

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

2 • 0 • 1 • 2

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



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

Table of Contents

2012 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.....	68
Bilirubin	69
Urobilinogen.....	70
Blood or Hemoglobin.....	71
Leukocyte Esterase.....	72
Nitrite.....	73
Microalbumin (Dipstick Only).....	74
Urine hCG	75
Fecal Occult Blood	76
KOH Skin Preparation	64
Urine Sediment Identification	77

Provider-Performed Microscopy (PPM)

Provider-Performed Microscopy (PPM)	79
--	----

2012 EVALUATION CRITERIA

The evaluation criteria used in the 2012 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) which consist of peer groups of 5 or more laboratories. 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 page 37 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
International Normalized Ratio (INR)	± 3 SD
Activated Partial Thromboplastin Time	± 15 percent
Fibrinogen	± 20 percent
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)

Specimen HQ-1							Specimen HQ-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>
HemoCue	61	13.10	0.34	2.6	13.0	12.0 - 14.2	62	16.93	0.45	2.6	16.9	15.5 - 18.3

HEMOCUE HEMATOLOGY–GLUCOSE (mg/dL)

Specimen HQ-1							Specimen HQ-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	71	89.7	10.4	11.6	88	58 - 122	70	324.4	12.6	3.9	326	286 - 363
HemoCue Glucose 201/+	63	88.5	8.2	9.3	88	63 - 114	64	325.1	11.7	3.6	326	289 - 361

SEDIMENTATION RATE (MM/HR)

Specimen ES-1							Specimen ES-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	216	5.7	2.2	39.1	5	0 - 13	213	37.2	11.6	31.3	34	2 - 73
HiChem Mini-Ves	12	5.5	3.2	57.8	5	0 - 16	13	71.8	12.2	17.1	69	35 - 109
Polymedco Sedimat	18	3.4	2.3	67.0	3	0 - 11	18	35.3	6.8	19.2	35	15 - 56
Streck ESR-Auto Plus	13	8.5	1.2	14.0	9	4 - 13	13	55.7	5.2	9.4	54	40 - 72
Vital Diagnostics Excyte M/10	16	5.8	0.9	16.2	6	2 - 9	17	48.6	4.3	8.7	49	35 - 62
Westergren - diluted	126	5.4	1.7	31.5	5	0 - 11	127	32.8	6.8	20.6	32	12 - 54
Westergren - undiluted	12	6.2	1.8	29.2	6	0 - 12	11	30.9	7.5	24.2	31	8 - 54
Wintrobe	10	7.8	4.1	53.0	7	0 - 21	10	26.5	6.2	23.5	26	7 - 46

SEDIMAT SEDIMENTATION RATE (MM/HR)

Specimen MAT-1							Specimen MAT-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>
Polymedco Sedimat 15	22	2.0	1.4	66.6	2	0 - 7	21	52.0	7.9	15.2	52	28 - 76

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

Specimen CL-1							Specimen CL-1					
<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	2.51	0.14	5.7	2.5	2.1 - 2.9	33	3.95	0.15	3.7	4.0	3.3 - 4.6
All Abbott Cell-Dyn Instruments	34	2.51	0.14	5.7	2.5	2.1 - 2.9	33	3.95	0.15	3.7	4.0	3.3 - 4.6
Abbott Cell-Dyn 3200	16	2.52	0.11	4.4	2.5	2.1 - 2.9	16	3.98	0.13	3.4	4.0	3.3 - 4.6
Abbott Cell-Dyn Ruby	12	2.52	0.15	5.8	2.6	2.1 - 2.9	12	3.93	0.13	3.3	4.0	3.3 - 4.6
Specimen CL-3							Specimen CL-4					
All Method	34	2.51	0.14	5.7	2.5	2.1 - 2.9	33	3.95	0.15	3.7	4.0	3.3 - 4.6
All Abbott Cell-Dyn Instruments	34	2.51	0.14	5.7	2.5	2.1 - 2.9	33	3.95	0.15	3.7	4.0	3.3 - 4.6
Abbott Cell-Dyn 3200	16	2.52	0.11	4.4	2.5	2.1 - 2.9	16	3.98	0.13	3.4	4.0	3.3 - 4.6
Abbott Cell-Dyn Ruby	12	2.52	0.15	5.8	2.6	2.1 - 2.9	12	3.93	0.13	3.3	4.0	3.3 - 4.6
Specimen CL-5												
All Method	34	4.87	0.17	3.5	4.9	4.1 - 5.7						
All Abbott Cell-Dyn Instruments	34	4.87	0.17	3.5	4.9	4.1 - 5.7						
Abbott Cell-Dyn 3200	16	4.81	0.13	2.6	4.8	4.0 - 5.6						
Abbott Cell-Dyn Ruby	12	4.97	0.15	3.0	5.0	4.2 - 5.8						

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	32	2.077	0.038	1.8	2.09	1.95 - 2.21	32	3.920	0.060	1.5	3.92	3.68 - 4.16	
All Abbott Cell-Dyn Instruments	32	2.077	0.038	1.8	2.09	1.95 - 2.21	32	3.920	0.060	1.5	3.92	3.68 - 4.16	
Abbott Cell-Dyn 3200	16	2.069	0.061	3.0	2.09	1.94 - 2.20	16	3.884	0.081	2.1	3.90	3.65 - 4.12	
Abbott Cell-Dyn Ruby	12	2.063	0.038	1.8	2.06	1.93 - 2.19	12	3.903	0.086	2.2	3.90	3.66 - 4.14	
Specimen CL-3							Specimen CL-4						
All Method	34	4.336	0.080	1.9	4.32	4.07 - 4.60	34	6.091	0.128	2.1	6.09	5.72 - 6.46	
All Abbott Cell-Dyn Instruments	34	4.336	0.080	1.9	4.32	4.07 - 4.60	34	6.091	0.128	2.1	6.09	5.72 - 6.46	
Abbott Cell-Dyn 3200	16	4.328	0.092	2.1	4.32	4.06 - 4.59	16	6.078	0.141	2.3	6.09	5.71 - 6.45	
Abbott Cell-Dyn Ruby	12	4.332	0.072	1.7	4.34	4.07 - 4.60	12	6.126	0.133	2.2	6.13	5.75 - 6.50	
Specimen CL-5													
All Method	34	4.107	0.100	2.4	4.10	3.86 - 4.36							
All Abbott Cell-Dyn Instruments	34	4.107	0.100	2.4	4.10	3.86 - 4.36							
Abbott Cell-Dyn 3200	16	4.086	0.090	2.2	4.09	3.84 - 4.34							
Abbott Cell-Dyn Ruby	12	4.091	0.114	2.8	4.09	3.84 - 4.34							

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	33	6.68	0.13	2.0	6.7	6.2 - 7.2	33	9.81	0.16	1.6	9.8	9.1 - 10.5	
All Abbott Cell-Dyn Instruments	33	6.68	0.13	2.0	6.7	6.2 - 7.2	33	9.81	0.16	1.6	9.8	9.1 - 10.5	
Abbott Cell-Dyn 3200	16	6.71	0.15	2.3	6.8	6.2 - 7.2	16	9.83	0.17	1.7	9.9	9.1 - 10.6	
Abbott Cell-Dyn Ruby	12	6.65	0.12	1.8	6.7	6.1 - 7.2	12	9.80	0.18	1.8	9.8	9.1 - 10.5	
Specimen CL-3							Specimen CL-4						
All Method	34	11.02	0.20	1.8	11.0	10.2 - 11.8	34	17.63	0.35	2.0	17.6	16.3 - 18.9	
All Abbott Cell-Dyn Instruments	34	11.02	0.20	1.8	11.0	10.2 - 11.8	34	17.63	0.35	2.0	17.6	16.3 - 18.9	
Abbott Cell-Dyn 3200	16	11.01	0.17	1.6	11.0	10.2 - 11.8	16	17.58	0.30	1.7	17.6	16.3 - 18.9	
Abbott Cell-Dyn Ruby	12	11.01	0.18	1.7	11.0	10.2 - 11.8	12	17.78	0.24	1.3	17.8	16.5 - 19.1	
Specimen CL-5													
All Method	34	11.94	0.20	1.6	12.0	11.1 - 12.8							
All Abbott Cell-Dyn Instruments	34	11.94	0.20	1.6	12.0	11.1 - 12.8							
Abbott Cell-Dyn 3200	16	11.89	0.18	1.5	11.9	11.0 - 12.8							
Abbott Cell-Dyn Ruby	12	11.97	0.16	1.3	12.0	11.1 - 12.9							

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	33	17.95	1.36	7.6	17.6	16.8 - 19.1	34	28.43	1.93	6.8	27.9	26.7 - 30.2
All Abbott Cell-Dyn Instruments	28	17.43	0.56	3.2	17.5	16.3 - 18.5	28	27.62	0.77	2.8	27.8	25.9 - 29.3
Abbott Cell-Dyn 3200	16	17.45	0.68	3.9	17.5	16.4 - 18.5	16	27.66	0.90	3.2	27.9	26.0 - 29.4
Abbott Cell-Dyn Ruby	12	17.41	0.36	2.1	17.5	16.3 - 18.5	12	27.56	0.60	2.2	27.6	25.9 - 29.3
Specimen CL-3							Specimen CL-4					
All Method	34	31.48	1.93	6.1	30.9	29.5 - 33.4	34	48.88	2.69	5.5	48.4	45.9 - 51.9
All Abbott Cell-Dyn Instruments	28	30.67	0.82	2.7	30.7	28.8 - 32.6	28	47.77	1.25	2.6	47.8	44.9 - 50.7
Abbott Cell-Dyn 3200	16	30.78	1.03	3.3	30.9	28.9 - 32.7	16	47.71	1.45	3.0	48.0	44.8 - 50.6
Abbott Cell-Dyn Ruby	12	30.53	0.42	1.4	30.5	28.6 - 32.4	12	47.84	0.98	2.0	47.7	44.9 - 50.8
Specimen CL-5												
All Method	34	33.66	2.38	7.1	32.9	31.6 - 35.7						
All Abbott Cell-Dyn Instruments	28	32.65	0.95	2.9	32.7	30.6 - 34.7						
Abbott Cell-Dyn 3200	16	32.65	1.10	3.4	32.7	30.6 - 34.7						
Abbott Cell-Dyn Ruby	12	32.65	0.75	2.3	32.7	30.6 - 34.7						

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	34	86.4	6.6	7.7	87	64 - 109	34	142.6	10.6	7.4	143	106 - 179
All Abbott Cell-Dyn Instruments	34	86.4	6.6	7.7	87	64 - 109	34	142.6	10.6	7.4	143	106 - 179
Abbott Cell-Dyn 3200	17	85.6	6.3	7.4	87	64 - 107	17	142.4	11.7	8.2	143	106 - 179
Abbott Cell-Dyn Ruby	11	89.2	6.3	7.1	91	66 - 112	11	146.6	7.8	5.3	143	109 - 184
Specimen CL-3							Specimen CL-4					
All Method	34	268.6	18.7	7.0	268	201 - 336	34	596.5	33.9	5.7	597	447 - 746
All Abbott Cell-Dyn Instruments	34	268.6	18.7	7.0	268	201 - 336	34	596.5	33.9	5.7	597	447 - 746
Abbott Cell-Dyn 3200	17	264.6	20.7	7.8	261	198 - 331	17	593.7	31.4	5.3	593	445 - 743
Abbott Cell-Dyn Ruby	11	270.3	13.3	4.9	270	202 - 338	11	616.0	28.2	4.6	615	462 - 770
Specimen CL-5												
All Method	34	312.2	20.4	6.5	313	234 - 391						
All Abbott Cell-Dyn Instruments	34	312.2	20.4	6.5	313	234 - 391						
Abbott Cell-Dyn 3200	17	311.6	20.0	6.4	309	233 - 390						
Abbott Cell-Dyn Ruby	11	323.1	16.0	5.0	322	242 - 404						

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	31	53.52	1.37	2.6	53.2	49.4 - 57.7	33	47.42	1.14	2.4	47.4	44.0 - 50.9	
All Abbott Cell-Dyn Instruments	31	53.52	1.37	2.6	53.2	49.4 - 57.7	33	47.42	1.14	2.4	47.4	44.0 - 50.9	
Abbott Cell-Dyn 3200	16	53.07	1.11	2.1	53.1	49.7 - 56.5	16	47.21	1.18	2.5	47.4	43.6 - 50.8	
Abbott Cell-Dyn Ruby	11	54.48	1.45	2.7	54.8	50.1 - 58.9	11	47.63	1.24	2.6	47.6	43.9 - 51.4	
Specimen CL-3							Specimen CL-4						
All Method	33	75.74	1.04	1.4	75.6	72.6 - 78.9	33	77.26	0.73	0.9	77.2	75.0 - 79.5	
All Abbott Cell-Dyn Instruments	33	75.74	1.04	1.4	75.6	72.6 - 78.9	33	77.26	0.73	0.9	77.2	75.0 - 79.5	
Abbott Cell-Dyn 3200	16	75.91	0.95	1.3	75.6	73.0 - 78.8	16	77.28	0.52	0.7	77.3	75.7 - 78.9	
Abbott Cell-Dyn Ruby	11	75.42	1.13	1.5	75.4	72.0 - 78.9	11	77.35	0.76	1.0	77.4	75.0 - 79.7	
Specimen CL-5													
All Method	33	43.88	1.64	3.7	43.8	38.9 - 48.8							
All Abbott Cell-Dyn Instruments	33	43.88	1.64	3.7	43.8	38.9 - 48.8							
Abbott Cell-Dyn 3200	16	43.56	1.39	3.2	43.9	39.3 - 47.8							
Abbott Cell-Dyn Ruby	11	44.86	1.62	3.6	44.0	39.9 - 49.8							

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	32	36.64	2.27	6.2	37.0	29.8 - 43.5	32	42.92	1.25	2.9	43.1	39.1 - 46.7	
All Abbott Cell-Dyn Instruments	32	36.64	2.27	6.2	37.0	29.8 - 43.5	32	42.92	1.25	2.9	43.1	39.1 - 46.7	
Abbott Cell-Dyn 3200	17	37.21	1.73	4.6	37.0	32.0 - 42.4	17	42.87	1.12	2.6	43.1	39.5 - 46.3	
Abbott Cell-Dyn Ruby	10	34.77	2.32	6.7	34.9	27.8 - 41.8	10	42.15	2.02	4.8	42.5	36.1 - 48.2	
Specimen CL-3							Specimen CL-4						
All Method	33	17.89	1.10	6.1	17.7	14.5 - 21.2	33	16.63	0.91	5.5	16.5	13.8 - 19.4	
All Abbott Cell-Dyn Instruments	33	17.89	1.10	6.1	17.7	14.5 - 21.2	33	16.63	0.91	5.5	16.5	13.8 - 19.4	
Abbott Cell-Dyn 3200	17	17.79	1.09	6.1	17.7	14.5 - 21.1	17	16.74	0.96	5.7	16.5	13.8 - 19.7	
Abbott Cell-Dyn Ruby	10	17.99	1.22	6.8	17.9	14.3 - 21.7	10	16.32	0.91	5.5	16.4	13.6 - 19.1	
Specimen CL-5													
All Method	32	46.08	1.87	4.1	45.9	40.4 - 51.7							
All Abbott Cell-Dyn Instruments	32	46.08	1.87	4.1	45.9	40.4 - 51.7							
Abbott Cell-Dyn 3200	16	46.59	1.78	3.8	46.5	41.2 - 52.0							
Abbott Cell-Dyn Ruby	10	44.77	1.40	3.1	44.4	40.5 - 49.0							

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	33	5.26	1.51	28.7	4.9	0.7 - 9.8	33	5.66	1.05	18.5	5.6	2.5 - 8.9
All Abbott Cell-Dyn Instruments	33	5.26	1.51	28.7	4.9	0.7 - 9.8	33	5.66	1.05	18.5	5.6	2.5 - 8.9
Abbott Cell-Dyn 3200	16	5.16	1.20	23.3	4.9	1.5 - 8.8	16	5.50	1.06	19.2	5.7	2.3 - 8.7
Abbott Cell-Dyn Ruby	11	5.98	1.88	31.4	5.6	0.3 - 11.7	11	6.15	1.13	18.3	5.6	2.7 - 9.6
Specimen CL-3							Specimen CL-4					
All Method	33	2.09	0.63	30.2	2.2	0.1 - 4.0	33	1.84	0.61	33.1	1.9	0.0 - 3.7
All Abbott Cell-Dyn Instruments	33	2.09	0.63	30.2	2.2	0.1 - 4.0	33	1.84	0.61	33.1	1.9	0.0 - 3.7
Abbott Cell-Dyn 3200	16	2.02	0.70	34.7	2.2	0.0 - 4.2	16	1.76	0.71	40.1	1.9	0.0 - 3.9
Abbott Cell-Dyn Ruby	11	2.21	0.42	18.8	2.2	0.9 - 3.5	11	1.81	0.49	27.1	1.8	0.3 - 3.3
Specimen CL-5												
All Method	32	5.92	0.74	12.5	5.9	3.7 - 8.2						
All Abbott Cell-Dyn Instruments	32	5.92	0.74	12.5	5.9	3.7 - 8.2						
Abbott Cell-Dyn 3200	15	5.89	0.85	14.5	5.9	3.3 - 8.5						
Abbott Cell-Dyn Ruby	11	5.87	0.51	8.7	5.9	4.3 - 7.4						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–EOSINOPHILS (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	33	3.65	0.48	13.2	3.7	2.2 - 5.1	33	3.22	0.35	10.8	3.2	2.1 - 4.3
All Abbott Cell-Dyn Instruments	33	3.65	0.48	13.2	3.7	2.2 - 5.1	33	3.22	0.35	10.8	3.2	2.1 - 4.3
Abbott Cell-Dyn 3200	16	3.68	0.44	12.0	3.9	2.3 - 5.1	16	3.31	0.32	9.5	3.3	2.3 - 4.3
Abbott Cell-Dyn Ruby	11	3.55	0.48	13.7	3.6	2.0 - 5.0	11	3.14	0.28	8.8	3.2	2.3 - 4.0
Specimen CL-3							Specimen CL-4					
All Method	33	3.68	0.23	6.2	3.7	2.9 - 4.4	33	3.81	0.17	4.4	3.8	3.3 - 4.4
All Abbott Cell-Dyn Instruments	33	3.68	0.23	6.2	3.7	2.9 - 4.4	33	3.81	0.17	4.4	3.8	3.3 - 4.4
Abbott Cell-Dyn 3200	16	3.73	0.25	6.8	3.8	2.9 - 4.5	16	3.84	0.15	3.9	3.9	3.3 - 4.3
Abbott Cell-Dyn Ruby	11	3.58	0.22	6.2	3.6	2.9 - 4.3	11	3.81	0.22	5.8	3.8	3.1 - 4.5
Specimen CL-5												
All Method	33	3.18	0.24	7.7	3.2	2.4 - 4.0						
All Abbott Cell-Dyn Instruments	33	3.18	0.24	7.7	3.2	2.4 - 4.0						
Abbott Cell-Dyn 3200	16	3.21	0.30	9.2	3.3	2.3 - 4.2						
Abbott Cell-Dyn Ruby	11	3.13	0.21	6.6	3.1	2.5 - 3.8						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–BASOPHILS (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	31	0.75	0.32	42.7	0.8	0.0 - 1.8	33	0.91	0.28	30.2	0.9	0.0 - 1.8
All Abbott Cell-Dyn Instruments	31	0.75	0.32	42.7	0.8	0.0 - 1.8	33	0.91	0.28	30.2	0.9	0.0 - 1.8
Abbott Cell-Dyn 3200	16	0.89	0.38	42.7	0.9	0.0 - 2.1	16	0.98	0.25	25.5	1.0	0.2 - 1.8
Abbott Cell-Dyn Ruby	11	0.94	0.60	64.5	0.8	0.0 - 2.8	11	0.94	0.28	29.5	1.0	0.1 - 1.8
Specimen CL-3							Specimen CL-4					
All Method	33	0.52	0.20	38.9	0.6	0.0 - 1.2	33	0.42	0.20	47.8	0.4	0.0 - 1.1
All Abbott Cell-Dyn Instruments	33	0.52	0.20	38.9	0.6	0.0 - 1.2	33	0.42	0.20	47.8	0.4	0.0 - 1.1
Abbott Cell-Dyn 3200	16	0.57	0.22	38.9	0.6	0.0 - 1.3	16	0.46	0.21	46.0	0.5	0.0 - 1.2
Abbott Cell-Dyn Ruby	11	0.55	0.15	27.6	0.6	0.0 - 1.0	11	0.39	0.19	49.1	0.4	0.0 - 1.0
Specimen CL-5												
All Method	33	0.84	0.31	37.0	0.8	0.0 - 1.8						
All Abbott Cell-Dyn Instruments	33	0.84	0.31	37.0	0.8	0.0 - 1.8						
Abbott Cell-Dyn 3200	16	0.86	0.33	39.1	0.8	0.0 - 1.9						
Abbott Cell-Dyn Ruby	11	0.79	0.27	33.7	0.9	0.0 - 1.6						

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	53	3.01	0.13	4.3	3.0	2.5 - 3.5	52	8.18	0.24	2.9	8.2	6.9 - 9.5
All Sysmex Instruments	53	3.01	0.13	4.3	3.0	2.5 - 3.5	52	8.18	0.24	2.9	8.2	6.9 - 9.5
Sysmex K - 800,1000,4500,KX-21	31	2.94	0.11	3.7	2.9	2.5 - 3.4	31	8.07	0.22	2.7	8.1	6.8 - 9.3
Sysmex pocH-100i	22	3.10	0.10	3.4	3.1	2.6 - 3.6	21	8.35	0.16	1.9	8.4	7.0 - 9.6
Specimen SYX-3							Specimen SYX-4					
All Method	52	20.58	0.46	2.2	20.7	17.4 - 23.7	53	8.23	0.26	3.1	8.2	6.9 - 9.5
All Sysmex Instruments	52	20.58	0.46	2.2	20.7	17.4 - 23.7	53	8.23	0.26	3.1	8.2	6.9 - 9.5
Sysmex K - 800,1000,4500,KX-21	31	20.45	0.46	2.3	20.5	17.3 - 23.6	31	8.10	0.20	2.5	8.1	6.8 - 9.4
Sysmex pocH-100i	21	20.76	0.39	1.9	20.8	17.6 - 23.9	22	8.41	0.22	2.6	8.4	7.1 - 9.7
Specimen SYX-5												
All Method	51	20.61	0.41	2.0	20.6	17.5 - 23.8						
All Sysmex Instruments	51	20.61	0.41	2.0	20.6	17.5 - 23.8						
Sysmex K - 800,1000,4500,KX-21	29	20.47	0.38	1.8	20.5	17.3 - 23.6						
Sysmex pocH-100i	22	20.80	0.39	1.9	20.9	17.6 - 24.0						

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	53	2.480	0.039	1.6	2.48	2.33 - 2.63	52	4.376	0.051	1.2	4.38	4.11 - 4.64	
All Sysmex Instruments	53	2.480	0.039	1.6	2.48	2.33 - 2.63	52	4.376	0.051	1.2	4.38	4.11 - 4.64	
Sysmex K - 800,1000,4500,KX-21	31	2.478	0.031	1.3	2.48	2.32 - 2.63	31	4.359	0.042	1.0	4.36	4.09 - 4.63	
Sysmex pocH-100i	22	2.483	0.049	2.0	2.47	2.33 - 2.64	21	4.402	0.053	1.2	4.40	4.13 - 4.67	
Specimen SYX-3							Specimen SYX-4						
All Method	52	6.008	0.078	1.3	6.01	5.64 - 6.37	51	4.375	0.048	1.1	4.37	4.11 - 4.64	
All Sysmex Instruments	52	6.008	0.078	1.3	6.01	5.64 - 6.37	51	4.375	0.048	1.1	4.37	4.11 - 4.64	
Sysmex K - 800,1000,4500,KX-21	31	5.996	0.064	1.1	6.01	5.63 - 6.36	31	4.363	0.034	0.8	4.37	4.10 - 4.63	
Sysmex pocH-100i	22	6.037	0.105	1.7	6.05	5.67 - 6.40	22	4.410	0.084	1.9	4.40	4.14 - 4.68	
Specimen SYX-5													
All Method	51	5.996	0.070	1.2	5.99	5.63 - 6.36							
All Sysmex Instruments	51	5.996	0.070	1.2	5.99	5.63 - 6.36							
Sysmex K - 800,1000,4500,KX-21	30	5.987	0.063	1.1	5.99	5.62 - 6.35							
Sysmex pocH-100i	22	6.021	0.094	1.6	6.00	5.66 - 6.39							

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	52	6.27	0.10	1.6	6.3	5.8 - 6.8	53	12.23	0.15	1.2	12.2	11.3 - 13.1	
All Sysmex Instruments	52	6.27	0.10	1.6	6.3	5.8 - 6.8	53	12.23	0.15	1.2	12.2	11.3 - 13.1	
Sysmex K - 800,1000,4500,KX-21	31	6.24	0.09	1.5	6.2	5.8 - 6.7	31	12.26	0.12	1.0	12.3	11.4 - 13.2	
Sysmex pocH-100i	22	6.33	0.13	2.0	6.3	5.8 - 6.8	22	12.19	0.17	1.4	12.2	11.3 - 13.1	
Specimen SYX-3							Specimen SYX-4						
All Method	53	18.33	0.20	1.1	18.3	17.0 - 19.7	53	12.25	0.19	1.5	12.2	11.3 - 13.2	
All Sysmex Instruments	53	18.33	0.20	1.1	18.3	17.0 - 19.7	53	12.25	0.19	1.5	12.2	11.3 - 13.2	
Sysmex K - 800,1000,4500,KX-21	31	18.34	0.15	0.8	18.3	17.0 - 19.7	31	12.29	0.15	1.2	12.3	11.4 - 13.2	
Sysmex pocH-100i	22	18.31	0.26	1.4	18.3	17.0 - 19.6	22	12.20	0.22	1.8	12.2	11.3 - 13.1	
Specimen SYX-5													
All Method	53	18.34	0.22	1.2	18.3	17.0 - 19.7							
All Sysmex Instruments	53	18.34	0.22	1.2	18.3	17.0 - 19.7							
Sysmex K - 800,1000,4500,KX-21	31	18.37	0.18	1.0	18.4	17.0 - 19.7							
Sysmex pocH-100i	22	18.29	0.25	1.4	18.3	17.0 - 19.6							

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	53	18.18	0.69	3.8	17.9	17.0 - 19.3	53	34.56	1.17	3.4	34.1	32.4 - 36.7	
All Sysmex Instruments	53	18.18	0.69	3.8	17.9	17.0 - 19.3	53	34.56	1.17	3.4	34.1	32.4 - 36.7	
Sysmex K - 800,1000,4500,KX-21	31	17.70	0.29	1.6	17.7	16.6 - 18.8	31	33.73	0.46	1.4	33.8	31.7 - 35.8	
Sysmex pocH-100i	22	18.87	0.46	2.4	18.8	17.7 - 20.1	22	35.74	0.77	2.1	35.7	33.5 - 37.9	
Specimen SYX-3							Specimen SYX-4						
All Method	53	51.76	1.34	2.6	51.3	48.6 - 54.9	53	34.55	1.14	3.3	34.2	32.4 - 36.7	
All Sysmex Instruments	53	51.76	1.34	2.6	51.3	48.6 - 54.9	53	34.55	1.14	3.3	34.2	32.4 - 36.7	
Sysmex K - 800,1000,4500,KX-21	30	50.84	0.52	1.0	50.8	47.7 - 53.9	31	33.75	0.40	1.2	33.7	31.7 - 35.8	
Sysmex pocH-100i	22	52.97	1.14	2.2	52.8	49.7 - 56.2	22	35.69	0.82	2.3	35.6	33.5 - 37.9	
Specimen SYX-5													
All Method	53	51.62	1.27	2.5	51.5	48.5 - 54.8							
All Sysmex Instruments	53	51.62	1.27	2.5	51.5	48.5 - 54.8							
Sysmex K - 800,1000,4500,KX-21	31	50.82	0.65	1.3	50.7	47.7 - 53.9							
Sysmex pocH-100i	22	52.74	1.05	2.0	52.6	49.5 - 56.0							

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	52	61.5	4.7	7.6	61	46 - 77	53	191.5	8.8	4.6	192	143 - 240
All Sysmex Instruments	52	61.5	4.7	7.6	61	46 - 77	53	191.5	8.8	4.6	192	143 - 240
Sysmex K - 800,1000,4500,KX-21	31	62.9	5.9	9.4	61	47 - 79	31	195.5	7.2	3.7	195	146 - 245
Sysmex pocH-100i	22	60.3	3.7	6.1	61	45 - 76	22	185.8	7.7	4.2	186	139 - 233
Specimen SYX-3							Specimen SYX-4					
All Method	53	369.0	23.2	6.3	371	276 - 462	52	192.5	10.3	5.3	193	144 - 241
All Sysmex Instruments	53	369.0	23.2	6.3	371	276 - 462	52	192.5	10.3	5.3	193	144 - 241
Sysmex K - 800,1000,4500,KX-21	31	384.4	14.0	3.7	386	288 - 481	31	197.7	8.4	4.3	198	148 - 248
Sysmex pocH-100i	22	347.2	14.1	4.1	349	260 - 434	21	184.9	7.7	4.1	184	138 - 232
Specimen SYX-5												
All Method	52	369.0	22.3	6.0	370	276 - 462						
All Sysmex Instruments	52	369.0	22.3	6.0	370	276 - 462						
Sysmex K - 800,1000,4500,KX-21	31	383.8	12.5	3.2	383	287 - 480						
Sysmex pocH-100i	21	347.1	13.9	4.0	345	260 - 434						

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	51	11.97	1.16	9.7	12.1	8.4 - 15.5	51	29.34	0.91	3.1	29.3	26.6 - 32.1	
All Sysmex Instruments	51	11.97	1.16	9.7	12.1	8.4 - 15.5	51	29.34	0.91	3.1	29.3	26.6 - 32.1	
Sysmex K - 800,1000,4500,KX-21	30	12.51	0.80	6.4	12.6	10.1 - 15.0	30	29.65	0.90	3.0	29.6	26.9 - 32.4	
Sysmex pocH-100i	21	11.20	1.19	10.6	11.4	7.6 - 14.8	21	28.90	0.74	2.6	29.0	26.6 - 31.2	
Specimen SYX-3							Specimen SYX-4						
All Method	51	60.81	0.78	1.3	60.7	58.4 - 63.2	50	29.47	0.90	3.1	29.5	26.7 - 32.2	
All Sysmex Instruments	51	60.81	0.78	1.3	60.7	58.4 - 63.2	50	29.47	0.90	3.1	29.5	26.7 - 32.2	
Sysmex K - 800,1000,4500,KX-21	30	61.04	0.72	1.2	61.0	58.8 - 63.2	30	29.82	0.97	3.2	29.9	26.9 - 32.8	
Sysmex pocH-100i	21	60.49	0.77	1.3	60.4	58.1 - 62.9	20	28.95	0.45	1.6	29.0	27.5 - 30.4	
Specimen SYX-5													
All Method	50	60.71	0.65	1.1	60.7	58.7 - 62.7							
All Sysmex Instruments	50	60.71	0.65	1.1	60.7	58.7 - 62.7							
Sysmex K - 800,1000,4500,KX-21	29	61.04	0.49	0.8	61.0	59.5 - 62.6							
Sysmex pocH-100i	21	60.25	0.57	0.9	60.3	58.5 - 62.0							

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	50	17.87	1.70	9.5	18.1	12.7 - 23.0	50	16.52	1.10	6.6	16.5	13.2 - 19.9
All Sysmex Instruments	50	17.87	1.70	9.5	18.1	12.7 - 23.0	50	16.52	1.10	6.6	16.5	13.2 - 19.9
Sysmex K - 800,1000,4500,KX-21	29	18.65	1.52	8.1	18.9	14.0 - 23.3	29	17.10	0.95	5.6	17.0	14.2 - 20.0
Sysmex pocH-100i	21	16.80	1.33	7.9	16.8	12.8 - 20.8	21	15.72	0.73	4.7	15.9	13.5 - 18.0
	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	49	13.86	0.71	5.1	13.9	11.7 - 16.0	50	16.58	0.93	5.6	16.5	13.7 - 19.4
All Sysmex Instruments	49	13.86	0.71	5.1	13.9	11.7 - 16.0	50	16.58	0.93	5.6	16.5	13.7 - 19.4
Sysmex K - 800,1000,4500,KX-21	29	14.13	0.61	4.3	14.1	12.2 - 16.0	29	16.83	1.06	6.3	17.1	13.6 - 20.1
Sysmex pocH-100i	20	13.46	0.67	5.0	13.5	11.4 - 15.5	21	16.22	0.58	3.6	16.3	14.4 - 18.0
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	50	13.83	0.84	6.1	14.0	11.3 - 16.4						
All Sysmex Instruments	50	13.83	0.84	6.1	14.0	11.3 - 16.4						
Sysmex K - 800,1000,4500,KX-21	29	14.28	0.71	5.0	14.4	12.1 - 16.5						
Sysmex pocH-100i	21	13.20	0.56	4.2	13.1	11.5 - 14.9						

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	49	70.20	2.11	3.0	70.2	63.8 - 76.6	50	54.13	1.61	3.0	54.3	49.2 - 59.0
All Sysmex Instruments	49	70.20	2.11	3.0	70.2	63.8 - 76.6	50	54.13	1.61	3.0	54.3	49.2 - 59.0
Sysmex K - 800,1000,4500,KX-21	28	68.85	1.42	2.1	68.6	64.5 - 73.2	29	53.22	1.34	2.5	53.5	49.2 - 57.3
Sysmex pocH-100i	21	72.00	1.43	2.0	72.0	67.7 - 76.3	21	55.38	1.03	1.9	55.5	52.2 - 58.5
	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	50	25.35	1.00	3.9	25.4	22.3 - 28.4	50	54.01	1.51	2.8	54.0	49.4 - 58.6
All Sysmex Instruments	50	25.35	1.00	3.9	25.4	22.3 - 28.4	50	54.01	1.51	2.8	54.0	49.4 - 58.6
Sysmex K - 800,1000,4500,KX-21	29	24.82	0.85	3.4	24.9	22.2 - 27.4	29	53.33	1.44	2.7	53.3	49.0 - 57.7
Sysmex pocH-100i	21	26.08	0.68	2.6	25.8	24.0 - 28.2	21	54.95	1.04	1.9	54.8	51.8 - 58.1
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	50	25.59	1.23	4.8	25.5	21.8 - 29.3						
All Sysmex Instruments	50	25.59	1.23	4.8	25.5	21.8 - 29.3						
Sysmex K - 800,1000,4500,KX-21	28	24.76	0.74	3.0	24.8	22.5 - 27.0						
Sysmex pocH-100i	21	26.55	0.72	2.7	26.6	24.3 - 28.8						

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL—WHITE BLOOD CELL 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	913	5.87	0.26	4.4	5.9	4.9 - 6.8	910	14.97	0.63	4.2	15.0	12.7 - 17.3
All Abbott Cell-Dyn Instruments	393	5.96	0.27	4.5	6.0	5.0 - 6.9	397	15.12	0.82	5.5	15.3	12.8 - 17.4
All ABX Instruments	109	5.79	0.15	2.7	5.8	4.9 - 6.7	111	14.68	0.34	2.3	14.7	12.4 - 16.9
All COULTER Instruments	346	5.83	0.19	3.2	5.8	4.9 - 6.8	345	14.97	0.37	2.5	15.0	12.7 - 17.3
All Danam/Drew Scientific Instruments	12	5.78	0.21	3.6	5.8	4.9 - 6.7	12	14.51	0.44	3.0	14.5	12.3 - 16.7
Abbott Cell-Dyn 1700	85	6.06	0.28	4.6	6.1	5.1 - 7.0	86	15.55	0.59	3.8	15.6	13.2 - 17.9
Abbott Cell-Dyn 1800	210	5.97	0.26	4.4	6.0	5.0 - 6.9	205	15.37	0.55	3.6	15.4	13.0 - 17.7
Abbott Cell-Dyn Emerald	93	5.84	0.25	4.3	5.8	4.9 - 6.8	92	14.09	0.54	3.8	14.2	11.9 - 16.3
ABX Diagnostics Micros/45/60	109	5.79	0.15	2.7	5.8	4.9 - 6.7	111	14.68	0.34	2.3	14.7	12.4 - 16.9
Boule Medonic CA 620	15	6.00	0.22	3.7	6.0	5.1 - 6.9	15	15.50	0.28	1.8	15.5	13.1 - 17.9
Boule Medonic M series	32	5.40	0.19	3.5	5.4	4.5 - 6.3	32	14.10	0.47	3.3	14.2	11.9 - 16.3
COULTER AcT 8/10	21	5.84	0.15	2.6	5.8	4.9 - 6.8	21	15.09	0.35	2.3	15.1	12.8 - 17.4
COULTER AcT diff/diff 2	321	5.83	0.19	3.3	5.8	4.9 - 6.8	321	14.96	0.37	2.5	15.0	12.7 - 17.3
Drew Scientific D3	11	5.79	0.22	3.7	5.8	4.9 - 6.7	11	14.47	0.44	3.0	14.4	12.3 - 16.7

Specimen HD-3							Specimen HD-4					
All Method	912	6.37	0.28	4.4	6.4	5.4 - 7.4	913	6.71	0.27	4.1	6.7	5.7 - 7.8
All Abbott Cell-Dyn Instruments	394	6.47	0.32	4.9	6.5	5.4 - 7.5	395	6.80	0.32	4.8	6.8	5.7 - 7.9
All ABX Instruments	110	6.18	0.14	2.3	6.2	5.2 - 7.2	112	6.50	0.18	2.8	6.5	5.5 - 7.5
All COULTER Instruments	345	6.36	0.17	2.7	6.4	5.4 - 7.4	345	6.71	0.17	2.6	6.7	5.7 - 7.8
All Danam/Drew Scientific Instruments	12	6.23	0.17	2.8	6.3	5.2 - 7.2	12	6.61	0.19	2.9	6.6	5.6 - 7.6
Abbott Cell-Dyn 1700	87	6.65	0.26	3.9	6.6	5.6 - 7.7	87	6.96	0.29	4.1	7.0	5.9 - 8.1
Abbott Cell-Dyn 1800	205	6.52	0.26	4.0	6.5	5.5 - 7.5	207	6.86	0.26	3.8	6.9	5.8 - 7.9
Abbott Cell-Dyn Emerald	91	6.17	0.25	4.0	6.2	5.2 - 7.1	91	6.50	0.27	4.1	6.5	5.5 - 7.5
ABX Diagnostics Micros/45/60	110	6.18	0.14	2.3	6.2	5.2 - 7.2	112	6.50	0.18	2.8	6.5	5.5 - 7.5
Boule Medonic CA 620	15	6.53	0.23	3.6	6.5	5.5 - 7.6	14	6.95	0.16	2.2	7.0	5.9 - 8.0
Boule Medonic M series	32	5.93	0.22	3.7	6.0	5.0 - 6.9	32	6.46	0.21	3.2	6.5	5.4 - 7.5
COULTER AcT 8/10	21	6.37	0.21	3.3	6.4	5.4 - 7.4	21	6.74	0.18	2.7	6.8	5.7 - 7.8
COULTER AcT diff/diff 2	320	6.36	0.17	2.7	6.4	5.4 - 7.4	320	6.71	0.17	2.6	6.7	5.7 - 7.8
Drew Scientific D3	11	6.22	0.18	2.9	6.2	5.2 - 7.2	11	6.64	0.17	2.6	6.6	5.6 - 7.7

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	904	15.70	0.65	4.2	15.7	13.3 - 18.1
All Abbott Cell-Dyn Instruments	397	15.84	0.87	5.5	16.0	13.4 - 18.3
All ABX Instruments	111	15.31	0.38	2.5	15.3	13.0 - 17.7
All COULTER Instruments	345	15.69	0.39	2.5	15.7	13.3 - 18.1
All Danam/Drew Scientific Instruments	12	15.18	0.40	2.6	15.0	12.8 - 17.5
Abbott Cell-Dyn 1700	87	16.23	0.66	4.1	16.3	13.7 - 18.7
Abbott Cell-Dyn 1800	208	16.12	0.61	3.8	16.1	13.7 - 18.6
Abbott Cell-Dyn Emerald	92	14.77	0.56	3.8	14.8	12.5 - 17.0
ABX Diagnostics Micros/45/60	111	15.31	0.38	2.5	15.3	13.0 - 17.7
Boule Medonic CA 620	13	16.38	0.61	3.7	16.3	13.9 - 18.9
Boule Medonic M series	31	15.20	0.34	2.2	15.2	12.9 - 17.5
COULTER AcT 8/10	21	15.80	0.42	2.7	15.8	13.4 - 18.2
COULTER AcT diff/diff 2	320	15.68	0.39	2.5	15.7	13.3 - 18.1
Drew Scientific D3	11	15.12	0.37	2.4	15.0	12.8 - 17.4

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

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	913	2.245	0.123	5.5	2.23	2.11 - 2.38
All Abbott Cell-Dyn Instruments	396	2.326	0.107	4.6	2.35	2.18 - 2.47
All ABX Instruments	108	2.204	0.062	2.8	2.21	2.07 - 2.34
All COULTER Instruments	343	2.171	0.096	4.4	2.19	2.04 - 2.31
All Danam/Drew Scientific Instruments	12	2.318	0.076	3.3	2.33	2.17 - 2.46
Abbott Cell-Dyn 1700	87	2.309	0.112	4.8	2.34	2.16 - 2.45
Abbott Cell-Dyn 1800	208	2.361	0.098	4.2	2.38	2.21 - 2.51
Abbott Cell-Dyn Emerald	91	2.273	0.080	3.5	2.28	2.13 - 2.41
ABX Diagnostics Micros/45/60	108	2.204	0.062	2.8	2.21	2.07 - 2.34
Boule Medonic CA 620	14	2.218	0.037	1.7	2.22	2.08 - 2.36
Boule Medonic M series	32	2.177	0.099	4.5	2.22	2.04 - 2.31
COULTER AcT 8/10	20	2.221	0.055	2.5	2.22	2.08 - 2.36
COULTER AcT diff/diff 2	318	2.169	0.096	4.4	2.19	2.03 - 2.30
Drew Scientific D3	11	2.325	0.074	3.2	2.34	2.18 - 2.47

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
911	3.823	0.131	3.4	3.81	3.59 - 4.06
393	3.922	0.107	2.7	3.93	3.68 - 4.16
109	3.774	0.083	2.2	3.77	3.54 - 4.01
341	3.737	0.091	2.4	3.74	3.51 - 3.97
12	3.873	0.145	3.8	3.89	3.64 - 4.11
85	3.935	0.091	2.3	3.94	3.69 - 4.18
207	3.952	0.087	2.2	3.95	3.71 - 4.19
93	3.828	0.115	3.0	3.84	3.59 - 4.06
109	3.774	0.083	2.2	3.77	3.54 - 4.01
15	3.800	0.094	2.5	3.81	3.57 - 4.03
32	3.773	0.077	2.0	3.79	3.54 - 4.00
21	3.779	0.084	2.2	3.77	3.55 - 4.01
316	3.734	0.091	2.4	3.74	3.51 - 3.96
11	3.885	0.146	3.8	3.92	3.65 - 4.12

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	917	2.552	0.104	4.1	2.53	2.39 - 2.71	901	4.843	0.165	3.4	4.85	4.55 - 5.14
All Abbott Cell-Dyn Instruments	395	2.638	0.082	3.1	2.64	2.47 - 2.80	392	4.919	0.160	3.2	4.93	4.62 - 5.22
All ABX Instruments	111	2.487	0.046	1.9	2.48	2.33 - 2.64	110	4.818	0.139	2.9	4.84	4.52 - 5.11
All COULTER Instruments	341	2.484	0.063	2.5	2.49	2.33 - 2.64	332	4.761	0.131	2.7	4.76	4.47 - 5.05
All Danam/Drew Scientific Instruments	12	2.570	0.083	3.2	2.57	2.41 - 2.73	12	4.979	0.185	3.7	4.98	4.68 - 5.28
Abbott Cell-Dyn 1700	87	2.624	0.068	2.6	2.62	2.46 - 2.79	85	4.988	0.146	2.9	5.01	4.68 - 5.29
Abbott Cell-Dyn 1800	208	2.680	0.057	2.1	2.68	2.51 - 2.85	207	4.905	0.159	3.2	4.93	4.61 - 5.20
Abbott Cell-Dyn Emerald	94	2.552	0.081	3.2	2.56	2.39 - 2.71	91	4.894	0.151	3.1	4.90	4.60 - 5.19
ABX Diagnostics Micros/45/60	111	2.487	0.046	1.9	2.48	2.33 - 2.64	110	4.818	0.139	2.9	4.84	4.52 - 5.11
Boule Medonic CA 620	15	2.503	0.040	1.6	2.51	2.35 - 2.66	14	4.869	0.104	2.1	4.89	4.57 - 5.17
Boule Medonic M series	32	2.488	0.043	1.7	2.48	2.33 - 2.64	31	4.890	0.072	1.5	4.89	4.59 - 5.19
COULTER AcT 8/10	21	2.495	0.079	3.2	2.50	2.34 - 2.65	21	4.809	0.102	2.1	4.82	4.52 - 5.10
COULTER AcT diff/diff 2	316	2.483	0.062	2.5	2.48	2.33 - 2.64	308	4.756	0.135	2.8	4.76	4.47 - 5.05
Drew Scientific D3	11	2.575	0.085	3.3	2.57	2.42 - 2.73	11	5.001	0.177	3.5	5.00	4.70 - 5.31
Specimen HD-5												
All Method	902	5.561	0.165	3.0	5.56	5.22 - 5.90						
All Abbott Cell-Dyn Instruments	393	5.611	0.161	2.9	5.62	5.27 - 5.95						
All ABX Instruments	110	5.594	0.127	2.3	5.60	5.25 - 5.94						
All COULTER Instruments	340	5.484	0.151	2.8	5.48	5.15 - 5.82						
All Danam/Drew Scientific Instruments	12	5.700	0.225	4.0	5.77	5.35 - 6.05						
Abbott Cell-Dyn 1700	86	5.683	0.167	2.9	5.69	5.34 - 6.03						
Abbott Cell-Dyn 1800	206	5.571	0.144	2.6	5.57	5.23 - 5.91						
Abbott Cell-Dyn Emerald	92	5.629	0.151	2.7	5.63	5.29 - 5.97						
ABX Diagnostics Micros/45/60	110	5.594	0.127	2.3	5.60	5.25 - 5.94						
Boule Medonic CA 620	15	5.498	0.295	5.4	5.59	5.16 - 5.83						
Boule Medonic M series	30	5.625	0.126	2.2	5.64	5.28 - 5.97						
COULTER AcT 8/10	21	5.544	0.123	2.2	5.56	5.21 - 5.88						
COULTER AcT diff/diff 2	315	5.480	0.153	2.8	5.48	5.15 - 5.81						
Drew Scientific D3	11	5.713	0.232	4.1	5.81	5.36 - 6.06						

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	919	6.75	0.23	3.4	6.7	6.2 - 7.3	921	11.43	0.33	2.8	11.4	10.6 - 12.3
All Abbott Cell-Dyn Instruments	394	6.91	0.20	2.9	6.9	6.4 - 7.4	391	11.67	0.26	2.2	11.7	10.8 - 12.5
All ABX Instruments	109	6.62	0.13	2.0	6.6	6.1 - 7.1	111	11.18	0.20	1.8	11.2	10.4 - 12.0
All COULTER Instruments	343	6.60	0.16	2.4	6.6	6.1 - 7.1	343	11.27	0.25	2.2	11.3	10.4 - 12.1
All Danam/Drew Scientific Instruments	12	6.73	0.29	4.3	6.8	6.2 - 7.2	12	11.38	0.36	3.2	11.5	10.5 - 12.2
Abbott Cell-Dyn 1700	87	6.88	0.16	2.4	6.9	6.3 - 7.4	86	11.59	0.22	1.9	11.6	10.7 - 12.5
Abbott Cell-Dyn 1800	208	7.01	0.15	2.1	7.0	6.5 - 7.5	207	11.80	0.19	1.6	11.8	10.9 - 12.7
Abbott Cell-Dyn Emerald	93	6.69	0.17	2.6	6.7	6.2 - 7.2	93	11.41	0.27	2.4	11.4	10.6 - 12.3
ABX Diagnostics Micros/45/60	109	6.62	0.13	2.0	6.6	6.1 - 7.1	111	11.18	0.20	1.8	11.2	10.4 - 12.0
Boule Medonic CA 620	15	6.81	0.15	2.3	6.9	6.3 - 7.3	15	11.16	0.19	1.7	11.2	10.3 - 12.0
Boule Medonic M series	32	6.90	0.11	1.6	6.9	6.4 - 7.4	32	11.34	0.21	1.8	11.4	10.5 - 12.2
COULTER AcT 8/10	21	6.75	0.16	2.3	6.7	6.2 - 7.3	21	11.47	0.21	1.9	11.5	10.6 - 12.3
COULTER AcT diff/diff 2	319	6.59	0.15	2.3	6.6	6.1 - 7.1	317	11.25	0.23	2.1	11.2	10.4 - 12.1
Drew Scientific D3	11	6.71	0.29	4.4	6.8	6.2 - 7.2	11	11.37	0.37	3.3	11.5	10.5 - 12.2

Specimen HD-3							Specimen HD-4					
All Method	920	8.13	0.24	3.0	8.1	7.5 - 8.8	920	15.11	0.39	2.6	15.1	14.0 - 16.2
All Abbott Cell-Dyn Instruments	397	8.31	0.21	2.6	8.3	7.7 - 8.9	391	15.39	0.30	1.9	15.4	14.3 - 16.5
All ABX Instruments	111	7.97	0.14	1.8	8.0	7.4 - 8.6	110	14.80	0.28	1.9	14.8	13.7 - 15.9
All COULTER Instruments	340	8.00	0.17	2.1	8.0	7.4 - 8.6	345	14.92	0.29	2.0	14.9	13.8 - 16.0
All Danam/Drew Scientific Instruments	11	8.13	0.25	3.1	8.2	7.5 - 8.7	12	15.20	0.49	3.2	15.4	14.1 - 16.3
Abbott Cell-Dyn 1700	86	8.25	0.17	2.1	8.3	7.6 - 8.9	87	15.28	0.24	1.6	15.3	14.2 - 16.4
Abbott Cell-Dyn 1800	206	8.43	0.14	1.6	8.4	7.8 - 9.1	206	15.52	0.24	1.5	15.5	14.4 - 16.7
Abbott Cell-Dyn Emerald	93	8.10	0.19	2.3	8.1	7.5 - 8.7	92	15.19	0.34	2.2	15.2	14.1 - 16.3
ABX Diagnostics Micros/45/60	111	7.97	0.14	1.8	8.0	7.4 - 8.6	110	14.80	0.28	1.9	14.8	13.7 - 15.9
Boule Medonic CA 620	15	8.09	0.16	2.0	8.1	7.5 - 8.7	14	14.82	0.22	1.5	14.9	13.7 - 15.9
Boule Medonic M series	32	8.09	0.13	1.6	8.1	7.5 - 8.7	31	15.01	0.21	1.4	15.0	13.9 - 16.1
COULTER AcT 8/10	20	8.15	0.14	1.7	8.1	7.5 - 8.8	21	15.04	0.31	2.1	15.0	13.9 - 16.1
COULTER AcT diff/diff 2	317	7.99	0.16	2.1	8.0	7.4 - 8.6	321	14.91	0.29	2.0	14.9	13.8 - 16.0
Drew Scientific D3	11	7.66	1.50	19.6	8.2	7.1 - 8.3	11	15.21	0.51	3.4	15.4	14.1 - 16.3

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	919	17.31	0.46	2.7	17.3	16.1 - 18.6
All Abbott Cell-Dyn Instruments	395	17.66	0.36	2.0	17.6	16.4 - 18.9
All ABX Instruments	110	16.88	0.27	1.6	16.9	15.6 - 18.1
All COULTER Instruments	341	17.10	0.33	1.9	17.1	15.9 - 18.3
All Danam/Drew Scientific Instruments	12	17.32	0.61	3.5	17.5	16.1 - 18.6
Abbott Cell-Dyn 1700	87	17.47	0.29	1.7	17.5	16.2 - 18.7
Abbott Cell-Dyn 1800	208	17.81	0.31	1.8	17.8	16.5 - 19.1
Abbott Cell-Dyn Emerald	93	17.52	0.36	2.1	17.5	16.2 - 18.8
ABX Diagnostics Micros/45/60	110	16.88	0.27	1.6	16.9	15.6 - 18.1
Boule Medonic CA 620	15	16.57	0.74	4.4	16.8	15.4 - 17.8
Boule Medonic M series	32	17.16	0.24	1.4	17.1	15.9 - 18.4
COULTER AcT 8/10	21	17.13	0.31	1.8	17.2	15.9 - 18.4
COULTER AcT diff/diff 2	316	17.10	0.33	1.9	17.1	15.8 - 18.3
Drew Scientific D3	11	17.30	0.64	3.7	17.4	16.0 - 18.6

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	918	21.64	1.49	6.9	21.4	20.3 - 23.0
All Abbott Cell-Dyn Instruments	392	22.94	1.05	4.6	23.1	21.5 - 24.4
All ABX Instruments	108	19.99	0.53	2.6	20.0	18.7 - 21.2
All COULTER Instruments	340	20.88	0.67	3.2	20.9	19.6 - 22.2
All Danam/Drew Scientific Instruments	12	22.69	0.85	3.8	22.5	21.3 - 24.1
Abbott Cell-Dyn 1700	87	22.41	1.05	4.7	22.5	21.0 - 23.8
Abbott Cell-Dyn 1800	205	23.24	1.00	4.3	23.3	21.8 - 24.7
Abbott Cell-Dyn Emerald	90	22.87	0.80	3.5	23.0	21.5 - 24.3
ABX Diagnostics Micros/45/60	108	19.99	0.53	2.6	20.0	18.7 - 21.2
Boule Medonic CA 620	15	20.37	0.64	3.2	20.2	19.1 - 21.6
Boule Medonic M series	32	20.79	0.97	4.7	20.9	19.5 - 22.1
COULTER AcT 8/10	21	21.35	0.54	2.5	21.4	20.0 - 22.7
COULTER AcT diff/diff 2	315	20.84	0.67	3.2	20.8	19.5 - 22.1
Drew Scientific D3	11	22.80	0.80	3.5	22.5	21.4 - 24.2

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
915	37.40	2.05	5.5	37.2	35.1 - 39.7
393	39.33	1.10	2.8	39.4	36.9 - 41.7
109	34.80	0.87	2.5	34.7	32.7 - 36.9
341	36.24	0.95	2.6	36.3	34.0 - 38.5
12	38.40	1.29	3.3	38.5	36.0 - 40.8
85	39.00	1.09	2.8	39.0	36.6 - 41.4
208	39.59	1.00	2.5	39.5	37.2 - 42.0
93	39.05	1.19	3.1	39.2	36.7 - 41.4
109	34.80	0.87	2.5	34.7	32.7 - 36.9
15	34.89	1.09	3.1	34.8	32.7 - 37.0
32	36.39	1.20	3.3	36.5	34.2 - 38.6
21	36.90	1.02	2.8	36.9	34.6 - 39.2
316	36.19	0.93	2.6	36.2	34.0 - 38.4
11	38.53	1.27	3.3	38.9	36.2 - 40.9

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	916	26.95	1.85	6.9	26.6	25.3 - 28.6	913	49.48	2.68	5.4	49.2	46.5 - 52.5
All Abbott Cell-Dyn Instruments	394	28.76	0.91	3.2	28.8	27.0 - 30.5	381	51.91	1.53	2.9	52.0	48.7 - 55.1
All ABX Instruments	111	24.43	0.50	2.0	24.4	22.9 - 25.9	109	46.50	1.34	2.9	46.7	43.7 - 49.3
All COULTER Instruments	341	25.88	0.73	2.8	25.9	24.3 - 27.5	336	48.08	1.37	2.9	48.2	45.1 - 51.0
All Danam/Drew Scientific Instruments	12	27.73	0.86	3.1	27.8	26.0 - 29.4	12	51.33	1.91	3.7	51.6	48.2 - 54.5
Abbott Cell-Dyn 1700	87	28.26	0.92	3.3	28.2	26.5 - 30.0	85	51.86	1.69	3.3	51.9	48.7 - 55.0
Abbott Cell-Dyn 1800	207	29.17	0.73	2.5	29.1	27.4 - 31.0	198	51.93	1.42	2.7	52.1	48.8 - 55.1
Abbott Cell-Dyn Emerald	93	28.34	0.84	3.0	28.3	26.6 - 30.1	90	51.99	1.56	3.0	52.0	48.8 - 55.2
ABX Diagnostics Micros/45/60	111	24.43	0.50	2.0	24.4	22.9 - 25.9	109	46.50	1.34	2.9	46.7	43.7 - 49.3
Boule Medonic CA 620	15	24.87	0.79	3.2	24.9	23.3 - 26.4	15	47.27	2.44	5.2	47.2	44.4 - 50.2
Boule Medonic M series	31	25.97	0.68	2.6	26.0	24.4 - 27.6	32	49.57	1.37	2.8	49.6	46.5 - 52.6
COULTER AcT 8/10	21	26.12	0.81	3.1	26.2	24.5 - 27.7	21	48.75	1.16	2.4	48.9	45.8 - 51.7
COULTER AcT diff/diff 2	316	25.86	0.73	2.8	25.9	24.3 - 27.5	312	48.02	1.40	2.9	48.0	45.1 - 50.9
Drew Scientific D3	11	27.78	0.88	3.2	27.9	26.1 - 29.5	11	51.52	1.87	3.6	51.6	48.4 - 54.7
Specimen HD-5												
All Method	908	56.96	2.69	4.7	56.8	53.5 - 60.4						
All Abbott Cell-Dyn Instruments	385	59.14	1.84	3.1	59.2	55.5 - 62.7						
All ABX Instruments	111	54.37	1.36	2.5	54.3	51.1 - 57.7						
All COULTER Instruments	338	55.54	1.67	3.0	55.5	52.2 - 58.9						
All Danam/Drew Scientific Instruments	12	58.64	2.26	3.8	58.8	55.1 - 62.2						
Abbott Cell-Dyn 1700	84	59.28	2.03	3.4	59.3	55.7 - 62.9						
Abbott Cell-Dyn 1800	204	58.81	1.80	3.1	59.0	55.2 - 62.4						
Abbott Cell-Dyn Emerald	90	59.72	1.60	2.7	59.8	56.1 - 63.4						
ABX Diagnostics Micros/45/60	111	54.37	1.36	2.5	54.3	51.1 - 57.7						
Boule Medonic CA 620	13	53.70	1.28	2.4	53.6	50.4 - 57.0						
Boule Medonic M series	32	57.40	2.22	3.9	57.3	53.9 - 60.9						
COULTER AcT 8/10	21	56.33	1.43	2.5	56.6	52.9 - 59.8						
COULTER AcT diff/diff 2	313	55.49	1.68	3.0	55.5	52.1 - 58.9						
Drew Scientific D3	11	58.72	2.35	4.0	59.0	55.1 - 62.3						

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–PLATELET 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	790	481.5	60.0	12.5	493	361 - 602	906	198.7	21.5	10.8	202	149 - 249
All Abbott Cell-Dyn Instruments	326	512.2	29.8	5.8	512	384 - 641	391	211.7	13.0	6.1	211	158 - 265
All ABX Instruments	97	547.5	23.5	4.3	548	410 - 685	109	213.2	12.0	5.6	213	159 - 267
All COULTER Instruments	299	415.9	23.1	5.5	415	311 - 520	339	177.1	14.5	8.2	177	132 - 222
All Danam/Drew Scientific Instruments	12	541.9	31.4	5.8	544	406 - 678	12	213.2	16.8	7.9	214	159 - 267
Abbott Cell-Dyn 1700	72	519.6	29.4	5.7	519	389 - 650	85	215.0	12.1	5.7	214	161 - 269
Abbott Cell-Dyn 1800	172	501.1	27.2	5.4	501	375 - 627	208	209.0	12.2	5.9	208	156 - 262
Abbott Cell-Dyn Emerald	76	533.5	25.6	4.8	532	400 - 667	91	215.2	14.0	6.5	216	161 - 270
ABX Diagnostics Micros/45/60	97	547.5	23.5	4.3	548	410 - 685	109	213.2	12.0	5.6	213	159 - 267
Boule Medonic CA 620	15	494.9	27.4	5.5	494	371 - 619	15	203.5	10.5	5.2	205	152 - 255
Boule Medonic M series	28	524.4	26.1	5.0	528	393 - 656	32	208.9	14.6	7.0	210	156 - 262
COULTER AcT 8/10	20	409.2	25.6	6.3	410	306 - 512	21	171.1	17.2	10.1	171	128 - 214
COULTER AcT diff/diff 2	276	416.2	22.7	5.5	415	312 - 521	312	177.1	13.9	7.8	177	132 - 222
Drew Scientific D3	11	545.5	30.2	5.5	544	409 - 682	11	215.1	16.2	7.5	215	161 - 269
	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	910	99.0	11.2	11.3	99	74 - 124	845	232.5	28.2	12.1	237	174 - 291
All Abbott Cell-Dyn Instruments	392	103.3	8.8	8.6	102	77 - 130	361	253.7	15.4	6.1	253	190 - 318
All ABX Instruments	109	107.2	8.0	7.5	107	80 - 135	97	245.3	12.7	5.2	245	183 - 307
All COULTER Instruments	345	90.6	9.5	10.4	90	67 - 114	317	202.5	14.3	7.1	202	151 - 254
All Danam/Drew Scientific Instruments	12	110.3	10.3	9.4	113	82 - 138	12	251.7	16.9	6.7	254	188 - 315
Abbott Cell-Dyn 1700	86	100.5	7.6	7.6	100	75 - 126	80	256.7	18.1	7.0	255	192 - 321
Abbott Cell-Dyn 1800	208	100.5	6.6	6.6	100	75 - 126	184	255.1	13.7	5.4	255	191 - 319
Abbott Cell-Dyn Emerald	88	112.7	7.5	6.6	112	84 - 141	90	248.6	15.3	6.2	249	186 - 311
ABX Diagnostics Micros/45/60	109	107.2	8.0	7.5	107	80 - 135	97	245.3	12.7	5.2	245	183 - 307
Boule Medonic CA 620	15	96.6	8.8	9.1	98	72 - 121	14	229.3	11.6	5.0	229	171 - 287
Boule Medonic M series	32	105.0	7.4	7.0	104	78 - 132	31	233.9	12.1	5.2	235	175 - 293
COULTER AcT 8/10	21	85.5	8.5	9.9	87	64 - 107	21	199.9	15.4	7.7	203	149 - 250
COULTER AcT diff/diff 2	320	91.0	9.5	10.4	90	68 - 114	292	202.3	13.9	6.8	202	151 - 253
Drew Scientific D3	11	111.6	9.7	8.7	114	83 - 140	11	254.5	14.5	5.7	254	190 - 319

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	864	449.2	66.1	14.7	461	336 - 562
All Abbott Cell-Dyn Instruments	364	506.9	29.1	5.7	506	380 - 634
All ABX Instruments	102	463.8	16.1	3.5	464	347 - 580
All COULTER Instruments	331	378.4	31.0	8.2	373	283 - 474
All Danam/Drew Scientific Instruments	12	493.3	31.3	6.3	491	369 - 617
Abbott Cell-Dyn 1700	77	492.0	31.3	6.4	493	368 - 615
Abbott Cell-Dyn 1800	190	518.7	24.2	4.7	519	389 - 649
Abbott Cell-Dyn Emerald	89	494.6	25.4	5.1	494	370 - 619
ABX Diagnostics Micros/45/60	102	463.8	16.1	3.5	464	347 - 580
Boule Medonic CA 620	13	432.5	16.0	3.7	428	324 - 541
Boule Medonic M series	28	440.8	21.7	4.9	444	330 - 551
COULTER AcT 8/10	20	407.7	29.6	7.3	410	305 - 510
COULTER AcT diff/diff 2	306	375.6	29.2	7.8	371	281 - 470
Drew Scientific D3	11	498.2	27.5	5.5	491	373 - 623

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	854	37.91	1.61	4.3	38.2	33.0 - 42.8
All Abbott Cell-Dyn Instruments	371	37.43	1.77	4.7	37.2	32.1 - 42.8
All ABX Instruments	106	38.00	1.20	3.1	38.0	34.4 - 41.6
All COULTER Instruments	308	38.67	0.89	2.3	38.8	35.9 - 41.4
All Danam/Drew Scientific Instruments	12	38.04	1.84	4.8	38.5	32.5 - 43.6
Abbott Cell-Dyn 1700	80	38.05	1.29	3.4	37.9	34.1 - 42.0
Abbott Cell-Dyn 1800	192	36.22	1.11	3.1	36.2	32.9 - 39.6
Abbott Cell-Dyn Emerald	89	39.28	1.09	2.8	39.2	36.0 - 42.6
ABX Diagnostics Micros/45/60	106	38.00	1.20	3.1	38.0	34.4 - 41.6
Boule Medonic CA 620	15	39.21	1.08	2.8	39.1	35.9 - 42.5
Boule Medonic M series	31	35.20	1.23	3.5	35.1	31.5 - 38.9
COULTER AcT 8/10	16	35.71	0.77	2.2	35.8	33.3 - 38.1
COULTER AcT diff/diff 2	297	38.73	0.80	2.1	38.8	36.3 - 41.2
Drew Scientific D3	11	37.87	1.83	4.8	38.4	32.3 - 43.4

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
859	46.33	1.53	3.3	46.4	41.7 - 51.0
373	45.36	1.09	2.4	45.4	42.1 - 48.7
107	46.07	0.58	1.3	46.1	44.3 - 47.9
300	47.86	0.53	1.1	47.8	46.2 - 49.5
12	46.92	0.76	1.6	46.8	44.6 - 49.3
79	46.01	0.81	1.8	45.9	43.5 - 48.5
198	44.68	0.85	1.9	44.7	42.1 - 47.3
89	46.26	0.64	1.4	46.2	44.3 - 48.2
107	46.07	0.58	1.3	46.1	44.3 - 47.9
15	48.10	0.75	1.6	48.1	45.8 - 50.4
32	44.76	1.33	3.0	44.7	40.7 - 48.8
16	42.63	0.73	1.7	42.8	40.4 - 44.9
299	47.86	0.53	1.1	47.8	46.2 - 49.5
11	46.73	0.41	0.9	46.7	45.5 - 48.0

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	855	39.48	1.38	3.5	39.7	35.3 - 43.7	858	34.52	1.71	5.0	34.7	29.3 - 39.7
All Abbott Cell-Dyn Instruments	370	38.69	1.24	3.2	38.8	34.9 - 42.5	371	34.08	1.66	4.9	34.0	29.0 - 39.1
All ABX Instruments	107	39.60	0.76	1.9	39.6	37.3 - 41.9	107	32.83	0.95	2.9	32.7	29.9 - 35.7
All COULTER Instruments	306	40.49	0.76	1.9	40.6	38.2 - 42.8	304	35.44	0.95	2.7	35.4	32.5 - 38.3
All Danam/Drew Scientific Instruments	12	40.06	1.10	2.7	39.8	36.7 - 43.4	12	36.15	1.57	4.3	36.5	31.4 - 40.9
Abbott Cell-Dyn 1700	80	39.26	0.93	2.4	39.3	36.4 - 42.1	79	35.51	1.45	4.1	35.6	31.1 - 39.9
Abbott Cell-Dyn 1800	196	37.93	0.95	2.5	37.9	35.0 - 40.8	197	33.09	1.15	3.5	33.1	29.6 - 36.6
Abbott Cell-Dyn Emerald	89	39.83	0.93	2.3	39.7	37.0 - 42.7	90	35.08	1.25	3.6	34.9	31.3 - 38.9
ABX Diagnostics Micros/45/60	107	39.60	0.76	1.9	39.6	37.3 - 41.9	107	32.83	0.95	2.9	32.7	29.9 - 35.7
Boule Medonic CA 620	15	41.24	1.21	2.9	41.4	37.6 - 44.9	14	37.49	0.97	2.6	37.4	34.5 - 40.4
Boule Medonic M series	32	37.98	1.50	4.0	38.0	33.4 - 42.5	32	35.43	1.14	3.2	35.5	31.9 - 38.9
COULTER AcT 8/10	16	37.76	0.61	1.6	37.6	35.9 - 39.6	15	31.45	0.79	2.5	31.5	29.0 - 33.9
COULTER AcT diff/diff 2	296	40.54	0.69	1.7	40.6	38.4 - 42.6	299	35.47	0.90	2.5	35.5	32.7 - 38.2
Drew Scientific D3	11	39.80	0.67	1.7	39.7	37.7 - 41.9	11	35.91	1.39	3.9	36.4	31.7 - 40.1
Specimen HD-5												
All Method	861	44.26	1.69	3.8	44.3	39.1 - 49.4						
All Abbott Cell-Dyn Instruments	372	43.18	1.27	2.9	43.2	39.3 - 47.0						
All ABX Instruments	107	43.59	0.69	1.6	43.6	41.5 - 45.7						
All COULTER Instruments	299	45.70	0.58	1.3	45.7	43.9 - 47.5						
All Danam/Drew Scientific Instruments	12	44.76	1.20	2.7	44.9	41.1 - 48.4						
Abbott Cell-Dyn 1700	80	44.21	1.06	2.4	44.1	41.0 - 47.4						
Abbott Cell-Dyn 1800	197	42.43	1.03	2.4	42.4	39.3 - 45.6						
Abbott Cell-Dyn Emerald	87	43.84	0.58	1.3	43.8	42.0 - 45.6						
ABX Diagnostics Micros/45/60	107	43.59	0.69	1.6	43.6	41.5 - 45.7						
Boule Medonic CA 620	15	46.09	3.38	7.3	47.2	35.9 - 56.3						
Boule Medonic M series	32	45.63	0.86	1.9	45.7	43.0 - 48.3						
COULTER AcT 8/10	16	40.22	0.63	1.6	40.3	38.3 - 42.1						
COULTER AcT diff/diff 2	296	45.71	0.56	1.2	45.7	44.0 - 47.5						
Drew Scientific D3	11	44.48	0.75	1.7	44.8	42.2 - 46.8						

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

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	839	6.85	1.64	23.9	7.4	1.9 - 11.8	841	5.10	1.20	23.5	5.6	1.5 - 8.8
All Abbott Cell-Dyn Instruments	368	6.56	1.40	21.3	7.0	2.3 - 10.8	370	4.98	1.13	22.7	5.3	1.5 - 8.4
All ABX Instruments	110	4.19	0.65	15.5	4.1	2.2 - 6.2	108	3.15	0.49	15.6	3.0	1.6 - 4.7
All COULTER Instruments	294	8.18	0.46	5.7	8.1	6.7 - 9.6	299	5.98	0.26	4.3	6.0	5.2 - 6.8
All Danam/Drew Scientific Instruments	12	6.50	0.45	6.9	6.7	5.1 - 7.9	12	4.86	0.46	9.5	5.0	3.4 - 6.3
Abbott Cell-Dyn 1700	77	6.64	0.46	7.0	6.6	5.2 - 8.1	77	4.89	0.25	5.2	4.9	4.1 - 5.7
Abbott Cell-Dyn 1800	192	7.53	0.54	7.1	7.6	5.9 - 9.2	192	5.84	0.43	7.3	5.8	4.5 - 7.2
Abbott Cell-Dyn Emerald	88	4.40	0.35	7.9	4.4	3.3 - 5.5	89	3.26	0.23	7.2	3.3	2.5 - 4.0
ABX Diagnostics Micros/45/60	110	4.19	0.65	15.5	4.1	2.2 - 6.2	108	3.15	0.49	15.6	3.0	1.6 - 4.7
Boule Medonic CA 620	15	7.43	1.14	15.4	7.4	3.9 - 10.9	14	5.01	0.26	5.2	5.0	4.2 - 5.8
Boule Medonic M series	30	6.74	0.88	13.0	6.6	4.1 - 9.4	30	4.78	0.44	9.2	4.8	3.4 - 6.2
COULTER AcT diff/diff 2	293	8.18	0.46	5.7	8.1	6.7 - 9.6	294	5.99	0.24	4.0	6.0	5.2 - 6.8
Drew Scientific D3	11	6.58	0.37	5.6	6.7	5.4 - 7.7	11	4.95	0.33	6.7	5.0	3.9 - 6.0

Specimen HD-3							Specimen HD-4					
All Method	840	6.94	2.06	29.7	7.6	0.7 - 13.2	840	8.17	1.46	17.9	8.5	3.7 - 12.6
All Abbott Cell-Dyn Instruments	370	6.52	1.66	25.5	7.2	1.5 - 11.6	370	7.86	1.43	18.2	8.0	3.5 - 12.2
All ABX Instruments	107	3.39	0.75	22.0	3.2	1.1 - 5.7	110	6.45	0.63	9.7	6.3	4.5 - 8.4
All COULTER Instruments	298	8.74	0.44	5.1	8.7	7.4 - 10.1	300	9.31	0.72	7.8	9.3	7.1 - 11.5
All Danam/Drew Scientific Instruments	12	7.11	0.75	10.6	7.2	4.8 - 9.4	12	6.81	0.67	9.9	6.8	4.7 - 8.9
Abbott Cell-Dyn 1700	79	6.95	0.44	6.3	7.0	5.6 - 8.3	80	7.28	0.78	10.7	7.2	4.9 - 9.7
Abbott Cell-Dyn 1800	190	7.61	0.50	6.5	7.6	6.1 - 9.1	194	8.97	0.77	8.6	9.0	6.6 - 11.3
Abbott Cell-Dyn Emerald	90	3.84	0.38	9.9	3.8	2.6 - 5.0	87	6.05	0.47	7.8	6.1	4.6 - 7.5
ABX Diagnostics Micros/45/60	107	3.39	0.75	22.0	3.2	1.1 - 5.7	110	6.45	0.63	9.7	6.3	4.5 - 8.4
Boule Medonic CA 620	15	7.57	1.12	14.8	7.6	4.2 - 11.0	15	7.31	0.62	8.5	7.5	5.4 - 9.2
Boule Medonic M series	31	6.53	0.79	12.1	6.4	4.1 - 8.9	31	7.66	0.91	11.8	7.7	4.9 - 10.4
COULTER AcT diff/diff 2	297	8.74	0.44	5.1	8.7	7.4 - 10.1	299	9.31	0.72	7.8	9.3	7.1 - 11.5
Drew Scientific D3	11	7.25	0.59	8.1	7.3	5.4 - 9.1	11	6.88	0.66	9.5	6.9	4.9 - 8.9

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–MONO/MID/MIXED/MCR (percent) 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	840	6.77	1.64	24.2	7.5	1.8 - 11.7
All Abbott Cell-Dyn Instruments	370	6.59	1.50	22.7	7.0	2.0 - 11.1
All ABX Instruments	107	4.10	0.61	14.8	3.9	2.2 - 6.0
All COULTER Instruments	297	8.08	0.37	4.5	8.1	6.9 - 9.2
All Danam/Drew Scientific Instruments	12	6.53	0.56	8.6	6.6	4.8 - 8.3
Abbott Cell-Dyn 1700	76	6.57	0.32	4.9	6.6	5.6 - 7.6
Abbott Cell-Dyn 1800	192	7.70	0.51	6.6	7.7	6.1 - 9.3
Abbott Cell-Dyn Emerald	90	4.27	0.28	6.6	4.2	3.4 - 5.2
ABX Diagnostics Micros/45/60	107	4.10	0.61	14.8	3.9	2.2 - 6.0
Boule Medonic CA 620	15	6.97	0.82	11.8	7.0	4.5 - 9.5
Boule Medonic M series	31	5.74	0.50	8.7	5.6	4.2 - 7.3
COULTER AcT diff/diff 2	296	8.08	0.37	4.5	8.1	6.9 - 9.2
Drew Scientific D3	11	6.63	0.48	7.3	6.6	5.1 - 8.1

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

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	841	55.15	2.13	3.9	55.3	48.7 - 61.6	843	48.51	2.01	4.1	49.0	42.4 - 54.6
All Abbott Cell-Dyn Instruments	361	56.06	1.12	2.0	56.2	52.6 - 59.5	367	49.68	0.79	1.6	49.7	47.3 - 52.1
All ABX Instruments	106	57.85	1.50	2.6	58.0	53.3 - 62.4	108	50.81	0.84	1.7	51.0	48.2 - 53.4
All COULTER Instruments	301	53.07	0.80	1.5	53.0	50.6 - 55.5	299	46.16	0.53	1.2	46.2	44.5 - 47.8
All Danam/Drew Scientific Instruments	12	54.96	0.64	1.2	54.9	53.0 - 56.9	12	48.23	0.58	1.2	48.3	46.4 - 50.0
Abbott Cell-Dyn 1700	77	55.42	1.21	2.2	55.6	51.7 - 59.1	80	49.12	0.88	1.8	49.2	46.4 - 51.8
Abbott Cell-Dyn 1800	192	56.22	0.96	1.7	56.2	53.3 - 59.1	196	49.50	0.64	1.3	49.5	47.5 - 51.5
Abbott Cell-Dyn Emerald	89	56.26	1.20	2.1	56.4	52.6 - 59.9	89	50.45	0.62	1.2	50.5	48.5 - 52.4
ABX Diagnostics Micros/45/60	106	57.85	1.50	2.6	58.0	53.3 - 62.4	108	50.81	0.84	1.7	51.0	48.2 - 53.4
Boule Medonic CA 620	15	53.36	1.44	2.7	53.3	49.0 - 57.7	15	46.76	0.92	2.0	46.6	43.9 - 49.6
Boule Medonic M series	31	58.05	1.17	2.0	58.2	54.5 - 61.6	32	50.47	1.21	2.4	50.5	46.8 - 54.1
COULTER AcT diff/diff 2	300	53.07	0.80	1.5	53.0	50.6 - 55.5	298	46.16	0.53	1.2	46.2	44.5 - 47.8
Drew Scientific D3	11	55.00	0.65	1.2	54.9	53.0 - 57.0	11	48.32	0.51	1.1	48.3	46.7 - 49.9

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	843	53.55	2.59	4.8	53.7	45.7 - 61.4	844	57.23	2.16	3.8	57.1	50.7 - 63.8
All Abbott Cell-Dyn Instruments	373	54.78	1.36	2.5	54.7	50.6 - 58.9	369	58.02	1.16	2.0	58.0	54.5 - 61.5
All ABX Instruments	109	56.97	1.25	2.2	57.1	53.2 - 60.8	108	60.75	1.30	2.1	60.9	56.8 - 64.7
All COULTER Instruments	296	50.71	0.72	1.4	50.7	48.5 - 52.9	299	55.23	0.75	1.4	55.3	52.9 - 57.5
All Danam/Drew Scientific Instruments	12	52.84	0.83	1.6	53.1	50.3 - 55.4	12	57.03	1.16	2.0	56.7	53.5 - 60.6
Abbott Cell-Dyn 1700	80	53.85	1.02	1.9	53.9	50.7 - 57.0	78	57.34	1.15	2.0	57.3	53.8 - 60.8
Abbott Cell-Dyn 1800	197	54.48	0.99	1.8	54.5	51.5 - 57.5	196	57.94	0.92	1.6	58.0	55.1 - 60.7
Abbott Cell-Dyn Emerald	89	56.38	1.03	1.8	56.6	53.3 - 59.5	91	58.77	1.20	2.0	59.1	55.1 - 62.4
ABX Diagnostics Micros/45/60	109	56.97	1.25	2.2	57.1	53.2 - 60.8	108	60.75	1.30	2.1	60.9	56.8 - 64.7
Boule Medonic CA 620	15	51.19	1.49	2.9	51.3	46.7 - 55.7	14	55.22	1.13	2.0	55.6	51.8 - 58.7
Boule Medonic M series	31	55.52	1.49	2.7	55.5	51.0 - 60.1	32	56.91	1.54	2.7	57.1	52.3 - 61.6
COULTER AcT diff/diff 2	295	50.71	0.72	1.4	50.7	48.5 - 52.9	298	55.24	0.75	1.4	55.3	52.9 - 57.5
Drew Scientific D3	11	52.95	0.79	1.5	53.1	50.5 - 55.4	11	57.21	1.04	1.8	56.8	54.0 - 60.4
Specimen HD-5												
All Method	843	48.89	2.49	5.1	49.2	41.4 - 56.4						
All Abbott Cell-Dyn Instruments	369	50.21	1.29	2.6	50.2	46.3 - 54.1						
All ABX Instruments	110	52.29	1.08	2.1	52.5	49.0 - 55.6						
All COULTER Instruments	296	46.22	0.60	1.3	46.2	44.4 - 48.1						
All Danam/Drew Scientific Instruments	12	48.71	1.18	2.4	48.5	45.1 - 52.3						
Abbott Cell-Dyn 1700	79	49.27	1.07	2.2	49.4	46.0 - 52.5						
Abbott Cell-Dyn 1800	194	49.91	0.75	1.5	49.9	47.6 - 52.2						
Abbott Cell-Dyn Emerald	86	51.92	0.61	1.2	51.9	50.0 - 53.8						
ABX Diagnostics Micros/45/60	110	52.29	1.08	2.1	52.5	49.0 - 55.6						
Boule Medonic CA 620	15	46.94	3.20	6.8	45.9	37.3 - 56.6						
Boule Medonic M series	31	48.62	0.93	1.9	48.5	45.8 - 51.5						
COULTER AcT diff/diff 2	295	46.22	0.59	1.3	46.2	44.4 - 48.0						
Drew Scientific D3	11	48.89	1.04	2.1	48.5	45.7 - 52.1						

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	26	3.90	0.15	3.9	3.9	3.3 - 4.5	26	9.40	0.30	3.2	9.4	7.9 - 10.9
All COULTER Instruments	26	3.90	0.15	3.9	3.9	3.3 - 4.5	26	9.40	0.30	3.2	9.4	7.9 - 10.9
COULTER HmX	10	3.93	0.15	3.8	4.0	3.3 - 4.6	10	9.33	0.25	2.7	9.4	7.9 - 10.8
	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	26	21.12	0.59	2.8	21.0	17.9 - 24.3	26	9.44	0.29	3.1	9.5	8.0 - 10.9
All COULTER Instruments	26	21.12	0.59	2.8	21.0	17.9 - 24.3	26	9.44	0.29	3.1	9.5	8.0 - 10.9
COULTER HmX	10	20.90	0.50	2.4	20.9	17.7 - 24.1	10	9.35	0.29	3.1	9.5	7.9 - 10.8
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	21.08	0.60	2.8	21.0	17.9 - 24.3						
All COULTER Instruments	26	21.08	0.60	2.8	21.0	17.9 - 24.3						
COULTER HmX	10	20.98	0.43	2.0	21.1	17.8 - 24.2						

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	26	2.577	0.069	2.7	2.56	2.42 - 2.74	26	4.020	0.070	1.7	4.02	3.77 - 4.27
All COULTER Instruments	26	2.577	0.069	2.7	2.56	2.42 - 2.74	26	4.020	0.070	1.7	4.02	3.77 - 4.27
COULTER HmX	10	2.567	0.059	2.3	2.56	2.41 - 2.73	10	4.008	0.071	1.8	4.01	3.76 - 4.25
	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	25	5.348	0.101	1.9	5.34	5.02 - 5.67	26	4.021	0.078	1.9	4.02	3.77 - 4.27
All COULTER Instruments	25	5.348	0.101	1.9	5.34	5.02 - 5.67	26	4.021	0.078	1.9	4.02	3.77 - 4.27
COULTER HmX	10	5.320	0.075	1.4	5.32	5.00 - 5.64	10	4.006	0.079	2.0	4.00	3.76 - 4.25
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	5.330	0.099	1.9	5.34	5.00 - 5.65						
All COULTER Instruments	26	5.330	0.099	1.9	5.34	5.00 - 5.65						
COULTER HmX	10	5.289	0.086	1.6	5.31	4.97 - 5.61						

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	26	6.67	0.10	1.5	6.7	6.2 - 7.2	26	11.99	0.12	1.0	12.0	11.1 - 12.9
All COULTER Instruments	26	6.67	0.10	1.5	6.7	6.2 - 7.2	26	11.99	0.12	1.0	12.0	11.1 - 12.9
COULTER HmX	10	6.66	0.12	1.8	6.7	6.1 - 7.2	10	11.97	0.12	1.0	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	26	17.38	0.25	1.4	17.4	16.1 - 18.6	26	12.05	0.15	1.2	12.1	11.2 - 12.9
All COULTER Instruments	26	17.38	0.25	1.4	17.4	16.1 - 18.6	26	12.05	0.15	1.2	12.1	11.2 - 12.9
COULTER HmX	10	17.32	0.24	1.4	17.4	16.1 - 18.6	10	12.02	0.12	1.0	12.1	11.1 - 12.9
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	17.35	0.21	1.2	17.4	16.1 - 18.6						
All COULTER Instruments	26	17.35	0.21	1.2	17.4	16.1 - 18.6						
COULTER HmX	10	17.35	0.21	1.2	17.4	16.1 - 18.6						

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	26	20.30	0.56	2.8	20.3	19.0 - 21.6	25	36.91	0.67	1.8	36.9	34.6 - 39.2
All COULTER Instruments	26	20.30	0.56	2.8	20.3	19.0 - 21.6	25	36.91	0.67	1.8	36.9	34.6 - 39.2
COULTER HmX	10	20.25	0.53	2.6	20.3	19.0 - 21.5	10	36.59	0.66	1.8	36.7	34.3 - 38.8
	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	25	54.36	1.13	2.1	54.1	51.0 - 57.7	26	36.88	0.87	2.4	36.9	34.6 - 39.1
All COULTER Instruments	25	54.36	1.13	2.1	54.1	51.0 - 57.7	26	36.88	0.87	2.4	36.9	34.6 - 39.1
COULTER HmX	10	53.92	0.81	1.5	54.1	50.6 - 57.2	10	36.64	0.73	2.0	36.7	34.4 - 38.9
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	54.12	1.24	2.3	54.1	50.8 - 57.4						
All COULTER Instruments	26	54.12	1.24	2.3	54.1	50.8 - 57.4						
COULTER HmX	10	53.55	0.90	1.7	53.6	50.3 - 56.8						

HEMATOLOGY W/ 5-PART DIFFERENTIAL-PLATELET COUNT ($\times 10^9/L$)

<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	26	72.9	3.6	5.0	73	54 - 92	26	210.8	7.3	3.5	212	158 - 264
All COULTER Instruments	26	72.9	3.6	5.0	73	54 - 92	26	210.8	7.3	3.5	212	158 - 264
COULTER HmX	10	71.9	3.2	4.5	72	53 - 90	10	205.2	6.4	3.1	206	153 - 257
	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	26	407.5	14.6	3.6	410	305 - 510	25	211.0	5.1	2.4	211	158 - 264
All COULTER Instruments	26	407.5	14.6	3.6	410	305 - 510	25	211.0	5.1	2.4	211	158 - 264
COULTER HmX	10	403.4	12.7	3.1	402	302 - 505	10	207.7	7.9	3.8	209	155 - 260
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	403.9	12.3	3.1	405	302 - 505						
All COULTER Instruments	26	403.9	12.3	3.1	405	302 - 505						
COULTER HmX	10	398.9	13.3	3.3	402	299 - 499						

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	24	53.55	1.07	2.0	53.6	50.3 - 56.8	25	59.29	1.56	2.6	59.0	54.5 - 64.0
All COULTER Instruments	24	53.55	1.07	2.0	53.6	50.3 - 56.8	25	59.29	1.56	2.6	59.0	54.5 - 64.0
COULTER HmX	10	53.49	1.28	2.4	53.7	49.6 - 57.4	10	58.93	1.85	3.1	58.4	53.3 - 64.5
	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	24	68.47	1.71	2.5	68.3	63.3 - 73.6	24	59.30	1.59	2.7	59.2	54.5 - 64.1
All COULTER Instruments	24	68.47	1.71	2.5	68.3	63.3 - 73.6	24	59.30	1.59	2.7	59.2	54.5 - 64.1
COULTER HmX	10	68.30	1.89	2.8	68.3	62.6 - 74.0	10	58.79	1.51	2.6	58.6	54.2 - 63.4
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	67.98	1.51	2.2	68.1	63.4 - 72.6						
All COULTER Instruments	25	67.98	1.51	2.2	68.1	63.4 - 72.6						
COULTER HmX	10	67.75	1.45	2.1	67.3	63.4 - 72.1						

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	24	37.59	1.97	5.2	38.0	31.6 - 43.5	25	30.55	1.09	3.6	30.9	27.2 - 33.9
All COULTER Instruments	24	37.59	1.97	5.2	38.0	31.6 - 43.5	25	30.55	1.09	3.6	30.9	27.2 - 33.9
COULTER HmX	10	37.87	1.58	4.2	38.0	33.1 - 42.6	10	30.86	1.36	4.4	31.3	26.7 - 35.0
	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	24	20.91	0.91	4.3	21.0	18.1 - 23.7	23	30.56	1.16	3.8	30.7	27.0 - 34.1
All COULTER Instruments	24	20.91	0.91	4.3	21.0	18.1 - 23.7	23	30.56	1.16	3.8	30.7	27.0 - 34.1
COULTER HmX	10	21.21	1.07	5.0	21.1	18.0 - 24.5	10	31.05	1.25	4.0	31.0	27.2 - 34.9
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	21.08	1.05	5.0	21.2	17.9 - 24.3						
All COULTER Instruments	25	21.08	1.05	5.0	21.2	17.9 - 24.3						
COULTER HmX	10	21.37	1.49	7.0	21.5	16.8 - 25.9						

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	24	0.59	0.29	49.8	0.6	0.0 - 1.5	25	3.66	1.28	35.0	4.0	0.0 - 7.6
All COULTER Instruments	24	0.59	0.29	49.8	0.6	0.0 - 1.5	25	3.66	1.28	35.0	4.0	0.0 - 7.6
COULTER HmX	10	0.81	0.20	25.0	0.9	0.2 - 1.5	10	4.12	1.07	26.0	4.4	0.9 - 7.4
	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	24	5.68	1.23	21.7	5.7	1.9 - 9.4	25	4.01	1.08	27.0	4.1	0.7 - 7.3
All COULTER Instruments	24	5.68	1.23	21.7	5.7	1.9 - 9.4	25	4.01	1.08	27.0	4.1	0.7 - 7.3
COULTER HmX	10	5.53	1.50	27.1	5.6	1.0 - 10.1	10	4.10	0.66	16.1	4.2	2.1 - 6.1
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	6.02	1.19	19.9	6.0	2.4 - 9.7						
All COULTER Instruments	25	6.02	1.19	19.9	6.0	2.4 - 9.7						
COULTER HmX	10	5.92	0.84	14.2	6.1	3.3 - 8.5						

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	24	7.58	0.35	4.7	7.6	6.5 - 8.7	25	5.75	0.39	6.8	5.6	4.5 - 7.0
All COULTER Instruments	24	7.58	0.35	4.7	7.6	6.5 - 8.7	25	5.75	0.39	6.8	5.6	4.5 - 7.0
COULTER HmX	10	7.69	0.38	4.9	7.7	6.5 - 8.9	10	5.84	0.43	7.4	5.7	4.5 - 7.2
	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	24	4.20	0.39	9.3	4.1	3.0 - 5.4	25	5.76	0.39	6.8	5.8	4.5 - 7.0
All COULTER Instruments	24	4.20	0.39	9.3	4.1	3.0 - 5.4	25	5.76	0.39	6.8	5.8	4.5 - 7.0
COULTER HmX	10	4.19	0.36	8.5	4.2	3.1 - 5.3	10	5.82	0.47	8.0	5.8	4.4 - 7.3
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	4.33	0.45	10.4	4.3	2.9 - 5.7						
All COULTER Instruments	25	4.33	0.45	10.4	4.3	2.9 - 5.7						
COULTER HmX	10	4.43	0.50	11.3	4.4	2.9 - 6.0						

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	0.17	0.19	113.7	0.1	0.0 - 0.8	25	0.61	0.74	121.4	0.3	0.0 - 2.9
All COULTER Instruments	22	0.17	0.19	113.7	0.1	0.0 - 0.8	25	0.61	0.74	121.4	0.3	0.0 - 2.9
COULTER HmX	10	0.11	0.23	207.5	0.0	0.0 - 0.8	10	0.27	0.39	143.0	0.1	0.0 - 1.5
	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	25	0.70	0.63	91.1	0.5	0.0 - 2.6	24	0.46	0.47	102.7	0.3	0.0 - 1.9
All COULTER Instruments	25	0.70	0.63	91.1	0.5	0.0 - 2.6	24	0.46	0.47	102.7	0.3	0.0 - 1.9
COULTER HmX	10	0.73	0.52	70.8	0.9	0.0 - 2.3	10	0.28	0.28	99.3	0.3	0.0 - 1.2
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	25	0.61	0.49	79.9	0.5	0.0 - 2.1						
All COULTER Instruments	25	0.61	0.49	79.9	0.5	0.0 - 2.1						
COULTER HmX	10	0.57	0.42	73.1	0.5	0.0 - 1.9						

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	12	28.83	0.51	1.8	29.0	27.1 - 30.6	13	33.33	1.05	3.2	33.5	31.3 - 35.4
QBC Autoread-Cap. Std. Tube	6	28.83	0.42	1.4	28.8	27.1 - 30.6	6	33.45	0.38	1.1	33.6	31.4 - 35.5
QBC STAR - QBC STAR Tubes	5	28.96	0.62	2.1	29.2	27.2 - 30.7	5	33.94	0.72	2.1	34.1	31.9 - 36.0
			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	13	22.52	1.54	6.8	22.8	21.1 - 23.9	13	36.53	0.92	2.5	36.7	34.3 - 38.8
QBC Autoread-Cap. Std. Tube	6	23.38	1.22	5.2	23.3	21.9 - 24.8	6	36.73	0.50	1.4	36.7	34.5 - 39.0
QBC STAR - QBC STAR Tubes	5	22.42	0.48	2.1	22.4	21.0 - 23.8	5	36.92	0.85	2.3	37.1	34.7 - 39.2
			Specimen QBC-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	28.40	1.20	4.2	28.5	26.6 - 30.2						
QBC Autoread-Cap. Std. Tube	6	28.58	0.36	1.3	28.7	26.8 - 30.3						
QBC STAR - QBC STAR Tubes	5	29.00	0.79	2.7	29.2	27.2 - 30.8						

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	13	9.85	0.43	4.3	10.0	9.1 - 10.6	13	11.62	0.39	3.3	11.8	10.8 - 12.5
QBC Autoread-Cap. Std. Tube	6	10.17	0.10	1.0	10.1	9.4 - 10.9	6	11.92	0.12	1.0	11.9	11.0 - 12.8
QBC STAR - QBC STAR Tubes	5	9.76	0.17	1.7	9.8	9.0 - 10.5	5	11.54	0.19	1.7	11.6	10.7 - 12.4
			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	13	7.78	0.56	7.2	7.8	7.2 - 8.4	13	12.62	0.38	3.0	12.6	11.7 - 13.6
QBC Autoread-Cap. Std. Tube	6	8.18	0.42	5.1	8.1	7.6 - 8.8	6	12.90	0.13	1.0	12.9	11.9 - 13.9
QBC STAR - QBC STAR Tubes	5	7.60	0.23	3.1	7.5	7.0 - 8.2	5	12.56	0.05	0.4	12.6	11.6 - 13.5
			Specimen QBC-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	9.89	0.44	4.5	10.0	9.1 - 10.6						
QBC Autoread-Cap. Std. Tube	6	10.25	0.08	0.8	10.3	9.5 - 11.0						
QBC STAR - QBC STAR Tubes	5	9.76	0.17	1.7	9.8	9.0 - 10.5						

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

<u>Instrument</u>	Specimen QBC-1						Specimen QBC-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	8	9.58	0.68	7.1	10.0	8.1 - 11.1	8	14.55	1.18	8.1	15.6	12.3 - 16.8
QBC Autoread-Cap. Std. Tube	6	9.45	0.67	7.0	9.3	8.0 - 10.9	6	14.55	1.23	8.4	14.2	12.3 - 16.8
QBC STAR - QBC STAR Tubes	5	11.20	1.24	11.1	11.1	9.5 - 12.9	5	18.50	2.18	11.8	19.1	15.7 - 21.3
	Specimen QBC-3						Specimen QBC-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	8	6.80	0.61	9.0	6.7	5.7 - 7.9	8	17.21	1.16	6.7	18.4	14.6 - 19.8
QBC Autoread-Cap. Std. Tube	6	6.87	0.69	10.0	6.6	5.8 - 7.9	6	16.75	0.91	5.5	16.8	14.2 - 19.3
QBC STAR - QBC STAR Tubes	5	7.04	0.75	10.7	7.4	5.9 - 8.1	5	28.20	3.88	13.7	27.1	23.9 - 32.5
	Specimen QBC-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	10.06	0.73	7.2	10.4	8.5 - 11.6						
QBC Autoread-Cap. Std. Tube	6	10.07	0.83	8.3	10.3	8.5 - 11.6						
QBC STAR - QBC STAR Tubes	5	11.88	1.61	13.5	12.3	10.0 - 13.7						

QBC HEMATOLOGY–PLATELET COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen QBC-1						Specimen QBC-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	8	288.9	56.9	19.7	302	216 - 362	8	129.4	24.9	19.3	144	97 - 162
QBC Autoread-Cap. Std. Tube	6	269.8	22.0	8.2	264	202 - 338	6	127.3	12.7	10.0	131	95 - 160
QBC STAR - QBC STAR Tubes	5	397.6	16.7	4.2	393	298 - 497	5	196.2	13.6	6.9	197	147 - 246
	Specimen QBC-3						Specimen QBC-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	8	563.3	43.4	7.7	579	422 - 705	8	120.4	38.6	32.0	130	90 - 151
QBC Autoread-Cap. Std. Tube	6	545.0	20.8	3.8	547	408 - 682	6	109.0	17.8	16.3	101	81 - 137
QBC STAR - QBC STAR Tubes	5	726.0	72.4	10.0	685	544 - 908	5	163.8	21.2	12.9	167	122 - 205
	Specimen QBC-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	294.5	54.6	18.6	318	220 - 369						
QBC Autoread-Cap. Std. Tube	6	276.8	30.2	10.9	266	207 - 347						
QBC STAR - QBC STAR Tubes	5	398.2	17.9	4.5	403	298 - 498						

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	13	5.85	0.89	15.2	5.7	3.1 - 8.6	13	7.20	2.10	29.2	6.2	0.8 - 13.6	
QBC Autoread-Cap. Std. Tube	6	5.48	0.46	8.4	5.4	4.1 - 6.9	6	5.67	0.28	4.9	5.7	4.8 - 6.6	
QBC STAR - QBC STAR Tubes	5	6.36	1.25	19.7	6.1	2.6 - 10.2	5	9.44	1.70	18.0	9.8	4.3 - 14.6	
Specimen QBC-3							Specimen QBC-4						
All Method	13	4.63	0.50	10.8	4.8	3.1 - 6.2	13	7.73	2.10	27.1	6.8	1.4 - 14.1	
QBC Autoread-Cap. Std. Tube	6	4.52	0.60	13.4	4.3	2.7 - 6.4	6	6.20	0.45	7.3	6.3	4.8 - 7.6	
QBC STAR - QBC STAR Tubes	5	4.78	0.45	9.4	5.0	3.4 - 6.2	5	9.94	1.67	16.8	10.0	4.9 - 15.0	
Specimen QBC-5													
All Method	13	6.15	1.25	20.3	5.8	2.4 - 10.0							
QBC Autoread-Cap. Std. Tube	6	5.77	0.57	9.9	5.8	4.0 - 7.5							
QBC STAR - QBC STAR Tubes	5	6.82	1.83	26.9	6.9	1.3 - 12.4							

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	13	4.35	0.57	13.1	4.4	2.6 - 6.1	13	8.87	1.04	11.8	8.5	5.7 - 12.0	
QBC Autoread-Cap. Std. Tube	6	3.97	0.35	8.8	4.0	2.9 - 5.1	6	8.88	1.11	12.5	8.5	5.5 - 12.3	
QBC STAR - QBC STAR Tubes	5	4.84	0.38	7.8	4.7	3.7 - 6.0	5	9.06	0.99	11.0	8.5	6.0 - 12.1	
Specimen QBC-3							Specimen QBC-4						
All Method	13	2.26	0.34	14.8	2.3	1.2 - 3.3	13	13.71	4.69	34.2	11.3	0.0 - 27.8	
QBC Autoread-Cap. Std. Tube	6	2.35	0.14	5.9	2.3	1.9 - 2.8	6	10.55	0.52	4.9	10.6	8.9 - 12.2	
QBC STAR - QBC STAR Tubes	5	2.26	0.52	22.9	2.4	0.7 - 3.9	5	18.26	4.80	26.3	19.1	3.8 - 32.7	
Specimen QBC-5													
All Method	13	4.53	0.52	11.4	4.4	2.9 - 6.1							
QBC Autoread-Cap. Std. Tube	6	4.30	0.35	8.2	4.3	3.2 - 5.4							
QBC STAR - QBC STAR Tubes	5	4.86	0.55	11.3	4.7	3.2 - 6.6							

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	40	1.24	0.38	30.8	1.1	0.0 - 2.4	39	8.56	3.03	35.4	8.2	0.0 - 17.7
All Automated Methods	20	1.04	0.17	16.6	1.1	0.5 - 1.6	21	7.20	2.14	29.8	7.8	0.7 - 13.7
All Manual Methods	19	1.42	0.42	29.7	1.3	0.1 - 2.7	18	10.14	3.19	31.4	9.2	0.5 - 19.8
Manual-New Methylen Blue Stain	13	1.48	0.50	33.6	1.3	0.0 - 3.0	12	11.48	3.10	27.0	10.4	2.1 - 20.8

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	46	2.64	0.11	4.3	2.6	2.2 - 3.1	45	3.90	0.14	3.6	3.9	3.3 - 4.5
All ABX Instruments	26	2.63	0.11	4.3	2.7	2.2 - 3.1	26	3.92	0.17	4.4	3.9	3.3 - 4.6
All COULTER Instruments	19	2.64	0.12	4.6	2.6	2.2 - 3.1	19	3.89	0.14	3.7	3.9	3.3 - 4.5
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	2.64	0.15	5.8	2.6	2.2 - 3.1	17	3.95	0.24	6.0	3.9	3.3 - 4.6
ABX Diagnostics Pentra 80 / XL 80	10	2.67	0.13	4.7	2.7	2.2 - 3.1	10	3.93	0.18	4.7	3.9	3.3 - 4.6
COULTER AcT 5diff (version 2.01)	10	2.68	0.10	3.9	2.7	2.2 - 3.1	10	3.94	0.18	4.5	3.9	3.3 - 4.6

<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	46	15.66	0.58	3.7	15.6	13.3 - 18.1	45	25.16	0.86	3.4	25.0	21.3 - 29.0
All ABX Instruments	26	15.77	0.54	3.4	15.8	13.4 - 18.2	26	25.30	0.88	3.5	25.0	21.5 - 29.1
All COULTER Instruments	19	15.51	0.63	4.0	15.3	13.1 - 17.9	19	25.17	1.17	4.6	24.9	21.3 - 29.0
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	15.96	0.76	4.7	15.8	13.5 - 18.4	16	25.44	0.76	3.0	25.2	21.6 - 29.3
ABX Diagnostics Pentra 80 / XL 80	10	15.67	0.60	3.8	15.8	13.3 - 18.1	10	25.08	1.05	4.2	24.9	21.3 - 28.9
COULTER AcT 5diff (version 2.01)	10	15.80	0.70	4.4	15.8	13.4 - 18.2	10	25.58	1.41	5.5	24.9	21.7 - 29.5

<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	44	4.98	0.18	3.5	4.9	4.2 - 5.8
All ABX Instruments	24	5.00	0.17	3.5	4.9	4.2 - 5.8
All COULTER Instruments	19	4.97	0.18	3.7	4.9	4.2 - 5.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	5.03	0.24	4.8	4.9	4.2 - 5.8
ABX Diagnostics Pentra 80 / XL 80	10	5.02	0.19	3.8	5.0	4.2 - 5.8
COULTER AcT 5diff (version 2.01)	10	5.02	0.21	4.3	4.9	4.2 - 5.8

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	47	1.891	0.040	2.1	1.89	1.77 - 2.01	46	3.837	0.059	1.5	3.84	3.60 - 4.07
All ABX Instruments	27	1.889	0.038	2.0	1.89	1.77 - 2.01	27	3.829	0.050	1.3	3.82	3.59 - 4.06
All COULTER Instruments	19	1.894	0.044	2.3	1.90	1.78 - 2.01	19	3.859	0.083	2.1	3.86	3.62 - 4.10
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	1.906	0.029	1.5	1.91	1.79 - 2.03	17	3.844	0.049	1.3	3.85	3.61 - 4.08
ABX Diagnostics Pentra 80 / XL 80	10	1.859	0.033	1.8	1.86	1.74 - 1.98	10	3.805	0.043	1.1	3.82	3.57 - 4.04
COULTER AcT 5diff (version 2.01)	10	1.908	0.052	2.7	1.91	1.79 - 2.03	10	3.882	0.087	2.2	3.88	3.64 - 4.12
Specimen BCX-3							Specimen BCX-4					
All Method	47	4.296	0.078	1.8	4.30	4.03 - 4.56	47	5.780	0.104	1.8	5.77	5.43 - 6.13
All ABX Instruments	27	4.288	0.066	1.5	4.29	4.03 - 4.55	27	5.771	0.106	1.8	5.77	5.42 - 6.12
All COULTER Instruments	19	4.307	0.096	2.2	4.30	4.04 - 4.57	19	5.795	0.105	1.8	5.79	5.44 - 6.15
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	4.302	0.058	1.4	4.31	4.04 - 4.57	17	5.760	0.097	1.7	5.77	5.41 - 6.11
ABX Diagnostics Pentra 80 / XL 80	10	4.263	0.075	1.8	4.27	4.00 - 4.52	10	5.789	0.124	2.1	5.81	5.44 - 6.14
COULTER AcT 5diff (version 2.01)	10	4.330	0.108	2.5	4.32	4.07 - 4.59	10	5.817	0.110	1.9	5.82	5.46 - 6.17
Specimen BCX-5												
All Method	45	4.244	0.073	1.7	4.24	3.98 - 4.50						
All ABX Instruments	25	4.236	0.070	1.6	4.24	3.98 - 4.50						
All COULTER Instruments	19	4.255	0.079	1.8	4.27	3.99 - 4.52						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	4.255	0.067	1.6	4.24	4.00 - 4.52						
ABX Diagnostics Pentra 80 / XL 80	10	4.208	0.067	1.6	4.23	3.95 - 4.47						
COULTER AcT 5diff (version 2.01)	10	4.275	0.079	1.9	4.28	4.01 - 4.54						

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	47	6.06	0.13	2.1	6.1	5.6 - 6.5	47	9.84	0.17	1.7	9.8	9.1 - 10.6	
All ABX Instruments	27	5.99	0.10	1.7	6.0	5.5 - 6.5	27	9.77	0.16	1.6	9.8	9.0 - 10.5	
All COULTER Instruments	19	6.15	0.11	1.7	6.1	5.7 - 6.6	19	9.93	0.14	1.4	9.9	9.2 - 10.7	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	6.01	0.11	1.9	6.0	5.5 - 6.5	17	9.79	0.17	1.7	9.8	9.1 - 10.5	
ABX Diagnostics Pentra 80 / XL 80	10	5.97	0.08	1.4	6.0	5.5 - 6.4	10	9.75	0.14	1.5	9.8	9.0 - 10.5	
COULTER AcT 5diff (version 2.01)	10	6.17	0.11	1.7	6.1	5.7 - 6.7	10	9.93	0.17	1.7	9.9	9.2 - 10.7	
Specimen BCX-3							Specimen BCX-4						
All Method	47	11.00	0.19	1.7	11.0	10.2 - 11.8	47	17.54	0.28	1.6	17.6	16.3 - 18.8	
All ABX Instruments	27	10.94	0.20	1.9	11.0	10.1 - 11.8	27	17.59	0.33	1.9	17.6	16.3 - 18.9	
All COULTER Instruments	19	11.09	0.14	1.3	11.1	10.3 - 11.9	19	17.48	0.21	1.2	17.4	16.2 - 18.8	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	10.96	0.22	2.0	11.0	10.1 - 11.8	17	17.59	0.38	2.2	17.7	16.3 - 18.9	
ABX Diagnostics Pentra 80 / XL 80	10	10.91	0.18	1.6	11.0	10.1 - 11.7	10	17.58	0.21	1.2	17.6	16.3 - 18.9	
COULTER AcT 5diff (version 2.01)	10	11.10	0.18	1.6	11.1	10.3 - 11.9	10	17.49	0.25	1.4	17.4	16.2 - 18.8	
Specimen BCX-5													
All Method	45	12.80	0.20	1.6	12.8	11.9 - 13.7							
All ABX Instruments	25	12.76	0.23	1.8	12.8	11.8 - 13.7							
All COULTER Instruments	19	12.84	0.16	1.3	12.8	11.9 - 13.8							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	12.77	0.24	1.9	12.8	11.8 - 13.7							
ABX Diagnostics Pentra 80 / XL 80	10	12.75	0.21	1.7	12.8	11.8 - 13.7							
COULTER AcT 5diff (version 2.01)	10	12.85	0.20	1.5	12.8	11.9 - 13.8							

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	47	17.10	0.43	2.5	17.2	16.0 - 18.2	47	28.75	0.58	2.0	28.8	27.0 - 30.5	
All ABX Instruments	27	17.02	0.46	2.7	17.1	15.9 - 18.1	27	28.60	0.58	2.0	28.6	26.8 - 30.4	
All COULTER Instruments	19	17.23	0.37	2.2	17.4	16.1 - 18.3	19	28.97	0.51	1.8	28.9	27.2 - 30.8	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	16.88	0.41	2.4	17.1	15.8 - 17.9	17	28.51	0.51	1.8	28.6	26.7 - 30.3	
ABX Diagnostics Pentra 80 / XL 80	10	17.25	0.48	2.8	17.2	16.2 - 18.3	10	28.75	0.70	2.4	28.9	27.0 - 30.5	
COULTER AcT 5diff (version 2.01)	10	17.07	0.41	2.4	17.0	16.0 - 18.1	10	28.87	0.53	1.8	28.9	27.1 - 30.7	
Specimen BCX-3							Specimen BCX-4						
All Method	47	32.28	0.71	2.2	32.3	30.3 - 34.3	47	50.03	1.06	2.1	50.1	47.0 - 53.1	
All ABX Instruments	27	32.17	0.70	2.2	32.2	30.2 - 34.2	27	49.94	1.10	2.2	50.2	46.9 - 53.0	
All COULTER Instruments	19	32.44	0.72	2.2	32.4	30.4 - 34.4	19	50.16	1.04	2.1	50.1	47.1 - 53.2	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	32.13	0.58	1.8	32.0	30.2 - 34.1	17	50.03	1.02	2.0	50.4	47.0 - 53.1	
ABX Diagnostics Pentra 80 / XL 80	10	32.25	0.91	2.8	32.4	30.3 - 34.2	10	49.78	1.26	2.5	49.9	46.7 - 52.8	
COULTER AcT 5diff (version 2.01)	10	32.43	0.79	2.4	32.5	30.4 - 34.4	10	50.42	0.91	1.8	50.4	47.3 - 53.5	
Specimen BCX-5													
All Method	45	36.28	0.74	2.1	36.2	34.1 - 38.5							
All ABX Instruments	25	36.17	0.80	2.2	36.1	33.9 - 38.4							
All COULTER Instruments	19	36.45	0.67	1.8	36.3	34.2 - 38.7							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	36.08	0.76	2.1	36.1	33.9 - 38.3							
ABX Diagnostics Pentra 80 / XL 80	10	36.30	0.87	2.4	36.3	34.1 - 38.5							
COULTER AcT 5diff (version 2.01)	10	36.35	0.52	1.4	36.2	34.1 - 38.6							

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	46	74.4	5.8	7.8	74	55 - 93	45	116.8	6.0	5.2	117	87 - 146	
All ABX Instruments	27	73.6	4.3	5.9	74	55 - 92	26	116.0	4.2	3.6	116	87 - 146	
All COULTER Instruments	19	77.5	9.0	11.6	76	58 - 97	18	116.1	8.4	7.2	118	87 - 146	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	74.6	4.6	6.1	75	55 - 94	17	117.6	6.6	5.6	117	88 - 147	
ABX Diagnostics Pentra 80 / XL 80	10	71.7	3.3	4.7	73	53 - 90	10	115.3	2.4	2.0	116	86 - 145	
COULTER AcT 5diff (version 2.01)	10	78.7	10.5	13.3	77	59 - 99	10	121.0	17.7	14.6	119	90 - 152	
Specimen BCX-3							Specimen BCX-4						
All Method	47	227.8	11.8	5.2	226	170 - 285	46	505.2	19.4	3.8	507	378 - 632	
All ABX Instruments	27	228.0	10.7	4.7	226	171 - 286	27	507.9	24.8	4.9	507	380 - 635	
All COULTER Instruments	19	228.7	12.6	5.5	226	171 - 286	19	506.7	17.1	3.4	506	380 - 634	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	227.3	10.9	4.8	227	170 - 285	17	501.4	26.6	5.3	496	376 - 627	
ABX Diagnostics Pentra 80 / XL 80	10	229.3	10.8	4.7	226	171 - 287	10	519.0	17.3	3.3	520	389 - 649	
COULTER AcT 5diff (version 2.01)	10	230.0	15.4	6.7	228	172 - 288	10	507.5	20.3	4.0	500	380 - 635	
Specimen BCX-5													
All Method	45	257.9	11.1	4.3	258	193 - 323							
All ABX Instruments	26	259.0	12.0	4.6	260	194 - 324							
All COULTER Instruments	19	259.2	13.2	5.1	256	194 - 325							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	257.6	13.5	5.2	259	193 - 322							
ABX Diagnostics Pentra 80 / XL 80	10	261.2	9.3	3.5	264	195 - 327							
COULTER AcT 5diff (version 2.01)	10	262.8	14.6	5.5	261	197 - 329							

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	47	62.36	5.72	9.2	63.6	45.1 - 79.6	47	59.99	5.12	8.5	59.8	44.6 - 75.4
All ABX Instruments	26	66.10	3.72	5.6	65.9	54.9 - 77.3	27	60.87	5.10	8.4	61.1	45.5 - 76.2
All COULTER Instruments	19	58.04	4.11	7.1	57.4	45.7 - 70.4	19	59.15	4.92	8.3	58.7	44.3 - 74.0
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	67.08	3.34	5.0	66.1	57.0 - 77.2	17	62.40	4.18	6.7	62.7	49.8 - 75.0
ABX Diagnostics Pentra 80 / XL 80	10	62.94	5.51	8.8	65.3	46.4 - 79.5	10	58.26	5.67	9.7	59.6	41.2 - 75.3
COULTER AcT 5diff (version 2.01)	11	57.94	4.61	8.0	57.0	44.0 - 71.8	11	59.13	5.29	8.9	59.2	43.2 - 75.1
Specimen BCX-3							Specimen BCX-4					
All Method	47	70.76	5.32	7.5	70.6	54.8 - 86.8	47	49.03	5.09	10.4	49.1	33.7 - 64.3
All ABX Instruments	27	73.90	3.87	5.2	74.9	62.2 - 85.6	27	52.04	3.68	7.1	52.2	41.0 - 63.1
All COULTER Instruments	19	66.45	3.98	6.0	67.5	54.5 - 78.4	19	44.67	3.59	8.0	44.2	33.9 - 55.5
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	75.06	2.84	3.8	75.2	66.5 - 83.6	17	53.16	2.59	4.9	52.5	45.4 - 61.0
ABX Diagnostics Pentra 80 / XL 80	10	71.92	4.70	6.5	72.9	57.8 - 86.1	10	50.14	4.56	9.1	49.3	36.4 - 63.9
COULTER AcT 5diff (version 2.01)	11	66.65	3.24	4.9	66.3	56.9 - 76.4	11	45.28	4.15	9.2	45.2	32.8 - 57.8
Specimen BCX-5												
All Method	46	64.28	5.52	8.6	63.4	47.7 - 80.9						
All ABX Instruments	27	67.35	4.45	6.6	67.5	54.0 - 80.7						
All COULTER Instruments	18	59.61	3.48	5.8	60.6	49.1 - 70.1						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	69.19	3.60	5.2	69.3	58.3 - 80.0						
ABX Diagnostics Pentra 80 / XL 80	10	64.21	4.09	6.4	63.4	51.9 - 76.5						
COULTER AcT 5diff (version 2.01)	11	58.86	5.58	9.5	60.5	42.1 - 75.7						

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	46	20.41	4.34	21.3	20.5	7.3 - 33.5	46	27.49	4.88	17.7	27.2	12.8 - 42.2	
All ABX Instruments	27	21.99	4.75	21.6	20.9	7.7 - 36.3	26	28.69	4.15	14.5	27.8	16.2 - 41.2	
All COULTER Instruments	19	18.50	3.96	21.4	19.4	6.6 - 30.4	19	25.19	4.42	17.5	25.1	11.9 - 38.5	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	20.86	2.99	14.3	20.9	11.8 - 29.9	17	27.68	3.63	13.1	27.7	16.7 - 38.6	
ABX Diagnostics Pentra 80 / XL 80	10	23.90	6.56	27.4	21.0	4.2 - 43.6	10	32.00	6.20	19.4	30.1	13.4 - 50.6	
COULTER AcT 5diff (version 2.01)	11	16.62	3.66	22.0	16.4	5.6 - 27.7	11	24.09	4.93	20.4	23.4	9.3 - 38.9	
Specimen BCX-3							Specimen BCX-4						
All Method	46	18.52	2.99	16.2	17.9	9.5 - 27.6	47	38.62	3.74	9.7	38.0	27.3 - 49.9	
All ABX Instruments	27	19.21	3.02	15.7	18.2	10.1 - 28.3	27	40.46	3.12	7.7	40.0	31.0 - 49.9	
All COULTER Instruments	18	17.27	2.54	14.7	16.9	9.6 - 24.9	19	36.06	3.11	8.6	35.8	26.7 - 45.4	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	18.11	1.96	10.8	18.0	12.2 - 24.0	17	39.19	1.89	4.8	38.8	33.5 - 44.9	
ABX Diagnostics Pentra 80 / XL 80	10	21.08	3.65	17.3	20.4	10.1 - 32.1	10	42.60	3.71	8.7	43.7	31.4 - 53.8	
COULTER AcT 5diff (version 2.01)	11	16.91	2.38	14.0	16.9	9.7 - 24.1	11	34.75	2.21	6.4	34.1	28.1 - 41.4	
Specimen BCX-5													
All Method	47	24.11	4.92	20.4	22.7	9.3 - 38.9							
All ABX Instruments	27	23.78	4.60	19.3	22.2	9.9 - 37.6							
All COULTER Instruments	19	24.75	5.49	22.2	23.6	8.2 - 41.3							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	21.44	2.82	13.2	21.6	12.9 - 30.0							
ABX Diagnostics Pentra 80 / XL 80	10	27.77	4.34	15.6	29.0	14.7 - 40.8							
COULTER AcT 5diff (version 2.01)	11	23.85	6.04	25.3	23.6	5.7 - 42.0							

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	43	1.12	0.97	86.7	0.8	0.0 - 4.1	44	0.68	0.50	72.8	0.7	0.0 - 2.2
All ABX Instruments	27	1.38	1.05	76.1	1.1	0.0 - 4.6	27	0.82	0.51	61.8	0.7	0.0 - 2.4
All COULTER Instruments	15	0.57	0.48	83.8	0.6	0.0 - 2.1	16	0.41	0.35	84.4	0.3	0.0 - 1.5
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	1.03	0.92	89.0	0.7	0.0 - 3.8	17	0.75	0.40	53.8	0.7	0.0 - 2.0
ABX Diagnostics Pentra 80 / XL 80	10	1.98	1.03	52.1	2.0	0.0 - 5.1	10	0.94	0.65	69.5	0.7	0.0 - 3.0
All Method	43	1.12	0.97	86.7	0.8	0.0 - 4.1	44	0.68	0.50	72.8	0.7	0.0 - 2.2
Specimen BCX-3							Specimen BCX-4					
All Method	41	1.11	1.22	109.5	0.6	0.0 - 4.8	40	2.13	1.11	52.4	1.9	0.0 - 5.5
All ABX Instruments	27	1.36	1.25	92.5	0.7	0.0 - 5.2	27	2.49	1.50	60.2	2.1	0.0 - 7.0
All COULTER Instruments	13	0.38	0.21	55.4	0.4	0.0 - 1.1	14	1.75	0.61	34.6	1.6	0.0 - 3.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	1.25	1.20	95.6	0.7	0.0 - 4.9	17	2.41	1.61	66.8	2.0	0.0 - 7.3
ABX Diagnostics Pentra 80 / XL 80	10	1.53	1.39	90.9	0.9	0.0 - 5.8	10	2.61	1.35	51.7	2.2	0.0 - 6.7
Specimen BCX-5												
All Method	39	0.95	0.97	101.8	0.6	0.0 - 3.9						
All ABX Instruments	27	1.26	1.31	103.8	0.6	0.0 - 5.2						
All COULTER Instruments	13	0.62	0.54	86.2	0.5	0.0 - 2.3						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	1.28	1.39	108.6	0.7	0.0 - 5.5						
ABX Diagnostics Pentra 80 / XL 80	10	1.23	1.23	100.2	0.6	0.0 - 5.0						

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	46	10.26	2.06	20.1	10.4	4.0 - 16.5	46	8.44	1.33	15.8	8.3	4.4 - 12.5	
All ABX Instruments	27	10.53	1.90	18.0	10.7	4.8 - 16.3	26	8.49	1.23	14.5	8.2	4.8 - 12.2	
All COULTER Instruments	19	10.38	3.00	28.9	10.3	1.3 - 19.4	19	8.48	1.43	16.8	8.4	4.1 - 12.8	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	10.61	1.65	15.6	10.1	5.6 - 15.6	17	8.82	1.06	12.0	8.6	5.6 - 12.0	
ABX Diagnostics Pentra 80 / XL 80	10	10.40	2.34	22.5	11.2	3.3 - 17.5	10	8.46	2.26	26.8	7.9	1.6 - 15.3	
COULTER AcT 5diff (version 2.01)	11	11.85	3.08	26.0	11.4	2.6 - 21.2	11	8.91	1.38	15.5	8.4	4.7 - 13.1	
Specimen BCX-3							Specimen BCX-4						
All Method	47	5.00	0.62	12.4	5.1	3.1 - 6.9	47	4.19	0.51	12.2	4.2	2.6 - 5.8	
All ABX Instruments	27	5.05	0.58	11.5	5.1	3.3 - 6.8	27	4.36	0.52	11.8	4.5	2.8 - 6.0	
All COULTER Instruments	19	4.94	0.69	13.9	5.0	2.8 - 7.1	19	3.94	0.42	10.5	3.9	2.6 - 5.2	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	5.09	0.62	12.2	5.1	3.2 - 7.0	17	4.53	0.44	9.7	4.6	3.2 - 5.9	
ABX Diagnostics Pentra 80 / XL 80	10	4.97	0.53	10.6	5.1	3.3 - 6.6	10	4.07	0.53	13.0	4.3	2.4 - 5.7	
COULTER AcT 5diff (version 2.01)	11	5.19	0.54	10.3	5.2	3.5 - 6.8	11	4.07	0.38	9.5	3.9	2.9 - 5.3	
Specimen BCX-5													
All Method	47	6.96	1.30	18.7	6.7	3.0 - 10.9							
All ABX Instruments	27	7.19	1.43	19.9	7.2	2.8 - 11.5							
All COULTER Instruments	19	6.68	1.09	16.2	6.7	3.4 - 10.0							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	7.66	1.38	18.1	7.3	3.5 - 11.9							
ABX Diagnostics Pentra 80 / XL 80	10	6.39	1.18	18.5	6.4	2.8 - 10.0							
COULTER AcT 5diff (version 2.01)	11	6.75	1.16	17.2	6.8	3.2 - 10.3							

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	46	4.96	5.53	111.5	0.6	0.0 - 21.6	47	3.04	3.35	110.3	0.4	0.0 - 13.1	
All ABX Instruments	27	0.60	0.06	9.8	0.6	0.4 - 0.8	27	0.32	0.04	13.1	0.3	0.1 - 0.5	
All COULTER Instruments	18	11.74	0.94	8.0	11.7	8.9 - 14.6	19	7.04	0.59	8.4	7.0	5.2 - 8.9	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	0.61	0.06	9.2	0.6	0.4 - 0.8	17	0.31	0.03	10.7	0.3	0.2 - 0.5	
ABX Diagnostics Pentra 80 / XL 80	10	0.58	0.06	10.9	0.6	0.3 - 0.8	10	0.34	0.05	15.2	0.3	0.1 - 0.5	
COULTER AcT 5diff (version 2.01)	10	11.98	0.90	7.5	11.9	9.2 - 14.7	11	7.15	0.50	7.1	7.1	5.6 - 8.7	
Specimen BCX-3							Specimen BCX-4						
All Method	47	4.19	4.53	108.3	0.5	0.0 - 17.8	47	5.66	6.17	108.9	0.7	0.0 - 24.2	
All ABX Instruments	27	0.50	0.00	0.0	0.5	0.5 - 0.5	26	0.69	0.04	5.7	0.7	0.5 - 0.9	
All COULTER Instruments	19	9.62	0.44	4.6	9.5	8.2 - 11.0	19	12.99	1.37	10.6	13.2	8.8 - 17.2	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	0.50	0.00	0.0	0.5	0.5 - 0.5	16	0.70	0.04	5.2	0.7	0.5 - 0.9	
ABX Diagnostics Pentra 80 / XL 80	10	0.50	0.00	0.0	0.5	0.5 - 0.5	10	0.68	0.04	6.2	0.7	0.5 - 0.9	
COULTER AcT 5diff (version 2.01)	11	9.75	0.47	4.8	9.6	8.3 - 11.2	11	13.07	1.68	12.9	13.6	8.0 - 18.2	
Specimen BCX-5													
All Method	46	3.49	3.88	111.1	0.4	0.0 - 15.2							
All ABX Instruments	25	0.40	0.00	0.0	0.4	0.4 - 0.4							
All COULTER Instruments	18	8.26	0.32	3.9	8.2	7.3 - 9.3							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	0.42	0.07	15.7	0.4	0.2 - 0.7							
ABX Diagnostics Pentra 80 / XL 80	10	0.40	0.00	0.0	0.4	0.4 - 0.4							
COULTER AcT 5diff (version 2.01)	10	8.36	0.38	4.6	8.5	7.2 - 9.6							

HEMATOLOGY W/ 5-PART DIFFERENTIAL–WHITE BLOOD CELL 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	32	3.93	0.22	5.6	4.0	3.3 - 4.6	32	7.93	0.25	3.1	7.9	6.7 - 9.2
All Sysmex Instruments	32	3.93	0.22	5.6	4.0	3.3 - 4.6	32	7.93	0.25	3.1	7.9	6.7 - 9.2
Sysmex XS-1000i	17	4.08	0.12	2.9	4.1	3.4 - 4.7	17	8.06	0.21	2.7	8.1	6.8 - 9.3
Specimen MX-3							Specimen MX-4					
All Method	32	20.40	0.94	4.6	20.2	17.3 - 23.5	32	7.83	0.41	5.3	7.9	6.6 - 9.1
All Sysmex Instruments	32	20.40	0.94	4.6	20.2	17.3 - 23.5	32	7.83	0.41	5.3	7.9	6.6 - 9.1
Sysmex XS-1000i	17	20.82	0.88	4.2	20.7	17.6 - 24.0	17	7.95	0.50	6.3	8.1	6.7 - 9.2
Specimen MX-5												
All Method	32	20.29	0.97	4.8	20.1	17.2 - 23.4						
All Sysmex Instruments	32	20.29	0.97	4.8	20.1	17.2 - 23.4						
Sysmex XS-1000i	17	20.78	0.83	4.0	20.7	17.6 - 23.9						

HEMATOLOGY W/ 5-PART DIFFERENTIAL–RED BLOOD CELL COUNT (x 10¹²/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	32	2.489	0.053	2.1	2.50	2.33 - 2.64	32	4.889	0.056	1.1	4.88	4.59 - 5.19
All Sysmex Instruments	32	2.489	0.053	2.1	2.50	2.33 - 2.64	32	4.889	0.056	1.1	4.88	4.59 - 5.19
Sysmex XS-1000i	17	2.455	0.046	1.9	2.45	2.30 - 2.61	17	4.896	0.060	1.2	4.90	4.60 - 5.20
Specimen MX-3							Specimen MX-4					
All Method	32	5.684	0.083	1.5	5.69	5.34 - 6.03	32	4.899	0.058	1.2	4.90	4.60 - 5.20
All Sysmex Instruments	32	5.684	0.083	1.5	5.69	5.34 - 6.03	32	4.899	0.058	1.2	4.90	4.60 - 5.20
Sysmex XS-1000i	17	5.736	0.066	1.2	5.73	5.39 - 6.09	17	4.905	0.059	1.2	4.90	4.61 - 5.20
Specimen MX-5												
All Method	32	5.689	0.088	1.5	5.70	5.34 - 6.04						
All Sysmex Instruments	32	5.689	0.088	1.5	5.70	5.34 - 6.04						
Sysmex XS-1000i	17	5.744	0.057	1.0	5.74	5.39 - 6.09						

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

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	32	6.11	0.10	1.6	6.1	5.6 - 6.6	32	13.76	0.15	1.1	13.8	12.7 - 14.8	
All Sysmex Instruments	32	6.11	0.10	1.6	6.1	5.6 - 6.6	32	13.76	0.15	1.1	13.8	12.7 - 14.8	
Sysmex XS-1000i	17	6.07	0.09	1.5	6.1	5.6 - 6.5	17	13.73	0.17	1.3	13.7	12.7 - 14.7	
Specimen MX-3							Specimen MX-4						
All Method	32	17.67	0.26	1.5	17.7	16.4 - 19.0	31	13.76	0.15	1.1	13.8	12.8 - 14.8	
All Sysmex Instruments	32	17.67	0.26	1.5	17.7	16.4 - 19.0	31	13.76	0.15	1.1	13.8	12.8 - 14.8	
Sysmex XS-1000i	17	17.83	0.20	1.1	17.9	16.5 - 19.1	17	13.81	0.25	1.8	13.8	12.8 - 14.8	
Specimen MX-5													
All Method	32	17.65	0.29	1.6	17.7	16.4 - 18.9							
All Sysmex Instruments	32	17.65	0.29	1.6	17.7	16.4 - 18.9							
Sysmex XS-1000i	17	17.82	0.23	1.3	17.9	16.5 - 19.1							

HEMATOLOGY W/ 5-PART DIFFERENTIAL – HEMATOCRIT (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	32	19.04	0.49	2.6	19.1	17.8 - 20.2	32	40.93	0.72	1.8	41.0	38.4 - 43.4	
All Sysmex Instruments	32	19.04	0.49	2.6	19.1	17.8 - 20.2	32	40.93	0.72	1.8	41.0	38.4 - 43.4	
Sysmex XS-1000i	17	18.74	0.46	2.4	18.7	17.6 - 19.9	17	40.76	0.88	2.2	40.6	38.3 - 43.3	
Specimen MX-3							Specimen MX-4						
All Method	32	52.23	0.95	1.8	52.4	49.0 - 55.4	32	41.01	0.74	1.8	40.9	38.5 - 43.5	
All Sysmex Instruments	32	52.23	0.95	1.8	52.4	49.0 - 55.4	32	41.01	0.74	1.8	40.9	38.5 - 43.5	
Sysmex XS-1000i	17	52.18	1.10	2.1	52.4	49.0 - 55.4	17	40.82	0.85	2.1	40.7	38.3 - 43.3	
Specimen MX-5													
All Method	32	52.33	1.03	2.0	52.4	49.1 - 55.5							
All Sysmex Instruments	32	52.33	1.03	2.0	52.4	49.1 - 55.5							
Sysmex XS-1000i	17	52.28	1.15	2.2	52.1	49.1 - 55.5							

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	32	57.8	5.6	9.7	58	43 - 73	32	217.1	9.7	4.5	218	162 - 272	
All Sysmex Instruments	32	57.8	5.6	9.7	58	43 - 73	32	217.1	9.7	4.5	218	162 - 272	
Sysmex XS-1000i	17	56.7	3.7	6.6	56	42 - 71	17	220.3	7.0	3.2	219	165 - 276	
Specimen MX-3							Specimen MX-4						
All Method	31	414.7	17.5	4.2	415	311 - 519	32	217.0	10.7	5.0	218	162 - 272	
All Sysmex Instruments	31	414.7	17.5	4.2	415	311 - 519	32	217.0	10.7	5.0	218	162 - 272	
Sysmex XS-1000i	16	421.9	13.1	3.1	424	316 - 528	17	218.6	8.7	4.0	219	163 - 274	
Specimen MX-5													
All Method	31	412.8	18.3	4.4	415	309 - 517							
All Sysmex Instruments	31	412.8	18.3	4.4	415	309 - 517							
Sysmex XS-1000i	16	422.5	14.4	3.4	418	316 - 529							

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	31	64.69	3.96	6.1	63.2	52.8 - 76.6	31	52.78	3.42	6.5	53.8	42.5 - 63.1	
All Sysmex Instruments	31	64.69	3.96	6.1	63.2	52.8 - 76.6	31	52.78	3.42	6.5	53.8	42.5 - 63.1	
Sysmex XS-1000i	16	61.11	1.53	2.5	61.4	56.5 - 65.8	16	50.13	2.60	5.2	49.2	42.3 - 58.0	
Specimen MX-3							Specimen MX-4						
All Method	31	60.68	5.46	9.0	61.4	44.3 - 77.1	31	52.57	3.85	7.3	53.1	41.0 - 64.2	
All Sysmex Instruments	31	60.68	5.46	9.0	61.4	44.3 - 77.1	31	52.57	3.85	7.3	53.1	41.0 - 64.2	
Sysmex XS-1000i	16	59.48	7.43	12.5	54.7	37.1 - 81.8	16	49.56	2.94	5.9	49.2	40.7 - 58.4	
Specimen MX-5													
All Method	30	60.45	5.23	8.7	61.5	44.7 - 76.2							
All Sysmex Instruments	30	60.45	5.23	8.7	61.5	44.7 - 76.2							
Sysmex XS-1000i	15	59.01	7.16	12.1	54.6	37.5 - 80.5							

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	31	12.82	1.88	14.6	13.1	7.1 - 18.5	31	25.84	3.13	12.1	27.1	16.4 - 35.3
All Sysmex Instruments	31	12.82	1.88	14.6	13.1	7.1 - 18.5	31	25.84	3.13	12.1	27.1	16.4 - 35.3
Sysmex XS-1000i	16	11.96	2.01	16.8	12.6	5.9 - 18.0	16	25.23	3.97	15.7	27.6	13.3 - 37.2
	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	31	19.35	2.75	14.2	20.3	11.1 - 27.6	31	26.11	3.68	14.1	26.6	15.0 - 37.2
All Sysmex Instruments	31	19.35	2.75	14.2	20.3	11.1 - 27.6	31	26.11	3.68	14.1	26.6	15.0 - 37.2
Sysmex XS-1000i	16	18.89	3.56	18.8	21.1	8.2 - 29.6	16	25.89	4.93	19.0	28.1	11.1 - 40.7
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	19.26	2.65	13.8	20.1	11.3 - 27.3						
All Sysmex Instruments	31	19.26	2.65	13.8	20.1	11.3 - 27.3						
Sysmex XS-1000i	16	18.88	3.49	18.5	21.1	8.4 - 29.4						

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	31	2.05	1.28	62.7	1.5	0.0 - 5.9	31	4.92	2.44	49.5	4.1	0.0 - 12.3
All Sysmex Instruments	31	2.05	1.28	62.7	1.5	0.0 - 5.9	31	4.92	2.44	49.5	4.1	0.0 - 12.3
Sysmex XS-1000i	16	2.34	1.67	71.1	1.2	0.0 - 7.4	16	5.18	3.28	63.3	3.1	0.0 - 15.1
	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	31	4.32	1.77	41.0	4.1	0.0 - 9.7	31	5.02	2.43	48.4	3.9	0.0 - 12.4
All Sysmex Instruments	31	4.32	1.77	41.0	4.1	0.0 - 9.7	31	5.02	2.43	48.4	3.9	0.0 - 12.4
Sysmex XS-1000i	16	4.29	2.39	55.8	2.9	0.0 - 11.5	16	5.43	3.19	58.7	3.4	0.0 - 15.0
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	4.33	1.87	43.3	4.0	0.0 - 10.0						
All Sysmex Instruments	31	4.33	1.87	43.3	4.0	0.0 - 10.0						
Sysmex XS-1000i	16	4.33	2.54	58.8	2.7	0.0 - 12.0						

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	31	17.45	3.28	18.8	16.0	7.6 - 27.3	31	13.99	1.61	11.5	13.3	9.1 - 18.9
All Sysmex Instruments	31	17.45	3.28	18.8	16.0	7.6 - 27.3	31	13.99	1.61	11.5	13.3	9.1 - 18.9
Sysmex XS-1000i	16	18.86	4.09	21.7	16.1	6.5 - 31.2	16	14.68	2.02	13.7	13.4	8.6 - 20.8
Specimen MX-3							Specimen MX-4					
All Method	30	12.86	1.79	13.9	13.3	7.4 - 18.3	31	13.90	2.01	14.5	13.3	7.8 - 20.0
All Sysmex Instruments	30	12.86	1.79	13.9	13.3	7.4 - 18.3	31	13.90	2.01	14.5	13.3	7.8 - 20.0
Sysmex XS-1000i	16	11.96	1.96	16.4	12.9	6.0 - 17.9	16	14.48	2.68	18.5	13.3	6.4 - 22.6
Specimen MX-5												
All Method	30	13.03	1.85	14.2	13.4	7.4 - 18.6						
All Sysmex Instruments	30	13.03	1.85	14.2	13.4	7.4 - 18.6						
Sysmex XS-1000i	15	11.93	1.98	16.6	12.7	5.9 - 17.9						

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	15	88.36	7.22	8.2	11.1	66.7 - 110.1	15	71.10	0.73	1.0	9.1	68.9 - 73.3
All Sysmex Instruments	15	88.36	7.22	8.2	84.0	66.7 - 110.1	15	71.10	0.73	1.0	71.0	68.9 - 73.3
Sysmex XS-1000i	16	5.73	4.58	79.9	8.3	0.0 - 19.5	16	4.79	3.80	79.3	6.9	0.0 - 16.2
Specimen MX-3							Specimen MX-4					
All Method	14	81.20	1.48	1.8	9.4	76.7 - 85.7	15	70.68	0.91	1.3	8.8	67.9 - 73.5
All Sysmex Instruments	14	81.20	1.48	1.8	81.8	76.7 - 85.7	15	70.68	0.91	1.3	70.5	67.9 - 73.5
Sysmex XS-1000i	16	5.38	4.31	80.2	8.2	0.0 - 18.4	16	4.70	3.63	77.2	6.6	0.0 - 15.6
Specimen MX-5												
All Method	14	82.21	3.08	3.7	9.7	72.9 - 91.5						
All Sysmex Instruments	14	82.21	3.08	3.7	82.4	72.9 - 91.5						
Sysmex XS-1000i	16	5.43	4.38	80.7	7.9	0.0 - 18.6						

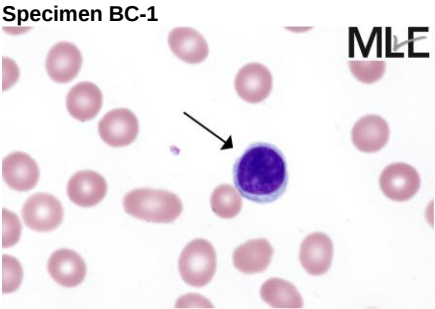
CASE HISTORY:

A 5-year-old male was brought to the pediatrician by his mother, who was concerned about the boy's decreased energy level and complaints of aches and pains. The physical examination revealed enlarged lymph nodes and spleen. Several bruises and petechiae were noted. A CBC was performed, and the results appear below.

Test	Results	Normal Range
WBC	$20.0 \times 10^9/L$	$5 - 17 \times 10^9/L$
RBC	$2.72 \times 10^{12}/L$	$4.0 - 5.2 \times 10^{12}/L$
Hgb	8.5 g/dL	10.2 - 15.2 g/dL
Hct	26 %	34 - 48 %
Plt	$98 \times 10^9/L$	$150 - 450 \times 10^9/L$
MCV	96 fL	78 - 94 fL
MCH	30 pg	23 - 31 pg
MCHC	31 g/dL	32 - 36 g/dL
RDW	16 %	11 - 15 %

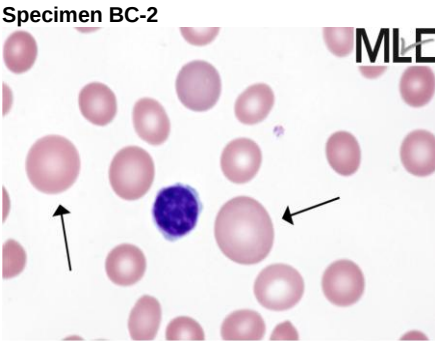
This patient was diagnosed with **acute lymphoblastic leukemia (ALL)**. ALL is the most common cancer in children, and accounts for about 20% of acute leukemias in adults. In ALL, the bone marrow produces too many lymphoblasts. These leukemic cells do not develop into mature lymphocytes or function as normal lymphocytes. The lymphoblasts crowd the bone marrow, leaving less room for normal blood cells to develop. Decreased red blood cell production leads to anemia and symptoms of fatigue. Decreased platelet production leads to bleeding and bruising. Decreased neutrophil production increases the risk of infection and fever. There may be enlargement of the lymph nodes, spleen and liver. Bone pain, joint pain, and headaches may be symptoms of lymphoblast infiltration into those areas. There are subgroups of ALL based on the cell type, chromosomal changes, and age of the patient. Flow cytometry is used to analyze antigens on the malignant cells. This analysis, called immunophenotyping, helps to determine the patient's prognosis and treatment.

BLOOD CELL IDENTIFICATION



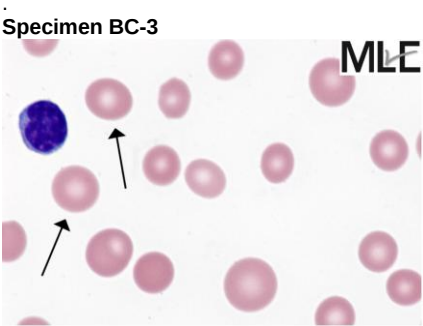
<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Lymphocyte	290	98.98%	Acceptable

The arrow in this photograph points to a **lymphocyte**. Its nucleus is eccentric (off-center) and round to oval in shape. The nuclear chromatin is condensed. The cytoplasm is blue and scant. To view another mature, resting lymphocyte, see 2010 M3 Specimen BC-14.



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Macrocyte	288	98.29%	Acceptable

The arrows in this photograph point to **macrocytes**. Macrocytes are abnormally large red blood cells, and may be round or oval. As a “rule of thumb”, the nucleus of a mature resting (non-reactive) lymphocyte can be used to provide a relative measurement of the size of the surrounding red blood cells. 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 2011 M1 Specimen BC-5.

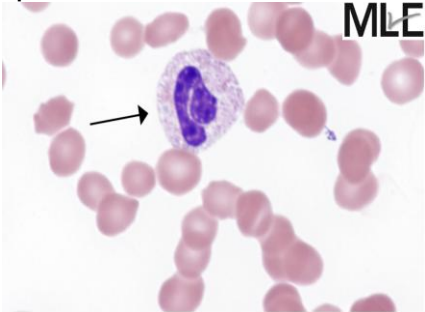


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Erythrocyte, normal	282	96.25%	Acceptable

The arrows in this photograph point to **normal erythrocytes** (red blood cells.) The arrowed cells are approximately the same size as the nucleus of the mature lymphocyte nearby. To view another photo of normal red cells, see 2011 M2 Specimen BC-8.

BLOOD CELL IDENTIFICATION

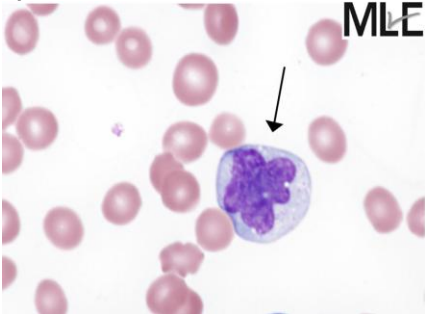
Specimen BC-4



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Neutrophil-Segmented or band	245	83.26%	Acceptable
Döhle body	33	11.26%	
Neutrophil-seg/band w/toxic gran	15	5.12%	

The arrow in this photograph points to a **band neutrophil**. The band neutrophil is a less mature stage of development than the segmented neutrophil. The nucleus is indented greater than 50% of its width, resulting in a U-shaped nucleus. Band nuclei can also be C- or S-shaped. The sides of the band's nucleus are parallel and have a visible band of chromatin in between. The cytoplasm contains pink and pale blue granules. The granulation is not dark enough to be considered toxic, and not large enough to resemble a Döhle body. To view another photo of a band, see 2011 M3 Specimen BC-14. To view a photo of toxic granulation, see 2011 M1 Specimen BC-2. To view a photo of a Döhle body, see 2011 M3 Specimen BC-13

Specimen BC-5

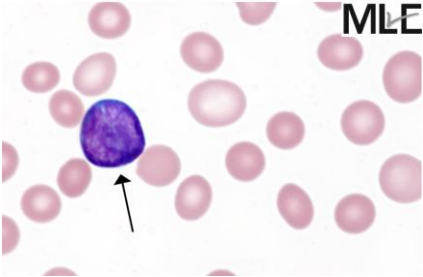


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Monocyte	265	90.44%	Acceptable
Promonocyte	10	3.41%	
Lymphocyte, reactive	10	3.41%	

The arrow in this photograph points to a **monocyte**. Monocytes are typically the largest cell in the peripheral blood. They vary greatly in morphology because of their aggressive motility and adherence to surfaces. The nucleus is indented, curved, or folded and the nuclear chromatin is blue-purple with small clumps. The cytoplasm is pale gray-blue with a cloudy/turbid “ground glass” appearance, and contains vacuoles. The cytoplasmic membrane is often irregular, with pseudopods that appear to be pushing away adjacent red blood cells. In contrast, a **promonocyte** nucleus is more red-purple in color, the chromatin appears fine with small aggregates, giving it a sponge-like texture, and nucleoli may be present. To view another photo of a monocyte, see 2011 M2 Specimen BC-10.

BLOOD CELL IDENTIFICATION

Specimen BC-6



Identification	Labs	Percent
Blast cell	111	38.14%
Immature/abnormal cell- refer	87	29.90%
Lymphocyte, reactive	56	19.24%
Prolymphocyte	25	8.59%
Promonocyte	7	2.41%

Performance
Not graded - Educational Challenge

The arrow in this ungraded educational challenge points to a **blast cell**, specifically, a lymphoblast. Blasts in the peripheral blood are an abnormal finding. The blast is the earliest stage of white blood cell development, normally found only in the bone marrow. Lymphoblasts are precursor cells that would normally mature into lymphocytes. Blast cells have a high nucleus to cytoplasm ratio and the cytoplasm is deeply basophilic. The round-oval nucleus of the lymphoblast may have a cleft, as seen here. Blasts have less variation in size and staining characteristics than reactive lymphs, and less abundant cytoplasm. To view a photo of a blast cell, see 2009 M3 Specimen BC-18. To view a reactive lymph, see 2011 M2 Specimen BC-11.

References:

Carr, J.H., Rodak, B.F.: *Clinical Hematology Atlas*, 3rd ed. Saunders, St. Louis, 2009.

General Information about Childhood Acute Lymphoblastic Leukemia
<http://www.cancer.gov/cancertopics/pdq/treatment/childALL/Patient/page1>

Larson, R.A. "Acute Leukemia." *ACP Medicine*. Ed. D. C. Dale. New York: WebMD, Inc., 2004. 2503.

O'Connor O'Connor, B. H.: *A Color Atlas and Instruction Manual of Peripheral Blood Cell Morphology*. Williams & Wilkins, Baltimore MD, 1984.

BLOOD BANK

ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-1	Group A	10	100%	Acceptable
BB-2	Group B	10	100%	Acceptable
BB-3	Group AB	10	100%	Acceptable
BB-4	Group O	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 Negative	13	100%	Acceptable
BB-2	Rh Positive	13	100%	Acceptable
BB-3	Rh Negative	13	100%	Acceptable
BB-4	Rh Positive	13	100%	Acceptable
BB-5	Rh Positive	13	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	No unexpected antibody detected	10	100%	Acceptable
AB-3	Unexpected antibody detected	10	100%	Acceptable
AB-4	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, No antibody detected, Anti-D, Anti-E, 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	6	100%	Acceptable
AB-2	Compatible	6	100%	Acceptable
AB-3	Not Compatible	6	100%	Acceptable
AB-4	Compatible	6	100%	Acceptable
AB-5	Compatible	6	100%	Acceptable

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	76	25.27	3.67	14.5	25.7	21.4 - 29.1	75	34.70	5.86	16.9	33.0	29.4 - 40.0
Dade Innovin												
Sysmex CA-500/560	27	28.23	0.85	3.0	28.2	23.9 - 32.5	27	39.48	1.41	3.6	39.7	33.5 - 45.5
All Coagulation Instruments	31	28.34	0.93	3.3	28.3	24.0 - 32.6	31	39.75	1.66	4.2	39.7	33.7 - 45.8
IL TEST PT Fibrinogen												
IL ACL, all models	22	22.83	0.92	4.0	22.8	19.4 - 26.3	23	29.93	1.31	4.4	29.7	25.4 - 34.5
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	21.40	0.78	3.7	21.3	18.1 - 24.7	5	28.28	1.39	4.9	28.0	24.0 - 32.6
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	20.64	1.82	8.8	21.2	17.5 - 23.8	5	29.94	1.85	6.2	29.5	25.4 - 34.5
All Coagulation Instruments	7	20.69	1.49	7.2	21.0	17.5 - 23.8	7	29.21	1.96	6.7	29.3	24.8 - 33.6
Specimen CG-3							Specimen CG-4					
All Method	75	11.51	0.77	6.7	11.4	9.7 - 13.3	74	11.60	0.69	6.0	11.5	9.8 - 13.4
Dade Innovin												
Sysmex CA-500/560	26	11.22	0.27	2.4	11.2	9.5 - 13.0	26	11.42	0.36	3.1	11.4	9.7 - 13.2
All Coagulation Instruments	28	11.18	0.32	2.9	11.2	9.5 - 12.9	29	11.33	0.44	3.9	11.4	9.6 - 13.1
IL TEST PT Fibrinogen												
IL ACL, all models	23	11.95	0.42	3.5	11.9	10.1 - 13.8	23	11.82	0.38	3.2	11.8	10.0 - 13.6
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	10.64	0.47	4.4	10.7	9.0 - 12.3	5	11.32	0.55	4.9	11.1	9.6 - 13.1
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	11.26	0.45	4.0	11.0	9.5 - 13.0	5	11.04	0.23	2.1	11.0	9.3 - 12.7
All Coagulation Instruments	7	11.31	0.38	3.4	11.4	9.6 - 13.1	7	11.17	0.30	2.7	11.1	9.4 - 12.9
Specimen CG-5												
All Method	72	14.15	0.74	5.2	14.2	12.0 - 16.3						
Dade Innovin												
Sysmex CA-500/560	26	14.10	0.39	2.8	14.2	11.9 - 16.3						
All Coagulation Instruments	29	14.04	0.41	2.9	14.1	11.9 - 16.2						
IL TEST PT Fibrinogen												
IL ACL, all models	23	14.72	0.53	3.6	14.7	12.5 - 17.0						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	13.44	0.32	2.4	13.4	11.4 - 15.5						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	13.54	0.38	2.8	13.4	11.5 - 15.6						
All Coagulation Instruments	7	13.69	0.41	3.0	13.5	11.6 - 15.8						

PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)

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	78	2.95	0.33	11.0	2.9	1.9 - 4.0	78	4.63	0.73	15.7	4.5	2.4 - 6.9
Dade Innovin												
Sysmex CA-500/560	27	2.76	0.10	3.7	2.8	2.4 - 3.1	27	3.89	0.17	4.3	3.9	3.3 - 4.4
All Coagulation Instruments	31	2.78	0.11	4.1	2.8	2.4 - 3.2	31	3.92	0.19	4.9	3.9	3.3 - 4.5
IL TEST PT Fibrinogen												
IL ACL, all models	22	3.15	0.13	4.2	3.2	2.7 - 3.6	23	5.06	0.27	5.4	5.1	4.2 - 5.9
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	3.70	0.49	13.1	3.5	2.2 - 5.2	6	6.28	0.70	11.2	6.2	4.1 - 8.4
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	2.72	0.47	17.3	2.7	1.3 - 4.2	5	4.96	0.38	7.8	4.9	3.8 - 6.2
All Coagulation Instruments	7	2.73	0.39	14.5	2.7	1.5 - 4.0	7	4.83	0.39	8.0	4.7	3.6 - 6.0
Specimen CG-3							Specimen CG-4					
All Method	79	1.02	0.08	7.9	1.0	0.7 - 1.3	77	1.03	0.08	7.7	1.0	0.7 - 1.3
Dade Innovin												
Sysmex CA-500/560	27	1.09	0.05	4.9	1.1	0.9 - 1.3	26	1.10	0.04	4.1	1.1	0.9 - 1.3
All Coagulation Instruments	31	1.09	0.05	4.6	1.1	0.9 - 1.3	30	1.10	0.04	3.8	1.1	0.9 - 1.3
IL TEST PT Fibrinogen												
IL ACL, all models	22	1.00	0.05	4.9	1.0	0.8 - 1.2	23	0.99	0.07	7.4	1.0	0.7 - 1.3
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	0.93	0.05	5.5	0.9	0.7 - 1.1	6	1.05	0.18	16.8	1.0	0.5 - 1.6
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	0.96	0.05	5.7	1.0	0.7 - 1.2	5	0.94	0.05	5.8	0.9	0.7 - 1.2
All Coagulation Instruments	7	0.96	0.05	5.6	1.0	0.7 - 1.2	7	0.94	0.05	5.7	0.9	0.7 - 1.2
Specimen CG-5												
All Method	76	1.38	0.09	6.6	1.4	1.1 - 1.7						
Dade Innovin												
Sysmex CA-500/560	27	1.37	0.07	4.9	1.4	1.1 - 1.6						
All Coagulation Instruments	31	1.37	0.06	4.6	1.4	1.1 - 1.6						
IL TEST PT Fibrinogen												
IL ACL, all models	23	1.44	0.09	6.2	1.4	1.1 - 1.8						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	1.43	0.10	7.2	1.4	1.1 - 1.8						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	1.32	0.08	6.3	1.3	1.0 - 1.6						
All Coagulation Instruments	7	1.33	0.08	5.7	1.3	1.1 - 1.6						

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	31	55.7	4.7	8.4	55	47 - 65	32	72.6	6.6	9.1	72	61 - 84
Dade Actin FSL												
Sysmex CA-500/560	17	55.8	3.2	5.7	55	47 - 65	17	72.9	4.1	5.6	73	61 - 84
IL TEST APTT-SP												
IL ACL, all models	10	52.6	2.9	5.5	53	44 - 61	10	67.5	4.5	6.6	69	57 - 78
	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	31	27.2	1.4	5.1	27	23 - 32	31	32.7	1.2	3.7	33	27 - 38
Dade Actin FSL												
Sysmex CA-500	17	28.2	1.0	3.4	28	23 - 33	17	33.0	1.1	3.4	33	28 - 38
IL TEST APTT-SP												
IL ACL, all models	10	26.1	0.9	3.4	26	22 - 31	10	32.3	1.2	3.6	32	27 - 38
	Specimen CG-5											
	<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	32	36.8	4.8	13.0	35	31 - 43						
Dade Actin FSL												
Sysmex CA-500	17	32.9	1.6	4.8	33	27 - 38						
IL TEST APTT-SP												
IL ACL, all models	10	40.4	1.6	3.9	40	34 - 47						

Fibrinogen (mg/dL)

One participant reported Fibrinogen. The vendor assay values for specimens CG-1 through CG-5 are: 284 mg/dL, 289 mg/dL, 347 mg/dL, 622 mg/dL and 94 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 Negative	3	100%	Acceptable
RH-2	Rh Negative	3	100%	Acceptable
RH-3	Rh Positive	3	100%	Acceptable
RH-4	Rh Positive	3	100%	Acceptable
RH-5	Rh Negative	3	100%	Acceptable

COAGUCHEK XS PLUS PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen XS-1				<u>Labs</u>	<u>Mean</u>	Specimen XS-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>
Roche CoaguChek XS Plus	20	34.08	1.44	4.2	34.5	28.9 - 39.2	20	33.94	1.27	3.7	34.3	28.8 - 39.1
			Specimen XS-3						Specimen XS-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>
Roche CoaguChek XS Plus	20	25.01	1.00	4.0	25.3	21.2 - 28.8	20	34.00	1.58	4.6	34.4	28.9 - 39.1
			Specimen XS-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Roche CoaguChek XS Plus	20	24.78	0.81	3.3	24.9	21.0 - 28.5						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen XS-1				<u>Labs</u>	<u>Mean</u>	Specimen XS-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>
Roche CoaguChek XS Plus	20	2.84	0.11	4.0	2.9	2.4 - 3.2	20	2.83	0.11	3.7	2.9	2.5 - 3.2
			Specimen XS-3						Specimen XS-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>
Roche CoaguChek XS Plus	20	2.09	0.09	4.2	2.1	1.8 - 2.4	20	2.84	0.13	4.6	2.9	2.4 - 3.3
			Specimen XS-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Roche CoaguChek XS Plus	20	2.06	0.06	2.9	2.1	1.8 - 2.3						

ITC PROTIME MICROCOAGULATION SYSTEM PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen IT-1				<u>Labs</u>	<u>Mean</u>	Specimen IT-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	15	17.17	0.97	5.6	17.0	14.5 - 19.8	17	33.82	3.07	9.1	33.9	28.7 - 38.9

ITC PROTIME MICROCOAGULATION SYSTEM -INTERNATIONAL NORMALIZED RATIO (INR)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen IT-1				<u>Labs</u>	<u>Mean</u>	Specimen IT-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	18	1.32	0.07	5.4	1.3	1.1 - 1.6	21	2.60	0.21	8.2	2.6	1.9 - 3.3
ITC ProTime System - 3 Channel	10	1.32	0.08	6.0	1.3	1.0 - 1.6	10	2.69	0.17	6.4	2.8	2.1 - 3.3

i-Stat PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-1				<u>Labs</u>	<u>Mean</u>	Specimen PTI-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	14	26.94	1.84	6.8	27.2	22.9 - 31.0	14	13.60	0.71	5.2	13.6	11.5 - 15.7
i-Stat Prothrombin Time	13	26.88	1.90	7.1	27.1	22.8 - 31.0	13	13.49	0.61	4.5	13.5	11.4 - 15.6
			Specimen PTI-3						Specimen PTI-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	14	27.31	1.69	6.2	26.8	23.2 - 31.5	14	13.25	0.61	4.6	13.2	11.2 - 15.3
i-Stat Prothrombin Time	13	27.05	1.43	5.3	26.4	22.9 - 31.2	13	13.22	0.63	4.7	13.1	11.2 - 15.3
			Specimen PTI-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	13.34	0.56	4.2	13.4	11.3 - 15.4						
i-Stat Prothrombin Time	13	13.32	0.58	4.3	13.4	11.3 - 15.4						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-1				<u>Labs</u>	<u>Mean</u>	Specimen PTI-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	14	2.35	0.17	7.2	2.4	1.8 - 2.9	14	1.14	0.06	5.6	1.1	0.9 - 1.4
i-Stat Prothrombin Time	13	2.34	0.17	7.3	2.3	1.8 - 2.9	13	1.13	0.06	5.6	1.1	0.9 - 1.4
			Specimen PTI-3						Specimen PTI-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	14	2.37	0.18	7.5	2.3	1.8 - 3.0	14	1.10	0.07	6.2	1.1	0.8 - 1.4
i-Stat Prothrombin Time	13	2.34	0.13	5.7	2.3	1.9 - 2.8	13	1.10	0.07	6.4	1.1	0.8 - 1.4
			Specimen PTI-5									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	1.11	0.05	4.3	1.1	0.9 - 1.3						
i-Stat Prothrombin Time	13	1.11	0.05	4.5	1.1	0.9 - 1.3						

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	8	0.0	0.0	0.0	0	0 - 0	7	576.9	137.6	23.8	600	164 - 990

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	6	837.3	226.8	27.1	911	156 - 1518	6	1883.7	199.7	10.6	1931	1284 - 2483

FLUID CELL COUNT/CRYSTALS – CRYSTAL IDENTIFICATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BF-1	Calcium oxalate crystals	10	83.33%	Acceptable
	CPPD Crystals	1	8.33%	
	No crystals observed	1	8.33%	
BF-2	MSU (Monosodium Urate)	11	100%	Acceptable

MICROALBUMIN, DIPSTICK

Specimen UM-1

Participant Results

<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	45	-	-	-	1	11	8	25
Bayer Clinitek Microalbumin	36	-	-	-	-	11	-	25
Roche Micral - 1 minute	9	-	-	-	1	-	8	-

CREATININE, DIPSTICK

Specimen UM-1

Participant Results

<u>Method</u>	<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	38	-	-	-	-	-	7	31
Bayer Clinitek Microalbumin	35	-	-	-	-	-	5	30
Bayer Multistix Pro	3	-	-	-	-	-	2	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	97	146.7	11.7	7.9	148	111 - 182
Axis-Shield Afinion AS100	10	139.8	13.5	9.7	137	99 - 181
Bayer DCA 2000(+)	12	149.2	10.0	6.7	147	119 - 180
Dade Dimension/AR/ES/RxL/Xpand	23	142.6	12.3	8.6	144	105 - 180
Siemens DCA Vantage	17	151.5	7.9	5.2	151	127 - 176

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	90	222.6	12.0	5.4	221	186 - 259
Axis-Shield Afinion AS100	11	214.3	5.3	2.5	215	198 - 231
Bayer DCA 2000(+)	12	227.9	8.6	3.8	229	202 - 254
Dade Dimension/AR/ES/RxL/Xpand	19	215.4	11.4	5.3	214	181 - 250
Siemens DCA Vantage	17	231.9	8.1	3.5	231	207 - 257

CREATININE, URINE (mmol/L)

Three participants reported Creatinine. The Vendor Assay for specimen UM-1 is 21.0 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	75	6.69	0.26	3.9	6.7	5.9 - 7.5
All Stanbio Methods	10	7.45	0.87	11.7	7.1	4.8 - 10.1
HemoCue	67	6.64	0.22	3.3	6.6	5.9 - 7.4

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
80	11.33	0.35	3.1	11.3	10.2 - 12.4
12	11.37	0.57	5.0	11.5	9.6 - 13.1
68	11.30	0.36	3.1	11.3	10.2 - 12.4

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	19.48	1.31	6.7	20.0	15.5 - 23.5
All Microhematocrit Methods	19	19.55	1.30	6.7	20.0	15.6 - 23.5

Specimen HD-2

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
20	33.97	2.92	8.6	33.5	25.2 - 42.8
19	34.02	2.99	8.8	34.0	25.0 - 43.0

KOH SKIN PREPARATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
K-1	Yeast/fungal elements present	170	91.04%	Acceptable
	Yeast/fungal elements absent	16	8.60%	

Organism present in specimen K-1: *Microsporum gypseum*.

K-2	Yeast/fungal elements present	179	95.72%	Acceptable
	Yeast/fungal elements absent	8	4.28%	

Organism present in specimen K-2: *Trichophyton mentagrophytes*.

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	1021	1.0241	0.0067	0.7	1.025	1.014 - 1.035
All PSS Select Methods	13	1.0248	0.0021	0.2	1.025	1.014 - 1.035
All Refractive Index Methods	10	1.0168	0.0019	0.2	1.017	1.006 - 1.027
All Roche Instruments	71	1.0107	0.0028	0.3	1.010	1.000 - 1.021
Arkay DiaScreen	10	1.0170	0.0075	0.7	1.020	1.007 - 1.027
Bayer Clinitek 10 / 100	19	1.0284	0.0029	0.3	1.030	1.018 - 1.039
Bayer Clinitek 50	90	1.0284	0.0024	0.2	1.030	1.018 - 1.039
Bayer Clinitek 500	22	1.0282	0.0024	0.2	1.030	1.018 - 1.039
Bayer Clinitek Advantus	19	1.0282	0.0024	0.2	1.030	1.018 - 1.039
Bayer Clinitek Status / Status+	332	1.0292	0.0019	0.2	1.030	1.019 - 1.040
Bayer Reagent Strips	300	1.0225	0.0042	0.4	1.020	1.012 - 1.033
Consult Diagnostics Urine Analyzer	12	1.0238	0.0038	0.4	1.025	1.013 - 1.034
CTMI CT-120 Urine Analyzer	11	1.0241	0.0021	0.2	1.025	1.014 - 1.035
Diagnostic Test Group Clarity Urocheck	15	1.0217	0.0045	0.4	1.020	1.011 - 1.032
Roche Chemstrips	52	1.0096	0.0019	0.2	1.010	0.999 - 1.020
Roche Criterion Analyzer	20	1.0105	0.0027	0.3	1.010	1.000 - 1.021
Roche Urisys	42	1.0106	0.0029	0.3	1.010	1.000 - 1.021

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	1062	-	-	-	-	1	3	36	845	151	24	2	-
Arkray DiaScreen	11	-	-	-	-	-	-	-	11	-	-	-	-
Arkray DiaScreen 50	2	-	-	-	-	-	-	-	2	-	-	-	-
Arkray PocketChem UA	2	-	-	-	-	-	1	-	1	-	-	-	-
Bayer Clinitek 10 / 100	19	-	-	-	-	-	-	-	18	1	-	-	-
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	-	1	-	-	-	-
Bayer Clinitek 50	92	-	-	-	-	-	-	6	86	-	-	-	-
Bayer Clinitek 500	23	-	-	-	-	-	-	1	10	12	-	-	-
Bayer Clinitek Advantus	20	-	-	-	-	-	-	-	10	10	-	-	-
Bayer Clinitek Atlas	4	-	-	-	-	-	-	-	4	-	-	-	-
Bayer Clinitek Status / Status+	336	-	-	-	-	-	-	7	327	2	-	-	-
Bayer Hemacombistix	1	-	-	-	-	-	-	-	1	-	-	-	-
Bayer Multistix Pro	2	-	-	-	-	-	-	-	1	-	1	-	-
Bayer Reagent Strips	310	-	-	-	-	1	1	5	186	113	2	2	-
Behring Reagent Strips	1	-	-	-	-	-	-	-	-	1	-	-	-
Consult Diagnostics Urine Analyzer	12	-	-	-	-	-	-	7	5	-	-	-	-
CTMI CT-120 Urine Analyzer	11	-	-	-	-	-	-	2	9	-	-	-	-
Diagnostic Test Group Clarity Urocheck	15	-	-	-	-	-	-	-	15	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	4	-	-	-	-	-	-	-	4	-	-	-	-
Germaine Laboratories AimStrip	4	-	-	-	-	-	-	-	4	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	-	-	-	1	-	-	-	-
McKesson 10SG Reagent Strips	9	-	-	-	-	-	-	1	8	-	-	-	-
Other Analyzer Method	3	-	-	-	-	-	-	-	3	-	-	-	-
Other Dipstick Method	7	-	-	-	-	-	-	-	6	-	1	-	-
pH Paper	1	-	-	-	-	-	-	-	1	-	-	-	-
PSS Select Reagent Strips	10	-	-	-	-	-	-	2	5	2	1	-	-
PSS Select Urine Analyzer	4	-	-	-	-	-	1	3	-	-	-	-	-
Roche Chemstrip 101	9	-	-	-	-	-	-	-	7	-	2	-	-
Roche Chemstrips	60	-	-	-	-	-	-	1	47	6	6	-	-
Roche Criterion Analyzer	20	-	-	-	-	-	-	-	14	-	6	-	-
Roche SuperUA/ChemstripUA	1	-	-	-	-	-	-	-	1	-	-	-	-
Roche Urisys	44	-	-	-	-	-	-	-	40	1	3	-	-
Schein Urispec	8	-	-	-	-	-	-	-	8	-	-	-	-
UriScan Reagent Strips	3	-	-	-	-	-	-	-	2	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 mg/dL (1+)</u>	<u>100 mg/dL (2+)</u>	<u>300-500 mg/dL (3+)</u>	<u>≥300 mg/dL</u>	<u>≥1000 mg/dL (4+)</u>
ALL METHODS	1080	3	1	9	245	460	319	43
Arkray Aution Sticks	1	-	-	-	-	1	-	-
Arkray DiaScreen	11	-	-	-	4	5	1	1
Arkray DiaScreen 50	2	-	-	-	2	-	-	-
Arkray PocketChem UA	2	1	-	-	-	-	1	-
Bayer Albustix	1	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	19	-	-	-	3	7	9	-
Bayer Clinitek 200/200+	1	-	-	-	-	1	-	-
Bayer Clinitek 50	91	-	-	-	1	31	59	-
Bayer Clinitek 500	23	-	-	-	21	-	2	-
Bayer Clinitek Advantus	19	-	-	-	19	-	-	-
Bayer Clinitek Atlas	4	-	-	-	-	1	3	-
Bayer Clinitek Status / Status+	334	-	-	-	2	119	213	-
Bayer Hemacombistix	1	-	-	-	-	1	-	-
Bayer Multistix Pro	2	1	-	-	-	1	-	-
Bayer Reagent Strips	314	1	1	3	68	175	25	41
Bayer Uristix	4	-	-	-	1	3	-	-
Behring Reagent Strips	1	-	-	-	-	1	-	-
Consult Diagnostics Urine Analyzer	12	-	-	2	5	4	1	-
CTMI CT-120 Urine Analyzer	9	-	-	-	8	1	-	-
Diagnostic Test Group Clarity Urocheck	14	-	-	-	2	10	2	-
Diagnostic Test Group Clarity Urocheck 120	4	-	-	-	3	1	-	-
Germaine Laboratories AimStrip	4	-	-	-	2	2	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	1	-	-	-
McKesson 10SG Reagent Strips	9	-	-	-	6	2	-	1
Other Analyzer Method	3	-	-	-	2	1	-	-
Other Dipstick Method	7	-	-	-	5	2	-	-
PSS Select Reagent Strips	10	-	-	1	2	6	1	-
PSS Select Urine Analyzer	4	-	-	-	3	1	-	-
Roche Chemstrip 101	9	-	-	-	6	3	-	-
Roche Chemstrips	74	-	-	-	31	42	1	-
Roche Criterion Analyzer	20	-	-	-	16	4	-	-
Roche SuperUA/ChemstripUA	1	-	-	-	1	-	-	-
Roche Urisys	44	-	-	2	25	17	-	-
Schein Urispec	8	-	-	-	3	5	-	-
Sulfosalicylic Acid	3	-	-	-	1	2	-	-
UriScan Reagent Strips	3	-	-	-	-	3	-	-

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	1083	1080	2	-	1	-	-	-	-
Arkray Aution Sticks	1	1	-	-	-	-	-	-	-
Arkray DiaScreen	11	11	-	-	-	-	-	-	-
Arkray DiaScreen 50	2	2	-	-	-	-	-	-	-
Arkray PocketChem UA	2	2	-	-	-	-	-	-	-
Bayer Clinitek 10 / 100	19	19	-	-	-	-	-	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-	-	-	-
Bayer Clinitek 2000	1	1	-	-	-	-	-	-	-
Bayer Clinitek 50	92	91	-	-	1	-	-	-	-
Bayer Clinitek 500	23	23	-	-	-	-	-	-	-
Bayer Clinitek Advantus	20	20	-	-	-	-	-	-	-
Bayer Clinitek Atlas	4	4	-	-	-	-	-	-	-
Bayer Clinitek Status / Status+	336	336	-	-	-	-	-	-	-
Bayer Hemacombistix	1	1	-	-	-	-	-	-	-
Bayer Multistix Pro	2	2	-	-	-	-	-	-	-
Bayer Reagent Strips	312	312	-	-	-	-	-	-	-
Bayer Uristix	4	4	-	-	-	-	-	-	-
Behring Reagent Strips	1	1	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	12	12	-	-	-	-	-	-	-
CTMI CT-120 Urine Analyzer	11	11	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	15	15	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	4	4	-	-	-	-	-	-	-
Germaine Laboratories AimStrip	4	4	-	-	-	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-	-	-	-
McKesson 10SG Reagent Strips	9	9	-	-	-	-	-	-	-
Other Analyzer Method	3	3	-	-	-	-	-	-	-
Other Dipstick Method	7	7	-	-	-	-	-	-	-
PSS Select Reagent Strips	10	10	-	-	-	-	-	-	-
PSS Select Urine Analyzer	4	4	-	-	-	-	-	-	-
Roche Chemstrip 101	9	9	-	-	-	-	-	-	-
Roche Chemstrips	74	74	-	-	-	-	-	-	-
Roche Criterion Analyzer	20	20	-	-	-	-	-	-	-
Roche Miditron Junior/II	1	1	-	-	-	-	-	-	-
Roche SuperUA/ChemstripUA	1	1	-	-	-	-	-	-	-
Roche Urisys	44	42	2	-	-	-	-	-	-
Schein Urispec	8	8	-	-	-	-	-	-	-
UriScan Reagent Strips	2	2	-	-	-	-	-	-	-

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	1062	5	3	22	476	523	1	32
Arkray DiaScreen	10	-	-	1	5	4	-	-
Arkray DiaScreen 50	2	-	-	-	2	-	-	-
Arkray PocketChem UA	2	-	1	-	-	1	-	-
Bayer Clinitek 10 / 100	19	-	-	-	14	5	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-	-	-
Bayer Clinitek 50	92	-	-	-	70	22	-	-
Bayer Clinitek 500	22	-	-	1	21	-	-	-
Bayer Clinitek Advantus	20	-	-	-	19	1	-	-
Bayer Clinitek Atlas	4	-	-	-	4	-	-	-
Bayer Clinitek Status / Status+	337	-	-	-	127	204	-	6
Bayer Ketostix	2	-	-	-	1	1	-	-
Bayer Multistix Pro	2	-	-	-	-	2	-	-
Bayer Reagent Strips	313	2	-	1	59	226	1	24
Behring Reagent Strips	1	-	-	-	-	1	-	-
Consult Diagnostics Urine Analyzer	12	-	1	2	8	1	-	-
CTMI CT-120 Urine Analyzer	11	-	-	3	7	1	-	-
Diagnostic Test Group Clarity Urocheck	15	-	-	-	9	6	-	-
Diagnostic Test Group Clarity Urocheck 120	4	-	-	2	1	1	-	-
Germaine Laboratories AimStrip	4	-	-	1	3	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	1	-	-	-
McKesson 10SG Reagent Strips	9	1	-	-	2	6	-	-
Other Analyzer Method	3	-	-	1	2	-	-	-
Other Dipstick Method	7	-	-	-	4	3	-	-
PSS Select Reagent Strips	9	-	-	-	4	5	-	-
PSS Select Urine Analyzer	4	-	-	-	2	2	-	-
Roche Chemstrip 101	9	-	-	1	6	2	-	-
Roche Chemstrips	60	-	-	1	44	15	-	-
Roche Criterion Analyzer	20	-	-	-	18	2	-	-
Roche SuperUA/ChemstripUA	1	-	-	-	-	1	-	-
Roche Urisys	44	1	1	7	31	4	-	-
Schein Urispec	8	-	-	1	6	1	-	-
UriScan Reagent Strips	2	-	-	-	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	1025	1019	2	1	3
Arkray DiaScreen	10	10	-	-	-
Arkray DiaScreen 50	2	2	-	-	-
Arkray PocketChem UA	2	1	-	-	1
Bayer Clinitek 10 / 100	19	18	-	-	1
Bayer Clinitek 200/200+	1	1	-	-	-
Bayer Clinitek 50	89	89	-	-	-
Bayer Clinitek 500	22	22	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-
Bayer Clinitek Atlas	4	4	-	-	-
Bayer Clinitek Status / Status+	324	323	-	-	1
Bayer Ictotest	4	4	-	-	-
Bayer Multistix Pro	1	1	-	-	-
Bayer Reagent Strips	298	297	-	1	-
Behring Reagent Strips	1	1	-	-	-
Consult Diagnostics Urine Analyzer	12	11	1	-	-
CTMI CT-120 Urine Analyzer	11	11	-	-	-
Diagnostic Test Group Clarity Urocheck	14	14	-	-	-
Diagnostic Test Group Clarity Urocheck 120	4	4	-	-	-
Germaine Laboratories AimStrip	4	4	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-
McKesson 10SG Reagent Strips	9	8	1	-	-
Other Analyzer Method	3	3	-	-	-
Other Dipstick Method	7	7	-	-	-
PSS Select Reagent Strips	9	9	-	-	-
PSS Select Urine Analyzer	4	4	-	-	-
Roche Chemstrip 101	9	9	-	-	-
Roche Chemstrips	58	58	-	-	-
Roche Criterion Analyzer	19	19	-	-	-
Roche SuperUA/ChemstripUA	1	1	-	-	-
Roche Urisys	43	43	-	-	-
Schein Urispec	8	8	-	-	-
UriScan Reagent Strips	2	2	-	-	-

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	996	990	1	1	2	2
Arkray DiaScreen	10	10	-	-	-	-
Arkray DiaScreen 50	2	2	-	-	-	-
Arkray PocketChem UA	2	1	-	-	-	1
Bayer Clinitek 10 / 100	19	19	-	-	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-
Bayer Clinitek 50	88	88	-	-	-	-
Bayer Clinitek 500	16	16	-	-	-	-
Bayer Clinitek Advantus	18	18	-	-	-	-
Bayer Clinitek Atlas	3	3	-	-	-	-
Bayer Clinitek Status / Status+	326	325	-	-	1	-
Bayer Multistix Pro	1	1	-	-	-	-
Bayer Reagent Strips	279	275	1	1	1	1
Behring Reagent Strips	1	1	-	-	-	-
Consult Diagnostics Urine Analyzer	12	12	-	-	-	-
CTMI CT-120 Urine Analyzer	11	11	-	-	-	-
Diagnostic Test Group Clarity Urocheck	15	15	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	3	3	-	-	-	-
Germaine Laboratories AimStrip	4	4	-	-	-	-
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
McKesson 10SG Reagent Strips	9	9	-	-	-	-
Other Analyzer Method	3	3	-	-	-	-
Other Dipstick Method	7	7	-	-	-	-
PSS Select Reagent Strips	9	9	-	-	-	-
PSS Select Urine Analyzer	4	4	-	-	-	-
Roche Chemstrip 101	9	9	-	-	-	-
Roche Chemstrips	57	57	-	-	-	-
Roche Criterion Analyzer	20	20	-	-	-	-
Roche SuperUA/ChemstripUA	1	1	-	-	-	-
Roche Urisys	43	43	-	-	-	-
Schein Urispec	8	8	-	-	-	-
UriScan Reagent Strips	2	2	-	-	-	-

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	1071	4	4	3	43	1017
Arkray DiaScreen	11	-	-	-	-	11
Arkray DiaScreen 50	2	-	-	-	-	2
Arkray PocketChem UA	2	1	-	-	-	1
Bayer Clinitek 10 / 100	19	-	-	-	1	18
Bayer Clinitek 200/200+	1	-	-	-	-	1
Bayer Clinitek 50	91	-	1	-	-	90
Bayer Clinitek 500	23	-	-	-	1	22
Bayer Clinitek Advantus	20	-	-	-	-	20
Bayer Clinitek Atlas	4	-	-	-	-	4
Bayer Clinitek Status / Status+	336	1	-	-	8	327
Bayer Hemacombistix	1	-	-	-	-	1
Bayer Multistix Pro	2	-	1	-	-	1
Bayer Reagent Strips	310	1	1	1	3	304
Consult Diagnostics Urine Analyzer	12	-	1	1	-	10
CTMI CT-120 Urine Analyzer	11	-	-	-	-	11
Diagnostic Test Group Clarity Urocheck	15	-	-	-	-	15
Diagnostic Test Group Clarity Urocheck 120	4	-	-	-	-	4
Germaine Laboratories AimStrip	4	-	-	-	-	4
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	1
McKesson 10SG Reagent Strips	9	1	-	-	-	8
Other Analyzer Method	3	-	-	-	-	3
Other Dipstick Method	7	-	-	-	2	5
PSS Select Reagent Strips	10	-	-	-	2	8
PSS Select Urine Analyzer	4	-	-	-	-	4
Roche Chemstrip 101	9	-	-	-	-	9
Roche Chemstrips	71	-	-	1	5	65
Roche Criterion Analyzer	20	-	-	-	-	20
Roche SuperUA/ChemstripUA	1	-	-	-	-	1
Roche Urisys	44	-	-	-	21	23
Schein Urispec	8	-	-	-	-	8
UriScan Reagent Strips	3	-	-	-	-	3

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	1065	2	2	42	486	533
Arkray DiaScreen	10	-	1	1	-	8
Arkray DiaScreen 50	2	-	-	-	-	2
Arkray PocketChem UA	2	1	-	-	-	1
Bayer Clinitek 10 / 100	19	-	-	-	5	14
Bayer Clinitek 200/200+	1	-	-	-	1	-
Bayer Clinitek 50	92	-	-	3	49	40
Bayer Clinitek 500	23	-	-	-	20	3
Bayer Clinitek Advantus	20	-	-	1	11	8
Bayer Clinitek Atlas	4	-	-	-	-	4
Bayer Clinitek Status / Status+	335	-	-	27	133	175
Bayer Multistix Pro	2	-	-	-	1	1
Bayer Reagent Strips	304	1	-	7	125	171
Bayer Uristix	2	-	-	-	1	1
Behring Reagent Strips	1	-	-	-	-	1
Consult Diagnostics Urine Analyzer	12	-	-	1	3	8
CTMI CT-120 Urine Analyzer	11	-	-	1	7	3
Diagnostic Test Group Clarity Urocheck	15	-	-	-	6	9
Diagnostic Test Group Clarity Urocheck 120	4	-	-	-	3	1
Germaine Laboratories AimStrip	4	-	1	1	-	2
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	1
McKesson 10SG Reagent Strips	9	-	-	-	7	2
Other Analyzer Method	3	-	-	-	-	3
Other Dipstick Method	7	-	-	-	4	3
PSS Select Reagent Strips	10	-	-	-	2	8
PSS Select Urine Analyzer	4	-	-	-	-	4
Roche Chemstrip 101	9	-	-	-	6	3
Roche Chemstrips	71	-	-	-	55	16
Roche Criterion Analyzer	20	-	-	-	13	7
Roche SuperUA/ChemstripUA	1	-	-	-	-	1
Roche Urisys	44	-	-	-	26	18
Schein Urispec	7	-	-	-	2	5
UriScan Reagent Strips	3	-	-	-	-	3

URINALYSIS DIPSTICK--NITRITE

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1065	1054	11
Arkray DiaScreen	10	8	2
Arkray DiaScreen 50	2	2	-
Arkray PocketChem UA	2	1	1
Bayer Clinitek 10 / 100	19	19	-
Bayer Clinitek 200/200+	1	1	-
Bayer Clinitek 2000	1	1	-
Bayer Clinitek 50	92	92	-
Bayer Clinitek 500	23	23	-
Bayer Clinitek Advantus	20	20	-
Bayer Clinitek Atlas	4	4	-
Bayer Clinitek Status / Status+	336	335	1
Bayer Multistix Pro	2	2	-
Bayer Reagent Strips	298	295	3
Bayer Uristix	2	2	-
Behring Reagent Strips	1	1	-
Consult Diagnostics Urine Analyzer	11	11	-
CTMI CT-120 Urine Analyzer	11	10	1
Diagnostic Test Group Clarity Urocheck	15	15	-
Diagnostic Test Group Clarity Urocheck 120	4	4	-
Germaine Laboratories AimStrip	4	4	-
Iris Diagnostics vChem Urine Strips	1	1	-
McKesson 10SG Reagent Strips	9	8	1
Other Analyzer Method	3	3	-
Other Dipstick Method	7	7	-
PSS Select Reagent Strips	10	10	-
PSS Select Urine Analyzer	4	4	-
Roche Chemstrip 101	9	9	-
Roche Chemstrips	71	70	1
Roche Criterion Analyzer	20	20	-
Roche SuperUA/ChemstripUA	1	1	-
Roche Urisys	44	43	1
Schein Urispec	8	8	-
UriScan Reagent Strips	3	3	-

URINALYSIS –MICROALBUMIN (dipstick only)

Specimen UA-1

<u>Method</u>	<i>Participant Results</i>							
	<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	86	1	1	1	8	1	31	43
Bayer Clinitek Microalbumin	44	-	-	-	1	1	-	42
DCL ImmunoDip	1	-	1	-	-	-	-	-
Micro-Bumintest	4	-	-	-	-	-	4	-
Roche Micral - 1 minute	36	1	-	1	7	-	27	-

URINALYSIS –URINE hCG

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	575	572	3
AimStep Combo Pregnancy	1	1	-
Alfa Scientific Instant View	6	6	-
Bayer Clinitek 50	1	1	-
Bayer Clinitek Status / Status+	1	1	-
Beckman Coulter ICON 25 hCG	44	44	-
Cardinal Health SP Brand combo	26	26	-
Cardinal Hlth SPBrand-cassette	7	7	-
CONSULT diagnostics hCG Cassette	51	51	-
CONSULT diagnostics hCG Combo	14	14	-
CONSULT diagnostics hCG Dipstick	18	18	-
Diagnostic Test Group Clarity hCG Combo	2	2	-
Diagnostic Test Group Clarity hCG strip/cassette	5	5	-
Genzyme OSOM - Urine Test	9	9	-
Genzyme OSOM Card Pregnancy	4	4	-
Genzyme OSOM hCG Combo Test	12	12	-
Henry Schein One Step	37	36	1
Immunostics Cept-D	1	-	1
Immunostics Detector Combi	1	1	-
Immunostics hCG Detector-urine	17	17	-
Inverness Acceva hCG-Urine	7	7	-
Inverness Clearview 25 hCG Combo	9	9	-
Inverness Clearview hCG Cassette	10	10	-
Inverness Clearview hCG Combo II	8	8	-
LifeSign Status hCG	1	1	-
McKesson hCG Combo Cassette	16	16	-
McKesson hCG Urine Cassette	21	21	-
McKesson urine hCG-all 20 mIU kits	9	9	-
Meridian ImmunoCard STAT!	3	3	-
NDC Pro Advantage	16	16	-
PEP (Lab Supply) HCG	5	4	1
Permaxim Rediscreeen	1	1	-
Polymedco Poly stat hCG	11	11	-
PSS Select hCG Cassette	6	6	-
PSS Select hCG Combo	1	1	-
PSS Select hCG Dipstick	1	1	-

URINALYSIS –URINE hCG cont'd

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Quidel QuickVue One-Step Combo	36	36	-
Quidel QuickVue One-Step Urine	91	91	-
Quidel QuickVue+ One-Step Combo	21	21	-
Quidel RapidVue	1	1	-
Stanbio QuPID	8	8	-
Stanbio QuPID One-Step Preg.	1	1	-
Stanbio QuPID Plus	3	3	-
Stanbio QuStick	1	1	-
Stanbio TRUE hCG	8	8	-
Sure-Vue hCG - 25mIU	5	5	-
Sure-Vue hCG-STAT	2	2	-

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	507	2	505	507	499	8
Alfa Scientific Instant View	2	-	2	2	2	-
Beckman Coulter Hemoccult ICT	33	-	33	33	33	-
Guiac (slide) Test	343	1	342	343	340	3
Hemosure iFOB	48	-	48	48	45	3
Inverness Clearview iFOBT Complete	2	-	2	2	2	-
Other Immunochemical FOB kit	32	-	32	32	31	1
Polymedco OC Auto Micro 80	8	-	8	8	8	-
Polymedco OC-Light iFOB	21	-	21	21	21	-
Quidel QuickVue iFOB	6	-	6	6	6	-
Wampole Clearview Ultra FOBT	2	-	2	2	2	-

2012 M1
URINE SEDIMENT IDENTIFICATION

A 41-year-old male presented to an urgent care facility early in the morning complaining of severe lower back pain that awakened him during the night. The pain radiates to the groin area and increases with urination. A urinalysis was performed, and results appear below:

Color = Red
Appearance = Cloudy

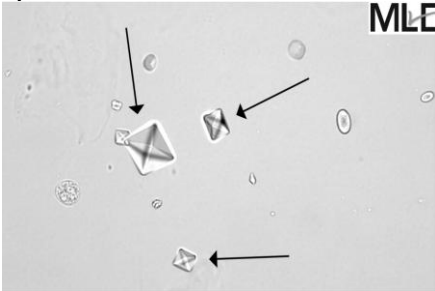
Dipstick results:

Specific Gravity = 1.030
pH = 5.5
Protein = Trace
Glucose = Negative
Ketones = Negative
Bilirubin = Negative
Urobilinogen = Normal
Blood = Moderate
Leukocyte esterase = Negative
Nitrite = Negative

This patient was diagnosed with urolithiasis (urinary stones). Stones can form anywhere in the urinary tract, but the most common site is in the kidneys. A kidney stone, also called a renal calculus, is a hard mass of crystallized material resembling a small pebble. Some stones cause acute pain and hematuria as they pass through the urinary tract. Most smaller kidney stones will pass into the urine within 48 hrs after the onset of acute renal colic. Up to 10% of patients with active stone passage may need hospitalization for complications such as urinary obstruction, sepsis, intractable vomiting, dehydration, and severe pain.

The most common type of stones contain calcium in combination with either oxalate or phosphate. Stones may be recovered from the urine by filtration, then sent to a reference lab for analysis to identify their chemical composition. Microscopic examination of warm, freshly voided urine for crystals can aid in the diagnosis. Testing the urine pH is important because certain crystals are found only in acid urine or alkaline urine. Once a person has had more than one episode of urinary stones, more stones are likely to develop. Causes of excess oxalate in the urine include genetic predisposition, gastrointestinal hyperabsorption of oxalate, and vitamin B6 deficiency. A modified diet and medication can help to prevent recurrences.

Specimen US-1

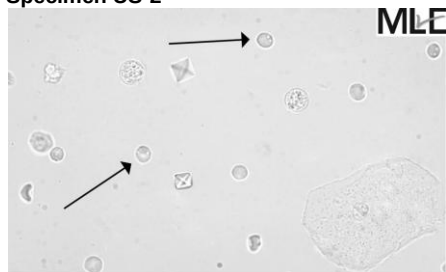


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Calcium oxalate crystal	730	97.33%	Acceptable
Triple phosphate crystal	9	1.20%	
Uric acid crystal	5	0.67%	

The arrows in this photograph point to **calcium oxalate crystals**. Calcium oxalate crystals are octahedral in shape. The typical square appearance with diagonal lines forming an “X” resembles an envelope. Rarely, they may also appear as oval spheres or biconcave disks. Calcium oxalate crystals are often present normally after ingestion of certain oxalate-rich vegetables. They are also the most common source of renal calculi. If seen in freshly voided urine, their presence suggests the possibility of oxalate calculi..

URINE SEDIMENT IDENTIFICATION cont'd

Specimen US-2



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Red blood cell (RBC)	719	95.61%	Acceptable
White blood cell (WBC)	12	1.60%	
RBC/blood/hgb cast	7	0.93%	
RTE with fat globules	5	0.66%	

The arrows in this photograph point to **red blood cells**. They have no nuclei and are smaller than the two granular white blood cells nearby. The arrowed cell on the left has a prominent central pallor due to its biconcave disk shape. Red blood cells in urine often resemble donuts or inner tubes. Along with the patient's back pain, the positive dipstick result for blood and the microscopic presence of red cells suggest renal calculi. To view another photo of red blood cells, see 2010 M2 Specimen US-3.

References:

Kidney Stones in Adults. (Updated: September 2, 2010) NIH Publication No. 08-2495, October 2007. National Institutes of Health. Available at: <http://kidney.niddk.nih.gov/Kudiseases/pubs/stonesadults/>
Accessed 1/9/12.

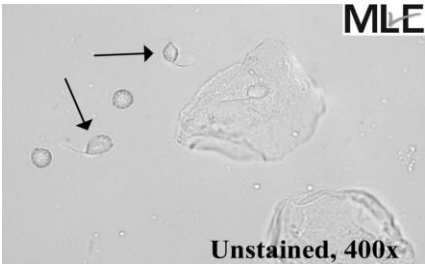
Mundt, L.A., Shanahan, K.: *Graff's Textbook of Routine Urinalysis and Body Fluids*, 2nd ed. Philadelphia: Lippincott Williams & Wilkins, 2011.

Ziyadeh, F.N., Goldfarb, S. "Nephrolithiasis." *ACP Medicine*. Ed. D. C. Dale. New York: WebMD, Inc., 2004. 2043-2047.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Wet Mount Preparation

Specimen PPM-1

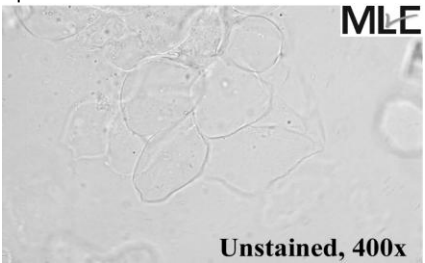


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Trichomonas vaginalis	594	97.06%	Acceptable
Spermatozoa	18	2.94%	

The arrows in this photograph of a vaginal wet mount point to **trichomonas**. *Trichomonas vaginalis* is a sexually-transmitted parasite primarily responsible for vaginal infections, however it can also infect the urinary tract and prostate. Trichomonas is pear-shaped, and about the same size as a white blood cell. It is easily identified under the microscope by its distinctive irregular, rotating motility. It has a single nucleus, four anterior flagella, an anterior undulating membrane, and a sharp protruding posterior axostyle. Some participants mistook these trichomonads for spermatozoa. Spermatozoa have very small oval heads about one-fourth the size of a red blood cell, and very long tails. To view another photo of Trichomonas, see 2011 M2 Specimen PPM-7. To view a photo of sperm, see 2011 M1 Specimen PPM.

KOH Preparation

Specimen PPM-2



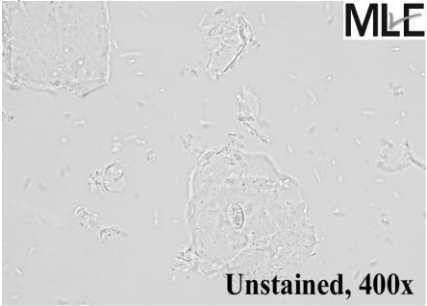
<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Yeast/fungal elements absent	583	98.15%	Acceptable
Yeast/fungal elements present	11	1.85%	

Yeast and fungal elements are absent in this photograph of a KOH vaginal wet mount.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Sperm Identification

Specimen PPM-3

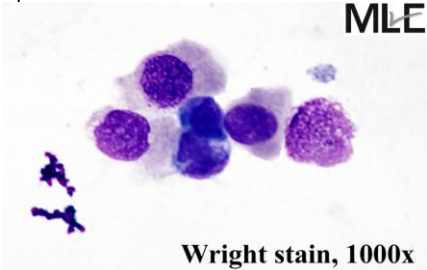


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Sperm absent	584	98.32%	Acceptable
Sperm present	10	1.68%	

Sperm are absent in this photograph of a vaginal wet mount preparation.

Nasal Smear

Specimen PPM-4



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Eosinophils absent	170	76.23%	Acceptable
Eosinophils present	53	23.77%	

Eosinophils are absent in this photograph of stained nasal mucus. None of the leukocytes in this photo has the red-orange color characteristic of eosinophils. An eosinophil is easily identified by large red-orange granules that fill the cytoplasm and surround the nucleus without obscuring it. The orange color retained by eosinophils comes from the dye eosin, a component of Wright stain. To view a photo of eosinophils, see 2011 M3 PPM-16. This challenge was graded by 100% referee consensus.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Pinworm Preparation

Specimen PPM-5



<u>Identification</u>
Pinworms/eggs present

<u>Labs</u>
275

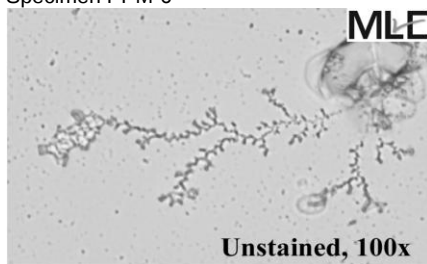
<u>Percent</u>
100%

<u>Performance</u>
Acceptable

Pinworm eggs are present in this photograph of a perianal skin prep.

Vaginal Fluid Preparation

Specimen PPM-6



<u>Identification</u>
Ferning present
Ferning absent

<u>Labs</u>
290
23

<u>Percent</u>
92.65%
7.35%

<u>Performance</u>
Acceptable

Ferning is present in this photograph of air-dried vaginal secretions.

References:

Fischer, P. M.: *The Office Laboratory*. Norwalk, Conn.: Appleton-Century-Crofts, 1983.

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.

Medical Laboratory Evaluation

25 Massachusetts Ave NW Ste 700

Washington, DC 20001-7401

800-338-2746 • 202-261-4500 • Fax: 202-835-0440

www.acponline.org/mle