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

	FT301	FT302	FT303	FT304	FT305
FT Gestational Age All Lab Mean:					
Mean	11.9	11.2	13.0	11.5	12.4
SD	0.11	0.13	0.05	0.13	0.08
%CV	0.9%	1.2%	0.4%	1.1%	0.7%
mean+3*SD	12.2	11.6	13.1	11.9	12.6
mean-3*SD	11.6	10.8	12.8	11.1	12.1
N	17	17	17	17	17

	FT301	FT302	FT303	FT304	FT305
FT NT MoM All Lab Mean:					
Mean	0.92	1.93	0.98	0.91	0.96
SD	0.05	0.12	0.06	0.05	0.06
%CV	5.2%	6.0%	6.1%	5.2%	6.2%
mean+3SD	1.06	2.27	1.16	1.05	1.14
mean- 3SD	0.77	1.58	0.80	0.77	0.78
N	16	16	16	16	16
All Median	0.91	1.90	0.98	0.91	0.97

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	FT301	FT302	FT303	FT304	FT305
FT hCG All Lab Mean:					
mean	79.6	178.8	68.2	76.2	73.3
SD	9.5	30.9	9.2	12.0	9.9
%CV	12.0%	17.3%	13.5%	15.7%	13.5%
mean+3SD	108.2	271.4	95.7	112.1	103.0
mean- 3SD	51.0	86.2	40.6	40.3	43.7
N	16	16	16	16	16
All lab median	81.1	181.1	67.2	80.2	75.0
mean/All kit median	0.98	0.95	0.97	0.95	0.96
FT hCG Beckman Unicel (BCU/BC1) mean:					
mean	81.6	187.7	69.9	80.3	76.1
SD	6.6	15.1	7.1	6.8	6.7
%CV	8.2%	8.1%	10.2%	8.5%	8.8%
mean+3SD	101.5	233.1	91.3	100.8	96.3
mean- 3SD	61.6	142.3	48.6	59.8	56.0
N	9	9	9	9	9
median	82.9	194.1	68.3	81.7	78.3
mean/All kit median	1.00	1.00	1.00	1.00	1.00
FT hCG Beckman Access (BCX/BC1) mean:					
mean	93.0	217.2	81.6	92.4	87.3
N	2	2	2	2	2
median	93.0	217.2	81.6	92.4	87.3
mean/All kit median	1.14	1.16	1.17	1.15	1.15
FT hCG DPC Immulite 2000(DPD/DP5) mean:					
mean	70.7	147.4	59.6	62.4	62.7
SD	7.3	21.1	5.1	5.8	3.8
%CV	10.4%	14.3%	8.6%	9.3%	6.1%
mean+3SD	92.7	210.6	74.9	79.9	74.2
mean- 3SD	48.6	84.1	44.3	44.9	51.3
N	5	5	5	5	5
median	69.6	154.0	58.5	61.8	61.0
mean/All kit median	0.87	0.78	0.85	0.78	0.82
FT hCG kit average:					
mean	81.7	184.1	70.4	78.4	75.4
SD	11.1	35.0	11.0	15.1	12.3
all kit median	81.6	187.7	69.9	80.3	76.1

	FT301	FT302	FT303	FT304	FT305
FT hCG MoM All Lab Mean:					
Mean	1.02	2.19	1.00	0.90	0.96
SD	0.09	0.17	0.10	0.08	0.08
%CV	9.3%	7.8%	9.7%	9.0%	7.8%
mean+3*SD	1.30	2.70	1.29	1.14	1.19
mean - 3*SD	0.73	1.68	0.71	0.66	0.73
N	15	15	15	15	15
All lab Median	1.02	2.25	1.00	0.93	0.96
mean/All kit Median	0.96	1.00	0.98	1.01	1.00
MS hCG MoM Beckman Unicel (BCU/BC1) mean:					
mean	0.99	2.18	1.02	0.89	0.96
SD	0.09	0.21	0.09	0.08	0.08
%CV	8.7%	9.8%	8.6%	9.3%	8.2%
mean+3SD	1.24	2.82	1.28	1.14	1.20
mean-3SD	0.73	1.54	0.75	0.65	0.73
N	9	9	9	9	9
median	0.97	2.30	1.00	0.93	0.96
mean/All kit median	0.93	0.99	1.00	1.00	1.00
MS hCG MoM Beckman Access (BCX/BC1) mean:					
mean	1.09	2.23	1.09	1.04	0.99
N	1	1	1	1	1
median	1.09	2.23	1.09	1.04	0.99
mean/All kit median	1.03	1.01	1.07	1.16	1.03
MS hCG MoM DPC Immulite2000 (DPD/DP5) mean:					
mean	1.06	2.20	0.95	0.89	0.95
SD	0.10	0.10	0.11	0.06	0.08
%CV	9.6%	4.6%	11.6%	7.2%	8.8%
mean+3SD	1.37	2.50	1.29	1.08	1.20
mean-3SD	0.76	1.90	0.62	0.70	0.70
N	5	5	5	5	5
median	1.09	2.25	0.97	0.90	0.93
mean/All kit median	1.00	1.00	0.94	0.99	0.99
FT hCG MoM kit average:					
mean	1.0	2.2	1.0	0.9	1.0
SD	0.1	0.0	0.1	0.1	0.0
all kit median	1.1	2.2	1.0	0.9	1.0

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FT PAPP-A All Lab Mean:					
Mean	3024.6	1172.3	3951.3	2680.5	3265.7
SD	2304.8	983.5	2951.6	2046.3	2502.6
%CV	76.2%	83.9%	74.7%	76.3%	76.6%
mean + 3SD	9939.0	4122.8	12806.2	8819.4	10773.3
mean- 3SD	-3889.7	-1778.3	-4903.5	-3458.4	-4242.0
N	16	16	16	16	16
All Lab Median	2085.5	744.6	2828.8	1854.2	2241.2
mean/All kit median	1.46	1.60	1.41	1.47	1.45
FT PAPP-A Beckman Unicel(BCU/BC1) Mean:					
Mean	2068.8	734.0	2796.1	1817.5	2253.8
SD	112.6	44.4	204.9	115.5	220.6
%CV	5.4%	6.1%	7.3%	6.4%	9.8%
mean + 3SD	2406.6	867.3	3410.8	2164.0	2915.5
mean - 3SD	1731.0	600.7	2181.4	1471.0	1592.1
N	10	10	10	10	10
Kit Median	2057.5	731.5	2828.8	1854.2	2241.2
mean/All kit median	1.00	1.00	1.00	1.00	1.00
***FT PAPP-A DPC Immullite 2000 (DPD/DP5) Mean:**					
Mean	7634.1	3149.1	9786.9	6778.5	8255.1
SD	321.6	58.7	1171.2	293.7	493.9
%CV	4.2%	1.9%	12.0%	4.3%	6.0%
mean + 3SD	8598.8	3325.2	13300.5	7659.6	9736.8
mean - 3SD	6669.4	2973.0	6273.3	5897.4	6773.4
N	3	3	3	3	3
Kit Median	7537.5	3128.4	9980.1	6833.7	8406.9
mean/All kit median	3.69	4.29	3.50	3.73	3.66

***Note: The above table contains converted values (mIU/ml->ng/ml) from equation obtained based on in house correlation data.**
(see critique)

	FT301	FT302	FT303	FT304	FT305
FT PAPP-A AnshLite (MPR or APM/AN1) Mean:					
Mean	1601.3	656.4	1966.3	1459.1	1649.1
SD	449.2	145.2	341.3	327.5	356.6
%CV	28.0%	22.1%	17.4%	22.4%	21.6%
mean + 3SD	2948.9	1092.0	2990.1	2441.8	2718.7
mean - 3SD	253.8	220.8	942.5	476.5	579.4
N	3	3	3	3	3
Kit Median	1479.0	595.0	1908.0	1524.0	1568.0
mean/All kit median	0.77	0.89	0.70	0.80	0.73
FT PAPP-A kit average:					
mean	3768.1	1513.2	4849.8	3351.7	4052.7
SD	3356.2	1417.3	4295.7	2973.1	3652.0
all kit median	2068.8	734.0	2796.1	1817.5	2253.8

	FT301	FT302	FT303	FT304	FT305
FT PAPP-A MoM All Lab Mean:					
Mean	3.45	1.89	2.68	3.40	2.90
SD	2.21	1.27	1.69	2.09	1.77
%CV	64.1%	67.2%	63.0%	61.5%	61.1%
mean + 3SD	10.08	5.70	7.74	9.68	8.21
mean- 3SD	-3.18	-1.92	-2.38	-2.87	-2.41
N	16	16	16	16	16
All Lab Median	2.65	1.46	2.36	2.71	2.26
mean/ All kit median	1.30	1.37	1.19	1.31	1.27
FT PAPP-A MoM Beckman Unicel(BCU/BC1) Mean:					
Mean	2.65	1.38	2.25	2.59	2.28
SD	0.47	0.24	0.40	0.47	0.42
%CV	17.9%	17.1%	17.8%	18.2%	18.3%
mean + 3SD	4.06	2.08	3.45	4.00	3.53
mean - 3SD	1.23	0.67	1.05	1.18	1.03
N	10	10	10	10	10
Kit Median	2.65	1.39	2.36	2.54	2.26
mean/All kit median	1.00	1.00	1.00	1.00	1.00
FT PAPP-A MoM DPC Immulite 2000 (DPD/DP5) Mean:					
Mean	7.78	4.32	5.60	7.48	6.33
SD	0.16	0.89	1.84	0.33	0.09
%CV	2.0%	20.7%	32.9%	4.5%	1.5%
mean + 3SD	8.24	7.00	11.14	8.49	6.61
mean - 3SD	7.31	1.64	0.07	6.48	6.05
N	3	3	3	3	3
Kit Median	7.78	4.72	4.93	7.37	6.36
mean/All kit median	2.94	3.14	2.49	2.89	2.78
FT PAPP-A MoM (MPR or APM/AN1) Mean:					
Mean	1.92	1.27	1.35	2.27	1.71
N	2	2	2	2	2
Kit Median	1.92	1.27	1.35	2.27	1.71
mean/ All kit median	0.72	0.92	0.60	0.88	0.75
FT PAPP-A MoM kit average:					
mean	4.11	2.32	3.07	4.11	3.44
SD	3.19	1.73	2.24	2.92	2.52
all kit median	2.65	1.38	2.25	2.59	2.28