

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Hematology, Coagulation,
Blood Bank, Urinalysis, PPM
MLE – M1



Total Commitment to Education and Service
Provided by ACP, Inc.

Table of Contents

2011 Evaluation Criteria	5
Hematology	
HemoCue	6
Hemoglobin	6
Glucose	6
Sedimentation Rate	6
Hematology with 5-part Automated Differential (CL Samples)	7
White Blood Cell Count	7
Red Blood Cell Count	7
Hemoglobin	8
Hematocrit	8
Platelet Count	9
Automated Differential	9
Sysmex Hematology with 3-part Automated Differential	12
White Blood Cell Count	12
Red Blood Cell Count	12
Hemoglobin	13
Hematocrit	13
Platelet Count	14
Automated Differential	14
Basic Hematology with 3-part Automated Differential	16
White Blood Cell Count	16
Red Blood Cell Count	17
Hemoglobin	19
Hematocrit	20
Platelet Count	22
Automated Differential	23
Hematology with 5-part Automated Differential (DIF Samples)	28
White Blood Cell Count	28
Red Blood Cell Count	28
Hemoglobin	29
Hematocrit	29
Platelet Count	30
Automated Differential	30
QBC Hematology	33
Hematocrit	33
Hemoglobin	33
White Blood Cell Count	34
Platelet Count	34
Automated Differential	35
Reticulocyte Count	36

Table of Contents (cont'd)

Hematology (cont'd)

Hematology with 5-part Automated Differential (BCX Samples)	36
White Blood Cell Count.....	36
Red Blood Cell Count	37
Hemoglobin.....	38
Hematocrit.....	39
Platelet Count	40
Automated Differential	41
Hematology with 5-part Automated Differential (MX Samples)	46
White Blood Cell Count.....	46
Red Blood Cell Count	46
Hemoglobin.....	47
Hematocrit.....	47
Platelet Count	48
Automated Differential	48
Waived Hematology	63
Hemoglobin.....	63
Hematocrit.....	63
Blood Cell Identification	51

Blood Bank

ABO Group	55
Rh Factor (D Type)	55
Rh Factor (Slide Method)	59
Unexpected Antibody Detection	55
Antibody Identification	56
Compatibility Testing	56

Coagulation

Prothrombin Time	57
International Normalized Ratio (INR)	58
Activated Partial Thromboplastin Time	59
Fibrinogen	59
CoaguChek XS Plus Prothrombin Time	60
International Normalized Ratio (INR)	60
ITC Protine Microcoagulation System Prothrombin Time	60
International Normalized Ratio (INR)	60
i-Stat Prothrombin Time	61
International Normalized Ratio (INR)	61
Fluid Cell Count/Crystals	62
WBC Count.....	62
RBC Count.....	62
Crystal Identification.....	62

Table of Contents (cont'd)

Urinalysis

Microalbumin, Urine	62
Dipstick	62
Quantitative	63
Creatinine, Urine	62
Dipstick	62
Quantitative	63
Urinalysis Dipstick	64
Specific Gravity	64
pH	65
Protein.....	66
Glucose.....	67
Ketones.....	67
Bilirubin	69
Urobilinogen.....	70
Blood or Hemoglobin.....	71
Leukocyte Esterase.....	72
Nitrite.....	73
Microalbumin (Dipstick Only).....	74
Urine hCG	75
Fecal Occult Blood	77
KOH Skin Preparation	64
Urine Sediment Identification	78

Provider-Performed Microscopy (PPM)

Provider-Performed Microscopy (PPM)	80
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2011 EVALUATION CRITERIA

The evaluation criteria used in the 2011 MLE Program is in accordance with the Clinical Laboratory Improvement Amendments of 1988 (CLIA '88) federal requirements for proficiency testing. The criteria are included below.

Quantitative

For quantitative procedures, a mean and standard deviation (SD) are calculated for each peer group consisting of 10 or more laboratories except for QBC Hematology and Coagulation (CG Specimens). Acceptable performance is established on a target value $\pm$ the intervals below. An explanation on how to calculate the range of acceptability based upon these limits is also provided in your MLE Program Guide on pages 39-40 under the heading "Acceptable Ranges for Quantitative Results."

Hemoglobin	± 7 percent
Hemoglobin, Waived	± 3 SD
Hematocrit	± 6 percent
Hematocrit, Waived	± 3 SD
White Blood Cell Count	± 15 percent
Red Blood Cell Count	± 6 percent
Platelet Count	± 25 percent
Automated Differential	± 3 SD
Body Fluid - White Cell Count	± 3 SD
Body Fluid - Red Cell Count	± 3 SD
Sedimentation Rate	± 3 SD
Prothrombin Time	± 15 percent
Activated Partial Thromboplastin Time	± 15 percent
Fibrinogen	± 20 percent
Whole Blood Prothrombin Time (IT samples)	± 3 SD
Whole Blood Prothrombin Time (All other samples)	± 15 percent
International Normalized Ratio (INR)	± 3 SD
Specific Gravity	± 0.010
Reticulocyte Count	± 3 SD
Whole Blood Glucose – HemoCue	± 3 SD
Microalbumin (Quantitative)	± 3 SD
Creatinine, Urine (Quantitative)	± 3 SD

Qualitative

For qualitative procedures, evaluation is based on participant or referee consensus. If participant consensus is not reached, CMS requirements call for grading by referee consensus. A minimum percentage of participants or referee laboratories must receive a passing score or the challenge is not evaluated due to lack of consensus. These percentages are listed below.

Crystal Identification	80% Consensus
Blood Cell Identification	80% Consensus
Urine Dipstick	80% Consensus
Urine hCG	80% Consensus
Microalbumin (Semi-Quantitative)	80% Consensus
Fecal Occult Blood	80% Consensus
Urine Sediment Identification	80% Consensus
Provider-Performed Microscopy	80% Consensus
KOH Skin Preparation	80% Consensus
ABO Group	95% Consensus
Rh Factor (D Type)	95% Consensus
Unexpected Antibody Detection	95% Consensus
Antibody Identification	95% Consensus
Compatibility Testing	95% Consensus

HEMOCUE HEMATOLOGY–HEMOGLOBIN (g/dL)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen HQ-1				<u>Labs</u>	<u>Mean</u>	Specimen HQ-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
HemoCue	69	4.95	0.18	3.6	4.9	4.4 - 5.5	67	16.15	0.40	2.5	16.0	14.9 - 17.4

HEMOCUE HEMATOLOGY–GLUCOSE (mg/dL)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen HQ-1				<u>Labs</u>	<u>Mean</u>	Specimen HQ-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	70	48.9	6.7	13.8	49	28 - 70	66	326.5	14.7	4.5	327	282 - 371
HemoCue Glucose 201/+	59	50.0	5.3	10.7	49	33 - 67	57	328.2	12.8	3.9	328	289 - 367

SEDIMENTATION RATE (MM/HR)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen ES-1				<u>Labs</u>	<u>Mean</u>	Specimen ES-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	223	7.0	2.5	35.6	7	0 - 15	222	43.9	15.3	34.8	40	0 - 90
HiChem Mini-Ves	15	5.2	2.3	43.7	5	0 - 13	15	73.0	11.3	15.5	72	39 - 107
Polymedco Sedimat	18	4.3	2.3	53.1	4	0 - 12	18	41.7	8.4	20.0	42	16 - 67
Streck ESR-Auto Plus	12	10.3	0.8	7.4	10	7 - 13	12	65.1	7.4	11.4	66	42 - 88
Vital Diagnostics Excyte M/10	19	7.4	1.3	18.2	7	3 - 12	19	55.7	4.2	7.6	58	43 - 69
Westergren - diluted	122	7.2	2.4	34.0	8	0 - 15	121	38.7	9.5	24.5	37	10 - 68
Westergren - undiluted	18	7.4	1.8	24.6	8	1 - 13	17	36.5	10.2	27.8	34	6 - 67
Wintrobe	11	8.5	2.3	27.7	8	1 - 16	11	28.0	11.9	42.7	29	0 - 64

SEDIMAT SEDIMENTATION RATE (MM/HR)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen MAT-1				<u>Labs</u>	<u>Mean</u>	Specimen MAT-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Polymedco Sedimat 15	23	2.0	0.9	47.4	2	0 - 5	21	41.7	12.9	31.0	46	2 - 81

HEMATOLOGY W/ 5-PART DIFFERENTIAL–WHITE BLOOD CELL COUNT (x K/uL)

Specimen CL-1							Specimen CL-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	36	20.77	0.67	3.2	20.9	17.6 - 23.9	36	8.22	0.24	2.9	8.2	6.9 - 9.5	
All Abbott Cell-Dyn Instruments	35	20.74	0.66	3.2	20.8	17.6 - 23.9	35	8.22	0.24	2.9	8.2	6.9 - 9.5	
Abbott Cell-Dyn 3200	22	20.75	0.60	2.9	20.9	17.6 - 23.9	22	8.27	0.24	2.9	8.3	7.0 - 9.6	
Specimen CL-3							Specimen CL-4						
All Method	36	3.10	0.09	3.0	3.1	2.6 - 3.6	36	20.70	0.61	3.0	20.7	17.5 - 23.9	
All Abbott Cell-Dyn Instruments	35	3.09	0.09	2.9	3.1	2.6 - 3.6	35	20.65	0.54	2.6	20.6	17.5 - 23.8	
Abbott Cell-Dyn 3200	22	3.10	0.09	2.8	3.1	2.6 - 3.6	22	20.66	0.52	2.5	20.8	17.5 - 23.8	
Specimen CL-5													
All Method	35	8.26	0.20	2.5	8.3	7.0 - 9.5							
All Abbott Cell-Dyn Instruments	34	8.26	0.21	2.5	8.3	7.0 - 9.5							
Abbott Cell-Dyn 3200	21	8.26	0.17	2.1	8.3	7.0 - 9.5							

HEMATOLOGY W/ 5-PART DIFFERENTIAL–RED BLOOD CELL COUNT (x M/uL)

Specimen CL-1							Specimen CL-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	36	5.082	0.108	2.1	5.10	4.77 - 5.39	35	4.735	0.085	1.8	4.73	4.45 - 5.02	
All Abbott Cell-Dyn Instruments	35	5.086	0.107	2.1	5.10	4.78 - 5.40	35	4.743	0.100	2.1	4.73	4.45 - 5.03	
Abbott Cell-Dyn 3200	22	5.097	0.102	2.0	5.10	4.79 - 5.41	22	4.759	0.095	2.0	4.75	4.47 - 5.05	
Specimen CL-3							Specimen CL-4						
All Method	35	2.163	0.037	1.7	2.16	2.03 - 2.30	36	5.066	0.082	1.6	5.05	4.76 - 5.37	
All Abbott Cell-Dyn Instruments	34	2.161	0.036	1.7	2.16	2.03 - 2.30	35	5.065	0.084	1.7	5.05	4.76 - 5.37	
Abbott Cell-Dyn 3200	21	2.168	0.033	1.5	2.17	2.03 - 2.30	22	5.050	0.077	1.5	5.04	4.74 - 5.36	
Specimen CL-5													
All Method	36	4.738	0.083	1.8	4.73	4.45 - 5.03							
All Abbott Cell-Dyn Instruments	35	4.740	0.084	1.8	4.73	4.45 - 5.03							
Abbott Cell-Dyn 3200	22	4.750	0.083	1.8	4.74	4.46 - 5.04							

HEMATOLOGY W/ 5-PART DIFFERENTIAL–HEMOGLOBIN (g/dL)

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	16.62	0.32	1.9	16.6	15.4 - 17.8	35	13.77	0.26	1.9	13.8	12.8 - 14.8
All Abbott Cell-Dyn Instruments	35	16.63	0.32	1.9	16.6	15.4 - 17.8	35	13.77	0.26	1.9	13.8	12.8 - 14.8
Abbott Cell-Dyn 3200	22	16.73	0.30	1.8	16.7	15.5 - 18.0	22	13.82	0.27	2.0	13.9	12.8 - 14.8
Specimen CL-3							Specimen CL-4					
All Method	36	5.51	0.12	2.2	5.5	5.1 - 5.9	36	16.55	0.31	1.9	16.6	15.3 - 17.8
All Abbott Cell-Dyn Instruments	35	5.51	0.12	2.2	5.5	5.1 - 5.9	35	16.56	0.31	1.9	16.6	15.3 - 17.8
Abbott Cell-Dyn 3200	22	5.55	0.11	1.9	5.6	5.1 - 6.0	22	16.62	0.32	1.9	16.7	15.4 - 17.8
Specimen CL-5												
All Method	36	13.74	0.28	2.1	13.7	12.7 - 14.8						
All Abbott Cell-Dyn Instruments	35	13.75	0.27	2.0	13.7	12.7 - 14.8						
Abbott Cell-Dyn 3200	22	13.79	0.28	2.0	13.8	12.8 - 14.8						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–HEMATOCRIT (percent)

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	43.89	2.72	6.2	42.9	41.2 - 46.6	36	38.91	2.24	5.8	38.2	36.5 - 41.3
All Abbott Cell-Dyn Instruments	29	42.89	1.10	2.6	42.6	40.3 - 45.5	29	38.11	1.07	2.8	37.9	35.8 - 40.5
Abbott Cell-Dyn 3200	22	42.90	1.10	2.6	42.8	40.3 - 45.5	22	38.20	1.12	2.9	38.2	35.9 - 40.5
Specimen CL-3							Specimen CL-4					
All Method	36	15.41	1.02	6.6	15.2	14.4 - 16.4	36	43.89	2.99	6.8	42.7	41.2 - 46.6
All Abbott Cell-Dyn Instruments	28	15.13	0.36	2.4	15.1	14.2 - 16.1	29	42.68	1.03	2.4	42.5	40.1 - 45.3
Abbott Cell-Dyn 3200	21	15.20	0.35	2.3	15.2	14.2 - 16.2	22	42.65	1.01	2.4	42.5	40.0 - 45.3
Specimen CL-5												
All Method	36	38.88	2.16	5.6	38.1	36.5 - 41.3						
All Abbott Cell-Dyn Instruments	29	38.08	0.97	2.6	37.9	35.7 - 40.4						
Abbott Cell-Dyn 3200	22	38.17	0.96	2.5	38.1	35.8 - 40.5						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–PLATELET COUNT (x K/uL)

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	616.7	43.3	7.0	614	462 - 771	34	279.9	11.0	3.9	279	209 - 350
All Abbott Cell-Dyn Instruments	34	622.6	35.9	5.8	616	466 - 779	33	280.5	10.8	3.8	279	210 - 351
Abbott Cell-Dyn 3200	22	633.6	32.5	5.1	630	475 - 792	21	281.5	10.6	3.8	279	211 - 352
Specimen CL-3							Specimen CL-4					
All Method	36	85.9	7.3	8.5	85	64 - 108	35	618.0	30.4	4.9	622	463 - 773
All Abbott Cell-Dyn Instruments	35	86.0	7.4	8.6	85	64 - 108	34	619.8	29.1	4.7	626	464 - 775
Abbott Cell-Dyn 3200	23	85.3	7.9	9.3	85	64 - 107	22	627.3	29.2	4.7	630	470 - 785
Specimen CL-5												
All Method	34	280.1	11.6	4.1	278	210 - 351						
All Abbott Cell-Dyn Instruments	33	280.8	11.0	3.9	278	210 - 351						
Abbott Cell-Dyn 3200	21	279.0	10.0	3.6	278	209 - 349						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–NEUTROPHILS (percent)

Specimen CL-1							Specimen CL-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	34	75.17	0.73	1.0	75.1	72.9 - 77.4	35	60.60	0.69	1.1	60.5	58.5 - 62.7	
All Abbott Cell-Dyn Instruments	33	75.19	0.72	1.0	75.1	73.0 - 77.4	34	60.59	0.69	1.1	60.5	58.5 - 62.7	
Abbott Cell-Dyn 3200	20	74.90	0.63	0.8	74.9	73.0 - 76.8	21	60.43	0.64	1.1	60.5	58.5 - 62.4	
Specimen CL-3							Specimen CL-4						
All Method	36	48.13	1.22	2.5	48.0	44.4 - 51.9	34	75.08	0.90	1.2	75.2	72.3 - 77.8	
All Abbott Cell-Dyn Instruments	35	48.03	1.07	2.2	48.0	44.8 - 51.3	33	75.04	0.87	1.2	75.1	72.4 - 77.7	
Abbott Cell-Dyn 3200	22	47.72	1.11	2.3	47.7	44.3 - 51.1	20	74.66	0.76	1.0	74.9	72.3 - 77.0	
Specimen CL-5													
All Method	35	60.46	0.92	1.5	60.4	57.6 - 63.3							
All Abbott Cell-Dyn Instruments	33	60.46	0.67	1.1	60.4	58.4 - 62.5							
Abbott Cell-Dyn 3200	21	60.30	0.88	1.5	60.4	57.6 - 63.0							

HEMATOLOGY W/ 5-PART DIFFERENTIAL–LYMPHOCYTES (percent)

Specimen CL-1							Specimen CL-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	34	14.79	0.86	5.8	14.8	12.2 - 17.4	35	27.06	0.75	2.8	27.3	24.8 - 29.4	
All Abbott Cell-Dyn Instruments	33	14.72	0.75	5.1	14.6	12.4 - 17.0	34	27.08	0.76	2.8	27.3	24.8 - 29.4	
Abbott Cell-Dyn 3200	23	15.40	1.74	11.3	15.1	10.1 - 20.7	22	27.25	0.51	1.9	27.4	25.7 - 28.8	
Specimen CL-3							Specimen CL-4						
All Method	36	41.32	1.33	3.2	41.3	37.3 - 45.4	34	14.68	0.84	5.7	14.9	12.1 - 17.2	
All Abbott Cell-Dyn Instruments	35	41.41	1.24	3.0	41.3	37.7 - 45.2	33	14.67	0.85	5.8	14.8	12.1 - 17.3	
Abbott Cell-Dyn 3200	23	41.50	1.35	3.3	41.3	37.4 - 45.6	21	14.91	0.63	4.2	14.9	13.0 - 16.8	
Specimen CL-5													
All Method	35	27.25	1.13	4.1	27.2	23.8 - 30.7							
All Abbott Cell-Dyn Instruments	34	27.35	0.99	3.6	27.3	24.3 - 30.4							
Abbott Cell-Dyn 3200	22	27.35	0.95	3.5	27.3	24.4 - 30.3							

HEMATOLOGY W/ 5-PART DIFFERENTIAL–MONOCYTES (percent)

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	5.37	0.33	6.1	5.3	4.3 - 6.4	36	6.84	0.43	6.3	6.9	5.5 - 8.2
All Abbott Cell-Dyn Instruments	34	5.37	0.33	6.2	5.3	4.3 - 6.4	35	6.81	0.40	5.8	6.8	5.6 - 8.1
Abbott Cell-Dyn 3200	21	5.37	0.35	6.5	5.3	4.3 - 6.5	22	6.80	0.42	6.1	6.8	5.5 - 8.1
Specimen CL-3							Specimen CL-4					
All Method	36	6.83	1.03	15.1	6.8	3.7 - 10.0	34	5.42	0.37	6.8	5.4	4.3 - 6.6
All Abbott Cell-Dyn Instruments	35	6.82	1.04	15.3	6.6	3.6 - 10.0	33	5.42	0.38	6.9	5.4	4.2 - 6.6
Abbott Cell-Dyn 3200	22	6.90	1.04	15.1	7.0	3.7 - 10.1	21	5.48	0.43	7.9	5.5	4.1 - 6.8
Specimen CL-5												
All Method	36	6.80	0.64	9.5	6.9	4.8 - 8.8						
All Abbott Cell-Dyn Instruments	35	6.76	0.61	9.0	6.8	4.9 - 8.6						
Abbott Cell-Dyn 3200	22	6.85	0.66	9.7	7.0	4.8 - 8.9						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–EOSINOPHILS (percent)

<u>Instrument</u>	Specimen CL-1						Specimen CL-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	4.18	0.22	5.2	4.2	3.5 - 4.9	35	5.42	0.31	5.6	5.4	4.5 - 6.4
All Abbott Cell-Dyn Instruments	34	4.18	0.22	5.2	4.2	3.5 - 4.9	35	5.42	0.31	5.6	5.4	4.5 - 6.4
Abbott Cell-Dyn 3200	21	4.13	0.22	5.4	4.1	3.4 - 4.9	22	5.36	0.30	5.7	5.4	4.4 - 6.3
	Specimen CL-3						Specimen CL-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	3.19	0.32	10.2	3.2	2.2 - 4.2	34	4.19	0.20	4.9	4.2	3.5 - 4.9
All Abbott Cell-Dyn Instruments	33	3.22	0.27	8.3	3.2	2.4 - 4.1	34	4.19	0.20	4.9	4.2	3.5 - 4.9
Abbott Cell-Dyn 3200	21	3.20	0.40	12.5	3.2	2.0 - 4.5	21	4.16	0.20	4.9	4.2	3.5 - 4.8
	Specimen CL-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	36	5.36	0.37	6.9	5.4	4.2 - 6.5						
All Abbott Cell-Dyn Instruments	35	5.39	0.33	6.1	5.4	4.3 - 6.4						
Abbott Cell-Dyn 3200	22	5.30	0.26	4.9	5.3	4.5 - 6.1						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–BASOPHILS (percent)

<u>Instrument</u>	Specimen CL-1						Specimen CL-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	0.53	0.22	41.1	0.5	0.0 - 1.2	34	0.11	0.15	131.7	0.1	0.0 - 0.6
All Abbott Cell-Dyn Instruments	34	0.54	0.22	41.2	0.5	0.0 - 1.3	33	0.09	0.08	92.7	0.1	0.0 - 0.4
Abbott Cell-Dyn 3200	21	0.60	0.21	35.7	0.6	0.0 - 1.3	20	0.10	0.09	93.4	0.1	0.0 - 0.4
	Specimen CL-3						Specimen CL-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	0.60	0.37	61.3	0.5	0.0 - 1.7	35	0.53	0.29	54.1	0.5	0.0 - 1.5
All Abbott Cell-Dyn Instruments	35	0.58	0.35	60.8	0.5	0.0 - 1.7	34	0.54	0.29	52.8	0.5	0.0 - 1.5
Abbott Cell-Dyn 3200	22	0.64	0.37	57.7	0.5	0.0 - 1.8	21	0.59	0.29	49.3	0.5	0.0 - 1.5
	Specimen CL-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	35	0.09	0.09	102.6	0.1	0.0 - 0.4						
All Abbott Cell-Dyn Instruments	34	0.08	0.08	101.8	0.1	0.0 - 0.4						
Abbott Cell-Dyn 3200	21	0.08	0.08	100.9	0.1	0.0 - 0.4						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–WHITE BLOOD CELL COUNT (x 10⁹/L)

Specimen SYX-1							Specimen SYX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	50	20.09	0.43	2.2	20.2	17.0 - 23.2	50	6.84	0.47	6.9	6.9	5.8 - 7.9	
All Sysmex Instruments	49	20.10	0.43	2.1	20.2	17.0 - 23.2	48	6.88	0.45	6.5	6.9	5.8 - 8.0	
Sysmex K - 800,1000,4500,KX-21	33	20.13	0.45	2.3	20.3	17.1 - 23.2	33	6.86	0.48	7.0	6.9	5.8 - 7.9	
Sysmex pocH-100i	16	20.04	0.38	1.9	19.9	17.0 - 23.1	15	6.92	0.37	5.3	7.0	5.8 - 8.0	
Specimen SYX-3							Specimen SYX-4						
All Method	50	2.82	0.11	3.7	2.8	2.3 - 3.3	50	20.14	0.47	2.3	20.2	17.1 - 23.2	
All Sysmex Instruments	48	2.83	0.10	3.6	2.8	2.4 - 3.3	49	20.16	0.46	2.3	20.2	17.1 - 23.2	
Sysmex K - 800,1000,4500,KX-21	32	2.80	0.10	3.6	2.8	2.3 - 3.3	33	20.22	0.45	2.2	20.3	17.1 - 23.3	
Sysmex pocH-100i	16	2.88	0.09	3.2	2.9	2.4 - 3.4	16	20.04	0.46	2.3	20.2	17.0 - 23.1	
Specimen SYX-5													
All Method	51	6.98	0.49	7.0	7.1	5.9 - 8.1							
All Sysmex Instruments	49	6.98	0.49	7.0	7.1	5.9 - 8.1							
Sysmex K - 800,1000,4500,KX-21	33	7.04	0.49	6.9	7.2	5.9 - 8.1							
Sysmex pocH-100i	16	6.86	0.49	7.1	7.0	5.8 - 7.9							

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–RED BLOOD CELL COUNT (x 10¹²/L)

Specimen SYX-1							Specimen SYX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	51	5.688	0.100	1.8	5.67	5.34 - 6.03	50	3.930	0.074	1.9	3.93	3.69 - 4.17	
All Sysmex Instruments	49	5.684	0.097	1.7	5.67	5.34 - 6.03	48	3.927	0.072	1.8	3.92	3.69 - 4.17	
Sysmex K - 800,1000,4500,KX-21	33	5.641	0.064	1.1	5.63	5.30 - 5.98	33	3.893	0.044	1.1	3.90	3.65 - 4.13	
Sysmex pocH-100i	16	5.774	0.094	1.6	5.82	5.42 - 6.13	15	4.001	0.064	1.6	4.02	3.76 - 4.25	
Specimen SYX-3							Specimen SYX-4						
All Method	50	2.441	0.041	1.7	2.44	2.29 - 2.59	49	5.672	0.076	1.3	5.67	5.33 - 6.02	
All Sysmex Instruments	48	2.439	0.040	1.6	2.44	2.29 - 2.59	48	5.676	0.085	1.5	5.67	5.33 - 6.02	
Sysmex K - 800,1000,4500,KX-21	33	2.428	0.032	1.3	2.42	2.28 - 2.58	33	5.645	0.053	0.9	5.65	5.30 - 5.99	
Sysmex pocH-100i	16	2.473	0.054	2.2	2.46	2.32 - 2.63	16	5.762	0.117	2.0	5.76	5.41 - 6.11	
Specimen SYX-5													
All Method	51	3.939	0.072	1.8	3.92	3.70 - 4.18							
All Sysmex Instruments	48	3.930	0.062	1.6	3.92	3.69 - 4.17							
Sysmex K - 800,1000,4500,KX-21	33	3.907	0.043	1.1	3.91	3.67 - 4.15							
Sysmex pocH-100i	16	3.991	0.077	1.9	3.98	3.75 - 4.24							

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–HEMOGLOBIN (g/dL)

Specimen SYX-1							Specimen SYX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	18.36	0.20	1.1	18.4	17.0 - 19.7	48	11.90	0.13	1.1	11.9	11.0 - 12.8
All Sysmex Instruments	47	18.36	0.20	1.1	18.4	17.0 - 19.7	47	11.89	0.15	1.2	11.9	11.0 - 12.8
Sysmex K - 800,1000,4500,KX-21	31	18.34	0.16	0.9	18.4	17.0 - 19.7	32	11.93	0.11	0.9	11.9	11.0 - 12.8
Sysmex pocH-100i	16	18.42	0.26	1.4	18.4	17.1 - 19.8	15	11.79	0.17	1.5	11.8	10.9 - 12.7
Specimen SYX-3							Specimen SYX-4					
All Method	51	6.05	0.13	2.1	6.0	5.6 - 6.5	50	18.38	0.20	1.1	18.4	17.0 - 19.7
All Sysmex Instruments	49	6.05	0.13	2.1	6.0	5.6 - 6.5	48	18.39	0.20	1.1	18.4	17.1 - 19.7
Sysmex K - 800,1000,4500,KX-21	33	6.07	0.12	2.0	6.1	5.6 - 6.5	32	18.43	0.13	0.7	18.4	17.1 - 19.8
Sysmex pocH-100i	16	6.01	0.14	2.3	6.0	5.5 - 6.5	16	18.31	0.28	1.6	18.2	17.0 - 19.6
Specimen SYX-5												
All Method	50	11.88	0.16	1.3	11.9	11.0 - 12.8						
All Sysmex Instruments	48	11.89	0.16	1.3	11.9	11.0 - 12.8						
Sysmex K - 800,1000,4500,KX-21	31	11.93	0.10	0.8	11.9	11.0 - 12.8						
Sysmex pocH-100i	16	11.78	0.18	1.5	11.8	10.9 - 12.6						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–HEMATOCRIT (percent)

Specimen SYX-1							Specimen SYX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	51	50.16	1.64	3.3	49.7	47.1 - 53.2	50	32.79	1.14	3.5	32.5	30.8 - 34.8	
All Sysmex Instruments	49	50.10	1.60	3.2	49.7	47.0 - 53.2	48	32.74	1.12	3.4	32.5	30.7 - 34.8	
Sysmex K - 800,1000,4500,KX-21	33	49.20	0.82	1.7	49.1	46.2 - 52.2	33	32.12	0.62	1.9	32.1	30.1 - 34.1	
Sysmex pocH-100i	16	51.96	1.14	2.2	52.3	48.8 - 55.1	15	34.11	0.66	1.9	34.0	32.0 - 36.2	
Specimen SYX-3							Specimen SYX-4						
All Method	50	17.55	0.59	3.4	17.4	16.4 - 18.7	51	50.08	1.53	3.0	49.8	47.0 - 53.1	
All Sysmex Instruments	48	17.52	0.57	3.3	17.4	16.4 - 18.6	49	50.05	1.53	3.1	49.6	47.0 - 53.1	
Sysmex K - 800,1000,4500,KX-21	33	17.24	0.35	2.0	17.2	16.2 - 18.3	33	49.25	0.88	1.8	49.2	46.2 - 52.3	
Sysmex pocH-100i	15	18.14	0.48	2.7	18.2	17.0 - 19.3	16	51.69	1.26	2.4	52.0	48.5 - 54.8	
Specimen SYX-5													
All Method	51	32.81	1.15	3.5	32.4	30.8 - 34.8							
All Sysmex Instruments	49	32.75	1.11	3.4	32.3	30.7 - 34.8							
Sysmex K - 800,1000,4500,KX-21	33	32.18	0.63	2.0	32.2	30.2 - 34.2							
Sysmex pocH-100i	16	33.92	0.96	2.8	33.8	31.8 - 36.0							

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–PLATELET COUNT (x10⁹/L)

Specimen SYX-1							Specimen SYX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	359.4	16.9	4.7	360	269 - 450	50	168.5	8.3	4.9	168	126 - 211
All Sysmex Instruments	49	359.3	17.2	4.8	360	269 - 450	48	168.9	8.3	4.9	168	126 - 212
Sysmex K - 800,1000,4500,KX-21	33	367.5	11.2	3.0	369	275 - 460	33	171.2	8.1	4.7	170	128 - 214
Sysmex pocH-100i	16	342.5	15.2	4.4	347	256 - 429	15	163.8	6.5	4.0	162	122 - 205
Specimen SYX-3							Specimen SYX-4					
All Method	51	54.9	4.0	7.3	54	41 - 69	51	358.2	20.5	5.7	363	268 - 448
All Sysmex Instruments	49	55.0	4.0	7.4	55	41 - 69	49	358.6	20.8	5.8	364	268 - 449
Sysmex K - 800,1000,4500,KX-21	33	54.7	3.4	6.2	54	41 - 69	33	368.5	13.2	3.6	371	276 - 461
Sysmex pocH-100i	16	55.6	5.2	9.4	56	41 - 70	16	338.1	18.7	5.5	341	253 - 423
Specimen SYX-5												
All Method	51	168.2	7.8	4.6	169	126 - 211						
All Sysmex Instruments	49	168.1	7.9	4.7	168	126 - 211						
Sysmex K - 800,1000,4500,KX-21	33	170.5	7.3	4.3	171	127 - 214						
Sysmex pocH-100i	16	163.3	7.2	4.4	165	122 - 205						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–LYMPH W/SCR (percent)

Specimen SYX-1							Specimen SYX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	50	67.00	0.83	1.2	67.1	64.5 - 69.5	48	37.32	2.30	6.2	37.0	30.4 - 44.3	
All Sysmex Instruments	48	66.99	0.85	1.3	67.1	64.4 - 69.6	46	37.22	2.29	6.1	36.9	30.3 - 44.1	
Sysmex K - 800,1000,4500,KX-21	32	66.79	0.87	1.3	66.8	64.1 - 69.5	32	37.69	2.81	7.4	37.4	29.2 - 46.2	
Sysmex pocH-100i	16	67.38	0.66	1.0	67.3	65.3 - 69.4	15	36.79	1.99	5.4	36.6	30.8 - 42.8	
Specimen SYX-3							Specimen SYX-4						
All Method	50	14.33	1.18	8.3	14.5	10.7 - 17.9	50	66.93	0.95	1.4	67.1	64.0 - 69.8	
All Sysmex Instruments	48	14.37	1.17	8.1	14.5	10.8 - 17.9	48	66.91	0.95	1.4	67.1	64.0 - 69.8	
Sysmex K - 800,1000,4500,KX-21	32	14.79	1.02	6.9	15.0	11.7 - 17.9	32	66.69	0.93	1.4	66.9	63.9 - 69.5	
Sysmex pocH-100i	16	13.53	0.99	7.3	13.4	10.5 - 16.5	16	67.36	0.87	1.3	67.6	64.7 - 70.0	
Specimen SYX-5													
All Method	49	36.14	2.08	5.8	35.9	29.8 - 42.4							
All Sysmex Instruments	47	36.21	2.10	5.8	36.0	29.9 - 42.6							
Sysmex K - 800,1000,4500,KX-21	32	36.14	2.33	6.4	35.8	29.1 - 43.2							
Sysmex pocH-100i	15	36.35	1.57	4.3	36.9	31.6 - 41.1							

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–MONO/MIXED W/MCR (percent)

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	9.54	0.83	8.7	9.4	7.0 - 12.1	48	13.83	1.07	7.7	14.0	10.6 - 17.1
All Sysmex Instruments	47	9.57	0.83	8.7	9.5	7.0 - 12.1	46	13.80	1.08	7.8	13.9	10.5 - 17.1
Sysmex K - 800,1000,4500,KX-21	31	9.83	0.81	8.3	9.7	7.3 - 12.3	31	13.78	1.05	7.6	14.0	10.6 - 17.0
Sysmex pocH-100i	16	9.08	0.64	7.0	9.0	7.1 - 11.0	15	13.83	1.17	8.4	13.6	10.3 - 17.4
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	48	24.34	2.18	9.0	24.5	17.7 - 30.9	48	9.31	0.66	7.1	9.3	7.3 - 11.3
All Sysmex Instruments	46	24.35	2.22	9.1	24.6	17.6 - 31.1	46	9.33	0.65	7.0	9.3	7.3 - 11.3
Sysmex K - 800,1000,4500,KX-21	30	25.44	1.61	6.3	25.8	20.6 - 30.3	31	9.58	0.74	7.8	9.5	7.3 - 11.9
Sysmex pocH-100i	16	22.31	1.74	7.8	22.5	17.1 - 27.6	16	9.00	0.53	5.8	8.9	7.4 - 10.6
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	49	13.84	0.84	6.0	13.9	11.3 - 16.4						
All Sysmex Instruments	47	13.85	0.85	6.2	13.9	11.2 - 16.5						
Sysmex K - 800,1000,4500,KX-21	31	14.05	0.85	6.1	14.0	11.4 - 16.7						
Sysmex pocH-100i	16	13.46	0.73	5.4	13.3	11.2 - 15.7						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–NEUT W/LCR (percent)

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	48	23.50	0.69	2.9	23.7	21.4 - 25.6	48	48.62	2.45	5.0	48.9	41.2 - 56.0
All Sysmex Instruments	46	23.48	0.70	3.0	23.7	21.3 - 25.6	46	48.73	2.43	5.0	48.9	41.4 - 56.1
Sysmex K - 800,1000,4500,KX-21	30	23.45	0.65	2.8	23.6	21.5 - 25.4	31	48.42	2.52	5.2	48.5	40.8 - 56.0
Sysmex pocH-100i	16	23.55	0.80	3.4	23.7	21.1 - 26.0	15	49.37	2.18	4.4	49.8	42.8 - 56.0
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	48	61.32	2.61	4.3	61.2	53.4 - 69.2	49	23.69	0.74	3.1	23.7	21.4 - 26.0
All Sysmex Instruments	46	61.27	2.65	4.3	61.1	53.3 - 69.3	47	23.68	0.76	3.2	23.6	21.4 - 26.0
Sysmex K - 800,1000,4500,KX-21	30	59.73	1.55	2.6	59.6	55.0 - 64.4	31	23.70	0.69	2.9	23.7	21.6 - 25.8
Sysmex pocH-100i	16	64.16	1.64	2.6	64.0	59.2 - 69.1	16	23.64	0.90	3.8	23.4	20.9 - 26.4
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	48	50.06	2.18	4.4	50.7	43.5 - 56.7						
All Sysmex Instruments	46	49.99	2.20	4.4	50.6	43.3 - 56.6						
Sysmex K - 800,1000,4500,KX-21	31	49.92	2.39	4.8	50.6	42.7 - 57.2						
Sysmex pocH-100i	15	50.13	1.81	3.6	49.8	44.7 - 55.6						

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL—WHITE BLOOD CELL COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen HD-1						Specimen HD-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	942	9.31	0.35	3.8	9.3	7.9 - 10.8	953	4.05	0.17	4.2	4.0	3.4 - 4.7
All Abbott Cell-Dyn Instruments	408	9.33	0.37	4.0	9.3	7.9 - 10.8	408	4.05	0.18	4.5	4.1	3.4 - 4.7
All ABX Instruments	107	9.48	0.42	4.4	9.5	8.0 - 11.0	108	3.93	0.13	3.2	3.9	3.3 - 4.6
All COULTER Instruments	384	9.25	0.29	3.2	9.2	7.8 - 10.7	385	4.08	0.14	3.6	4.1	3.4 - 4.7
Abbott Cell-Dyn 1700	108	9.42	0.34	3.7	9.4	8.0 - 10.9	108	4.12	0.16	3.8	4.1	3.5 - 4.8
Abbott Cell-Dyn 1800	233	9.26	0.35	3.8	9.3	7.8 - 10.7	229	4.04	0.16	4.0	4.1	3.4 - 4.7
Abbott Cell-Dyn Emerald	59	9.48	0.47	4.9	9.5	8.0 - 11.0	60	3.95	0.21	5.2	4.0	3.3 - 4.6
ABX Diagnostics Micros/45/60	107	9.48	0.42	4.4	9.5	8.0 - 11.0	108	3.93	0.13	3.2	3.9	3.3 - 4.6
Boule Medonic CA 620	15	9.54	0.23	2.4	9.5	8.1 - 11.0	15	4.07	0.12	3.0	4.1	3.4 - 4.7
Boule Medonic M series	21	8.83	0.30	3.4	8.9	7.5 - 10.2	21	3.87	0.13	3.3	3.9	3.2 - 4.5
COULTER AcT 8/10	23	9.41	0.27	2.8	9.4	8.0 - 10.9	24	4.09	0.18	4.5	4.1	3.4 - 4.8
COULTER AcT diff/diff 2	353	9.23	0.28	3.0	9.2	7.8 - 10.7	355	4.08	0.14	3.5	4.1	3.4 - 4.7

<u>Instrument</u>	Specimen HD-3						Specimen HD-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	947	20.42	0.75	3.7	20.5	17.3 - 23.5	945	7.11	0.25	3.5	7.1	6.0 - 8.2
All Abbott Cell-Dyn Instruments	412	20.33	1.01	5.0	20.5	17.2 - 23.4	412	7.09	0.30	4.2	7.1	6.0 - 8.2
All ABX Instruments	107	20.35	0.49	2.4	20.4	17.3 - 23.5	109	7.05	0.21	3.0	7.1	5.9 - 8.2
All COULTER Instruments	387	20.51	0.54	2.6	20.5	17.4 - 23.6	382	7.13	0.20	2.8	7.1	6.0 - 8.2
Abbott Cell-Dyn 1700	110	20.83	0.70	3.3	20.8	17.7 - 24.0	110	7.19	0.24	3.4	7.2	6.1 - 8.3
Abbott Cell-Dyn 1800	234	20.49	0.85	4.1	20.6	17.4 - 23.6	236	7.09	0.30	4.3	7.1	6.0 - 8.2
Abbott Cell-Dyn Emerald	58	18.83	0.61	3.2	19.0	16.0 - 21.7	59	6.91	0.33	4.7	7.0	5.8 - 8.0
ABX Diagnostics Micros/45/60	107	20.35	0.49	2.4	20.4	17.3 - 23.5	109	7.05	0.21	3.0	7.1	5.9 - 8.2
Boule Medonic CA 620	15	21.04	0.43	2.0	21.0	17.8 - 24.2	15	7.33	0.21	2.8	7.3	6.2 - 8.5
Boule Medonic M series	21	19.47	0.63	3.2	19.4	16.5 - 22.4	21	6.81	0.19	2.8	6.8	5.7 - 7.9
COULTER AcT 8/10	24	20.79	0.59	2.8	20.8	17.6 - 24.0	24	7.25	0.19	2.7	7.3	6.1 - 8.4
COULTER AcT diff/diff 2	356	20.48	0.52	2.6	20.5	17.4 - 23.6	351	7.12	0.20	2.8	7.1	6.0 - 8.2

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–WHITE BLOOD CELL COUNT (x 10⁹/L) cont'd

Specimen HD-5						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	945	17.48	0.65	3.7	17.5	14.8 - 20.2
All Abbott Cell-Dyn Instruments	409	17.48	0.84	4.8	17.6	14.8 - 20.2
All ABX Instruments	109	17.33	0.46	2.7	17.4	14.7 - 20.0
All COULTER Instruments	384	17.53	0.43	2.5	17.5	14.9 - 20.2
Abbott Cell-Dyn 1700	108	17.95	0.56	3.1	18.0	15.2 - 20.7
Abbott Cell-Dyn 1800	232	17.62	0.64	3.6	17.7	14.9 - 20.3
Abbott Cell-Dyn Emerald	60	16.05	0.68	4.2	16.2	13.6 - 18.5
ABX Diagnostics Micros/45/60	109	17.33	0.46	2.7	17.4	14.7 - 20.0
Boule Medonic CA 620	15	17.90	0.49	2.7	18.0	15.2 - 20.6
Boule Medonic M series	21	16.13	0.66	4.1	16.1	13.7 - 18.6
COULTER AcT 8/10	23	17.69	0.51	2.9	17.6	15.0 - 20.4
COULTER AcT diff/diff 2	353	17.51	0.42	2.4	17.5	14.8 - 20.2

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–RED BLOOD CELL COUNT (x 10¹²/L)

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	953	3.166	0.130	4.1	3.15	2.97 - 3.36	954	4.565	0.145	3.2	4.56	4.29 - 4.84
All Abbott Cell-Dyn Instruments	405	3.281	0.088	2.7	3.28	3.08 - 3.48	405	4.665	0.112	2.4	4.66	4.38 - 4.95
All ABX Instruments	109	3.088	0.062	2.0	3.08	2.90 - 3.28	106	4.498	0.092	2.1	4.50	4.22 - 4.77
All COULTER Instruments	383	3.080	0.082	2.7	3.08	2.89 - 3.27	390	4.487	0.121	2.7	4.48	4.21 - 4.76
Abbott Cell-Dyn 1700	109	3.266	0.082	2.5	3.26	3.06 - 3.47	108	4.688	0.102	2.2	4.69	4.40 - 4.97
Abbott Cell-Dyn 1800	230	3.308	0.074	2.3	3.31	3.10 - 3.51	230	4.675	0.104	2.2	4.67	4.39 - 4.96
Abbott Cell-Dyn Emerald	58	3.196	0.092	2.9	3.19	3.00 - 3.39	59	4.587	0.128	2.8	4.57	4.31 - 4.87
ABX Diagnostics Micros/45/60	109	3.088	0.062	2.0	3.08	2.90 - 3.28	106	4.498	0.092	2.1	4.50	4.22 - 4.77
Boule Medonic CA 620	15	3.100	0.064	2.1	3.10	2.91 - 3.29	15	4.489	0.083	1.8	4.46	4.21 - 4.76
Boule Medonic M series	21	3.077	0.063	2.0	3.07	2.89 - 3.27	21	4.512	0.084	1.9	4.50	4.24 - 4.79
COULTER AcT 8/10	24	3.113	0.092	2.9	3.11	2.92 - 3.30	24	4.545	0.148	3.3	4.57	4.27 - 4.82
COULTER AcT diff/diff 2	353	3.077	0.082	2.7	3.07	2.89 - 3.27	359	4.482	0.119	2.7	4.48	4.21 - 4.76

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL-RED BLOOD CELL COUNT (x 10¹²/L) cont'd

Specimen HD-3							Specimen HD-4						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	956	4.252	0.135	3.2	4.25	3.99 - 4.51	950	5.300	0.149	2.8	5.30	4.98 - 5.62	
All Abbott Cell-Dyn Instruments	405	4.354	0.102	2.4	4.35	4.09 - 4.62	406	5.370	0.135	2.5	5.37	5.04 - 5.70	
All ABX Instruments	109	4.182	0.099	2.4	4.18	3.93 - 4.44	108	5.259	0.124	2.4	5.26	4.94 - 5.58	
All COULTER Instruments	388	4.177	0.101	2.4	4.18	3.92 - 4.43	387	5.242	0.142	2.7	5.25	4.92 - 5.56	
Abbott Cell-Dyn 1700	110	4.378	0.101	2.3	4.37	4.11 - 4.65	109	5.438	0.132	2.4	5.43	5.11 - 5.77	
Abbott Cell-Dyn 1800	229	4.364	0.092	2.1	4.36	4.10 - 4.63	231	5.351	0.126	2.4	5.35	5.02 - 5.68	
Abbott Cell-Dyn Emerald	58	4.271	0.103	2.4	4.28	4.01 - 4.53	57	5.326	0.125	2.3	5.32	5.00 - 5.65	
ABX Diagnostics Micros/45/60	109	4.182	0.099	2.4	4.18	3.93 - 4.44	108	5.259	0.124	2.4	5.26	4.94 - 5.58	
Boule Medonic CA 620	15	4.177	0.081	1.9	4.17	3.92 - 4.43	15	5.265	0.103	2.0	5.25	4.94 - 5.59	
Boule Medonic M series	21	4.205	0.073	1.7	4.19	3.95 - 4.46	21	5.303	0.084	1.6	5.29	4.98 - 5.63	
COULTER AcT 8/10	24	4.230	0.113	2.7	4.21	3.97 - 4.49	24	5.325	0.165	3.1	5.36	5.00 - 5.65	
COULTER AcT diff/diff 2	357	4.173	0.100	2.4	4.18	3.92 - 4.43	355	5.235	0.138	2.6	5.25	4.92 - 5.55	
Specimen HD-5													
All Method	962	2.647	0.113	4.3	2.63	2.48 - 2.81							
All Abbott Cell-Dyn Instruments	411	2.748	0.079	2.9	2.76	2.58 - 2.92							
All ABX Instruments	109	2.557	0.058	2.3	2.56	2.40 - 2.72							
All COULTER Instruments	388	2.579	0.064	2.5	2.58	2.42 - 2.74							
Abbott Cell-Dyn 1700	110	2.735	0.061	2.2	2.73	2.57 - 2.90							
Abbott Cell-Dyn 1800	234	2.781	0.061	2.2	2.78	2.61 - 2.95							
Abbott Cell-Dyn Emerald	58	2.636	0.076	2.9	2.65	2.47 - 2.80							
ABX Diagnostics Micros/45/60	109	2.557	0.058	2.3	2.56	2.40 - 2.72							
Boule Medonic CA 620	15	2.577	0.046	1.8	2.58	2.42 - 2.74							
Boule Medonic M series	21	2.541	0.045	1.8	2.54	2.38 - 2.70							
COULTER AcT 8/10	24	2.602	0.055	2.1	2.59	2.44 - 2.76							
COULTER AcT diff/diff 2	357	2.577	0.065	2.5	2.58	2.42 - 2.74							

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–HEMOGLOBIN (g/dL)

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	956	10.10	0.29	2.9	10.1	9.3 - 10.9	959	14.27	0.37	2.6	14.3	13.2 - 15.3
All Abbott Cell-Dyn Instruments	411	10.30	0.24	2.3	10.3	9.5 - 11.1	409	14.49	0.29	2.0	14.5	13.4 - 15.6
All ABX Instruments	108	9.88	0.19	2.0	9.9	9.1 - 10.6	107	13.97	0.26	1.9	14.0	12.9 - 15.0
All COULTER Instruments	380	9.95	0.21	2.1	10.0	9.2 - 10.7	387	14.15	0.32	2.3	14.1	13.1 - 15.2
Abbott Cell-Dyn 1700	110	10.19	0.18	1.8	10.2	9.4 - 11.0	109	14.32	0.21	1.5	14.3	13.3 - 15.4
Abbott Cell-Dyn 1800	233	10.39	0.22	2.2	10.4	9.6 - 11.2	233	14.59	0.29	2.0	14.6	13.5 - 15.7
Abbott Cell-Dyn Emerald	60	10.17	0.26	2.6	10.2	9.4 - 10.9	58	14.40	0.26	1.8	14.4	13.3 - 15.5
ABX Diagnostics Micros/45/60	108	9.88	0.19	2.0	9.9	9.1 - 10.6	107	13.97	0.26	1.9	14.0	12.9 - 15.0
Boule Medonic CA 620	15	10.00	0.21	2.1	10.0	9.3 - 10.7	15	13.97	0.25	1.8	14.0	12.9 - 15.0
Boule Medonic M series	21	10.09	0.25	2.4	10.1	9.3 - 10.8	21	14.05	0.29	2.1	14.0	13.0 - 15.1
COULTER AcT 8/10	24	10.05	0.24	2.4	10.0	9.3 - 10.8	24	14.21	0.36	2.5	14.2	13.2 - 15.3
COULTER AcT diff/diff 2	350	9.95	0.21	2.1	9.9	9.2 - 10.7	356	14.14	0.32	2.2	14.1	13.1 - 15.2

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	963	13.45	0.38	2.8	13.4	12.5 - 14.4	959	16.17	0.42	2.6	16.2	15.0 - 17.4
All Abbott Cell-Dyn Instruments	410	13.73	0.29	2.1	13.7	12.7 - 14.7	410	16.45	0.32	1.9	16.4	15.2 - 17.6
All ABX Instruments	108	13.10	0.25	1.9	13.1	12.1 - 14.1	108	15.76	0.31	1.9	15.8	14.6 - 16.9
All COULTER Instruments	385	13.27	0.27	2.0	13.3	12.3 - 14.3	384	16.04	0.35	2.2	16.0	14.9 - 17.2
Abbott Cell-Dyn 1700	110	13.61	0.21	1.6	13.6	12.6 - 14.6	111	16.29	0.26	1.6	16.3	15.1 - 17.5
Abbott Cell-Dyn 1800	232	13.84	0.27	2.0	13.9	12.8 - 14.9	232	16.56	0.31	1.9	16.6	15.3 - 17.8
Abbott Cell-Dyn Emerald	60	13.52	0.27	2.0	13.6	12.5 - 14.5	59	16.35	0.31	1.9	16.4	15.2 - 17.5
ABX Diagnostics Micros/45/60	108	13.10	0.25	1.9	13.1	12.1 - 14.1	108	15.76	0.31	1.9	15.8	14.6 - 16.9
Boule Medonic CA 620	15	13.08	0.32	2.4	13.1	12.1 - 14.0	15	15.77	0.29	1.9	15.7	14.6 - 16.9
Boule Medonic M series	21	13.48	0.28	2.1	13.5	12.5 - 14.5	21	16.04	0.36	2.2	15.9	14.9 - 17.2
COULTER AcT 8/10	24	13.38	0.32	2.4	13.3	12.4 - 14.4	24	16.08	0.31	1.9	16.1	14.9 - 17.3
COULTER AcT diff/diff 2	355	13.27	0.27	2.1	13.3	12.3 - 14.2	353	16.04	0.35	2.2	16.0	14.9 - 17.2

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–HEMOGLOBIN (g/dL) cont'd

Specimen HD-5

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	964	8.05	0.26	3.2	8.0	7.4 - 8.7
All Abbott Cell-Dyn Instruments	412	8.25	0.19	2.4	8.3	7.6 - 8.9
All ABX Instruments	108	7.84	0.16	2.0	7.8	7.2 - 8.4
All COULTER Instruments	389	7.92	0.18	2.2	7.9	7.3 - 8.5
Abbott Cell-Dyn 1700	111	8.17	0.13	1.6	8.2	7.6 - 8.8
Abbott Cell-Dyn 1800	234	8.35	0.16	1.9	8.4	7.7 - 9.0
Abbott Cell-Dyn Emerald	59	8.03	0.18	2.3	8.0	7.4 - 8.6
ABX Diagnostics Micros/45/60	108	7.84	0.16	2.0	7.8	7.2 - 8.4
Boule Medonic CA 620	15	7.84	0.19	2.4	7.8	7.2 - 8.4
Boule Medonic M series	21	7.93	0.22	2.8	8.0	7.3 - 8.5
COULTER AcT 8/10	24	8.00	0.15	1.9	8.0	7.4 - 8.6
COULTER AcT diff/diff 2	358	7.92	0.18	2.2	7.9	7.3 - 8.5

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–HEMATOCRIT (percent)

Specimen HD-1

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	956	30.35	1.61	5.3	30.2	28.5 - 32.2
All Abbott Cell-Dyn Instruments	406	31.75	1.02	3.2	31.8	29.8 - 33.7
All ABX Instruments	107	28.03	0.58	2.1	28.1	26.3 - 29.8
All COULTER Instruments	386	29.66	0.82	2.8	29.6	27.8 - 31.5
Abbott Cell-Dyn 1700	109	31.25	0.96	3.1	31.1	29.3 - 33.2
Abbott Cell-Dyn 1800	229	32.12	0.84	2.6	32.1	30.1 - 34.1
Abbott Cell-Dyn Emerald	60	31.48	1.24	3.9	31.4	29.5 - 33.4
ABX Diagnostics Micros/45/60	107	28.03	0.58	2.1	28.1	26.3 - 29.8
Boule Medonic CA 620	15	29.21	0.79	2.7	29.2	27.4 - 31.0
Boule Medonic M series	21	29.32	0.91	3.1	29.1	27.5 - 31.1
COULTER AcT 8/10	25	29.86	0.93	3.1	29.9	28.0 - 31.7
COULTER AcT diff/diff 2	354	29.64	0.81	2.7	29.6	27.8 - 31.5

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
957	43.55	1.88	4.3	43.5	40.9 - 46.2
407	45.06	1.26	2.8	45.0	42.3 - 47.8
108	41.00	0.94	2.3	41.1	38.5 - 43.5
389	42.79	1.22	2.8	42.8	40.2 - 45.4
108	44.84	1.18	2.6	44.8	42.1 - 47.6
232	45.28	1.23	2.7	45.3	42.5 - 48.0
58	44.80	1.29	2.9	44.8	42.1 - 47.5
108	41.00	0.94	2.3	41.1	38.5 - 43.5
15	42.09	0.85	2.0	42.0	39.5 - 44.7
21	42.97	1.19	2.8	42.7	40.3 - 45.6
25	43.42	1.31	3.0	43.3	40.8 - 46.1
357	42.74	1.21	2.8	42.7	40.1 - 45.4

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–HEMATOCRIT (percent) cont'd

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	955	40.09	1.65	4.1	40.1	37.6 - 42.5	955	48.88	1.80	3.7	48.9	45.9 - 51.9
All Abbott Cell-Dyn Instruments	406	41.41	1.16	2.8	41.4	38.9 - 43.9	406	50.10	1.37	2.7	50.2	47.0 - 53.2
All ABX Instruments	109	37.82	0.88	2.3	37.8	35.5 - 40.1	108	46.65	1.11	2.4	46.7	43.8 - 49.5
All COULTER Instruments	387	39.48	1.02	2.6	39.5	37.1 - 41.9	388	48.31	1.40	2.9	48.3	45.4 - 51.3
Abbott Cell-Dyn 1700	109	41.34	1.11	2.7	41.3	38.8 - 43.9	109	50.28	1.38	2.7	50.3	47.2 - 53.3
Abbott Cell-Dyn 1800	231	41.46	1.17	2.8	41.4	38.9 - 44.0	231	50.01	1.32	2.6	50.1	47.0 - 53.1
Abbott Cell-Dyn Emerald	57	41.36	1.08	2.6	41.4	38.8 - 43.9	60	50.19	1.71	3.4	50.4	47.1 - 53.2
ABX Diagnostics Micros/45/60	109	37.82	0.88	2.3	37.8	35.5 - 40.1	108	46.65	1.11	2.4	46.7	43.8 - 49.5
Boule Medonic CA 620	15	38.60	1.00	2.6	38.5	36.2 - 41.0	15	47.67	0.92	1.9	47.8	44.8 - 50.6
Boule Medonic M series	21	39.52	1.02	2.6	39.5	37.1 - 41.9	21	49.04	1.40	2.8	48.8	46.0 - 52.0
COULTER AcT 8/10	25	40.10	0.98	2.5	39.9	37.6 - 42.6	25	49.10	1.55	3.2	49.0	46.1 - 52.1
COULTER AcT diff/diff 2	355	39.44	1.01	2.6	39.4	37.0 - 41.9	356	48.25	1.39	2.9	48.3	45.3 - 51.2
Specimen HD-5												
All Method	964	23.85	1.24	5.2	23.8	22.4 - 25.3						
All Abbott Cell-Dyn Instruments	412	24.93	0.74	3.0	25.0	23.4 - 26.5						
All ABX Instruments	108	21.95	0.47	2.1	22.0	20.6 - 23.3						
All COULTER Instruments	388	23.37	0.61	2.6	23.4	21.9 - 24.8						
Abbott Cell-Dyn 1700	111	24.60	0.71	2.9	24.6	23.1 - 26.1						
Abbott Cell-Dyn 1800	233	25.19	0.63	2.5	25.2	23.6 - 26.7						
Abbott Cell-Dyn Emerald	57	24.67	0.65	2.6	24.7	23.1 - 26.2						
ABX Diagnostics Micros/45/60	108	21.95	0.47	2.1	22.0	20.6 - 23.3						
Boule Medonic CA 620	15	22.51	0.48	2.1	22.4	21.1 - 23.9						
Boule Medonic M series	21	22.54	0.64	2.8	22.5	21.1 - 23.9						
COULTER AcT 8/10	25	23.63	0.55	2.3	23.7	22.2 - 25.1						
COULTER AcT diff/diff 2	356	23.35	0.61	2.6	23.4	21.9 - 24.8						

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–PLATELET COUNT (x 10⁹/L)

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	956	223.2	27.0	12.1	221	167 - 280	961	117.9	12.4	10.5	118	88 - 148
All Abbott Cell-Dyn Instruments	406	213.0	17.3	8.1	212	159 - 267	408	123.3	9.7	7.9	123	92 - 155
All ABX Instruments	108	233.6	20.1	8.6	231	175 - 292	108	122.4	9.2	7.5	121	91 - 153
All COULTER Instruments	390	230.2	33.3	14.5	238	172 - 288	388	111.2	11.4	10.3	110	83 - 139
Abbott Cell-Dyn 1700	108	211.7	18.1	8.5	210	158 - 265	109	120.3	11.5	9.6	120	90 - 151
Abbott Cell-Dyn 1800	234	212.0	16.2	7.6	211	159 - 266	234	123.9	8.5	6.9	123	92 - 155
Abbott Cell-Dyn Emerald	58	220.4	22.0	10.0	221	165 - 276	60	125.8	12.1	9.6	125	94 - 158
ABX Diagnostics Micros/45/60	108	233.6	20.1	8.6	231	175 - 292	108	122.4	9.2	7.5	121	91 - 153
Boule Medonic CA 620	14	223.2	9.0	4.0	228	167 - 280	15	111.7	12.7	11.4	108	83 - 140
Boule Medonic M series	21	234.4	21.6	9.2	236	175 - 294	21	111.4	10.4	9.3	112	83 - 140
COULTER AcT 8/10	24	192.5	10.6	5.5	191	144 - 241	24	103.0	8.6	8.3	104	77 - 129
COULTER AcT diff/diff 2	359	233.1	32.8	14.1	240	174 - 292	357	111.7	11.4	10.2	111	83 - 140

Specimen HD-3							Specimen HD-4					
All Method	963	538.1	45.6	8.5	545	403 - 673	963	291.7	46.1	15.8	305	218 - 365
All Abbott Cell-Dyn Instruments	411	569.5	28.8	5.1	571	427 - 712	412	331.7	18.5	5.6	331	248 - 415
All ABX Instruments	107	567.4	21.6	3.8	570	425 - 710	108	316.2	15.0	4.8	317	237 - 396
All COULTER Instruments	390	497.7	29.6	6.0	493	373 - 623	388	241.1	17.5	7.3	240	180 - 302
Abbott Cell-Dyn 1700	111	565.0	34.8	6.2	561	423 - 707	111	337.6	18.0	5.3	337	253 - 423
Abbott Cell-Dyn 1800	233	573.9	25.1	4.4	574	430 - 718	234	332.2	17.3	5.2	331	249 - 416
Abbott Cell-Dyn Emerald	60	561.6	31.5	5.6	561	421 - 703	60	317.2	18.9	5.9	316	237 - 397
ABX Diagnostics Micros/45/60	107	567.4	21.6	3.8	570	425 - 710	108	316.2	15.0	4.8	317	237 - 396
Boule Medonic CA 620	15	507.5	23.0	4.5	507	380 - 635	15	296.0	10.4	3.5	298	222 - 370
Boule Medonic M series	20	529.8	24.6	4.6	529	397 - 663	21	299.7	16.6	5.5	300	224 - 375
COULTER AcT 8/10	24	479.3	32.9	6.9	484	359 - 600	24	236.2	21.2	9.0	241	177 - 296
COULTER AcT diff/diff 2	359	498.2	28.8	5.8	493	373 - 623	358	240.9	16.8	7.0	239	180 - 302

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–PLATELET COUNT (x 10⁹/L) cont'd

Specimen HD-5

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	956	117.5	11.7	10.0	117	88 - 147
All Abbott Cell-Dyn Instruments	407	118.1	9.2	7.8	117	88 - 148
All ABX Instruments	107	128.2	9.6	7.5	128	96 - 161
All COULTER Instruments	391	113.6	12.6	11.1	114	85 - 143
Abbott Cell-Dyn 1700	108	114.7	9.1	7.9	114	86 - 144
Abbott Cell-Dyn 1800	235	117.5	7.2	6.1	117	88 - 147
Abbott Cell-Dyn Emerald	60	129.6	13.9	10.7	128	97 - 162
ABX Diagnostics Micros/45/60	107	128.2	9.6	7.5	128	96 - 161
Boule Medonic CA 620	15	113.2	9.8	8.7	111	84 - 142
Boule Medonic M series	21	120.3	9.5	7.9	121	90 - 151
COULTER AcT 8/10	24	100.2	8.1	8.1	102	75 - 126
COULTER AcT diff/diff 2	360	114.6	12.3	10.7	115	85 - 144

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–LYMPHOCYTES (percent)

Specimen HD-1

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	868	25.41	1.89	7.4	25.0	19.7 - 31.1
All Abbott Cell-Dyn Instruments	378	25.43	2.64	10.4	24.5	17.5 - 33.4
All ABX Instruments	106	27.99	2.70	9.6	27.4	19.9 - 36.1
All COULTER Instruments	357	25.30	0.74	2.9	25.2	23.0 - 27.6
Abbott Cell-Dyn 1700	97	25.12	1.06	4.2	25.0	21.9 - 28.4
Abbott Cell-Dyn 1800	216	24.11	0.77	3.2	24.1	21.8 - 26.5
Abbott Cell-Dyn Emerald	57	31.60	2.47	7.8	31.8	24.1 - 39.1
ABX Diagnostics Micros/45/60	106	27.99	2.70	9.6	27.4	19.9 - 36.1
Boule Medonic CA 620	15	24.49	0.99	4.1	24.3	21.5 - 27.5
Boule Medonic M series	21	22.59	1.30	5.7	22.5	18.6 - 26.5
COULTER AcT 8/10	18	24.27	0.57	2.3	24.3	22.5 - 26.0
COULTER AcT diff/diff 2	335	25.33	0.70	2.7	25.3	23.2 - 27.5

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
888	26.99	1.09	4.0	27.0	23.7 - 30.3
380	26.75	1.26	4.7	26.7	22.9 - 30.6
105	27.33	0.95	3.5	27.3	24.4 - 30.2
356	27.15	0.81	3.0	27.2	24.7 - 29.6
101	27.01	1.21	4.5	26.9	23.3 - 30.7
219	26.31	1.03	3.9	26.3	23.2 - 29.4
56	28.27	1.48	5.2	28.1	23.8 - 32.8
105	27.33	0.95	3.5	27.3	24.4 - 30.2
15	27.09	1.52	5.6	27.5	22.5 - 31.7
21	26.34	1.00	3.8	26.3	23.3 - 29.4
18	26.09	0.65	2.5	26.0	24.1 - 28.1
334	27.21	0.76	2.8	27.2	24.9 - 29.6

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–LYMPHOCYTES (percent) cont'd

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	894	45.04	1.35	3.0	45.1	40.9 - 49.1	890	24.18	1.43	5.9	24.2	19.8 - 28.5
All Abbott Cell-Dyn Instruments	384	44.06	0.91	2.1	44.1	41.3 - 46.8	380	23.48	1.51	6.4	23.1	18.9 - 28.1
All ABX Instruments	106	45.04	0.61	1.3	45.0	43.2 - 46.9	106	25.60	1.28	5.0	25.6	21.7 - 29.5
All COULTER Instruments	342	46.20	0.62	1.3	46.2	44.3 - 48.1	356	24.56	0.76	3.1	24.6	22.2 - 26.9
Abbott Cell-Dyn 1700	99	44.62	0.67	1.5	44.6	42.6 - 46.7	99	23.21	0.83	3.6	23.2	20.7 - 25.7
Abbott Cell-Dyn 1800	221	43.59	0.76	1.7	43.6	41.2 - 45.9	219	22.86	0.83	3.6	22.8	20.3 - 25.4
Abbott Cell-Dyn Emerald	56	44.67	0.55	1.2	44.7	43.0 - 46.4	55	26.67	1.44	5.4	26.4	22.3 - 31.1
ABX Diagnostics Micros/45/60	106	45.04	0.61	1.3	45.0	43.2 - 46.9	106	25.60	1.28	5.0	25.6	21.7 - 29.5
Boule Medonic CA 620	15	46.46	1.26	2.7	46.8	42.6 - 50.3	14	24.46	1.44	5.9	24.4	20.1 - 28.8
Boule Medonic M series	21	45.06	1.19	2.6	44.8	41.4 - 48.7	21	22.55	1.24	5.5	22.4	18.8 - 26.3
COULTER AcT 8/10	17	40.90	0.47	1.1	40.9	39.5 - 42.3	18	23.58	0.37	1.6	23.6	22.4 - 24.8
COULTER AcT diff/diff 2	337	46.21	0.54	1.2	46.2	44.5 - 47.9	334	24.61	0.75	3.0	24.6	22.3 - 26.9
Specimen HD-5												
All Method	898	46.06	1.37	3.0	46.1	41.9 - 50.2						
All Abbott Cell-Dyn Instruments	383	45.09	0.77	1.7	45.2	42.7 - 47.4						
All ABX Instruments	104	46.15	0.50	1.1	46.1	44.6 - 47.7						
All COULTER Instruments	342	47.30	0.65	1.4	47.3	45.3 - 49.3						
Abbott Cell-Dyn 1700	99	45.34	0.63	1.4	45.3	43.4 - 47.3						
Abbott Cell-Dyn 1800	220	44.78	0.74	1.7	44.8	42.5 - 47.1						
Abbott Cell-Dyn Emerald	57	45.64	0.48	1.0	45.6	44.2 - 47.1						
ABX Diagnostics Micros/45/60	104	46.15	0.50	1.1	46.1	44.6 - 47.7						
Boule Medonic CA 620	14	47.31	0.59	1.2	47.6	45.5 - 49.1						
Boule Medonic M series	21	44.17	1.85	4.2	44.1	38.6 - 49.8						
COULTER AcT 8/10	18	42.77	0.38	0.9	42.8	41.6 - 44.0						
COULTER AcT diff/diff 2	336	47.31	0.57	1.2	47.3	45.5 - 49.1						

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–MONO/MID/MIXED/MCR (percent)

<u><i>Instrument</i></u>	Specimen HD-1						Specimen HD-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	882	3.19	1.15	36.0	3.3	0.0 - 6.7	875	4.87	1.37	28.2	5.2	0.7 - 9.0
All Abbott Cell-Dyn Instruments	381	3.78	0.97	25.6	4.0	0.8 - 6.7	382	5.19	1.14	21.9	5.4	1.7 - 8.6
All ABX Instruments	104	1.42	0.38	26.5	1.4	0.2 - 2.6	104	2.15	0.46	21.5	2.1	0.7 - 3.6
All COULTER Instruments	339	2.95	0.60	20.2	3.0	1.1 - 4.8	337	5.27	0.64	12.1	5.3	3.3 - 7.2
Abbott Cell-Dyn 1700	99	3.69	0.48	13.1	3.6	2.2 - 5.2	99	4.91	0.46	9.3	4.9	3.5 - 6.3
Abbott Cell-Dyn 1800	215	4.31	0.48	11.1	4.3	2.8 - 5.8	216	5.88	0.63	10.7	5.9	4.0 - 7.8
Abbott Cell-Dyn Emerald	56	2.01	0.26	13.1	2.0	1.2 - 2.9	56	3.28	0.33	10.0	3.2	2.2 - 4.3
ABX Diagnostics Micros/45/60	104	1.42	0.38	26.5	1.4	0.2 - 2.6	104	2.15	0.46	21.5	2.1	0.7 - 3.6
Boule Medonic CA 620	15	4.87	0.44	9.1	4.9	3.5 - 6.2	15	6.16	1.15	18.7	6.4	2.7 - 9.7
Boule Medonic M series	20	4.77	0.34	7.1	4.8	3.7 - 5.8	20	6.02	0.73	12.1	6.0	3.8 - 8.3
COULTER AcT diff/diff 2	336	2.95	0.59	20.1	3.0	1.1 - 4.8	334	5.26	0.63	12.0	5.3	3.3 - 7.2
<u><i>Instrument</i></u>	Specimen HD-3						Specimen HD-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	882	4.29	1.15	26.7	4.5	0.8 - 7.8	876	2.90	1.07	36.9	2.8	0.0 - 6.2
All Abbott Cell-Dyn Instruments	381	4.64	1.06	22.9	4.8	1.4 - 7.9	381	3.57	0.95	26.5	3.7	0.7 - 6.5
All ABX Instruments	105	2.24	0.51	22.9	2.2	0.6 - 3.8	105	1.48	0.33	22.0	1.5	0.5 - 2.5
All COULTER Instruments	338	4.55	0.39	8.5	4.6	3.3 - 5.8	339	2.51	0.51	20.5	2.5	0.9 - 4.1
Abbott Cell-Dyn 1700	98	4.34	0.34	7.9	4.3	3.3 - 5.4	99	3.31	0.42	12.8	3.3	2.0 - 4.6
Abbott Cell-Dyn 1800	216	5.31	0.56	10.5	5.3	3.6 - 7.0	215	4.12	0.51	12.3	4.1	2.6 - 5.7
Abbott Cell-Dyn Emerald	56	2.81	0.23	8.2	2.8	2.1 - 3.5	56	1.97	0.23	11.6	2.0	1.2 - 2.7
ABX Diagnostics Micros/45/60	105	2.24	0.51	22.9	2.2	0.6 - 3.8	105	1.48	0.33	22.0	1.5	0.5 - 2.5
Boule Medonic CA 620	15	5.47	0.32	5.9	5.5	4.5 - 6.5	14	4.71	0.44	9.3	4.7	3.3 - 6.1
Boule Medonic M series	20	5.05	0.34	6.7	5.1	4.0 - 6.1	20	4.26	0.51	11.9	4.3	2.7 - 5.8
COULTER AcT diff/diff 2	335	4.55	0.38	8.4	4.6	3.4 - 5.7	336	2.50	0.51	20.5	2.5	0.9 - 4.1

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–MONO/MID/MIXED/MCR (percent) cont'd

Specimen HD-5

<u><i>Instrument</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	879	3.55	1.01	28.3	3.7	0.5 - 6.6
All Abbott Cell-Dyn Instruments	382	3.92	0.92	23.6	4.1	1.1 - 6.7
All ABX Instruments	105	1.77	0.43	24.5	1.7	0.4 - 3.1
All COULTER Instruments	337	3.66	0.41	11.1	3.7	2.4 - 4.9
Abbott Cell-Dyn 1700	99	3.65	0.32	8.7	3.6	2.6 - 4.7
Abbott Cell-Dyn 1800	215	4.49	0.49	10.9	4.4	3.0 - 6.0
Abbott Cell-Dyn Emerald	55	2.34	0.19	8.0	2.3	1.7 - 3.0
ABX Diagnostics Micros/45/60	105	1.77	0.43	24.5	1.7	0.4 - 3.1
Boule Medonic CA 620	14	4.71	0.43	9.1	4.7	3.4 - 6.1
Boule Medonic M series	20	4.49	0.34	7.6	4.4	3.4 - 5.6
COULTER AcT diff/diff 2	335	3.66	0.40	11.1	3.7	2.4 - 4.9

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–GRANULOCYTES/NEUT (percent)

Specimen HD-1

<u><i>Instrument</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	858	71.24	1.68	2.4	71.6	66.1 - 76.3
All Abbott Cell-Dyn Instruments	375	70.81	1.98	2.8	71.4	64.8 - 76.8
All ABX Instruments	107	70.51	2.80	4.0	71.0	62.1 - 78.9
All COULTER Instruments	339	71.69	0.98	1.4	71.7	68.7 - 74.7
Abbott Cell-Dyn 1700	99	71.06	1.38	1.9	71.4	66.9 - 75.3
Abbott Cell-Dyn 1800	219	71.51	0.90	1.3	71.6	68.8 - 74.3
Abbott Cell-Dyn Emerald	57	66.42	2.49	3.8	66.2	58.9 - 74.0
ABX Diagnostics Micros/45/60	107	70.51	2.80	4.0	71.0	62.1 - 78.9
Boule Medonic CA 620	15	70.69	0.85	1.2	70.8	68.1 - 73.3
Boule Medonic M series	21	72.61	1.45	2.0	72.8	68.2 - 77.0
COULTER AcT diff/diff 2	336	71.70	0.97	1.4	71.7	68.7 - 74.7

Specimen HD-2

<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
875	68.07	1.56	2.3	67.9	63.3 - 72.8
383	68.00	1.37	2.0	68.0	63.8 - 72.2
104	70.49	1.15	1.6	70.5	67.0 - 74.0
338	67.51	1.03	1.5	67.5	64.4 - 70.7
100	68.14	1.32	1.9	68.3	64.1 - 72.1
219	67.79	1.18	1.7	67.7	64.2 - 71.4
56	68.46	1.58	2.3	68.8	63.7 - 73.3
104	70.49	1.15	1.6	70.5	67.0 - 74.0
15	66.75	2.20	3.3	66.2	60.1 - 73.4
21	67.60	1.41	2.1	67.8	63.3 - 71.9
335	67.51	1.03	1.5	67.5	64.4 - 70.6

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–GRANULOCYTES/NEUT (percent) cont'd

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	877	50.58	1.53	3.0	50.6	45.9 - 55.2	866	72.88	1.15	1.6	72.9	69.4 - 76.4
All Abbott Cell-Dyn Instruments	383	51.33	0.83	1.6	51.3	48.8 - 53.9	381	72.90	1.25	1.7	73.0	69.1 - 76.7
All ABX Instruments	104	52.74	0.90	1.7	52.8	50.0 - 55.5	106	72.88	1.42	2.0	72.9	68.6 - 77.2
All COULTER Instruments	336	49.25	0.66	1.3	49.3	47.2 - 51.3	339	72.86	0.96	1.3	72.9	69.9 - 75.8
Abbott Cell-Dyn 1700	99	51.01	0.85	1.7	51.0	48.4 - 53.6	99	73.41	1.04	1.4	73.4	70.3 - 76.6
Abbott Cell-Dyn 1800	221	51.13	0.56	1.1	51.1	49.4 - 52.9	219	72.97	0.94	1.3	73.0	70.1 - 75.8
Abbott Cell-Dyn Emerald	55	52.56	0.56	1.1	52.6	50.8 - 54.3	56	71.37	1.47	2.1	71.6	66.9 - 75.8
ABX Diagnostics Micros/45/60	104	52.74	0.90	1.7	52.8	50.0 - 55.5	106	72.88	1.42	2.0	72.9	68.6 - 77.2
Boule Medonic CA 620	14	47.85	0.71	1.5	47.8	45.7 - 50.0	14	70.83	1.51	2.1	70.8	66.3 - 75.4
Boule Medonic M series	21	49.87	1.22	2.4	50.1	46.2 - 53.6	21	73.14	1.35	1.8	73.0	69.0 - 77.2
COULTER AcT diff/diff 2	334	49.26	0.66	1.3	49.3	47.2 - 51.3	336	72.86	0.96	1.3	72.9	69.9 - 75.8
Specimen HD-5												
All Method	876	50.30	1.44	2.9	50.4	45.9 - 54.7						
All Abbott Cell-Dyn Instruments	382	51.04	0.76	1.5	51.0	48.7 - 53.4						
All ABX Instruments	102	52.10	0.69	1.3	52.2	50.0 - 54.2						
All COULTER Instruments	337	49.02	0.73	1.5	49.0	46.8 - 51.3						
Abbott Cell-Dyn 1700	99	51.01	0.72	1.4	51.1	48.8 - 53.2						
Abbott Cell-Dyn 1800	218	50.74	0.53	1.0	50.7	49.1 - 52.4						
Abbott Cell-Dyn Emerald	57	52.03	0.59	1.1	52.0	50.2 - 53.8						
ABX Diagnostics Micros/45/60	102	52.10	0.69	1.3	52.2	50.0 - 54.2						
Boule Medonic CA 620	14	47.99	0.65	1.4	48.0	46.0 - 50.0						
Boule Medonic M series	21	51.33	1.87	3.6	51.4	45.7 - 57.0						
COULTER AcT diff/diff 2	335	49.02	0.73	1.5	49.0	46.8 - 51.3						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–WHITE BLOOD CELL COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	22.33	0.46	2.1	22.1	18.9 - 25.7	23	9.90	0.25	2.5	9.9	8.4 - 11.4
All COULTER Instruments	23	22.33	0.46	2.1	22.1	18.9 - 25.7	23	9.90	0.25	2.5	9.9	8.4 - 11.4
COULTER HmX	11	22.34	0.39	1.7	22.1	18.9 - 25.7	11	9.92	0.33	3.3	10.0	8.4 - 11.5
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	4.07	0.17	4.1	4.1	3.4 - 4.7	23	22.17	0.43	1.9	22.1	18.8 - 25.5
All COULTER Instruments	23	4.07	0.17	4.1	4.1	3.4 - 4.7	23	22.17	0.43	1.9	22.1	18.8 - 25.5
COULTER HmX	11	4.15	0.19	4.5	4.2	3.5 - 4.8	11	22.15	0.33	1.5	22.1	18.8 - 25.5
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	9.82	0.23	2.3	9.9	8.3 - 11.3						
All COULTER Instruments	23	9.82	0.23	2.3	9.9	8.3 - 11.3						
COULTER HmX	11	9.83	0.25	2.5	9.9	8.3 - 11.4						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–RED BLOOD CELL COUNT (x 10¹²/L)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	5.390	0.095	1.8	5.40	5.06 - 5.72	23	4.082	0.080	2.0	4.09	3.83 - 4.33
All COULTER Instruments	23	5.390	0.095	1.8	5.40	5.06 - 5.72	23	4.082	0.080	2.0	4.09	3.83 - 4.33
COULTER HmX	11	5.385	0.090	1.7	5.40	5.06 - 5.71	11	4.057	0.092	2.3	4.05	3.81 - 4.31
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	2.495	0.058	2.3	2.47	2.34 - 2.65	23	5.355	0.093	1.7	5.35	5.03 - 5.68
All COULTER Instruments	23	2.495	0.058	2.3	2.47	2.34 - 2.65	23	5.355	0.093	1.7	5.35	5.03 - 5.68
COULTER HmX	11	2.514	0.065	2.6	2.54	2.36 - 2.67	11	5.348	0.090	1.7	5.35	5.02 - 5.67
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	4.074	0.067	1.6	4.09	3.82 - 4.32						
All COULTER Instruments	23	4.074	0.067	1.6	4.09	3.82 - 4.32						
COULTER HmX	11	4.051	0.065	1.6	4.05	3.80 - 4.30						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–HEMOGLOBIN (g/dL)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	17.23	0.22	1.3	17.3	16.0 - 18.5	23	11.99	0.15	1.3	12.0	11.1 - 12.9
All COULTER Instruments	23	17.23	0.22	1.3	17.3	16.0 - 18.5	23	11.99	0.15	1.3	12.0	11.1 - 12.9
COULTER HmX	11	17.25	0.24	1.4	17.3	16.0 - 18.5	11	11.97	0.17	1.5	12.0	11.1 - 12.9
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	6.53	0.07	1.1	6.5	6.0 - 7.0	23	17.17	0.18	1.1	17.2	15.9 - 18.4
All COULTER Instruments	23	6.53	0.07	1.1	6.5	6.0 - 7.0	23	17.17	0.18	1.1	17.2	15.9 - 18.4
COULTER HmX	11	6.53	0.06	1.0	6.5	6.0 - 7.0	11	17.20	0.16	0.9	17.2	15.9 - 18.5
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	11.96	0.13	1.1	12.0	11.1 - 12.8						
All COULTER Instruments	23	11.96	0.13	1.1	12.0	11.1 - 12.8						
COULTER HmX	11	11.95	0.13	1.1	11.9	11.1 - 12.8						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–HEMATOCRIT (percent)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	54.10	1.08	2.0	54.2	50.8 - 57.4	23	36.99	0.86	2.3	36.9	34.7 - 39.3
All COULTER Instruments	23	54.10	1.08	2.0	54.2	50.8 - 57.4	23	36.99	0.86	2.3	36.9	34.7 - 39.3
COULTER HmX	11	54.04	1.11	2.1	54.1	50.7 - 57.3	11	36.73	1.00	2.7	36.8	34.5 - 39.0
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	20.35	0.51	2.5	20.3	19.1 - 21.6	23	53.83	1.05	2.0	53.9	50.6 - 57.1
All COULTER Instruments	23	20.35	0.51	2.5	20.3	19.1 - 21.6	23	53.83	1.05	2.0	53.9	50.6 - 57.1
COULTER HmX	11	20.52	0.60	2.9	20.6	19.2 - 21.8	11	53.61	1.08	2.0	53.4	50.3 - 56.9
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	36.90	0.73	2.0	36.9	34.6 - 39.2						
All COULTER Instruments	23	36.90	0.73	2.0	36.9	34.6 - 39.2						
COULTER HmX	11	36.65	0.68	1.8	36.8	34.4 - 38.9						

HEMATOLOGY W/ 5-PART DIFFERENTIAL-PLATELET COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	427.7	9.7	2.3	427	320 - 535	23	224.8	8.9	4.0	224	168 - 282
All COULTER Instruments	23	427.7	9.7	2.3	427	320 - 535	23	224.8	8.9	4.0	224	168 - 282
COULTER HmX	11	428.5	12.1	2.8	430	321 - 536	11	222.3	10.7	4.8	223	166 - 278
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	72.9	2.6	3.6	72	54 - 92	23	419.7	13.3	3.2	416	314 - 525
All COULTER Instruments	23	72.9	2.6	3.6	72	54 - 92	23	419.7	13.3	3.2	416	314 - 525
COULTER HmX	11	73.1	3.2	4.4	72	54 - 92	11	417.5	12.1	2.9	416	313 - 522
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	222.9	7.2	3.2	223	167 - 279						
All COULTER Instruments	23	222.9	7.2	3.2	223	167 - 279						
COULTER HmX	11	221.0	7.4	3.4	219	165 - 277						

HEMATOLOGY W/ 5-PART DIFFERENTIAL-NEUTROPHILS (percent)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	68.77	1.32	1.9	68.8	64.8 - 72.8	23	60.07	1.11	1.9	60.0	56.7 - 63.5
All COULTER Instruments	23	68.77	1.32	1.9	68.8	64.8 - 72.8	23	60.07	1.11	1.9	60.0	56.7 - 63.5
COULTER HmX	11	68.30	0.86	1.3	68.4	65.7 - 70.9	11	59.92	1.24	2.1	59.4	56.1 - 63.7
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	51.20	1.18	2.3	51.2	47.6 - 54.8	23	68.44	1.37	2.0	68.3	64.3 - 72.6
All COULTER Instruments	22	51.20	1.18	2.3	51.2	47.6 - 54.8	23	68.44	1.37	2.0	68.3	64.3 - 72.6
COULTER HmX	11	50.73	1.02	2.0	50.4	47.6 - 53.9	11	68.06	0.92	1.4	68.2	65.3 - 70.9
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	60.03	1.27	2.1	59.7	56.2 - 63.9						
All COULTER Instruments	23	60.03	1.27	2.1	59.7	56.2 - 63.9						
COULTER HmX	11	59.63	1.05	1.8	59.6	56.4 - 62.8						

HEMATOLOGY W/ 5-PART DIFFERENTIAL– LYMPHOCYTES (percent)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	20.37	1.04	5.1	20.5	17.2 - 23.5	21	30.01	1.16	3.9	30.4	26.5 - 33.5
All COULTER Instruments	22	20.37	1.04	5.1	20.5	17.2 - 23.5	21	30.01	1.16	3.9	30.4	26.5 - 33.5
COULTER HmX	11	20.55	0.58	2.8	20.5	18.8 - 22.3	11	30.15	1.18	3.9	30.4	26.6 - 33.8
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	39.13	1.92	4.9	39.3	33.3 - 44.9	22	20.80	0.83	4.0	20.8	18.3 - 23.3
All COULTER Instruments	22	39.13	1.92	4.9	39.3	33.3 - 44.9	22	20.80	0.83	4.0	20.8	18.3 - 23.3
COULTER HmX	11	39.95	1.25	3.1	40.4	36.1 - 43.8	11	21.02	0.92	4.4	21.0	18.2 - 23.8
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	28.59	3.53	12.4	30.0	17.9 - 39.2						
All COULTER Instruments	23	28.59	3.53	12.4	30.0	17.9 - 39.2						
COULTER HmX	11	29.97	1.31	4.4	30.1	26.0 - 33.9						

HEMATOLOGY W/ 5-PART DIFFERENTIAL– MONOCYTES (percent)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	5.82	1.01	17.4	5.8	2.7 - 8.9	23	3.60	0.74	20.5	3.6	1.3 - 5.9
All COULTER Instruments	23	5.82	1.01	17.4	5.8	2.7 - 8.9	23	3.60	0.74	20.5	3.6	1.3 - 5.9
COULTER HmX	11	6.13	0.61	10.0	5.9	4.2 - 8.0	11	3.62	0.50	13.8	3.6	2.1 - 5.2
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	0.47	0.20	41.3	0.5	0.0 - 1.1	23	6.12	0.99	16.2	6.3	3.1 - 9.1
All COULTER Instruments	23	0.47	0.20	41.3	0.5	0.0 - 1.1	23	6.12	0.99	16.2	6.3	3.1 - 9.1
COULTER HmX	11	0.60	0.14	23.6	0.6	0.1 - 1.1	11	6.18	0.51	8.2	6.3	4.6 - 7.8
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	3.71	0.58	15.5	3.6	1.9 - 5.5						
All COULTER Instruments	23	3.71	0.58	15.5	3.6	1.9 - 5.5						
COULTER HmX	11	3.75	0.36	9.6	3.9	2.6 - 4.9						

HEMATOLOGY W/ 5-PART DIFFERENTIAL– EOSINOPHILS (percent)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	4.27	0.35	8.1	4.2	3.2 - 5.4	23	6.03	0.50	8.2	6.1	4.5 - 7.6
All COULTER Instruments	23	4.27	0.35	8.1	4.2	3.2 - 5.4	23	6.03	0.50	8.2	6.1	4.5 - 7.6
COULTER HmX	11	4.35	0.35	8.1	4.4	3.2 - 5.5	11	6.08	0.57	9.4	6.1	4.3 - 7.8
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	8.30	0.35	4.2	8.4	7.2 - 9.4	23	4.26	0.34	7.9	4.2	3.2 - 5.3
All COULTER Instruments	23	8.30	0.35	4.2	8.4	7.2 - 9.4	23	4.26	0.34	7.9	4.2	3.2 - 5.3
COULTER HmX	11	8.51	0.25	2.9	8.6	7.7 - 9.3	11	4.23	0.30	7.2	4.2	3.3 - 5.2
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	6.19	0.53	8.5	6.3	4.6 - 7.8						
All COULTER Instruments	23	6.19	0.53	8.5	6.3	4.6 - 7.8						
COULTER HmX	11	6.42	0.48	7.4	6.4	4.9 - 7.9						

HEMATOLOGY W/ 5-PART DIFFERENTIAL– BASOPHILS (percent)

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	0.80	0.87	109.8	0.7	0.0 - 3.5	19	0.16	0.12	74.1	0.2	0.0 - 0.6
All COULTER Instruments	22	0.80	0.87	109.8	0.7	0.0 - 3.5	19	0.16	0.12	74.1	0.2	0.0 - 0.6
COULTER HmX	11	0.68	0.40	58.2	0.8	0.0 - 1.9	11	0.23	0.31	135.0	0.1	0.0 - 1.2
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	0.83	1.58	189.5	0.1	0.0 - 5.6	22	0.41	0.33	80.5	0.4	0.0 - 1.5
All COULTER Instruments	23	0.83	1.58	189.5	0.1	0.0 - 5.6	22	0.41	0.33	80.5	0.4	0.0 - 1.5
COULTER HmX	11	0.22	0.29	132.5	0.1	0.0 - 1.1	11	0.51	0.34	67.7	0.5	0.0 - 1.6
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	23	1.49	3.43	230.1	0.2	0.0 - 11.8						
All COULTER Instruments	23	1.49	3.43	230.1	0.2	0.0 - 11.8						
COULTER HmX	11	0.23	0.32	142.0	0.1	0.0 - 1.2						

QBC HEMATOLOGY–HEMATOCRIT (percent)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-1				<u>Labs</u>	<u>Mean</u>	Specimen QBC-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	31.19	1.09	3.5	31.4	29.3 - 33.1	17	31.35	1.18	3.8	31.5	29.4 - 33.3
QBC Autoread-Cap. Std. Tube	6	31.85	0.76	2.4	32.0	29.9 - 33.8	6	32.13	0.73	2.3	32.0	30.2 - 34.1
QBC STAR - QBC STAR Tubes	5	31.56	0.55	1.7	31.7	29.6 - 33.5	5	31.66	0.65	2.1	31.5	29.7 - 33.6
			Specimen QBC-3						Specimen QBC-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	29.68	1.07	3.6	29.9	27.8 - 31.5	18	29.54	1.52	5.1	29.7	27.7 - 31.4
QBC Autoread-Cap. Std. Tube	7	29.89	0.70	2.4	29.9	28.0 - 31.7	7	29.91	1.97	6.6	30.3	28.1 - 31.8
QBC STAR - QBC STAR Tubes	5	30.42	0.61	2.0	30.4	28.5 - 32.3	5	30.12	1.03	3.4	30.4	28.3 - 32.0
			Specimen QBC-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	34.09	1.61	4.7	34.3	32.0 - 36.2						
QBC Autoread-Cap. Std. Tube	7	34.14	2.17	6.4	34.9	32.0 - 36.2						
QBC STAR - QBC STAR Tubes	5	35.00	1.09	3.1	35.2	32.9 - 37.1						

QBC HEMATOLOGY–HEMOGLOBIN (g/dL)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-1				<u>Labs</u>	<u>Mean</u>	Specimen QBC-2			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	10.68	0.37	3.5	10.7	9.9 - 11.5	17	10.70	0.42	3.9	10.8	9.9 - 11.5
QBC Autoread-Cap. Std. Tube	7	10.56	1.31	12.4	11.0	9.8 - 11.3	7	10.76	1.00	9.3	11.1	10.0 - 11.6
QBC STAR - QBC STAR Tubes	5	10.52	0.19	1.8	10.6	9.7 - 11.3	5	10.54	0.15	1.4	10.5	9.8 - 11.3
			Specimen QBC-3						Specimen QBC-4			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	10.26	0.42	4.1	10.4	9.5 - 11.0	18	10.26	0.57	5.6	10.4	9.5 - 11.0
QBC Autoread-Cap. Std. Tube	7	10.61	0.16	1.5	10.6	9.8 - 11.4	7	10.43	0.42	4.1	10.6	9.6 - 11.2
QBC STAR - QBC STAR Tubes	5	10.06	0.15	1.5	10.0	9.3 - 10.8	5	10.36	0.84	8.1	10.1	9.6 - 11.1
			Specimen QBC-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	11.61	0.59	5.1	11.9	10.7 - 12.5						
QBC Autoread-Cap. Std. Tube	7	11.86	0.53	4.5	12.0	11.0 - 12.7						
QBC STAR - QBC STAR Tubes	5	11.40	0.83	7.3	11.6	10.6 - 12.2						

QBC HEMATOLOGY–WHITE BLOOD CELL COUNT (x 10⁹/L)

Specimen QBC-1							Specimen QBC-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	8.12	0.93	11.4	9.1	6.9 - 9.4	11	7.98	1.27	16.0	9.2	6.7 - 9.2	
QBC Autoread-Cap. Std. Tube	7	7.91	0.87	11.0	7.7	6.7 - 9.2	7	8.09	0.81	10.1	8.3	6.8 - 9.3	
QBC STAR - QBC STAR Tubes	5	11.40	0.86	7.6	11.5	9.6 - 13.2	5	11.66	1.02	8.7	11.8	9.9 - 13.5	
Specimen QBC-3							Specimen QBC-4						
All Method	11	13.85	1.96	14.1	16.8	11.7 - 16.0	11	13.09	1.69	12.9	14.9	11.1 - 15.1	
QBC Autoread-Cap. Std. Tube	7	13.01	1.13	8.7	12.7	11.0 - 15.0	7	12.74	1.37	10.8	12.4	10.8 - 14.7	
QBC STAR - QBC STAR Tubes	5	18.92	1.30	6.9	19.7	16.0 - 21.8	5	17.02	0.86	5.0	16.8	14.4 - 19.6	
Specimen QBC-5													
All Method	11	12.30	1.07	8.7	13.3	10.4 - 14.2							
QBC Autoread-Cap. Std. Tube	7	12.31	0.76	6.1	12.5	10.4 - 14.2							
QBC STAR - QBC STAR Tubes	5	16.90	2.38	14.1	16.1	14.3 - 19.5							

QBC HEMATOLOGY–PLATELET COUNT (x 10⁹/L)

Specimen QBC-1							Specimen QBC-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	11	268.0	63.8	23.8	357	201 - 335	11	276.6	60.9	22.0	333	207 - 346	
QBC Autoread-Cap. Std. Tube	7	235.6	30.7	13.0	234	176 - 295	7	242.6	16.7	6.9	246	181 - 304	
QBC STAR - QBC STAR Tubes	5	421.0	77.6	18.4	398	315 - 527	5	389.0	42.2	10.8	394	291 - 487	
Specimen QBC-3							Specimen QBC-4						
All Method	11	136.9	45.1	33.0	134	102 - 172	11	124.7	37.4	30.0	170	93 - 156	
QBC Autoread-Cap. Std. Tube	7	126.6	7.3	5.8	127	94 - 159	7	110.0	14.4	13.1	116	82 - 138	
QBC STAR - QBC STAR Tubes	5	203.0	9.5	4.7	201	152 - 254	5	208.2	46.0	22.1	191	156 - 261	
Specimen QBC-5													
All Method	11	123.6	36.4	29.4	140	92 - 155							
QBC Autoread-Cap. Std. Tube	7	111.7	14.1	12.7	116	83 - 140							
QBC STAR - QBC STAR Tubes	5	201.8	23.4	11.6	192	151 - 253							

QBC HEMATOLOGY–GRANULOCYTES (x 10⁹/L)

Specimen QBC-1							Specimen QBC-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	6.66	2.53	38.0	5.8	0.0 - 14.3	18	7.18	2.51	35.0	6.4	0.0 - 14.8
QBC Autoread-Cap. Std. Tube	7	5.00	0.77	15.3	4.8	2.7 - 7.3	7	5.46	0.99	18.1	5.8	2.4 - 8.5
QBC STAR - QBC STAR Tubes	5	8.96	0.65	7.3	9.2	7.0 - 11.0	5	9.18	0.83	9.1	9.4	6.6 - 11.7
Specimen QBC-3							Specimen QBC-4					
All Method	18	9.21	3.84	41.7	8.5	0.0 - 20.8	18	8.67	3.82	44.1	8.3	0.0 - 20.2
QBC Autoread-Cap. Std. Tube	7	5.93	0.47	8.0	5.8	4.5 - 7.4	7	5.43	0.72	13.3	5.5	3.2 - 7.6
QBC STAR - QBC STAR Tubes	5	13.06	0.81	6.2	12.8	10.6 - 15.5	5	11.38	2.16	19.0	12.6	4.8 - 17.9
Specimen QBC-5												
All Method	18	8.37	3.93	47.0	6.7	0.0 - 20.2						
QBC Autoread-Cap. Std. Tube	7	5.11	0.82	16.1	4.9	2.6 - 7.6						
QBC STAR - QBC STAR Tubes	5	12.18	1.39	11.4	12.1	7.9 - 16.4						

QBC HEMATOLOGY–LYMPHS/MONO (x 10⁹/L)

Specimen QBC-1							Specimen QBC-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	2.70	0.59	22.0	2.8	0.9 - 4.5	18	2.44	0.53	21.6	2.4	0.8 - 4.1
QBC Autoread-Cap. Std. Tube	7	2.91	0.13	4.6	2.9	2.5 - 3.4	7	2.63	0.52	19.9	2.7	1.0 - 4.2
QBC STAR - QBC STAR Tubes	5	2.40	0.34	14.1	2.5	1.3 - 3.5	5	2.52	0.28	11.0	2.6	1.6 - 3.4
Specimen QBC-3							Specimen QBC-4					
All Method	17	6.53	1.09	16.7	6.5	3.2 - 9.8	18	6.31	1.63	25.8	6.5	1.4 - 11.2
QBC Autoread-Cap. Std. Tube	7	7.09	0.74	10.5	7.0	4.8 - 9.4	7	7.31	0.86	11.8	7.1	4.7 - 10.0
QBC STAR - QBC STAR Tubes	5	5.84	0.86	14.8	5.6	3.2 - 8.5	5	5.18	1.03	19.9	5.0	2.0 - 8.3
Specimen QBC-5												
All Method	18	5.99	1.84	30.7	6.5	0.4 - 11.6						
QBC Autoread-Cap. Std. Tube	7	7.20	0.57	8.0	7.2	5.4 - 9.0						
QBC STAR - QBC STAR Tubes	5	4.72	1.04	22.0	4.4	1.6 - 7.9						

RETICULOCYTE COUNT (percent)

<u>Instrument</u>	Specimen RT-1						Specimen RT-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	44	8.32	3.17	38.1	8.5	0.0 - 17.9	42	4.21	1.43	34.1	4.3	0.0 - 8.6
All Automated Methods	19	6.69	2.21	33.1	6.6	0.0 - 13.4	19	3.33	1.00	30.0	3.3	0.3 - 6.4
All Manual Methods	24	9.60	3.32	34.6	9.0	0.0 - 19.6	23	5.21	1.73	33.2	5.1	0.0 - 10.5
Manual-New Methylen Blue Stain	16	10.99	3.16	28.8	10.4	1.4 - 20.5	15	5.61	1.66	29.6	5.4	0.6 - 10.6

HEMATOLOGY W/ 5-PART DIFFERENTIAL-WHITE BLOOD CELL COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	10.07	0.35	3.4	10.0	8.5 - 11.6	56	6.63	0.30	4.5	6.6	5.6 - 7.7
All ABX Instruments	28	10.21	0.45	4.4	10.1	8.6 - 11.8	28	6.66	0.31	4.7	6.6	5.6 - 7.7
All COULTER Instruments	26	9.99	0.25	2.5	10.0	8.4 - 11.5	26	6.60	0.29	4.4	6.6	5.6 - 7.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	10.08	0.38	3.8	10.0	8.5 - 11.6	17	6.58	0.31	4.7	6.6	5.5 - 7.6
ABX Diagnostics Pentra 80 / XL 80	10	10.33	0.40	3.9	10.3	8.7 - 11.9	10	6.74	0.27	4.0	6.7	5.7 - 7.8
COULTER AcT 5diff (1.9 and below)	12	9.99	0.22	2.2	10.0	8.4 - 11.5	12	6.65	0.25	3.8	6.7	5.6 - 7.7
COULTER AcT 5diff (version 2.01)	14	9.99	0.28	2.8	10.0	8.4 - 11.5	14	6.56	0.32	4.9	6.5	5.5 - 7.6

<u>Instrument</u>	Specimen BCX-3						Specimen BCX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	3.18	0.11	3.6	3.2	2.7 - 3.7	55	27.29	0.98	3.6	27.1	23.1 - 31.4
All ABX Instruments	28	3.20	0.13	4.2	3.2	2.7 - 3.7	28	27.61	1.10	4.0	27.3	23.4 - 31.8
All COULTER Instruments	26	3.17	0.08	2.6	3.2	2.6 - 3.7	25	26.95	0.75	2.8	26.9	22.9 - 31.0
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	3.15	0.12	3.7	3.2	2.6 - 3.7	17	27.40	1.09	4.0	27.2	23.2 - 31.6
ABX Diagnostics Pentra 80 / XL 80	10	3.24	0.12	3.6	3.3	2.7 - 3.8	10	27.71	0.81	2.9	27.8	23.5 - 31.9
COULTER AcT 5diff (1.9 and below)	12	3.20	0.06	1.9	3.2	2.7 - 3.7	11	26.76	0.66	2.5	26.7	22.7 - 30.8
COULTER AcT 5diff (version 2.01)	14	3.15	0.09	3.0	3.2	2.6 - 3.7	14	27.10	0.80	3.0	27.0	23.0 - 31.2

<u>Instrument</u>	Specimen BCX-5					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	54	16.23	0.60	3.7	16.2	13.7 - 18.7
All ABX Instruments	28	16.36	0.69	4.2	16.4	13.9 - 18.9
All COULTER Instruments	24	16.10	0.47	2.9	16.2	13.6 - 18.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	16.22	0.67	4.1	16.2	13.7 - 18.7
ABX Diagnostics Pentra 80 / XL 80	10	16.43	0.53	3.2	16.7	13.9 - 18.9
COULTER AcT 5diff (1.9 and below)	11	16.30	0.80	4.9	16.1	13.8 - 18.8
COULTER AcT 5diff (version 2.01)	14	16.10	0.52	3.2	16.2	13.6 - 18.6

HEMATOLOGY W/ 5-PART DIFFERENTIAL-RED BLOOD CELL COUNT (x 10¹²/L)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	2.398	0.047	1.9	2.40	2.25 - 2.55	55	5.825	0.089	1.5	5.82	5.47 - 6.18
All ABX Instruments	28	2.394	0.050	2.1	2.39	2.25 - 2.54	28	5.798	0.080	1.4	5.80	5.44 - 6.15
All COULTER Instruments	26	2.405	0.041	1.7	2.41	2.26 - 2.55	26	5.857	0.092	1.6	5.85	5.50 - 6.21
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	2.398	0.041	1.7	2.39	2.25 - 2.55	17	5.808	0.077	1.3	5.81	5.45 - 6.16
ABX Diagnostics Pentra 80 / XL 80	10	2.379	0.058	2.4	2.38	2.23 - 2.53	10	5.778	0.089	1.5	5.76	5.43 - 6.13
COULTER AcT 5diff (1.9 and below)	12	2.395	0.038	1.6	2.41	2.25 - 2.54	12	5.873	0.089	1.5	5.89	5.52 - 6.23
COULTER AcT 5diff (version 2.01)	14	2.414	0.043	1.8	2.43	2.26 - 2.56	14	5.842	0.095	1.6	5.83	5.49 - 6.20
Specimen BCX-3							Specimen BCX-4					
All Method	55	2.517	0.049	1.9	2.52	2.36 - 2.67	55	2.965	0.055	1.9	2.97	2.78 - 3.15
All ABX Instruments	28	2.505	0.050	2.0	2.50	2.35 - 2.66	28	2.959	0.048	1.6	2.97	2.78 - 3.14
All COULTER Instruments	26	2.530	0.044	1.7	2.54	2.37 - 2.69	25	2.978	0.058	2.0	2.99	2.79 - 3.16
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	2.527	0.046	1.8	2.53	2.37 - 2.68	17	2.973	0.050	1.7	2.97	2.79 - 3.16
ABX Diagnostics Pentra 80 / XL 80	10	2.463	0.029	1.2	2.46	2.31 - 2.62	10	2.932	0.037	1.3	2.93	2.75 - 3.11
COULTER AcT 5diff (1.9 and below)	12	2.508	0.042	1.7	2.52	2.35 - 2.66	11	2.951	0.051	1.7	2.96	2.77 - 3.13
COULTER AcT 5diff (version 2.01)	14	2.550	0.036	1.4	2.56	2.39 - 2.71	14	3.000	0.056	1.9	3.01	2.82 - 3.18
Specimen BCX-5												
All Method	53	5.502	0.080	1.4	5.49	5.17 - 5.84						
All ABX Instruments	28	5.491	0.073	1.3	5.49	5.16 - 5.83						
All COULTER Instruments	24	5.520	0.085	1.5	5.51	5.18 - 5.86						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	5.486	0.069	1.3	5.49	5.15 - 5.82						
ABX Diagnostics Pentra 80 / XL 80	10	5.498	0.086	1.6	5.50	5.16 - 5.83						
COULTER AcT 5diff (1.9 and below)	11	5.587	0.171	3.1	5.59	5.25 - 5.93						
COULTER AcT 5diff (version 2.01)	14	5.504	0.083	1.5	5.49	5.17 - 5.84						

HEMATOLOGY W/ 5-PART DIFFERENTIAL-HEMOGLOBIN (g/dL)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	7.27	0.17	2.3	7.3	6.7 - 7.8	56	18.73	0.23	1.2	18.8	17.4 - 20.1
All ABX Instruments	28	7.16	0.10	1.3	7.2	6.6 - 7.7	28	18.75	0.22	1.2	18.8	17.4 - 20.1
All COULTER Instruments	26	7.41	0.11	1.5	7.4	6.8 - 8.0	26	18.71	0.23	1.2	18.7	17.4 - 20.1
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	7.18	0.10	1.3	7.2	6.6 - 7.7	17	18.83	0.20	1.0	18.8	17.5 - 20.2
ABX Diagnostics Pentra 80 / XL 80	10	7.11	0.09	1.2	7.1	6.6 - 7.7	10	18.61	0.21	1.1	18.7	17.3 - 20.0
COULTER AcT 5diff (1.9 and below)	12	7.38	0.09	1.2	7.4	6.8 - 7.9	12	18.61	0.20	1.1	18.7	17.3 - 20.0
COULTER AcT 5diff (version 2.01)	14	7.44	0.12	1.6	7.5	6.9 - 8.0	14	18.80	0.21	1.1	18.8	17.4 - 20.2
Specimen BCX-3							Specimen BCX-4					
All Method	55	6.46	0.15	2.3	6.5	6.0 - 7.0	55	7.60	0.15	2.0	7.6	7.0 - 8.2
All ABX Instruments	28	6.35	0.10	1.6	6.3	5.9 - 6.8	28	7.51	0.11	1.5	7.5	6.9 - 8.1
All COULTER Instruments	26	6.59	0.07	1.0	6.6	6.1 - 7.1	25	7.72	0.11	1.4	7.7	7.1 - 8.3
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	6.39	0.09	1.5	6.4	5.9 - 6.9	17	7.56	0.10	1.3	7.6	7.0 - 8.1
ABX Diagnostics Pentra 80 / XL 80	10	6.27	0.08	1.3	6.3	5.8 - 6.8	10	7.43	0.08	1.1	7.5	6.9 - 8.0
COULTER AcT 5diff (1.9 and below)	12	6.56	0.07	1.0	6.6	6.0 - 7.1	11	7.67	0.10	1.3	7.7	7.1 - 8.3
COULTER AcT 5diff (version 2.01)	14	6.62	0.06	0.9	6.6	6.1 - 7.1	14	7.75	0.10	1.3	7.8	7.2 - 8.3
Specimen BCX-5												
All Method	54	15.89	0.19	1.2	15.9	14.7 - 17.1						
All ABX Instruments	28	15.86	0.19	1.2	15.9	14.7 - 17.0						
All COULTER Instruments	25	15.93	0.18	1.2	15.9	14.8 - 17.1						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	15.93	0.14	0.9	15.9	14.8 - 17.1						
ABX Diagnostics Pentra 80 / XL 80	10	15.72	0.18	1.2	15.8	14.6 - 16.9						
COULTER AcT 5diff (1.9 and below)	11	15.86	0.17	1.1	15.9	14.7 - 17.0						
COULTER AcT 5diff (version 2.01)	14	15.99	0.18	1.1	16.0	14.8 - 17.2						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–HEMATOCRIT (percent)

Specimen BCX-1							Specimen BCX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	56	20.91	0.55	2.6	21.0	19.6 - 22.2	56	52.75	0.93	1.8	52.8	49.5 - 56.0	
All ABX Instruments	27	20.79	0.42	2.0	20.8	19.5 - 22.1	28	52.72	1.01	1.9	52.6	49.5 - 55.9	
All COULTER Instruments	26	21.03	0.55	2.6	21.1	19.7 - 22.3	26	52.86	0.77	1.5	53.1	49.6 - 56.1	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	20.56	0.32	1.5	20.5	19.3 - 21.8	17	53.00	0.83	1.6	52.8	49.8 - 56.2	
ABX Diagnostics Pentra 80 / XL 80	10	21.33	0.49	2.3	21.3	20.0 - 22.7	10	52.31	1.20	2.3	52.3	49.1 - 55.5	
COULTER AcT 5diff (1.9 and below)	12	21.33	0.37	1.8	21.3	20.0 - 22.7	12	52.83	0.79	1.5	53.1	49.6 - 56.0	
COULTER AcT 5diff (version 2.01)	14	20.77	0.56	2.7	20.8	19.5 - 22.1	14	52.89	0.79	1.5	53.2	49.7 - 56.1	
Specimen BCX-3							Specimen BCX-4						
All Method	55	18.90	0.42	2.2	18.8	17.7 - 20.1	55	22.54	0.47	2.1	22.5	21.1 - 23.9	
All ABX Instruments	28	18.78	0.36	1.9	18.8	17.6 - 20.0	28	22.50	0.43	1.9	22.5	21.1 - 23.9	
All COULTER Instruments	26	19.05	0.45	2.3	19.2	17.9 - 20.2	25	22.66	0.44	2.0	22.6	21.2 - 24.1	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	18.65	0.37	2.0	18.6	17.5 - 19.8	17	22.35	0.37	1.7	22.5	21.0 - 23.7	
ABX Diagnostics Pentra 80 / XL 80	10	18.99	0.25	1.3	18.9	17.8 - 20.2	10	22.77	0.42	1.8	22.7	21.4 - 24.2	
COULTER AcT 5diff (1.9 and below)	12	19.25	0.37	1.9	19.4	18.0 - 20.5	11	22.86	0.49	2.1	22.9	21.4 - 24.3	
COULTER AcT 5diff (version 2.01)	14	18.87	0.44	2.3	18.9	17.7 - 20.1	14	22.49	0.34	1.5	22.5	21.1 - 23.9	
Specimen BCX-5													
All Method	53	45.30	0.75	1.7	45.4	42.5 - 48.1							
All ABX Instruments	28	45.31	0.68	1.5	45.3	42.5 - 48.1							
All COULTER Instruments	24	45.32	0.84	1.9	45.5	42.5 - 48.1							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	45.35	0.59	1.3	45.4	42.6 - 48.1							
ABX Diagnostics Pentra 80 / XL 80	10	45.28	0.86	1.9	45.2	42.5 - 48.0							
COULTER AcT 5diff (1.9 and below)	11	45.82	1.55	3.4	45.6	43.0 - 48.6							
COULTER AcT 5diff (version 2.01)	14	45.25	0.90	2.0	45.5	42.5 - 48.0							

HEMATOLOGY W/ 5-PART DIFFERENTIAL-PLATELET COUNT (x 10⁹/L)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	82.5	5.1	6.2	82	61 - 104	53	300.5	12.5	4.1	299	225 - 376
All ABX Instruments	27	81.6	5.1	6.2	82	61 - 102	26	303.2	15.8	5.2	300	227 - 379
All COULTER Instruments	26	83.8	4.8	5.7	84	62 - 105	26	300.8	13.5	4.5	300	225 - 377
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	83.4	7.1	8.5	83	62 - 105	16	309.0	26.9	8.7	307	231 - 387
ABX Diagnostics Pentra 80 / XL 80	10	79.9	4.1	5.2	81	59 - 100	10	299.6	6.1	2.0	299	224 - 375
COULTER AcT 5diff (1.9 and below)	12	83.7	6.2	7.4	85	62 - 105	12	299.8	16.3	5.4	306	224 - 375
COULTER AcT 5diff (version 2.01)	14	83.9	3.4	4.1	84	62 - 105	14	301.7	11.2	3.7	300	226 - 378
Specimen BCX-3							Specimen BCX-4					
All Method	55	124.0	7.8	6.3	123	93 - 156	54	404.4	17.1	4.2	404	303 - 506
All ABX Instruments	27	124.3	7.3	5.8	124	93 - 156	27	402.3	17.3	4.3	402	301 - 503
All COULTER Instruments	26	124.6	7.8	6.3	124	93 - 156	25	407.6	16.8	4.1	407	305 - 510
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	126.1	5.9	4.7	127	94 - 158	16	403.9	18.1	4.5	404	302 - 505
ABX Diagnostics Pentra 80 / XL 80	10	119.6	5.4	4.5	119	89 - 150	10	395.5	7.1	1.8	394	296 - 495
COULTER AcT 5diff (1.9 and below)	12	124.4	8.8	7.1	124	93 - 156	12	400.2	34.1	8.5	400	300 - 501
COULTER AcT 5diff (version 2.01)	14	124.7	7.2	5.7	125	93 - 156	14	407.3	12.6	3.1	411	305 - 510
Specimen BCX-5												
All Method	54	302.7	16.4	5.4	302	227 - 379						
All ABX Instruments	27	304.0	15.6	5.1	302	227 - 380						
All COULTER Instruments	25	302.9	16.4	5.4	303	227 - 379						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	301.8	17.2	5.7	301	226 - 378						
ABX Diagnostics Pentra 80 / XL 80	10	304.8	10.9	3.6	309	228 - 381						
COULTER AcT 5diff (1.9 and below)	12	311.8	40.1	12.9	309	233 - 390						
COULTER AcT 5diff (version 2.01)	14	303.5	10.1	3.3	303	227 - 380						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–NEUTROPHILS (percent)

Specimen BCX-1							Specimen BCX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	56	58.03	3.92	6.8	57.8	46.2 - 69.8	56	49.17	4.86	9.9	49.7	34.6 - 63.8	
All ABX Instruments	28	60.27	2.95	4.9	60.5	51.4 - 69.2	28	51.66	3.89	7.5	51.3	39.9 - 63.4	
All COULTER Instruments	26	55.39	3.13	5.7	55.8	45.9 - 64.8	26	46.05	3.94	8.6	47.3	34.2 - 57.9	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	60.50	3.05	5.0	61.7	51.3 - 69.7	17	53.24	3.47	6.5	53.4	42.8 - 63.7	
ABX Diagnostics Pentra 80 / XL 80	10	59.85	3.05	5.1	60.4	50.6 - 69.1	10	48.81	3.16	6.5	49.2	39.3 - 58.4	
COULTER AcT 5diff (1.9 and below)	12	54.35	2.65	4.9	54.9	46.4 - 62.3	12	44.33	4.29	9.7	43.6	31.4 - 57.2	
COULTER AcT 5diff (version 2.01)	14	56.28	3.33	5.9	57.0	46.3 - 66.3	14	47.52	3.03	6.4	49.3	38.4 - 56.7	
Specimen BCX-3							Specimen BCX-4						
All Method	56	61.98	5.11	8.2	62.3	46.6 - 77.4	53	67.93	4.88	7.2	68.1	53.3 - 82.6	
All ABX Instruments	28	64.41	4.42	6.9	65.7	51.1 - 77.7	27	70.49	3.60	5.1	70.5	59.6 - 81.3	
All COULTER Instruments	26	58.80	3.85	6.5	58.4	47.2 - 70.4	24	64.56	4.08	6.3	65.8	52.3 - 76.8	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	65.40	4.25	6.5	66.0	52.6 - 78.2	16	72.00	2.90	4.0	72.6	63.3 - 80.7	
ABX Diagnostics Pentra 80 / XL 80	10	62.41	4.37	7.0	62.5	49.3 - 75.6	10	67.74	3.12	4.6	68.3	58.3 - 77.1	
COULTER AcT 5diff (1.9 and below)	12	59.23	4.52	7.6	61.5	45.6 - 72.8	12	60.06	9.08	15.1	63.0	32.8 - 87.4	
COULTER AcT 5diff (version 2.01)	14	58.42	3.30	5.7	58.2	48.5 - 68.4	13	66.33	3.60	5.4	66.7	55.5 - 77.2	
Specimen BCX-5													
All Method	56	45.25	4.72	10.4	45.0	31.0 - 59.5							
All ABX Instruments	28	46.96	3.73	8.0	47.9	35.7 - 58.2							
All COULTER Instruments	25	42.37	3.65	8.6	43.6	31.4 - 53.4							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	47.95	3.03	6.3	48.3	38.8 - 57.1							
ABX Diagnostics Pentra 80 / XL 80	10	44.67	3.67	8.2	45.0	33.6 - 55.7							
COULTER AcT 5diff (1.9 and below)	12	41.97	6.01	14.3	41.4	23.9 - 60.0							
COULTER AcT 5diff (version 2.01)	14	43.89	3.49	8.0	44.1	33.4 - 54.4							

HEMATOLOGY W/ 5-PART DIFFERENTIAL–LYMPHOCYTES (percent)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	28.19	3.68	13.1	28.5	17.1 - 39.3	56	39.84	4.15	10.4	39.5	27.3 - 52.4
All ABX Instruments	28	28.94	3.83	13.2	28.9	17.4 - 40.5	28	40.28	4.03	10.0	40.0	28.1 - 52.4
All COULTER Instruments	26	27.21	3.43	12.6	27.1	16.9 - 37.5	26	39.46	4.45	11.3	38.1	26.1 - 52.9
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	28.92	2.85	9.9	28.8	20.3 - 37.5	17	39.18	3.50	8.9	39.0	28.6 - 49.7
ABX Diagnostics Pentra 80 / XL 80	10	29.23	5.36	18.4	30.6	13.1 - 45.4	10	42.18	4.53	10.8	43.3	28.5 - 55.8
COULTER AcT 5diff (1.9 and below)	12	28.65	2.56	8.9	28.8	20.9 - 36.4	12	42.17	4.53	10.8	43.5	28.5 - 55.8
COULTER AcT 5diff (version 2.01)	14	25.98	3.67	14.1	25.8	14.9 - 37.0	14	37.14	2.85	7.7	37.1	28.5 - 45.7
Specimen BCX-3							Specimen BCX-4					
All Method	53	14.93	2.76	18.5	14.8	6.6 - 23.2	56	19.10	4.42	23.1	17.6	5.8 - 32.4
All ABX Instruments	28	16.13	3.81	23.6	16.2	4.6 - 27.6	28	19.17	4.61	24.0	18.0	5.3 - 33.0
All COULTER Instruments	25	14.60	2.76	18.9	14.2	6.3 - 22.9	26	19.15	4.44	23.2	17.6	5.8 - 32.5
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	15.63	3.71	23.7	16.1	4.5 - 26.8	16	17.20	2.61	15.2	17.3	9.3 - 25.1
ABX Diagnostics Pentra 80 / XL 80	10	17.32	3.96	22.9	16.5	5.4 - 29.3	10	21.33	4.69	22.0	21.7	7.2 - 35.5
COULTER AcT 5diff (1.9 and below)	12	15.90	4.65	29.2	16.1	1.9 - 29.9	12	21.49	3.78	17.6	21.4	10.1 - 32.9
COULTER AcT 5diff (version 2.01)	14	14.46	2.94	20.3	13.7	5.6 - 23.3	14	17.14	4.06	23.7	17.1	4.9 - 29.4
Specimen BCX-5												
All Method	55	37.42	4.44	11.9	36.3	24.1 - 50.8						
All ABX Instruments	27	37.37	3.72	10.0	36.3	26.1 - 48.6						
All COULTER Instruments	26	37.72	5.19	13.8	37.2	22.1 - 53.3						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	36.64	2.92	8.0	35.6	27.8 - 45.5						
ABX Diagnostics Pentra 80 / XL 80	10	40.72	5.77	14.2	42.1	23.4 - 58.1						
COULTER AcT 5diff (1.9 and below)	12	39.80	5.76	14.5	40.0	22.5 - 57.1						
COULTER AcT 5diff (version 2.01)	14	35.93	4.04	11.2	34.9	23.8 - 48.1						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–MONOCYTES (percent)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	0.81	0.46	57.1	0.7	0.0 - 2.3	53	1.18	0.56	47.9	1.1	0.0 - 2.9
All ABX Instruments	27	0.90	0.52	57.9	0.8	0.0 - 2.5	27	1.22	0.53	43.6	1.2	0.0 - 2.9
All COULTER Instruments	24	0.73	0.37	51.1	0.7	0.0 - 1.9	24	1.16	0.62	53.5	1.1	0.0 - 3.1
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	0.94	0.60	63.9	0.7	0.0 - 2.8	17	1.33	0.82	61.6	1.0	0.0 - 3.8
ABX Diagnostics Pentra 80 / XL 80	10	0.86	0.44	50.6	1.0	0.0 - 2.2	10	1.30	0.53	40.5	1.5	0.0 - 2.9
COULTER AcT 5diff (1.9 and below)	11	0.77	0.45	58.5	0.6	0.0 - 2.2	12	1.14	0.56	48.9	1.2	0.0 - 2.9
COULTER AcT 5diff (version 2.01)	14	0.84	0.59	70.5	0.9	0.0 - 2.7	14	1.63	1.35	82.6	1.1	0.0 - 5.7
Specimen BCX-3							Specimen BCX-4					
All Method	52	0.57	0.37	65.5	0.5	0.0 - 1.7	55	0.65	0.42	64.4	0.5	0.0 - 2.0
All ABX Instruments	25	0.57	0.37	64.7	0.6	0.0 - 1.7	28	0.61	0.40	65.3	0.5	0.0 - 1.8
All COULTER Instruments	25	0.56	0.39	70.3	0.5	0.0 - 1.8	25	0.72	0.46	64.3	0.6	0.0 - 2.1
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	0.66	0.36	54.6	0.7	0.0 - 1.8	17	0.68	0.42	62.0	0.5	0.0 - 2.0
ABX Diagnostics Pentra 80 / XL 80	10	0.48	0.39	80.9	0.5	0.0 - 1.7	10	0.48	0.35	73.4	0.5	0.0 - 1.6
COULTER AcT 5diff (1.9 and below)	12	0.60	0.42	69.3	0.7	0.0 - 1.9	12	0.81	0.50	61.8	0.8	0.0 - 2.4
COULTER AcT 5diff (version 2.01)	13	0.52	0.38	73.4	0.4	0.0 - 1.7	14	0.76	0.64	84.3	0.6	0.0 - 2.7
Specimen BCX-5												
All Method	54	1.16	0.53	45.8	1.1	0.0 - 2.8						
All ABX Instruments	27	1.04	0.49	47.5	1.0	0.0 - 2.6						
All COULTER Instruments	25	1.30	0.57	43.7	1.2	0.0 - 3.1						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	1.29	0.81	62.5	1.0	0.0 - 3.8						
ABX Diagnostics Pentra 80 / XL 80	10	0.91	0.43	47.3	1.0	0.0 - 2.3						
COULTER AcT 5diff (1.9 and below)	12	1.35	0.34	25.4	1.4	0.3 - 2.4						
COULTER AcT 5diff (version 2.01)	14	1.55	1.31	84.6	1.2	0.0 - 5.5						

HEMATOLOGY W/ 5-PART DIFFERENTIAL– EOSINOPHILS (percent)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	7.83	1.61	20.6	7.8	2.9 - 12.7	56	4.87	0.93	19.1	4.9	2.0 - 7.7
All ABX Instruments	28	8.03	1.47	18.3	7.9	3.6 - 12.5	28	4.90	0.93	19.0	5.1	2.1 - 7.7
All COULTER Instruments	26	7.78	1.72	22.1	8.0	2.6 - 13.0	26	4.83	0.98	20.4	4.7	1.8 - 7.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	8.15	1.09	13.4	8.0	4.8 - 11.5	17	4.82	0.96	20.0	5.2	1.9 - 7.8
ABX Diagnostics Pentra 80 / XL 80	10	7.44	1.51	20.3	7.8	2.9 - 12.0	10	5.02	0.97	19.2	4.9	2.1 - 8.0
COULTER AcT 5diff (1.9 and below)	12	7.38	1.91	25.9	8.0	1.6 - 13.1	12	4.56	0.63	13.8	4.6	2.6 - 6.5
COULTER AcT 5diff (version 2.01)	14	8.14	1.52	18.7	8.3	3.5 - 12.8	14	5.07	1.18	23.3	5.2	1.5 - 8.7
Specimen BCX-3							Specimen BCX-4					
All Method	56	16.20	2.74	16.9	16.1	7.9 - 24.5	55	8.56	1.11	13.0	8.6	5.2 - 11.9
All ABX Instruments	28	16.93	2.44	14.4	16.7	9.6 - 24.3	27	8.73	0.97	11.1	8.6	5.8 - 11.7
All COULTER Instruments	26	15.40	2.97	19.3	15.5	6.4 - 24.4	26	8.43	1.26	15.0	8.5	4.6 - 12.3
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	16.95	2.67	15.7	16.7	8.9 - 25.0	16	9.00	0.96	10.6	8.7	6.1 - 11.9
ABX Diagnostics Pentra 80 / XL 80	10	16.68	2.15	12.9	16.7	10.2 - 23.2	10	8.31	0.92	11.1	8.6	5.5 - 11.1
COULTER AcT 5diff (1.9 and below)	12	14.26	2.99	21.0	14.2	5.2 - 23.3	12	8.42	1.17	13.9	8.3	4.9 - 12.0
COULTER AcT 5diff (version 2.01)	14	16.38	2.67	16.3	16.0	8.3 - 24.4	14	8.44	1.38	16.4	8.6	4.2 - 12.6
Specimen BCX-5												
All Method	56	12.27	1.84	15.0	12.7	6.7 - 17.8						
All ABX Instruments	28	12.64	1.51	12.0	12.9	8.0 - 17.2						
All COULTER Instruments	26	11.75	2.08	17.7	12.2	5.5 - 18.0						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	13.07	1.14	8.7	12.9	9.6 - 16.5						
ABX Diagnostics Pentra 80 / XL 80	10	11.74	1.74	14.8	12.4	6.5 - 17.0						
COULTER AcT 5diff (1.9 and below)	12	10.89	1.87	17.2	11.4	5.2 - 16.6						
COULTER AcT 5diff (version 2.01)	14	12.49	2.02	16.1	12.7	6.4 - 18.6						

HEMATOLOGY W/ 5-PART DIFFERENTIAL– BASOPHILS (percent)

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	4.65	4.21	90.5	8.0	0.0 - 17.3	51	4.33	3.93	90.8	6.3	0.0 - 16.2
All ABX Instruments	23	0.42	0.04	9.3	0.4	0.3 - 0.6	22	0.40	0.00	0.0	0.4	0.4 - 0.4
All COULTER Instruments	26	8.73	0.53	6.1	8.7	7.1 - 10.4	26	8.11	0.80	9.9	8.3	5.6 - 10.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	0.43	0.05	10.7	0.4	0.2 - 0.6	14	0.40	0.00	0.0	0.4	0.4 - 0.4
COULTER AcT 5diff (1.9 and below)	12	8.57	0.43	5.0	8.6	7.2 - 9.9	12	7.83	0.79	10.0	8.1	5.4 - 10.2
COULTER AcT 5diff (version 2.01)	14	8.87	0.58	6.5	9.0	7.1 - 10.7	14	8.35	0.76	9.1	8.6	6.0 - 10.7
Specimen BCX-3							Specimen BCX-4					
All Method	51	5.49	4.98	90.7	9.0	0.0 - 20.5	51	3.66	3.32	90.6	6.0	0.0 - 13.7
All ABX Instruments	23	0.50	0.04	8.5	0.5	0.3 - 0.7	23	0.33	0.04	13.8	0.3	0.1 - 0.5
All COULTER Instruments	26	10.29	0.86	8.3	10.2	7.7 - 12.9	26	6.87	0.46	6.7	6.8	5.4 - 8.3
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	0.49	0.05	9.3	0.5	0.3 - 0.7	15	0.33	0.05	14.0	0.3	0.1 - 0.5
COULTER AcT 5diff (1.9 and below)	12	10.04	0.72	7.2	10.1	7.8 - 12.3	12	6.63	0.41	6.2	6.7	5.4 - 7.9
COULTER AcT 5diff (version 2.01)	14	10.51	0.93	8.9	10.5	7.7 - 13.4	14	7.07	0.41	5.8	7.2	5.8 - 8.4
Specimen BCX-5												
All Method	51	3.25	2.93	90.1	5.4	0.0 - 12.1						
All ABX Instruments	23	0.30	0.00	0.0	0.3	0.3 - 0.3						
All COULTER Instruments	26	6.09	0.31	5.0	6.1	5.1 - 7.1						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	0.30	0.00	0.0	0.3	0.3 - 0.3						
COULTER AcT 5diff (1.9 and below)	12	6.04	0.32	5.3	6.0	5.0 - 7.1						
COULTER AcT 5diff (version 2.01)	14	6.14	0.30	4.9	6.2	5.2 - 7.1						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–WHITE BLOOD CELL COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	20.51	1.07	5.2	20.4	17.4 - 23.6	26	7.42	0.50	6.7	7.5	6.3 - 8.6
All Sysmex Instruments	26	20.51	1.07	5.2	20.4	17.4 - 23.6	26	7.42	0.50	6.7	7.5	6.3 - 8.6
Sysmex XS-1000i	12	21.08	0.99	4.7	21.0	17.9 - 24.3	12	7.24	0.58	8.1	7.1	6.1 - 8.4
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	3.43	0.32	9.2	3.4	2.9 - 4.0	26	20.51	1.02	5.0	20.6	17.4 - 23.6
All Sysmex Instruments	26	3.43	0.32	9.2	3.4	2.9 - 4.0	26	20.51	1.02	5.0	20.6	17.4 - 23.6
Sysmex XS-1000i	12	3.38	0.40	11.9	3.6	2.8 - 3.9	12	21.11	0.78	3.7	20.8	17.9 - 24.3
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	7.41	0.52	7.1	7.5	6.2 - 8.6						
All Sysmex Instruments	26	7.41	0.52	7.1	7.5	6.2 - 8.6						
Sysmex XS-1000i	12	7.21	0.65	9.0	6.8	6.1 - 8.3						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–RED BLOOD CELL COUNT (x 10¹²/L)

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	5.628	0.091	1.6	5.61	5.29 - 5.97	26	4.874	0.055	1.1	4.88	4.58 - 5.17
All Sysmex Instruments	26	5.628	0.091	1.6	5.61	5.29 - 5.97	26	4.874	0.055	1.1	4.88	4.58 - 5.17
Sysmex XS-1000i	12	5.617	0.069	1.2	5.64	5.27 - 5.96	12	4.844	0.035	0.7	4.84	4.55 - 5.14
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	2.493	0.048	1.9	2.50	2.34 - 2.65	26	5.613	0.071	1.3	5.61	5.27 - 5.95
All Sysmex Instruments	26	2.493	0.048	1.9	2.50	2.34 - 2.65	26	5.613	0.071	1.3	5.61	5.27 - 5.95
Sysmex XS-1000i	12	2.448	0.026	1.1	2.45	2.30 - 2.60	12	5.629	0.064	1.1	5.66	5.29 - 5.97
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	4.882	0.051	1.0	4.89	4.58 - 5.18						
All Sysmex Instruments	26	4.882	0.051	1.0	4.89	4.58 - 5.18						
Sysmex XS-1000i	12	4.852	0.040	0.8	4.86	4.56 - 5.15						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–HEMOGLOBIN (g/dL)

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	17.91	0.19	1.1	18.0	16.6 - 19.2	26	13.53	0.16	1.2	13.5	12.5 - 14.5
All Sysmex Instruments	26	17.91	0.19	1.1	18.0	16.6 - 19.2	26	13.53	0.16	1.2	13.5	12.5 - 14.5
Sysmex XS-1000i	12	17.93	0.22	1.2	18.0	16.6 - 19.2	12	13.48	0.17	1.3	13.5	12.5 - 14.5
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	6.08	0.10	1.7	6.1	5.6 - 6.6	26	17.89	0.20	1.1	17.9	16.6 - 19.2
All Sysmex Instruments	26	6.08	0.10	1.7	6.1	5.6 - 6.6	26	17.89	0.20	1.1	17.9	16.6 - 19.2
Sysmex XS-1000i	12	6.03	0.11	1.9	6.0	5.6 - 6.5	12	17.93	0.22	1.2	18.0	16.6 - 19.2
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	13.52	0.17	1.2	13.6	12.5 - 14.5						
All Sysmex Instruments	26	13.52	0.17	1.2	13.6	12.5 - 14.5						
Sysmex XS-1000i	12	13.47	0.18	1.4	13.5	12.5 - 14.5						

HEMATOLOGY W/ 5-PART DIFFERENTIAL – HEMATOCRIT (percent)

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	53.27	1.39	2.6	53.5	50.0 - 56.5	25	40.49	0.72	1.8	40.2	38.0 - 43.0
All Sysmex Instruments	26	53.27	1.39	2.6	53.5	50.0 - 56.5	25	40.49	0.72	1.8	40.2	38.0 - 43.0
Sysmex XS-1000i	12	52.78	1.31	2.5	53.1	49.6 - 56.0	12	39.90	0.87	2.2	39.9	37.5 - 42.3
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	18.43	0.47	2.5	18.3	17.3 - 19.6	26	53.21	1.19	2.2	53.5	50.0 - 56.5
All Sysmex Instruments	26	18.43	0.47	2.5	18.3	17.3 - 19.6	26	53.21	1.19	2.2	53.5	50.0 - 56.5
Sysmex XS-1000i	12	18.06	0.26	1.4	18.2	16.9 - 19.2	12	52.97	1.26	2.4	53.2	49.7 - 56.2
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	40.51	0.68	1.7	40.4	38.0 - 43.0						
All Sysmex Instruments	25	40.51	0.68	1.7	40.4	38.0 - 43.0						
Sysmex XS-1000i	12	39.94	0.89	2.2	40.2	37.5 - 42.4						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–PLATELET COUNT (x 10⁹/L)

Specimen MX-1							Specimen MX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	26	389.7	17.1	4.4	392	292 - 488	26	204.9	11.8	5.8	205	153 - 257	
All Sysmex Instruments	26	389.7	17.1	4.4	392	292 - 488	26	204.9	11.8	5.8	205	153 - 257	
Sysmex XS-1000i	12	398.3	12.0	3.0	397	298 - 498	12	207.3	7.6	3.7	205	155 - 260	
Specimen MX-3							Specimen MX-4						
All Method	26	51.0	5.2	10.2	52	38 - 64	26	392.9	16.0	4.1	394	294 - 492	
All Sysmex Instruments	26	51.0	5.2	10.2	52	38 - 64	26	392.9	16.0	4.1	394	294 - 492	
Sysmex XS-1000i	12	50.9	2.2	4.2	52	38 - 64	12	401.9	10.5	2.6	401	301 - 503	
Specimen MX-5													
All Method	26	204.5	9.9	4.8	206	153 - 256							
All Sysmex Instruments	26	204.5	9.9	4.8	206	153 - 256							
Sysmex XS-1000i	12	206.3	6.3	3.1	207	154 - 258							

HEMATOLOGY W/ 5-PART DIFFERENTIAL – NEUTROPHILS (percent)

Specimen MX-1							Specimen MX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	25	60.28	5.61	9.3	60.5	43.4 - 77.1	26	51.02	4.16	8.2	53.0	38.5 - 63.6	
All Sysmex Instruments	25	60.28	5.61	9.3	60.5	43.4 - 77.1	26	51.02	4.16	8.2	53.0	38.5 - 63.6	
Sysmex XS-1000i	11	59.77	8.50	14.2	54.6	34.2 - 85.3	12	47.93	4.31	9.0	46.1	34.9 - 60.9	
Specimen MX-3							Specimen MX-4						
All Method	25	64.00	3.78	5.9	64.9	52.6 - 75.4	25	60.76	5.07	8.3	61.3	45.5 - 76.0	
All Sysmex Instruments	25	64.00	3.78	5.9	64.9	52.6 - 75.4	25	60.76	5.07	8.3	61.3	45.5 - 76.0	
Sysmex XS-1000i	11	60.28	2.05	3.4	60.8	54.1 - 66.5	11	59.95	7.54	12.6	55.5	37.3 - 82.6	
Specimen MX-5													
All Method	26	50.40	4.72	9.4	52.4	36.2 - 64.6							
All Sysmex Instruments	26	50.40	4.72	9.4	52.4	36.2 - 64.6							
Sysmex XS-1000i	12	47.20	5.22	11.1	45.2	31.5 - 62.9							

HEMATOLOGY W/ 5-PART DIFFERENTIAL – LYMPHOCYTES (percent)

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	19.63	2.99	15.2	20.1	10.6 - 28.6	26	28.06	4.12	14.7	27.9	15.6 - 40.5
All Sysmex Instruments	26	19.63	2.99	15.2	20.1	10.6 - 28.6	26	28.06	4.12	14.7	27.9	15.6 - 40.5
Sysmex XS-1000i	12	18.57	3.72	20.1	21.2	7.3 - 29.8	12	28.90	5.99	20.7	32.8	10.9 - 46.9
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	13.69	2.63	19.2	13.8	5.8 - 21.6	26	19.68	3.29	16.7	19.9	9.8 - 29.6
All Sysmex Instruments	26	13.69	2.63	19.2	13.8	5.8 - 21.6	26	19.68	3.29	16.7	19.9	9.8 - 29.6
Sysmex XS-1000i	12	13.23	3.17	24.0	14.2	3.7 - 22.8	12	18.59	3.93	21.1	21.8	6.8 - 30.4
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	29.06	4.94	17.0	28.6	14.2 - 43.9						
All Sysmex Instruments	26	29.06	4.94	17.0	28.6	14.2 - 43.9						
Sysmex XS-1000i	12	30.25	6.99	23.1	34.6	9.2 - 51.3						

HEMATOLOGY W/ 5-PART DIFFERENTIAL – MONOCYTES (percent)

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	4.35	2.45	56.4	4.9	0.0 - 11.8	26	5.68	2.72	47.8	6.1	0.0 - 13.9
All Sysmex Instruments	26	4.35	2.45	56.4	4.9	0.0 - 11.8	26	5.68	2.72	47.8	6.1	0.0 - 13.9
Sysmex XS-1000i	12	3.71	2.98	80.4	4.0	0.0 - 12.7	12	5.15	3.89	75.5	4.3	0.0 - 16.9
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	2.92	1.65	56.4	3.2	0.0 - 7.9	26	4.05	2.38	58.7	4.9	0.0 - 11.2
All Sysmex Instruments	26	2.92	1.65	56.4	3.2	0.0 - 7.9	26	4.05	2.38	58.7	4.9	0.0 - 11.2
Sysmex XS-1000i	12	2.41	2.05	85.0	2.1	0.0 - 8.6	12	3.49	3.19	91.4	2.0	0.0 - 13.1
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	5.80	2.90	50.0	6.0	0.0 - 14.5						
All Sysmex Instruments	26	5.80	2.90	50.0	6.0	0.0 - 14.5						
Sysmex XS-1000i	12	5.25	3.95	75.3	4.2	0.0 - 17.2						

HEMATOLOGY W/ 5-PART DIFFERENTIAL – EOSINOPHILS (percent)

Specimen MX-1							Specimen MX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	25	12.94	2.86	22.1	13.7	4.3 - 21.6	24	12.70	0.59	4.7	12.7	10.9 - 14.5	
All Sysmex Instruments	25	12.94	2.86	22.1	13.7	4.3 - 21.6	24	12.70	0.59	4.7	12.7	10.9 - 14.5	
Sysmex XS-1000i	11	11.75	4.03	34.3	13.4	0.0 - 23.9	12	13.28	2.01	15.2	12.4	7.2 - 19.4	
Specimen MX-3							Specimen MX-4						
All Method	25	16.41	3.05	18.6	15.6	7.2 - 25.6	25	12.73	2.43	19.1	13.4	5.4 - 20.1	
All Sysmex Instruments	25	16.41	3.05	18.6	15.6	7.2 - 25.6	25	12.73	2.43	19.1	13.4	5.4 - 20.1	
Sysmex XS-1000i	12	15.89	6.51	41.0	15.3	0.0 - 35.5	11	11.79	3.44	29.2	13.3	1.4 - 22.2	
Specimen MX-5													
All Method	26	12.49	1.50	12.0	12.5	7.9 - 17.0							
All Sysmex Instruments	26	12.49	1.50	12.0	12.5	7.9 - 17.0							
Sysmex XS-1000i	12	12.41	2.19	17.6	12.0	5.8 - 19.0							

HEMATOLOGY W/ 5-PART DIFFERENTIAL – BASOPHILS (percent)

Specimen MX-1							Specimen MX-2						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	14	83.98	4.02	4.8	79.5	71.9 - 96.1	14	70.74	0.85	1.2	69.8	68.1 - 73.3	
All Sysmex Instruments	14	83.98	4.02	4.8	83.6	71.9 - 96.1	14	70.74	0.85	1.2	70.8	68.1 - 73.3	
Sysmex XS-1000i	12	5.72	4.22	73.9	8.0	0.0 - 18.4	12	4.73	3.44	72.7	6.4	0.0 - 15.1	
Specimen MX-3							Specimen MX-4						
All Method	14	90.21	5.77	6.4	84.7	72.8 - 107.6	14	82.04	2.42	3.0	79.5	74.7 - 89.4	
All Sysmex Instruments	14	90.21	5.77	6.4	91.4	72.8 - 107.6	14	82.04	2.42	3.0	82.0	74.7 - 89.4	
Sysmex XS-1000i	12	6.12	4.43	72.4	8.4	0.0 - 19.4	12	5.64	4.13	73.2	8.3	0.0 - 18.1	
Specimen MX-5													
All Method	14	70.25	0.85	1.2	69.0	67.6 - 72.9							
All Sysmex Instruments	14	70.25	0.85	1.2	70.6	67.6 - 72.9							
Sysmex XS-1000i	12	4.89	3.51	71.8	6.9	0.0 - 15.5							

BLOOD CELL IDENTIFICATION CASE HISTORY, 2011-M1

Specimens BC-1 through BC-6

A 33-year-old female presented to an urgent care center for treatment of injuries sustained during a seizure. Although she admitted to a history of heavy drinking, she claimed to be “trying to quit.” The patient appeared thin, and her liver was enlarged. A panel of tests were performed, including a CBC, and significant results appear below.

Test	Results	Normal Range
WBC	$9.4 \times 10^9/L$	4 - $11 \times 10^9/L$
RBC	$4.23 \times 10^{12}/L$	$4.0 - 6.0 \times 10^{12}/L$
Hgb	13.3 g/dL	11 - 18 g/dL
Hct	42.5 %	35 - 55 %
Plt	$370 \times 10^9/L$	$150 - 450 \times 10^9/L$
MCV	100 fL	80 - 98 fL
MCH	31 pg	27 - 34 pg
MCHC	31 g/dL	32 - 36 g/dL
RDW	17 %	11 - 15 %

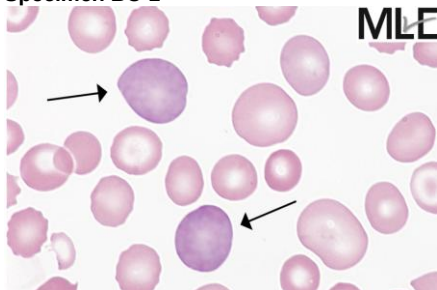
This patient was diagnosed with **alcoholic liver disease**. Addiction to alcohol, also known as alcoholism, is a chronic disease that leads to severe medical complications. Signs and symptoms of alcohol dependence include a strong craving for alcohol, inability to limit drinking, and continued use despite repeated physical, psychological, or interpersonal problems. Alcoholism and its detrimental effects develop faster in women than in men because their bodies absorb and metabolize alcohol differently. Abrupt cessation of alcohol intake may trigger alcohol withdrawal seizures 2-48 hours after heavy or prolonged drinking has stopped.

Alcohol affects virtually every organ system of the body. Chronic alcohol consumption has a toxic effect on the liver, as well as profound hematologic effects. Alcoholics are at increased risk for severe liver disease, gastrointestinal bleeding, pancreatitis, cardiomyopathy, trauma, mental health disorders, and a wide variety of cancers.

Malnutrition is common in patients with alcoholism. Liver damage interferes with the normal metabolic process of turning food into substances the body needs. Alcohol destroys some nutrients, and damages the lining of the stomach and intestines, inhibiting absorption. Additionally, alcoholics often substitute alcohol for food. Common alcohol-related nutritional deficiencies include vitamin B12, vitamin B6, folate, iron, niacin, riboflavin, and thiamine. The resulting hematologic changes can include anemia, macrocytosis, anisocytosis, poikilocytosis, acanthocytes (spur cells), nucleated RBCs, thrombocytopenia, giant platelets, and hypersegmented neutrophils.

BLOOD CELL IDENTIFICATION

Specimen BC-1

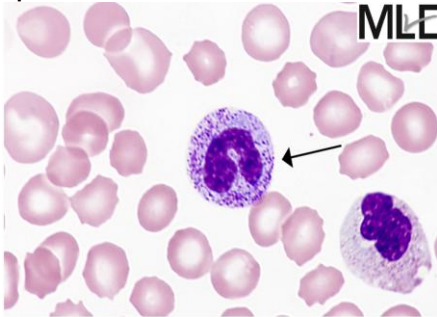


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Polychromatophilic red cell	312	97.81%	Acceptable
Reticulocyte	5	1.57%	

The arrows in this photograph point to **polychromatophilic red blood cells**. These immature red cells have a distinctively bluer color that is due to residual RNA, which will later be absorbed. They are also larger than the surrounding mature RBCs. The number of these cells appearing in the peripheral blood is an indicator of bone marrow activity. When the bone marrow cannot keep up with the need for new red cells, it compensates by releasing cells into circulation before they are fully mature. To view another photo of polychromatophilic RBCs, see 2010 M2 Specimen BC-7.

BLOOD CELL IDENTIFICATION

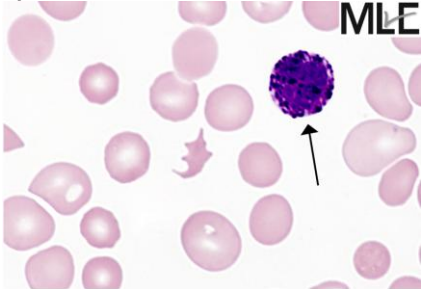
Specimen BC-2



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Neutrophil-seg/band w/toxic granulation	307	96.24%	Acceptable
Neutrophil-Segmented or band	11	3.45%	

The arrow in this photograph points to a **band neutrophil with toxic granulation**. The cytoplasm of cells with toxic granulation contains small, coarse, dark purple granules. Normal neutrophils have fine pink, lilac, and light blue granules. The presence of toxic granulation is a sign of an infection or ingestion of a toxic substance. To view another example of toxic granulation, see 2009 M1 Specimen BC-3.

Specimen BC-3

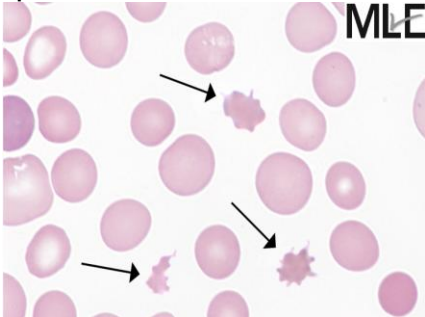


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Basophil, any stage	315	98.75%	Acceptable

The arrow in this photograph points to a **basophil**. The characteristic large, dense, blue-black granules protrude from the cytoplasmic edge, and can be so numerous that they obscure the features of the nucleus. To view another photo of a basophil, see 2009 M3 Specimen BC-16.

BLOOD CELL IDENTIFICATION

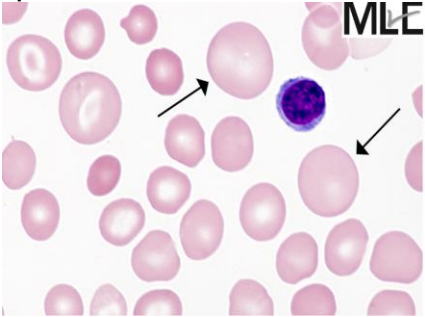
Specimen BC-4



Identification	Labs	Percent	Performance
Acanthocyte	215	67.40%	Acceptable
Fragmented cell	56	17.55%	
Echinocyte	47	14.73%	

The arrows in this photograph point to **acanthocytes**, also called spur cells. Acanthocytes are red blood cells that are contracted, dense and irregular, with thorn-like projections of varying size and distribution. Acanthocytes are associated with malnutrition, hypothyroidism, and other conditions. Many participants identified these cells incorrectly as fragmented cells. Although most fragmented cells have pointed ends and irregular shapes, they usually do not have the mixture of rounded and pointed projections seen here. The two cells on the right are nearly the same size as the normal RBCs, therefore cannot be fragments. The lower left cell may have been turned on its side or folded during the smearing process. To view a photo of fragmented cells, see 2007 M2 Specimen BC-8. This challenge was graded by 89% referee consensus.

Specimen BC-5

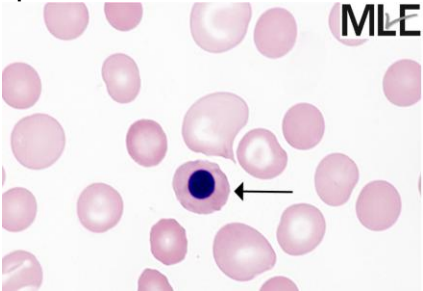


Identification	Labs	Percent	Performance
Macrocyte	317	99.37%	Acceptable

The arrows in this photograph point to **macrocytes**. Macrocytes are abnormally large red blood cells, and may be round or oval. Macrocytosis with an MCV ≥ 100 fL reflects the direct effect of alcohol on bone marrow as well as macrocytic anemia resulting from folate deficiency, which is common among undernourished patients. Normal red blood cells are about the same size as the nucleus of a small normal lymphocyte. The arrowed cells are much larger than the nucleus of the mature lymphocyte in the same field. To view another photo of macrocytes, see 2008 M3 Specimen BC-16.

BLOOD CELL IDENTIFICATION

Specimen BC-6



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Nucleated red cell	315	98.75%	Not graded

The arrows in this ungraded educational challenge point to **nucleated red blood cells** (NRBC). These immature RBCs are not seen in the peripheral blood of healthy adults. Their presence is a result of the bone marrow's releasing the needed RBCs into circulation before they are fully mature, in response to blood loss or decreased production. Mature RBCs eject their nuclei before they leave the bone marrow and enter the peripheral blood stream. To view another photo of NRBCs, see 2010 M1 Specimen BC-6.

References:

Centers for Disease Control and Prevention (CDC). (Updated July 20, 2010) *Alcohol & Public Health: Frequently Asked Questions*. Atlanta, GA: CDC. Available at: <http://www.cdc.gov/alcohol/faqs.htm#alcoholismAbuse>. Accessed Feb. 28, 2011.

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Shaffer, E.A. (June 2009) *Alcoholic Liver Disease*. The Merck Manuals Online Medical Library. Merck Sharp & Dohme Corp., Whitehouse Station, N.J. Copyright, 2004-2010. Available at: <http://www.merckmanuals.com/professional/sec03/ch025/ch025a.html>. Accessed March 1, 2011.

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BLOOD BANK

ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-1	Group O	10	100%	Acceptable
BB-2	Group A	10	100%	Acceptable
BB-3	Group B	10	100%	Acceptable
BB-4	Group AB	10	100%	Acceptable
BB-5	Group A	10	100%	Acceptable

RH FACTOR (D TYPE)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-1	Rh Positive	16	100%	Acceptable
BB-2	Rh Negative	16	100%	Acceptable
BB-3	Rh Negative	16	100%	Acceptable
BB-4	Rh Negative	16	100%	Acceptable
BB-5	Rh Positive	16	100%	Acceptable

UNEXPECTED ANTIBODY DETECTION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-1	No unexpected antibody detected	10	100%	Acceptable
AB-2	Unexpected antibody detected	10	100%	Acceptable
AB-3	Unexpected antibody detected	10	100%	Acceptable
AB-4	No unexpected antibody detected	10	100%	Acceptable
AB-5	No unexpected antibody detected	10	100%	Acceptable

BLOOD BANK

ANTIBODY IDENTIFICATION

No labs reported Antibody Identification. The vendor assay values for specimens AB-1 through AB-5 are: No antibody detected, Anti-Fy(a), Anti-D, No antibody detected, and No antibody detected, respectively.

COMPATIBILITY TESTING

<u><i>Specimen</i></u>	<u><i>Results</i></u>	<u><i>Labs</i></u>	<u><i>Percent</i></u>	<u><i>Performance</i></u>
AB-1	Compatible	7	100%	Acceptable
AB-2	Not Compatible	7	100%	Acceptable
AB-3	Not Compatible	7	100%	Acceptable
AB-4	Compatible	7	100%	Acceptable
AB-5	Compatible	6	85.71%	Not graded
	Not Compatible	1	14.29%	

Specimen AB-5 is an ungraded challenge due to less than 95% participant consensus.

PROTHROMBIN TIME (seconds)

Specimen CG-1							Specimen CG-2					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	89	33.72	6.30	18.7	31.2	28.6 - 38.8	87	11.29	0.82	7.3	11.2	9.5 - 13.0
Dade Innovin												
Sysmex CA-500	23	39.68	2.60	6.6	39.3	33.7 - 45.7	22	10.55	0.18	1.7	10.6	8.9 - 12.2
All Coagulation Instruments	29	39.71	2.41	6.1	39.9	33.7 - 45.7	28	10.50	0.31	3.0	10.5	8.9 - 12.1
IL TEST PT Fibrinogen												
IL ACL, all models	25	30.09	1.16	3.8	29.9	25.5 - 34.7	25	11.91	0.31	2.6	12.0	10.1 - 13.7
PH/CMS Thromboplastin-D												
All Coagulation Instruments	7	27.81	2.66	9.6	28.6	23.6 - 32.0	7	11.19	0.46	4.1	11.2	9.5 - 12.9
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	13	27.79	1.29	4.7	28.0	23.6 - 32.0	13	10.98	0.36	3.3	10.9	9.3 - 12.7
All Coagulation Instruments	16	27.68	1.27	4.6	28.0	23.5 - 31.9	16	11.07	0.43	3.9	11.0	9.4 - 12.8
Specimen CG-3							Specimen CG-4					
All Method	87	14.23	0.95	6.7	14.1	12.0 - 16.4	90	11.44	0.83	7.3	11.2	9.7 - 13.2
Dade Innovin												
Sysmex CA-500	23	13.95	0.36	2.5	13.9	11.8 - 16.1	23	10.91	0.30	2.7	10.9	9.2 - 12.6
All Coagulation Instruments	28	13.91	0.35	2.5	13.9	11.8 - 16.0	28	10.83	0.35	3.3	10.8	9.2 - 12.5
IL TEST PT Fibrinogen												
IL ACL, all models	25	14.80	0.35	2.4	14.8	12.5 - 17.1	25	12.04	0.28	2.3	12.0	10.2 - 13.9
PH/CMS Thromboplastin-D												
All Coagulation Instruments	7	13.76	0.80	5.8	13.4	11.6 - 15.9	7	10.70	0.36	3.3	10.6	9.0 - 12.4
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	12	13.63	0.73	5.4	13.6	11.5 - 15.7	13	11.02	0.40	3.7	10.9	9.3 - 12.7
All Coagulation Instruments	15	13.68	0.71	5.2	13.6	11.6 - 15.8	16	11.11	0.47	4.2	11.0	9.4 - 12.8
Specimen CG-5												
All Method	88	24.46	3.46	14.1	23.2	20.7 - 28.2						
Dade Innovin												
Sysmex CA-500	22	27.53	1.17	4.2	27.5	23.4 - 31.7						
All Coagulation Instruments	28	27.52	1.21	4.4	27.5	23.3 - 31.7						
IL TEST PT Fibrinogen												
IL ACL, all models	25	22.63	0.63	2.8	22.7	19.2 - 26.1						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	7	20.94	0.81	3.9	21.4	17.8 - 24.1						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	13	21.51	0.68	3.1	21.3	18.2 - 24.8						
All Coagulation Instruments	16	21.36	0.74	3.5	21.3	18.1 - 24.6						

PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)

<u>Reagent/Instrument</u>	Specimen CG-1						Specimen CG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	4.69	0.73	15.6	4.6	2.4 - 6.9	93	1.00	0.07	6.9	1.0	0.7 - 1.3
Dade Innovin												
Sysmex CA-500	22	3.98	0.22	5.6	4.0	3.3 - 4.7	23	1.03	0.05	4.6	1.0	0.8 - 1.2
All Coagulation Instruments	28	3.98	0.24	6.0	4.0	3.2 - 4.7	29	1.03	0.05	4.6	1.0	0.8 - 1.2
IL TEST PT Fibrinogen												
IL ACL, all models	24	5.10	0.32	6.2	5.1	4.1 - 6.1	25	1.00	0.07	7.1	1.0	0.7 - 1.3
PH/CMS Thromboplastin-D												
All Coagulation Instruments	8	5.58	1.06	19.0	6.0	2.3 - 8.8	8	1.01	0.08	8.2	1.0	0.7 - 1.3
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	13	4.60	0.47	10.2	4.5	3.1 - 6.1	13	0.93	0.05	5.2	0.9	0.7 - 1.1
All Coagulation Instruments	16	4.54	0.45	9.9	4.5	3.1 - 5.9	16	0.94	0.06	6.6	0.9	0.7 - 1.2
<u>Reagent/Instrument</u>	Specimen CG-3						Specimen CG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	1.39	0.11	7.6	1.4	1.0 - 1.8	93	1.01	0.08	7.7	1.0	0.7 - 1.3
Dade Innovin												
Sysmex CA-500	23	1.37	0.06	4.6	1.4	1.1 - 1.6	23	1.06	0.05	4.7	1.1	0.9 - 1.3
All Coagulation Instruments	29	1.37	0.06	4.3	1.4	1.1 - 1.6	29	1.06	0.05	4.6	1.1	0.9 - 1.3
IL TEST PT Fibrinogen												
IL ACL, all models	25	1.47	0.08	5.7	1.5	1.2 - 1.8	25	1.02	0.06	5.8	1.0	0.8 - 1.3
PH/CMS Thromboplastin-D												
All Coagulation Instruments	8	1.46	0.21	14.1	1.5	0.8 - 2.1	8	0.95	0.05	5.6	1.0	0.7 - 1.2
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	12	1.34	0.13	9.8	1.3	0.9 - 1.8	13	0.92	0.07	7.9	0.9	0.7 - 1.2
All Coagulation Instruments	15	1.33	0.12	9.3	1.3	0.9 - 1.8	16	0.93	0.07	7.4	0.9	0.7 - 1.2
<u>Reagent/Instrument</u>	Specimen CG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	93	2.96	0.27	9.2	2.9	2.1 - 3.8						
Dade Innovin												
Sysmex CA-500	22	2.74	0.11	4.0	2.7	2.4 - 3.1						
All Coagulation Instruments	28	2.75	0.12	4.4	2.7	2.3 - 3.2						
IL TEST PT Fibrinogen												
IL ACL, all models	25	3.10	0.22	7.0	3.1	2.4 - 3.8						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	8	3.28	0.33	10.2	3.4	2.2 - 4.3						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	13	2.96	0.23	7.7	2.9	2.2 - 3.7						
All Coagulation Instruments	16	2.89	0.25	8.8	2.9	2.1 - 3.7						

ACTIVATED PARTIAL THROMBOPLASTIN (seconds)

<u>Reagent/Instrument</u>	Specimen CG-1						Specimen CG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	63.1	4.6	7.4	62	53 - 73	32	29.5	1.2	4.0	29	25 - 34
Dade Actin FSL												
Sysmex CA-500	15	63.6	4.3	6.7	63	54 - 74	15	29.9	1.5	5.0	29	25 - 35
IL TEST APTT-SP												
IL ACL, all models	12	60.0	2.2	3.6	60	51 - 69	12	29.0	1.3	4.4	29	24 - 34
	Specimen CG-3						Specimen CG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	39.8	3.5	8.8	40	33 - 46	34	26.9	2.0	7.4	27	22 - 31
Dade Actin FSL												
Sysmex CA-500	15	37.1	2.2	5.9	37	31 - 43	15	28.7	1.1	3.9	28	24 - 33
IL TEST APTT-SP												
IL ACL, all models	12	43.3	1.8	4.1	44	36 - 50	12	25.6	1.0	3.9	26	21 - 30
	Specimen CG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	33	55.3	4.6	8.3	54	47 - 64						
Dade Actin FSL												
Sysmex CA-500	15	56.5	3.9	6.8	56	47 - 65						
IL TEST APTT-SP												
IL ACL, all models	12	52.0	1.8	3.4	52	44 - 60						

Fibrinogen (mg/dL)

One participant reported Fibrinogen. The vendor assay values for specimens CG-1 through CG-5 are: 367 mg/dL, 534 mg/dL, 117 mg/dL, 347 mg/dL and 284 mg/dL respectively.

RH FACTOR (Slide Method)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
RH-1	Rh Positive	1	100%	Acceptable
RH-2	Rh Negative	1	100%	Acceptable
RH-3	Rh Negative	1	100%	Acceptable
RH-4	Rh Positive	1	100%	Acceptable
RH-5	Rh Positive	1	100%	Acceptable

COAGUCHEK XS PLUS PROTHROMBIN TIME (seconds)

Specimen XS-1							Specimen XS-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	14	15.38	0.51	3.3	15.3	13.0 - 17.7	14	24.31	1.20	4.9	24.4	20.6 - 28.0
Specimen XS-3							Specimen XS-4					
Roche CoaguChek XS Plus	14	34.94	1.27	3.6	35.5	29.7 - 40.2	13	15.26	0.65	4.3	15.1	12.9 - 17.6
Specimen XS-5												
Roche CoaguChek XS Plus	13	35.14	1.59	4.5	35.6	29.8 - 40.5						

COAGUCHEK XS PLUS PROTHROMBIN TIME-INTERNATIONAL NORMALIZED RATIO (INR)

Specimen XS-1							Specimen XS-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	21	1.29	0.06	4.5	1.3	1.1 - 1.5	21	2.04	0.09	4.2	2.0	1.7 - 2.3
Specimen XS-3							Specimen XS-4					
Roche CoaguChek XS Plus	21	2.93	0.10	3.4	3.0	2.6 - 3.3	20	1.28	0.07	5.4	1.3	1.0 - 1.5
Specimen XS-5												
Roche CoaguChek XS Plus	20	2.94	0.13	4.3	3.0	2.5 - 3.4						

ITC PROTIME MICROCOAGULATION SYSTEM PROTHROMBIN TIME (seconds)

Specimen IT-1							Specimen IT-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	-	30	32.12	3.92	12.2	32.6	20.3 - 43.9
ITC ProTime System - 3 Channel	-	-	-	-	-	-	21	33.72	3.18	9.4	33.9	24.1 - 43.3

Due to a manufacturing issue, no IT-1 sample was shipped in the MLE 2011 M1 testing event.

ITC PROTIME MICROCOAGULATION SYSTEM -INTERNATIONAL NORMALIZED RATIO (INR)

Specimen IT-1							Specimen IT-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	-	-	-	-	-	-	39	2.43	0.24	9.8	2.4	1.7 - 3.2
ITC ProTime System - 3 Channel	-	-	-	-	-	-	23	2.60	0.24	9.3	2.6	1.8 - 3.4
ITC ProTime System - 5 Channel	-	-	-	-	-	-	14	2.24	0.18	8.0	2.3	1.7 - 2.8

Due to a manufacturing issue, no IT-1 sample was shipped in the MLE 2011 M1 testing event.

i-Stat PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-1				Specimen PTI-2					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	13.10	0.89	6.8	13.3	11.1 - 15.1	11	30.85	1.74	5.6	31.0	26.2 - 35.5
			Specimen PTI-3				Specimen PTI-4					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	13.20	0.86	6.5	13.2	11.2 - 15.2	11	30.53	1.78	5.8	29.8	25.9 - 35.2
			Specimen PTI-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	12.97	0.89	6.8	12.9	11.0 - 15.0						

i-Stat PROTHROMBIN TIME - INTERNATIONAL NORMALIZED RATIO (INR)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-1				Specimen PTI-12					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	1.09	0.07	6.4	1.1	0.8 - 1.4	11	2.69	0.16	5.9	2.7	2.2 - 3.2
			Specimen PTI-3				Specimen PTI-4					
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	1.11	0.08	7.5	1.1	0.8 - 1.4	11	2.66	0.18	6.8	2.6	2.1 - 3.3
			Specimen PTI-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	1.09	0.07	6.4	1.1	0.8 - 1.4						

FLUID CELL COUNT/CRYSTALS – WHITE BLOOD CELL COUNT (uL)

<u>Instrument</u>	Specimen BF-1						Specimen BF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	0.0	0.0	0.0	0	0 - 0	6	52.3	28.2	54.0	65	0 - 138

FLUID CELL COUNT/CRYSTALS – RED BLOOD CELL COUNT (uL)

<u>Instrument</u>	Specimen BF-1						Specimen BF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	0.0	0.0	0.0	0	0 - 0	5	78.0	7.0	8.9	78	57 - 99

FLUID CELL COUNT/CRYSTALS – CRYSTAL IDENTIFICATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BF-1	Cholesterol crystals	11	78.57%	Not graded
BF-2	No crystals observed	11	78.57%	Not graded

Specimens BF-1 and BF-2 are ungraded due to lack of 80% participant consensus.

MICROALBUMIN, DIPSTICK

Specimen UM-1

<u>Method</u>	Participant Results							
	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L(Pos)</u>	<u>20/30 mg/L</u>	<u>50 mg/L (+)</u>	<u>80 mg/L</u>	<u>100 mg/L (++)</u>	<u>150 mg/L</u>
ALL METHODS	42	1	2	26	10	3	-	-
Bayer Clinitek Microalbumin	31	-	2	26	-	3	-	-
Roche Micral - 1 minute	11	1	-	-	10	-	-	-

CREATININE, DIPSTICK

Specimen UM-1

<u>Method</u>	Participant Results							
	<u>Labs</u>	<u>Negative</u>	<u>10 mg/dL</u>	<u>30 mg/dL</u>	<u>50 mg/dL</u>	<u>100 mg/dL</u>	<u>200 mg/dL</u>	<u>300 mg/dL</u>
ALL METHODS	31	-	-	-	-	-	2	29
Bayer Clinitek Microalbumin	29	-	-	-	-	-	1	28
Bayer Multistix Pro	2	-	-	-	-	-	1	1

MICROALBUMIN, QUANTITATIVE

Specimen UM-1

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	43.6	4.6	10.6	43	29 - 58
Axis-Shield Afinion AS100	12	35.5	5.7	16.0	37	18 - 53
Bayer DCA 2000(+)	15	40.8	2.7	6.6	41	32 - 49
Dade Dimension/AR/ES/RxL/Xpand	22	47.1	1.5	3.2	47	42 - 52
Siemens DCA Vantage	16	41.9	2.2	5.4	43	35 - 49

CREATININE, URINE (mg/dL)

Specimen UM-1

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	225.9	16.2	7.2	227	177 - 275
Axis-Shield Afinion AS100	13	217.0	15.4	7.1	215	170 - 264
Bayer DCA 2000(+)	15	232.7	7.0	3.0	232	211 - 254
Dade Dimension/AR/ES/RxL/Xpand	20	213.5	12.0	5.6	214	177 - 250
Siemens DCA Vantage	18	234.9	9.3	4.0	234	207 - 263

CREATININE, URINE (mmol/L)

Three participants reported Creatinine. The Vendor Assay for specimen UM-1 is 21.8 mmol/L.

WAIVED HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen HD-1

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	10.15	0.75	7.4	10.0	7.9 - 12.4
HemoCue	60	9.89	0.34	3.4	9.9	8.8 - 11.0
ITC Hemoglobin Pro	15	11.14	1.05	9.4	11.3	7.9 - 14.3

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
87	13.88	1.04	7.5	14.0	10.7 - 17.1
60	13.90	0.48	3.5	13.9	12.4 - 15.4
14	15.11	0.61	4.0	15.0	13.2 - 17.0

WAIVED HEMATOLOGY–HEMATOCRIT (percent)

Specimen HD-1

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	28.60	2.33	8.2	28.0	21.5 - 35.6
All Microhematocrit Methods	19	28.54	2.38	8.3	28.0	21.3 - 35.7
Microhematocrit	10	28.42	2.58	9.1	28.0	20.6 - 36.2

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
21	41.60	3.86	9.3	40.8	30.0 - 53.2
20	41.65	3.96	9.5	41.0	29.7 - 53.6
10	40.49	3.25	8.0	40.5	30.7 - 50.3

KOH SKIN PREPARATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
K-1	Yeast/fungal elements present	184	96.84%	Acceptable
	Yeast/fungal elements absent	6	3.16%	

Organism present in specimen K-1: *Epidermophyton floccosum*.

K-2	Yeast/fungal elements abesent	180	94.74%	Acceptable
	Yeast/fungal elements present	10	5.26%	

Organism present in specimen K-2: *Corynebacterium pseudodiphtheriticum*.

URINALYSIS DIPSTICK–SPECIFIC GRAVITY

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1082	1.0137	0.0046	0.5	1.015	1.003 - 1.024
All PSS Select Methods	14	1.0214	0.0024	0.2	1.020	1.011 - 1.032
All Refractive Index Methods	12	1.0114	0.0014	0.1	1.012	1.001 - 1.022
Bayer Clinitek 10 / 100	29	1.0155	0.0033	0.3	1.015	1.005 - 1.026
Bayer Clinitek 50	128	1.0111	0.0024	0.2	1.010	1.001 - 1.022
Bayer Clinitek 500	21	1.0150	0.0045	0.4	1.015	1.005 - 1.025
Bayer Clinitek Advantus	18	1.0139	0.0040	0.4	1.015	1.003 - 1.024
Bayer Clinitek Status / Status+	325	1.0172	0.0029	0.3	1.015	1.007 - 1.028
Bayer Reagent Strips	306	1.0120	0.0033	0.3	1.010	1.002 - 1.023
Diagnostic Test Group Clarity Urocheck	18	1.0133	0.0024	0.2	1.015	1.003 - 1.024
Other Dipstick Method	20	1.0198	0.0034	0.3	1.020	1.009 - 1.030
Roche Chemstrip 101	15	1.0093	0.0032	0.3	1.010	0.999 - 1.020
Roche Chemstrips	61	1.0077	0.0033	0.3	1.010	0.997 - 1.018
Roche Criterion Analyzer	21	1.0100	0.0035	0.4	1.010	1.000 - 1.020
Roche Urisys	41	1.0087	0.0035	0.3	1.010	0.998 - 1.019

URINALYSIS DIPSTICK–pH

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>3.5 or less</u>	<u>4.0</u>	<u>4.5</u>	<u>5.0</u>	<u>5.5</u>	<u>6.0</u>	<u>6.5</u>	<u>7.0</u>	<u>7.5</u>	<u>8.0</u>	<u>8.5</u>	<u>9.0</u>
ALL METHODS	1135	-	-	-	19	4	29	45	817	194	27	-	-
Bayer Clinitek 10 / 100	29	-	-	-	1	-	-	-	17	11	-	-	-
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	-	-	1	-	-	-
Bayer Clinitek 50	132	-	-	-	-	1	-	4	126	1	-	-	-
Bayer Clinitek 500	22	-	-	-	-	-	-	3	13	6	-	-	-
Bayer Clinitek Advantus	18	-	-	-	-	-	1	-	11	6	-	-	-
Bayer Clinitek Atlas	4	-	-	-	-	-	-	-	3	1	-	-	-
Bayer Clinitek Status / Status+	327	-	-	-	-	2	3	9	312	1	-	-	-
Bayer Hemacombistix	1	-	-	-	-	-	-	-	1	-	-	-	-
Bayer Multistix Pro	3	-	-	-	-	-	-	-	2	1	-	-	-
Bayer Reagent Strips	334	-	-	-	9	1	19	16	137	151	1	-	-
Bayer Uristix	1	-	-	-	-	-	-	-	1	-	-	-	-
Consult Diagnostics Urine Analyzer	5	-	-	-	1	-	-	2	2	-	-	-	-
Diagnostic Test Group Clarity Urocheck	18	-	-	-	1	-	-	1	16	-	-	-	-
Germaine Laboratories AimStrip	2	-	-	-	-	-	-	-	2	-	-	-	-
Hypoguard DiaScreen	10	-	-	-	1	-	-	-	9	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	-	-	-	1	-	-	-	-
Other Analyzer Method	4	-	-	-	-	-	-	2	2	-	-	-	-
Other Dipstick Method	21	-	-	-	1	-	3	1	13	3	-	-	-
pH Paper	1	-	-	-	-	-	-	-	1	-	-	-	-
PSS Select Reagent Strips	9	-	-	-	1	-	-	1	7	-	-	-	-
PSS Select Urine Analyzer	7	-	-	-	-	-	-	4	3	-	-	-	-
Roche Chemstrip 101	15	-	-	-	-	-	-	-	12	2	1	-	-
Roche Chemstrips	78	-	-	-	1	-	-	1	54	8	14	-	-
Roche Criterion Analyzer	20	-	-	-	-	-	-	-	15	-	5	-	-
Roche SuperUA/ChemstripUA	5	-	-	-	-	-	-	-	4	1	-	-	-
Roche Urisys	43	-	-	-	-	-	-	-	39	-	4	-	-
Schein Urispec	8	-	-	-	1	-	1	-	6	-	-	-	-
UriScan Reagent Strips	2	-	-	-	1	-	-	-	-	1	-	-	-

URINALYSIS DIPSTICK–PROTEIN QUALITATIVE

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<i>Participant Results</i>				
				<u>30</u> <u>mg/dL</u> <u>(1+)</u>	<u>100</u> <u>mg/dL</u> <u>(2+)</u>	<u>300-500</u> <u>mg/dL</u> <u>(3+)</u>	<u>≥300</u> <u>mg/dL</u>	<u>≥1000</u> <u>mg/dL</u> <u>(4+)</u>
ALL METHODS	1155	413	680	60	2	-	-	-
Bayer Albustix	1	-	1	-	-	-	-	-
Bayer Clinitek 10 / 100	29	22	6	1	-	-	-	-
Bayer Clinitek 200/200+	1	-	1	-	-	-	-	-
Bayer Clinitek 50	131	30	94	7	-	-	-	-
Bayer Clinitek 500	22	21	1	-	-	-	-	-
Bayer Clinitek Advantus	18	16	1	1	-	-	-	-
Bayer Clinitek Atlas	4	4	-	-	-	-	-	-
Bayer Clinitek Status / Status+	325	66	230	29	-	-	-	-
Bayer Hemacombistix	1	-	1	-	-	-	-	-
Bayer Multistix Pro	3	-	3	-	-	-	-	-
Bayer Reagent Strips	336	90	236	9	1	-	-	-
Bayer Uristix	5	2	3	-	-	-	-	-
Consult Diagnostics Urine Analyzer	5	3	2	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	18	8	8	2	-	-	-	-
Germaine Laboratories AimStrip	2	1	1	-	-	-	-	-
Hypoguard DiaScreen	10	5	4	1	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-	-	-
Other Analyzer Method	4	3	1	-	-	-	-	-
Other Dipstick Method	21	9	11	1	-	-	-	-
PSS Select Reagent Strips	9	4	4	1	-	-	-	-
PSS Select Urine Analyzer	7	7	-	-	-	-	-	-
Roche Chemstrip 101	15	11	4	-	-	-	-	-
Roche Chemstrips	93	35	54	3	1	-	-	-
Roche Criterion Analyzer	20	18	2	-	-	-	-	-
Roche SuperUA/ChemstripUA	5	1	3	1	-	-	-	-
Roche Urisys	43	39	3	1	-	-	-	-
Schein Urispec	8	6	1	1	-	-	-	-
Sulfosalicylic Acid	2	1	-	1	-	-	-	-
UriScan Reagent Strips	2	2	-	-	-	-	-	-

Specimen UA-1 is an ungraded challenge due to less than 80% participant consensus.

URINALYSIS DIPSTICK–GLUCOSE

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<i>Participant Results</i>						
			<u>50-100 mg/dL (Trace)</u>	<u>150 mg/dL</u>	<u>250 mg/dL</u>	<u>500 mg/dL</u>	<u>1000 mg/dL</u>	<u>>1000 mg/dL</u>	<u>≥2000 mg/dL</u>
ALL METHODS	1155	52	872	42	178	9	2	-	-
Bayer Clinitek 10 / 100	29	6	22	-	1	-	-	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-	-	-	-
Bayer Clinitek 50	132	1	87	2	42	-	-	-	-
Bayer Clinitek 500	20	-	19	-	1	-	-	-	-
Bayer Clinitek Advantus	18	-	14	-	4	-	-	-	-
Bayer Clinitek Atlas	4	-	3	-	1	-	-	-	-
Bayer Clinitek Status / Status+	327	6	310	4	6	-	1	-	-
Bayer Clinitest, 5 drop	2	-	1	-	1	-	-	-	-
Bayer Hemacombistix	1	-	1	-	-	-	-	-	-
Bayer Multistix Pro	3	-	3	-	-	-	-	-	-
Bayer Reagent Strips	334	22	254	6	50	1	1	-	-
Bayer Uristix	5	-	5	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	5	-	2	1	1	1	-	-	-
Diagnostic Test Group Clarity Urocheck	19	6	12	-	1	-	-	-	-
Germaine Laboratories AimStrip	2	-	1	1	-	-	-	-	-
Hypoguard DiaScreen	10	1	6	-	3	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	1	-	-	-	-	-	-
Other Analyzer Method	4	1	2	1	-	-	-	-	-
Other Dipstick Method	21	3	14	-	4	-	-	-	-
PSS Select Reagent Strips	9	2	1	-	6	-	-	-	-
PSS Select Urine Analyzer	7	-	2	-	5	-	-	-	-
Roche Chemstrip 101	15	-	8	5	2	-	-	-	-
Roche Chemstrips	93	1	46	7	35	4	-	-	-
Roche Criterion Analyzer	20	-	16	4	-	-	-	-	-
Roche SuperUA/ChemstripUA	5	-	1	1	3	-	-	-	-
Roche Urisys	42	-	28	7	7	-	-	-	-
Schein Urispec	8	-	2	3	-	3	-	-	-
UriScan Reagent Strips	2	-	1	-	1	-	-	-	-

URINALYSIS DIPSTICK–KETONES

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<i>Participant Results</i>						
		<u>Negative</u>	<u>Trace</u> <u>(5 mg/dL)</u>	<u>Small</u> <u>(1+, 15</u> <u>mg/dL)</u>	<u>Moderate</u> <u>(2+, 40</u> <u>mg/dL)</u>	<u>Large</u> <u>(3+, 80</u> <u>mg/dL)</u>	<u>150</u> <u>mg/dL</u>	<u>≥ 160 mg/dL</u>
ALL METHODS	1126	5	31	869	205	13	-	3
Bayer Acetest	1	-	-	1	-	-	-	-
Bayer Clinitek 10 / 100	29	-	3	24	2	-	-	-
Bayer Clinitek 200/200+	2	-	-	1	1	-	-	-
Bayer Clinitek 50	132	-	2	130	-	-	-	-
Bayer Clinitek 500	21	-	2	19	-	-	-	-
Bayer Clinitek Advantus	18	-	-	17	1	-	-	-
Bayer Clinitek Atlas	4	-	-	4	-	-	-	-
Bayer Clinitek Status / Status+	327	-	6	315	6	-	-	-
Bayer Ketostix	1	-	-	1	-	-	-	-
Bayer Multistix Pro	3	-	-	3	-	-	-	-
Bayer Reagent Strips	329	2	4	184	127	9	-	3
Bayer Uristix	1	-	-	1	-	-	-	-
Consult Diagnostics Urine Analyzer	5	-	-	3	2	-	-	-
Diagnostic Test Group Clarity Urocheck	18	-	6	10	2	-	-	-
Germaine Laboratories AimStrip	2	-	1	1	-	-	-	-
Hypoguard DiaScreen	9	2	2	4	1	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	1	-	-	-	-
Other Analyzer Method	4	1	1	2	-	-	-	-
Other Dipstick Method	21	-	-	3	17	1	-	-
PSS Select Reagent Strips	8	-	-	5	2	1	-	-
PSS Select Urine Analyzer	7	-	-	6	1	-	-	-
Roche Chemstrip 101	15	-	-	9	6	-	-	-
Roche Chemstrips	75	-	1	44	30	-	-	-
Roche Criterion Analyzer	20	-	1	19	-	-	-	-
Roche SuperUA/ChemstripUA	5	-	-	3	1	1	-	-
Roche Urisys	43	-	-	41	2	-	-	-
Schein Urispec	8	-	1	6	-	1	-	-
UriScan Reagent Strips	1	-	-	1	-	-	-	-

URINALYSIS DIPSTICK–BILIRUBIN

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<i>Participant Results</i>		
			<i>Small (1+)</i>	<i>Moderate (2+)</i>	<i>Large (3+)</i>
ALL METHODS	1076	1070	3	2	1
Bayer Clinitek 10 / 100	29	28	1	-	-
Bayer Clinitek 200/200+	1	1	-	-	-
Bayer Clinitek 50	129	129	-	-	-
Bayer Clinitek 500	20	20	-	-	-
Bayer Clinitek Advantus	15	15	-	-	-
Bayer Clinitek Atlas	4	4	-	-	-
Bayer Clinitek Status / Status+	310	310	-	-	-
Bayer Ictotest	3	3	-	-	-
Bayer Multistix Pro	2	2	-	-	-
Bayer Reagent Strips	316	312	2	1	1
Bayer Uristix	1	1	-	-	-
Consult Diagnostics Urine Analyzer	5	5	-	-	-
Diagnostic Test Group Clarity Urocheck	17	17	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-
Hypoguard DiaScreen	8	7	-	1	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-
Other Analyzer Method	4	4	-	-	-
Other Dipstick Method	21	21	-	-	-
PSS Select Reagent Strips	8	8	-	-	-
PSS Select Urine Analyzer	7	7	-	-	-
Roche Chemstrip 101	15	15	-	-	-
Roche Chemstrips	70	70	-	-	-
Roche Criterion Analyzer	19	19	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-
Roche Urisys	42	42	-	-	-
Schein Urispec	8	8	-	-	-
UriScan Reagent Strips	1	1	-	-	-

URINALYSIS DIPSTICK–UROBILINOGEN

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>0.2/Normal mg/dL</u>	<u>1.0 mg/dL</u>	<u>2.0 mg/dL</u>	<u>4.0 mg/dL</u>	<u>>8.0 mg/dL</u>
ALL METHODS	1039	629	405	2	-	3
Bayer Clinitek 10 / 100	26	12	14	-	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-
Bayer Clinitek 50	129	79	50	-	-	-
Bayer Clinitek 500	15	11	4	-	-	-
Bayer Clinitek Advantus	14	14	-	-	-	-
Bayer Clinitek Atlas	3	-	3	-	-	-
Bayer Clinitek Status / Status+	312	38	272	-	-	2
Bayer Multistix Pro	2	1	1	-	-	-
Bayer Reagent Strips	299	242	54	2	-	1
Bayer Uristix	1	1	-	-	-	-
Consult Diagnostics Urine Analyzer	5	5	-	-	-	-
Diagnostic Test Group Clarity Urocheck	16	14	2	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-
Hypoguard DiaScreen	8	8	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
Other Analyzer Method	4	4	-	-	-	-
Other Dipstick Method	10	10	-	-	-	-
PSS Select Reagent Strips	8	8	-	-	-	-
PSS Select Urine Analyzer	7	7	-	-	-	-
Roche Chemstrip 101	15	15	-	-	-	-
Roche Chemstrips	70	70	-	-	-	-
Roche Criterion Analyzer	20	20	-	-	-	-
Roche SuperUA/ChemstripUA	5	5	-	-	-	-
Roche Urisys	42	41	1	-	-	-
Schein Urispec	7	7	-	-	-	-
UriScan Reagent Strips	1	1	-	-	-	-

URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN

Specimen UA-1

<u>Method</u>	<i>Participant Results</i>					
	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<i>Small (5-10 RBC/μL, 1+)</i>	<i>Moderate (50 RBC/μL, 2+)</i>	<i>Large (250 RBC/μL, 3+)</i>
ALL METHODS	1143	1098	39	5	-	1
Bayer Clinitek 10 / 100	29	29	-	-	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-
Bayer Clinitek 50	132	132	-	-	-	-
Bayer Clinitek 500	22	22	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-
Bayer Clinitek Atlas	4	4	-	-	-	-
Bayer Clinitek Status / Status+	327	307	18	2	-	-
Bayer Hemacombistix	1	1	-	-	-	-
Bayer Multistix Pro	3	3	-	-	-	-
Bayer Reagent Strips	332	315	15	1	-	1
Bayer Uristix	1	1	-	-	-	-
Consult Diagnostics Urine Analyzer	5	5	-	-	-	-
Diagnostic Test Group Clarity Urocheck	18	18	-	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-
Hypoguard DiaScreen	10	9	1	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
Other Analyzer Method	4	4	-	-	-	-
Other Dipstick Method	21	20	1	-	-	-
PSS Select Reagent Strips	9	9	-	-	-	-
PSS Select Urine Analyzer	7	7	-	-	-	-
Roche Chemstrip 101	15	15	-	-	-	-
Roche Chemstrips	90	86	4	-	-	-
Roche Criterion Analyzer	20	20	-	-	-	-
Roche SuperUA/ChemstripUA	5	4	-	1	-	-
Roche Urisys	42	42	-	-	-	-
Schein Urispec	8	7	-	1	-	-
UriScan Reagent Strips	2	2	-	-	-	-

URINALYSIS DIPSTICK--LEUKOCYTE ESTERASE

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small (1+)</u>	<u>Moderate (2+)</u>	<u>Large (3+)</u>
ALL METHODS	1132	73	336	560	127	36
Bayer Clinitek 10 / 100	29	3	11	13	2	-
Bayer Clinitek 200/200+	1	1	-	-	-	-
Bayer Clinitek 50	132	1	83	48	-	-
Bayer Clinitek 500	22	2	15	5	-	-
Bayer Clinitek Advantus	18	-	13	4	1	-
Bayer Clinitek Atlas	4	-	1	3	-	-
Bayer Clinitek Status / Status+	327	7	117	201	2	-
Bayer Multistix Pro	3	1	1	1	-	-
Bayer Reagent Strips	325	28	69	184	41	3
Bayer Uristix	3	-	1	2	-	-
Consult Diagnostics Urine Analyzer	5	1	-	1	3	-
Diagnostic Test Group Clarity Urocheck	17	11	6	-	-	-
Germaine Laboratories AimStrip	2	1	-	-	1	-
Hypoguard DiaScreen	8	2	-	1	2	3
Iris Diagnostics vChem Urine Strips	1	-	-	-	1	-
Other Analyzer Method	4	2	-	-	1	1
Other Dipstick Method	21	9	7	3	1	1
PSS Select Reagent Strips	9	-	-	3	3	3
PSS Select Urine Analyzer	7	-	-	3	4	-
Roche Chemstrip 101	15	-	-	7	7	1
Roche Chemstrips	87	2	6	45	28	6
Roche Criterion Analyzer	20	-	-	13	5	2
Roche SuperUA/ChemstripUA	5	-	-	-	4	1
Roche Urisys	43	-	1	12	17	13
Schein Urispec	7	1	2	3	1	-
UriScan Reagent Strips	2	-	-	1	1	-

URINALYSIS DIPSTICK–NITRITE

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1132	1126	6
Bayer Clinitek 10 / 100	28	28	-
Bayer Clinitek 50	131	130	1
Bayer Clinitek 500	21	21	-
Bayer Clinitek Advantus	18	18	-
Bayer Clinitek Atlas	5	5	-
Bayer Clinitek Status / Status+	324	323	1
Bayer Multistix Pro	3	3	-
Bayer Reagent Strips	326	324	2
Bayer Uristix	3	3	-
Consult Diagnostics Urine Analyzer	5	5	-
Diagnostic Test Group Clarity Urocheck	18	18	-
Germaine Laboratories AimStrip	2	2	-
Hypoguard DiaScreen	8	6	2
Iris Diagnostics vChem Urine Strips	1	1	-
Other Analyzer Method	4	4	-
Other Dipstick Method	21	21	-
PSS Select Reagent Strips	9	9	-
PSS Select Urine Analyzer	7	7	-
Roche Chemstrip 101	15	15	-
Roche Chemstrips	88	88	-
Roche Criterion Analyzer	19	19	-
Roche SuperUA/ChemstripUA	5	5	-
Roche Urisys	43	43	-
Schein Urispec	8	8	-
UriScan Reagent Strips	2	2	-

URINALYSIS –MICROALBUMIN (dipstick only)

Specimen UA-1

<i>Participant Results</i>								
<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L(Pos)</u>	<u>20/30 mg/L</u>	<u>50 mg/L (+)</u>	<u>80 mg/L</u>	<u>100 mg/L (++)</u>	<u>150 mg/L</u>
ALL METHODS	105	35	3	12	2	46	5	2
Bayer Clinitek Microalbumin	55	3	1	2	1	46	-	2
DCL ImmunoDip	1	1	-	-	-	-	-	-
Micro-Bumintest	5	-	-	-	1	-	4	-
Roche Micral - 1 minute	42	30	1	10	-	-	1	-

URINALYSIS –URINE hCG

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	610	610	-
Alfa Scientific Instant View	3	3	-
Bayer Clinitek Status / Status+	3	3	-
Beckman Coulter ICON 25 hCG	44	44	-
Cardinal Health SP Brand combo	26	26	-
Cardinal Hlth SPBrand-cassette	5	5	-
CONSULT diagnostics hCG Cassette	38	38	-
CONSULT diagnostics hCG Combo	17	17	-
CONSULT diagnostics hCG Dipstick	14	14	-
Diagnostic Test Group Clarity hCG Combo	2	2	-
Diagnostic Test Group Clarity hCG strip/cassette	8	8	-
Genzyme OSOM - Urine Test	8	8	-
Genzyme OSOM Card Pregnancy	23	23	-
Genzyme OSOM hCG Combo Test	14	14	-
Germaine Laboratories AimStrip	1	1	-
Henry Schein One Step	31	31	-
Immunostics Cept-D	1	1	-
Immunostics Detector Combi	1	1	-
Immunostics hCG Detector-urine	16	16	-
Inverness Acceava hCG Combo / II	1	1	-
Inverness Acceva hCG-Urine	4	4	-
Inverness Clearview 25 hCG Combo	10	10	-
Inverness Clearview hCG Cassette	13	13	-
Inverness Clearview hCG Combo II	10	10	-
LifeSign Status hCG	3	3	-
McKesson hCG Combo Cassette	18	18	-
McKesson hCG Urine Cassette	21	21	-
McKesson urine hCG - all 20 mIU kits	8	8	-
Meridian ImmunoCard STAT!	1	1	-
PEP (Lab Supply) HCG	4	4	-

URINALYSIS –URINE hCG cont'd

Specimen UA-1

<i>Participant Results</i>			
<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Permaxim Rediscreen	3	3	-
Polymedco Poly stat hCG	14	14	-
PSS Select hCG Cassette	4	4	-
PSS Select hCG Combo	1	1	-
PSS Select hCG Dipstick	1	1	-
Quidel QuickVue One-Step Combo	46	46	-
Quidel QuickVue One-Step Urine	114	114	-
Quidel QuickVue+ One-Step Combo	18	18	-
Quidel RapidVue	1	1	-
Stanbio QuPID	10	10	-
Stanbio QuPID Plus	2	2	-
Stanbio QuStick	1	1	-
Stanbio TRUE hCG	9	9	-
Sure-Vue hCG - 25mIU	4	4	-
Sure-Vue hCG-STAT	3	3	-

FECAL OCCULT BLOOD

<u>Method</u>	Specimen OC-1			Specimen OC-2		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	523	504	19	520	7	513
Beckman Coulter Hemoccult ICT	42	41	1	40	-	40
Guiaac (slide) Test	372	368	4	371	6	365
Hemosure iFOB	27	24	3	27	-	27
Inverness Clearview iFOBT Complete	19	10	9	19	-	19
Other Immunochemical FOB kit	16	15	1	16	-	16
Polymedco OC Auto Micro 80	7	7	-	7	-	7
Polymedco OC-Light iFOB	21	21	-	21	-	21
Quidel QuickVue iFOB	8	8	-	8	-	8
Wampole Clearview Ultra FOBT	4	4	-	4	-	4

URINE SEDIMENT IDENTIFICATION

2011 M1
Urine Sediment ID
Specimens US-1 and US-2

CASE HISTORY:
A 50-year-old female presented to her physician with urinary irritation and burning. She also complained of frequent urination, especially during the night. A routine urinalysis was performed, and the results appear below.

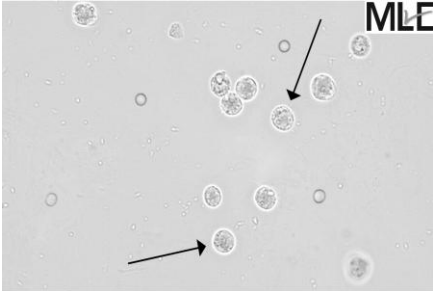
Color = Yellow
Appearance = Hazy

Dipstick results:
Specific gravity = 1.030
pH = 8.0
Blood = Moderate (2+)
Leukocyte esterase = Large (3+)
Protein, glucose, ketones, bilirubin, urobilinogen = Negative
Nitrite = Positive

This patient was diagnosed with cystitis (inflammation of the bladder.) Most urinary tract infections (UTI) begin in the lower urethra due to fecal contamination. UTIs are most common in women due to the close proximity of the urethra to the anus. Normally there are no bacteria in the urinary tract, so microorganisms that enter the urethra have no normal flora to compete with. They multiply rapidly and ascend toward the bladder and kidneys. The classic symptoms of UTI include frequent, painful, difficult urination, or *dysuria*. In bacterial urinary tract infection, pH and leukocyte esterase are increased. Protein and blood are often positive as well. Urinalysis is only a screening test, so any suspected UTI should be confirmed with a urine culture for accurate diagnosis and treatment.

This patient’s results are normal.

Specimen US-1

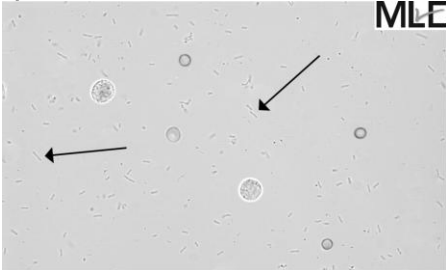


Identification	Labs	Percent	Performance
White blood cell (WBC)	769	98.72%	Acceptable
Cellular (WBC) cast	6	0.77%	

The arrows in this photograph point to **white blood cells (WBC)**. They are approximately twice as large as red blood cells and appear granular, with visible nuclei. WBCs in urine sometimes appear in large clusters or clumps. The white cells that respond to infection and inflammation produce enzymes called esterases. A positive result for leukocyte esterase indicates pyuria, the presence of increased white blood cells in the urine. The most common cause of pyuria is an infection in the bladder or kidneys.

URINE SEDIMENT IDENTIFICATION cont'd

Specimen US-2



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Bacteria	772	99.10%	Acceptable

The arrows in this photograph point to **bacteria**. Most urinary tract infections are caused by rod-shaped enteric bacilli such as *E. coli*. Many of these common pathogens make enzymes that convert a normal waste product in the urine, nitrate, into nitrite. A positive nitrite test indicates the presence of a significant number of bacteria. However, a negative nitrite result does not rule out the possibility of a urinary tract infection. Some organisms do not convert nitrate to nitrite. In addition, urine must stay in the bladder at least 4 hours for the conversion to take place. Frequent urination is a common symptom of UTI, and can cause a false negative result. This is one of the reasons that a first morning specimen is preferred for urinalysis.

References:

Mundt, L.A, Shanahan, K.: *Graff's Textbook of Routine Urinalysis and Body Fluids*, 2nd ed. Philadelphia, Lippincott Williams & Wilkins, 2011.

Ringsrud, K. M., Linné, J. J.: *Urinalysis and Body Fluids/ A ColorText and Atlas*. St. Louis, Mosby, 1995.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Wet Mount Preparation

Specimen PPM-1

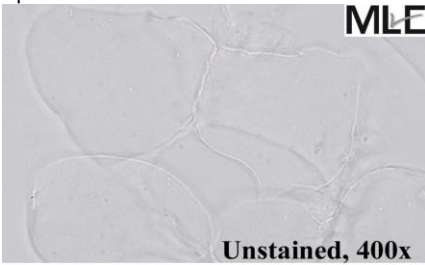


Identification	Labs	Percent	Performance
Red Blood cell (RBC)	555	88.24%	Acceptable
Starch (Talc) granules	23	3.66%	
Identification Unknown- Refer	13	2.07%	
Pollen granules	11	1.75%	
White Blood Cell (WBC)	9	1.43%	
Yeast/fungi	5	0.79%	

The arrows in this photograph of a vaginal wet mount prep point **to red blood cells (RBC)**. These cells exhibit the characteristic biconcave disc shape of red blood cells. They are much smaller than the two white blood cells in the same field, and appear empty, lacking nuclei or internal structures. Yeast cells are generally oval shaped, and may be budding. To view another photo of red blood cells, see 2006 M1 Specimen PPM-2.

KOH Preparation

Specimen PPM-2



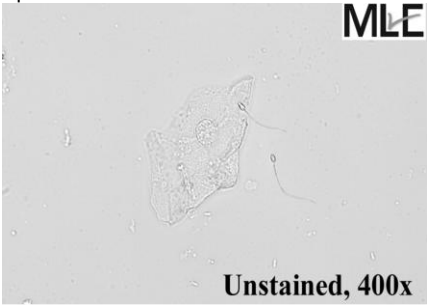
Identification	Labs	Percent	Performance
Yeast/fungal elements absent	607	99.02%	Acceptable
Yeast/fungal elements present	6	0.98%	

Yeast/fungi are absent in this photograph of a vaginal potassium hydroxide preparation.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Wet Mount Preparation

Specimen PPM-3

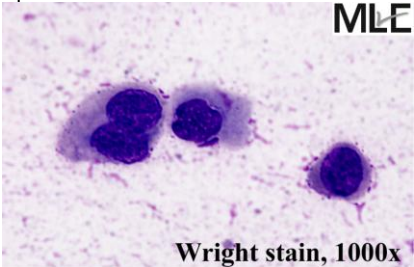


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Sperm present	619	99.68%	Acceptable
Sperm absent	2	0.32%	

Two **spermatozoa are present** in this photograph of a wet mount preparation

Nasal Smear

Specimen PPM-4



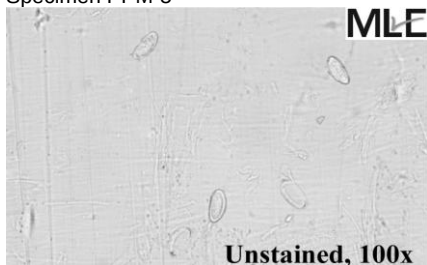
<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Eosinophils absent	175	77.43%	Acceptable
Eosinophils present	51	22.57%	

Eosinophils are absent in this photograph of stained nasal mucus. The cytoplasm of an eosinophil is filled with large round red-orange granules stained by the dye eosin. The leukocytes pictured here do not have the characteristic red-orange color of eosinophils. To view a photo of eosinophils, see 2010 M3 Specimen PPM-16. This challenge was graded by 100% referee consensus.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Pinworm Preparation

Specimen PPM-5

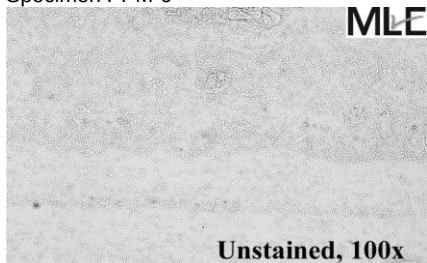


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Pinworms/eggs present	273	99.27%	Acceptable
Pinworms/eggs absent	2	0.73%	

Pinworm eggs are present in this photograph of a perianal pinworm preparation.

Fern Test

Specimen PPM-6



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Ferning absent	285	89.62%	Acceptable
Ferning present	33	10.38%	

Ferning is absent in this photograph of a dried vaginal fluid preparation.

Medical Laboratory Evaluation

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