6	131.3	72.2	62.2	72.7

	FT241	FT242	FT243	FT244	FT245
FT hCG MoMs All Lab Mean:					
Mean	0.93	2.08	1.05	1.10	0.89
SD	0.23	0.60	0.38	0.35	0.15
%CV	24.2%	28.8%	35.8%	32.0%	16.3%
X+3SD	1.61	3.87	2.18	2.16	1.33
X- 3SD	0.25	0.29	-0.08	0.04	0.46
N	15	15	15	15	11
All Median	0.89	2.00	0.98	1.00	0.84

	FT241	FT242	FT243	FT244	FT245
FT hCG Beckman Unicel or Access (BCU or BCX/BC1) mean:					
mean	67.0	143.6	75.8	66.3	80.2
SD	8.7	13.7	7.1	5.2	7.0
%CV	13.0%	9.5%	9.4%	7.8%	8.7%
X+3SD	93.2	184.7	97.2	81.8	101.1
X-3SD	40.9	102.5	54.4	50.8	59.3
N	10	10	10	10	10
median	67.4	141.8	75.7	66.5	79.0
mean/All kit median	1.07	1.09	1.05	1.07	1.10

FT hCG DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	58.2	119.0	68.7	58.2	65.2
SD	6.2	22.0	7.5	5.8	6.6
%CV	10.6%	18.4%	10.9%	10.0%	10.1%
X+3SD	76.8	184.9	91.1	75.7	84.9
X-3SD	39.7	53.2	46.3	40.7	45.5
N	5	5	5	5	5
median	55.6	132.9	67.9	56.5	66.9
mean/All kit median	0.93	0.91	0.95	0.93	0.90

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	FT 241	FT 242	FT 243	FT 244	FT 245
FT PAPP-A All Lab Mean: (does not include Beckman)					
Mean	2.44	1.09	2.03	2.92	1.91
SD	1.22	0.62	1.09	1.41	0.98
%CV	49.9%	56.9%	53.7%	48.3%	51.2%
mean + 3SD	6.09	2.94	5.29	7.15	4.85
mean- 3SD	-1.21	-0.77	-1.24	-1.31	-1.02
N	11	11	11	11	11
All Lab Median	1.90	0.80	1.60	2.28	1.40
mean/All kit median	0.80	0.78	0.79	0.80	0.80

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

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

Mean	1.07	0.46	0.94	1.38	0.85
SD	0.08	0.03	0.05	0.10	0.05
%CV	7.3%	5.5%	5.7%	7.3%	5.6%
X + 3SD	5.18	2.31	4.60	6.27	3.81
X - 3SD	3.33	1.77	2.75	3.86	3.04
N	5	5	5	5	5
Kit Median	1.06	0.46	0.97	1.41	0.85

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

mean	3.06	1.40	2.58	3.64	2.40
SD	0.26	0.10	0.23	0.25	0.12
all kit median	3.06	1.40	2.58	3.64	2.40

	FT 241	FT 242	FT 243	FT 244	FT 245
FT PAPP-A DPC Immulite or 2000 (DPB or D/DP5) Mean:					
Mean	4.26	2.04	3.68	5.06	3.42
SD	0.31	0.09	0.31	0.40	0.13
%CV	7.3%	4.4%	8.4%	7.9%	3.8%
X + 3SD	5.18	2.31	4.60	6.27	3.81
X - 3SD	3.33	1.77	2.75	3.86	3.04
N	3	3	3	3	3
Kit Median	4.17	1.99	3.85	5.09	3.46
mean/All kit median	1.39	1.46	1.43	1.39	1.42

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

Mean	1.87	0.76	1.48	2.22	1.38
SD	0.21	0.11	0.15	0.09	0.10
%CV	11.3%	13.9%	10.4%	4.1%	7.4%
X + 3SD	2.50	1.07	1.94	2.49	1.69
X - 3SD	1.24	0.44	1.02	1.95	1.07
N	7	7	7	7	7
Kit Median	1.84	0.77	1.53	2.20	1.40
mean/All kit median	0.61	0.54	0.57	0.61	0.58

FT PAPP-A MoM All Lab Mean:

Mean	1.26	0.76	1.66	1.35	1.97
SD	0.47	0.36	0.71	0.45	0.94
%CV	37.2%	46.5%	42.6%	33.5%	47.9%
mean + 3SD	2.67	1.83	3.79	2.72	4.80
mean- 3SD	-0.15	-0.30	-0.46	-0.01	-0.86
N	15	15	15	15	11
All Lab Median	1.07	0.63	1.41	1.22	1.47

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	MS 241	MS 242	MS 243	MS 244	MS 245
Gestational Age All Lab Mean:					
Mean	15.0	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	15.0	17.0	19.0	16.0	18.0
X-3*SD	15.0	17.0	19.0	16.0	18.0
N	29	29	28	29	29

MS AFP All Lab Mean	MS 236	MS 237	MS 238	MS 239	MS 240
mean	29.10	93.36	53.91	15.15	44.74
SD	2.18	6.46	2.97	1.13	3.50
%CV	7.5%	6.9%	5.5%	7.5%	7.8%
mean+3SD	35.6	112.7	62.8	18.6	55.2
mean-3SD	22.6	74.0	45.0	11.8	34.2
N	29	29	29	29	29
median	28.8	92.1	54.6	15.2	44.1
mean/all kit median	0.99	0.98	0.98	0.98	0.99

MS AFP Beckman Unicel (BCU/BC1) mean:					
Mean	29.7	93.9	54.7	15.5	44.8
SD	2.3	7.3	1.1	0.9	5.3
%CV	7.7%	7.8%	2.0%	5.7%	11.8%
mean + 3SD	36.6	115.8	58.0	18.2	60.7
mean - 3SD	22.8	71.9	51.5	12.9	29.0
N	7	7	7	7	7
Median	29.0	91.8	55.0	15.7	45.8
mean/All kit median	1.01	0.97	1.00	1.01	0.99

MS AFP Beckman Access (BCX/BC1) mean:					
mean	29.2	96.4	55.0	15.4	45.3
SD	1.7	5.3	2.6	0.9	2.7
%CV	5.9%	5.5%	4.8%	5.5%	6.1%
mean+3SD	34.4	112.2	62.9	18.0	53.5
mean-3SD	24.1	80.5	47.1	12.8	37.1
N	9	9	9	9	9
median	29.1	98.2	55.2	15.4	44.4
mean/all kit median	0.99	1.01	1.00	1.00	1.01

	MS 241	MS 242	MS 243	MS 244	MS 245
MS AFP Siemens/Bayer ADVIA-Centaur(COB/BA1) mean:					
mean	32.2	99.7	57.7	16.6	47.6
N	2	2	2	2	2
mean/all kit median	1.09	1.05	1.05	1.07	1.06

MS AFP DPC Immulite or 2000 (DPB or DPD/DP5) mean:					
mean	27.6	88.1	51.2	14.3	43.7
SD	1.5	4.0	2.6	1.2	2.6
%CV	5.3%	4.5%	5.1%	8.2%	6.0%
mean+3SD	32.0	100.0	58.9	17.9	51.6
mean-3SD	23.2	76.2	43.4	10.8	35.8
N	9	9	9	9	9
median	27.6	88.3	50.8	14.2	43.9
mean/all kit median	0.94	0.93	0.93	0.93	0.97

MS AFP kit average:					
mean	29.7	94.5	54.6	15.5	45.3
SD	1.9	4.9	2.7	0.9	1.6
all kit median	29.5	95.1	54.9	15.5	45.1

	MS 241	MS 242	MS 243	MS 244	MS 245
MS AFP MoMs All Lab Mean:					
mean	0.93	2.38	1.28	0.43	1.02
SD	0.09	0.22	0.12	0.04	0.10
%CV	9.9%	9.3%	9.2%	9.6%	10.3%
mean+3SD	1.21	3.04	1.63	0.56	1.33
mean-3SD	0.66	1.71	0.92	0.31	0.71
N	29	29	29	29	29

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	MS 241	MS 242	MS 243	MS 244	MS 245	MS uE3 DPC Immulite 2000 or 2500(DPD or F/DP5) mean:					
MS uE3 All Lab Mean:						Mean	1.10	2.02	3.06	0.48	2.59
mean	0.82	1.33	1.93	0.42	1.68	SD	0.13	0.22	0.28	0.10	0.22
SD	0.30	0.66	0.96	0.12	0.78	%CV	12.0%	10.9%	9.1%	19.9%	8.4%
%CV	36.2%	49.2%	49.7%	27.4%	46.5%	mean+3SD	1.50	2.68	3.89	0.77	3.24
mean+3SD	1.71	3.30	4.81	0.77	4.03	mean-3SD	0.71	1.36	2.22	0.19	1.93
mean-3SD	-0.07	-0.63	-0.95	0.07	-0.66	N	10	10	10	10	10
N	28	28	28	28	28	Median	1.12	2.00	3.09	0.47	2.61
mean/all kit median	1.36	1.61	1.64	1.15	1.60	mean/all kit median	1.82	2.44	2.60	1.32	2.45

	MS 241	MS 242	MS 243	MS 244	MS 245	MS uE3 BeckmanAccess (BCX/BC1) mean:					
MS uE3 Beckman Unicel (BCU/BC1) mean:						mean	0.58	0.79	1.12	0.34	1.03
Mean	0.61	0.83	1.18	0.37	1.05	SD	0.03	0.04	0.07	0.03	0.06
SD	0.04	0.08	0.10	0.03	0.06	%CV	6.0%	5.1%	6.5%	9.6%	6.1%
%CV	6.5%	9.3%	8.4%	9.2%	6.0%	mean+3SD	0.68	0.92	1.34	0.43	1.21
mean+3SD	0.72	1.06	1.47	0.47	1.24	mean-3SD	0.47	0.67	0.90	0.24	0.84
mean-3SD	0.49	0.60	0.88	0.26	0.86	N	9	9	9	9	9
N	7	7	7	7	7	median	0.58	0.77	1.13	0.34	1.04
Median	0.60	0.84	1.16	0.37	1.03	mean/all kit median	0.96	0.96	0.96	0.92	0.97
mean/all kit median	1.00	1.00	1.00	1.00	1.00						

	MS 241	MS 242	MS 243	MS 244	MS 245
MS UE3 kit average:					
mean	0.76	1.21	1.79	0.39	1.56
SD	0.30	0.70	1.10	0.08	0.89
all kit median	0.61	0.83	1.18	0.37	1.05

	MS 241	MS 242	MS 243	MS 244	MS 245
MS uE3 MoMs All Lab Mean:					
Mean	0.80	0.74	0.76	0.33	0.77
SD	0.19	0.12	0.09	0.12	0.09
%CV	24.1%	16.3%	12.2%	34.8%	11.9%
X+3SD	1.38	1.10	1.04	0.68	1.04
X-3SD	0.22	0.38	0.48	-0.01	0.49
N	27	27	27	27	27

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	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG All Lab Mean:					
mean	27.12	20.73	16.32	53.39	33.28
SD	3.14	1.71	1.37	5.29	3.04
%CV	11.6%	8.2%	8.4%	9.9%	9.2%
mean+3SD	36.5	25.8	20.4	69.3	42.4
mean-3SD	17.7	15.6	12.2	37.5	24.1
N	28	28	28	28	28
mean/all kit median	0.99	0.99	1.00	0.98	1.01

	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG Siemens/Bayer ADVIA-Centaur (COB/BA1) mean:					
mean	30.3	22.1	18.2	56.8	37.7
N	2	2	2	2	2
mean/all kit median	1.10	1.06	1.11	1.05	1.14

	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG Beckman Unicel (BCU/BC1) mean:					
mean	27.99	20.70	16.14	54.77	33.37
SD	1.26	1.65	1.09	6.72	2.57
%CV	4.5%	8.0%	6.8%	12.3%	7.7%
mean+3SD	40.33	26.23	19.48	68.73	43.21
mean-3SD	11.25	14.06	12.03	38.89	22.34
N	7	7	7	7	7
median	28.10	19.90	16.40	57.50	33.50
mean/All kit median	1.02	0.99	0.99	1.01	1.01

	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	27.0	21.0	16.6	50.9	32.7
SD	1.9	1.6	1.6	4.9	3.0
%CV	6.9%	7.6%	9.8%	9.6%	9.1%
mean+3SD	32.6	25.8	21.4	65.6	41.6
mean-3SD	21.4	16.2	11.7	36.3	23.8
N	9	9	9	9	9
median	26.9	21.1	17.0	52.1	33.5
mean/all kit median	0.98	1.01	1.01	0.94	0.99

	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG Beckman Access (BCX/BC1) mean:					
mean	25.8	20.1	15.8	53.8	32.8
SD	4.8	2.0	1.2	5.0	3.5
%CV	18.8%	10.1%	7.9%	9.2%	10.6%
mean+3SD	40.3	26.2	19.5	68.7	43.2
mean-3SD	11.2	14.1	12.0	38.9	22.3
N	9	9	9	9	9
median	26.3	20.2	15.8	54.4	33.7
mean/all kit median	0.94	0.97	0.96	0.99	0.99

	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG kit average:					
mean	27.8	21.0	16.7	54.1	34.1
SD	1.9	0.8	1.1	2.4	2.4
all kit median	27.5	20.8	16.4	54.3	33.1

	MS 241	MS 242	MS 243	MS 244	MS 245
MS hCG MoMs All Lab Mean:					
mean	0.68	0.85	1.05	1.75	1.62
SD	0.10	0.09	0.13	0.20	0.19
%CV	15.2%	10.5%	12.7%	11.4%	11.6%
mean+3SD	0.99	1.11	1.44	2.35	2.19
mean-3SD	0.37	0.58	0.65	1.15	1.06
N	28	28	28	28	28

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	MS 241	MS 242	MS 243	MS 244	MS 245
MS Inhibin A all lab/DSL mean:					
Mean	140.60	146.92	196.57	198.66	354.23
SD	17.75	17.58	24.49	20.86	33.30
%CV	12.6%	12.0%	12.5%	10.5%	9.4%
mean + 3SD	193.9	199.7	270.0	261.2	454.1
mean- 3SD	87.3	94.2	123.1	136.1	254.3
N	28	28	28	28	28
All Lab Median	144.9	154.3	205.5	201.6	362.4
mean/all kit median	0.96	0.96	0.94	0.96	0.96

	MS 241	MS 242	MS 243	MS 244	MS 245
MS Inhibin A Beckman Access (BCX/BC1) mean:					
Mean	146.0	157.5	208.6	207.7	368.0
SD	11.3	5.3	8.4	7.3	14.5
%CV	7.8%	3.4%	4.0%	3.5%	3.9%
mean + 3SD	180.0	173.4	233.9	229.5	411.5
mean- 3SD	111.9	141.6	183.4	185.9	324.4
N	13	13	13	13	13
median	149.0	155.8	207.9	209.6	373.3
mean/All kit median	1.00	1.03	1.00	1.00	1.00

	MS 241	MS 242	MS 243	MS 244	MS 245
MS Inhibin A Beckman Unicel (BCU/BC1) mean:					
Mean	151.7	153.5	208.6	209.5	371.7
SD	13.6	6.6	11.2	16.3	30.0
%CV	9.0%	4.3%	5.4%	7.8%	8.1%
mean + 3SD	192.4	173.3	242.3	258.4	461.6
mean- 3SD	110.9	133.7	174.9	160.7	281.8
N	8	8	8	8	8
median	147.5	154.0	204.5	208.5	371.9
mean/all kit median	1.04	1.00	1.00	1.01	1.01

	MS 241	MS 242	MS 243	MS 244	MS 245
MS Inhibin A Diagnostic System Labs (DS1) Mean:					
Mean	118.0	119.8	160.4	169.5	308.7
SD	11.1	11.2	19.4	14.6	16.9
%CV	9.4%	9.4%	12.1%	8.6%	5.5%
mean + 3SD	151.4	153.5	218.6	213.3	359.3
mean- 3SD	84.6	86.1	102.2	125.6	258.1
N	7	7	7	7	7
median	118.7	120.0	168.4	162.1	299.2
mean/all kit median	0.81	0.78	0.77	0.82	0.84

MS Inhibin A kit average:					
mean	138.5	143.6	192.5	195.6	349.5
SD	18.0	20.7	27.8	22.6	35.4
all kit median	146.0	153.5	208.6	207.7	368.0

	MS 241	MS 242	MS 243	MS 244	MS 245
MS Inhibin A MoM All Lab Mean:					
mean	0.79	0.87	1.29	1.12	2.12
SD	0.09	0.12	0.19	0.14	0.26
%CV	11.7%	13.4%	14.8%	12.4%	12.2%
mean+3SD	1.06	1.22	1.86	1.53	2.91
mean-3SD	0.51	0.52	0.72	0.70	1.34
N	28	28	28	28	28

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	AF 241	AF 242	AF 243	AF 244	AF 245	AF 241	AF 242	AF 243	AF 244	AF 245
AF AFP All Lab Mean :						AF AFP Beckman Unicel (BCU/BC1) mean:				
mean	10.0	33.1	8.1	9.6	13.0	Mean	8.3	28.5	7.0	8.6
SD	1.9	5.4	1.3	1.3	2.1	SD	1.1	2.8	0.9	1.4
%CV	19.4%	16.3%	16.5%	14.0%	16.0%	%CV	13.0%	10.0%	12.6%	15.9%
mean+3SD	15.9	49.3	12.1	13.6	19.2	X+3SD	11.9	44.2	10.0	12.6
mean-3SD	4.2	16.9	4.1	5.6	6.7	X-3SD	6.1	16.7	4.5	5.5
N	27	27	27	27	27	N	6	6	6	6
mean/all kit median	0.93	0.94	0.93	0.97	0.92	median	8.4	29.2	7.4	8.8
						mean/All kit median	0.77	0.81	0.80	0.87

AF AFP Abbott AxSYM (ABB/AB2) mean:					
mean	12.9	38.8	10.0	11.2	15.5
SD	1.6	2.3	0.3	0.8	1.5
%CV	12.1%	5.9%	2.9%	6.7%	9.8%
mean+3SD	17.6	45.6	10.9	13.5	20.1
mean-3SD	8.2	31.9	9.1	9.0	11.0
N	4	4	4	4	4
median	12.3	38.65	9.95	10.95	14.8
mean/all kit median	1.20	1.10	1.15	1.14	1.10

AF AFP Beckman Access (BCX/BC1) mean:					
mean	9.0	30.5	7.3	9.1	11.9
SD	1.0	4.6	0.9	1.2	1.5
%CV	10.8%	15.0%	12.6%	13.1%	12.5%
mean+3SD	11.9	44.2	10.0	12.6	16.4
mean-3SD	6.1	16.7	4.5	5.5	7.5
N	8	8	8	8	8
median	8.9	30.1	7.3	8.7	11.9
mean/all kit median	0.83	0.86	0.83	0.92	0.84

AF AFP DPC Immulite or 2000 (DPB or D/DP5) mean:					
mean	10.8	35.3	8.7	9.9	14.2
SD	1.1	4.1	0.6	0.6	1.2
%CV	10.1%	11.6%	7.4%	6.0%	8.5%
mean+3SD	14.0	47.7	10.6	11.7	17.8
mean-3SD	7.5	23.0	6.8	8.1	10.5
N	6	6	6	6	6
median	10.5	33.1	8.65	9.75	13.8
mean/all kit median	1.00	1.00	1.00	1.00	1.00

AF AFP Siemens/Bayer ADVIA-Centaur(COB/BA1)mean:					
mean	11.8	39.6	9.5	10.9	14.8
N	2	2	2	2	2
mean/all kit median	1.10	1.12	1.09	1.10	1.04

AF AFP kit average:					
mean	10.5	34.5	8.5	9.9	13.4
SD	1.9	4.9	1.3	1.1	2.0
all kit median	10.8	35.3	8.7	9.9	14.2

	AF 241	AF 242	AF 243	AF 244	AF 245
AF AFP MoMs All Lab Mean:					
mean	1.28	2.82	1.26	0.67	1.65
SD	0.21	0.38	0.20	0.08	0.24
%CV	16.4%	13.4%	16.0%	12.5%	14.3%
mean+3SD	1.90	3.96	1.87	0.93	2.36
mean-3SD	0.65	1.69	0.66	0.42	0.94
N	27	27	27	27	27