

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Hematology, Coagulation,
Blood Bank, Urinalysis, PPM
MLE-M2



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

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Provider-Performed Microscopy (PPM)	80
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EVALUATION CRITERIA

The evaluation criteria used in the 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.

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

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	$\pm 7\%$
Hemoglobin, Waived	$\pm 7\%$
Hematocrit	$\pm 6\%$
Hematocrit, Waived	$\pm 6\%$ or ± 2 SD*
White Blood Cell Count	$\pm 15\%$
Red Blood Cell Count	$\pm 6\%$
Platelet Count	$\pm 25\%$
Automated Differential	± 3 SD
Body Fluid - White Cell Count	± 2 SD
Body Fluid - Red Cell Count	± 2 SD
Sedimentation Rate	± 3 SD
Prothrombin Time	$\pm 15\%$
International Normalized Ratio (INR)	$\pm 20\%$
Activated Partial Thromboplastin Time	$\pm 15\%$
Fibrinogen	$\pm 20\%$
Specific Gravity	± 0.010
Reticulocyte Count	± 3 SD
Whole Blood Glucose – HemoCue	± 12 mg/dL or $\pm 20\%*$
Microalbumin (Quantitative)	± 3 SD
Creatinine, Urine (Quantitative)	± 3 SD

*Whichever is greater

HEMOCUE HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen HQ-3							Specimen HQ-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>
HemoCue	49	12.91	0.32	2.5	12.9	12.0 - 13.9	49	4.98	0.18	3.5	4.9	4.6 - 5.4

HEMOCUE HEMATOLOGY–GLUCOSE (mg/dL)

Specimen HQ-3							Specimen HQ-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	58	91.8	7.3	8.0	92	73 - 111	59	56.5	6.3	11.1	56	44 - 69
HemoCue Glucose 201/+	54	92.1	7.0	7.6	92	73 - 111	55	56.5	5.7	10.1	56	44 - 69

SEDIMENTATION RATE (MM/HR)

Specimen ES-3							Specimen ES-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	187	50.8	13.4	26.4	48	10 - 92	184	7.7	2.3	29.5	8	0 - 15
All Vital Diagnostic Methods	19	66.9	6.8	10.1	67	46 - 88	19	7.3	1.0	14.4	7	4 - 11
HiChem Mini-Ves	12	73.5	9.5	12.9	72	45 - 102	12	5.4	1.7	31.9	6	0 - 11
Polymedco Sedimat	15	50.9	4.8	9.4	50	36 - 66	14	6.5	1.7	26.1	7	1 - 12
Streck ESR-Auto Plus	11	70.7	2.8	4.0	70	62 - 80	11	11.7	1.4	12.1	12	7 - 16
Vital Diagnostics Excyte M/10	14	65.7	6.3	9.6	66	46 - 85	14	7.4	1.2	15.6	7	3 - 11
Westergren - diluted	105	44.2	8.2	18.4	42	19 - 69	104	7.7	2.3	29.9	8	0 - 15
Westergren - undiluted	12	45.3	8.1	18.0	47	20 - 70	12	8.7	1.1	12.4	9	5 - 12

SEDIMAT SEDIMENTATION RATE (MM/HR)

Specimen MAT-3							Specimen MAT-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>
Polymedco Sedimat 15	17	53.6	8.9	16.5	56	27 - 81	18	1.7	1.0	59.1	2	0 - 5

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

Specimen CL-6							Specimen CL-7					
<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	27.75	0.86	3.1	27.6	23.5 - 32.0	31	3.45	0.20	5.9	3.5	2.9 - 4.0
All Abbott Cell-Dyn Instruments	29	27.66	0.81	2.9	27.5	23.5 - 31.9	30	3.44	0.25	7.2	3.5	2.9 - 4.0
Abbott Cell-Dyn 3200	12	27.77	0.64	2.3	27.5	23.6 - 32.0	12	3.33	0.23	7.0	3.4	2.8 - 3.9
Abbott Cell-Dyn Ruby	12	27.94	0.78	2.8	27.8	23.7 - 32.2	13	3.58	0.17	4.7	3.6	3.0 - 4.2
Specimen CL-8							Specimen CL-9					
All Method	32	8.02	0.24	3.0	8.0	6.8 - 9.3	32	21.02	0.84	4.0	21.2	17.8 - 24.2
All Abbott Cell-Dyn Instruments	30	8.03	0.25	3.1	8.1	6.8 - 9.3	30	20.95	0.81	3.9	21.2	17.8 - 24.1
Abbott Cell-Dyn 3200	12	8.08	0.22	2.7	8.1	6.8 - 9.3	12	20.97	0.90	4.3	21.1	17.8 - 24.2
Abbott Cell-Dyn Ruby	13	8.08	0.25	3.1	8.1	6.8 - 9.3	13	21.14	0.68	3.2	21.2	17.9 - 24.4
Specimen CL-10												
All Method	30	3.32	0.16	4.8	3.3	2.8 - 3.9						
All Abbott Cell-Dyn Instruments	28	3.33	0.16	4.9	3.3	2.8 - 3.9						
Abbott Cell-Dyn 3200	12	3.15	0.51	16.0	3.3	2.6 - 3.7						
Abbott Cell-Dyn Ruby	13	3.37	0.17	4.9	3.4	2.8 - 3.9						

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

Specimen CL-6							Specimen CL-7					
<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	6.852	0.164	2.4	6.83	6.44 - 7.27	31	2.226	0.046	2.1	2.23	2.09 - 2.36
All Abbott Cell-Dyn Instruments	29	6.861	0.166	2.4	6.84	6.44 - 7.28	29	2.228	0.047	2.1	2.23	2.09 - 2.37
Abbott Cell-Dyn 3200	12	6.834	0.188	2.7	6.85	6.42 - 7.25	12	2.223	0.037	1.6	2.24	2.08 - 2.36
Abbott Cell-Dyn Ruby	12	6.912	0.122	1.8	6.89	6.49 - 7.33	13	2.207	0.074	3.3	2.22	2.07 - 2.34
Specimen CL-8							Specimen CL-9					
All Method	32	4.678	0.088	1.9	4.69	4.39 - 4.96	32	5.186	0.083	1.6	5.19	4.87 - 5.50
All Abbott Cell-Dyn Instruments	30	4.678	0.091	2.0	4.69	4.39 - 4.96	30	5.187	0.085	1.6	5.19	4.87 - 5.50
Abbott Cell-Dyn 3200	12	4.658	0.086	1.9	4.67	4.37 - 4.94	12	5.167	0.068	1.3	5.16	4.85 - 5.48
Abbott Cell-Dyn Ruby	13	4.709	0.093	2.0	4.71	4.42 - 5.00	13	5.227	0.082	1.6	5.25	4.91 - 5.55
Specimen CL-10												
All Method	32	2.224	0.053	2.4	2.23	2.09 - 2.36						
All Abbott Cell-Dyn Instruments	30	2.223	0.054	2.4	2.23	2.08 - 2.36						
Abbott Cell-Dyn 3200	12	2.218	0.057	2.6	2.23	2.08 - 2.36						
Abbott Cell-Dyn Ruby	13	2.223	0.063	2.8	2.24	2.08 - 2.36						

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

Specimen CL-6							Specimen CL-7						
<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	21.79	0.56	2.6	21.8	20.2 - 23.4	32	5.61	0.12	2.2	5.6	5.2 - 6.1	
All Abbott Cell-Dyn Instruments	29	21.82	0.56	2.6	21.8	20.2 - 23.4	30	5.62	0.12	2.2	5.6	5.2 - 6.1	
Abbott Cell-Dyn 3200	12	21.73	0.47	2.2	21.7	20.2 - 23.3	12	5.63	0.14	2.4	5.7	5.2 - 6.1	
Abbott Cell-Dyn Ruby	12	22.10	0.50	2.3	22.2	20.5 - 23.7	13	5.60	0.13	2.3	5.6	5.2 - 6.0	
Specimen CL-8							Specimen CL-9						
All Method	32	13.43	0.29	2.1	13.4	12.4 - 14.4	32	16.61	0.39	2.3	16.7	15.4 - 17.8	
All Abbott Cell-Dyn Instruments	30	13.43	0.29	2.2	13.4	12.4 - 14.4	30	16.61	0.40	2.4	16.7	15.4 - 17.8	
Abbott Cell-Dyn 3200	12	13.32	0.34	2.6	13.3	12.3 - 14.3	12	16.48	0.42	2.5	16.4	15.3 - 17.7	
Abbott Cell-Dyn Ruby	13	13.55	0.24	1.7	13.5	12.6 - 14.6	13	16.82	0.29	1.7	16.8	15.6 - 18.1	
Specimen CL-10													
All Method	32	5.58	0.12	2.1	5.6	5.1 - 6.0							
All Abbott Cell-Dyn Instruments	30	5.59	0.12	2.2	5.6	5.1 - 6.0							
Abbott Cell-Dyn 3200	12	5.60	0.15	2.6	5.6	5.2 - 6.0							
Abbott Cell-Dyn Ruby	13	5.57	0.11	2.0	5.6	5.1 - 6.0							

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

Specimen CL-6							Specimen CL-7						
<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	59.79	3.97	6.6	58.1	56.2 - 63.4	32	15.80	1.16	7.3	15.4	14.8 - 16.8	
All Abbott Cell-Dyn Instruments	24	57.84	1.30	2.2	58.0	54.3 - 61.4	25	15.25	0.47	3.1	15.2	14.3 - 16.2	
Abbott Cell-Dyn 3200	12	57.69	1.26	2.2	58.0	54.2 - 61.2	12	15.33	0.31	2.0	15.4	14.4 - 16.3	
Abbott Cell-Dyn Ruby	12	57.98	1.38	2.4	58.0	54.5 - 61.5	13	15.18	0.59	3.9	15.1	14.2 - 16.1	
Specimen CL-8							Specimen CL-9						
All Method	32	38.10	2.28	6.0	37.3	35.8 - 40.4	32	45.36	2.94	6.5	44.4	42.6 - 48.1	
All Abbott Cell-Dyn Instruments	25	37.02	0.93	2.5	37.0	34.7 - 39.3	25	43.92	1.01	2.3	44.0	41.2 - 46.6	
Abbott Cell-Dyn 3200	12	36.92	0.92	2.5	37.0	34.7 - 39.2	12	43.70	1.06	2.4	43.9	41.0 - 46.4	
Abbott Cell-Dyn Ruby	13	37.11	0.97	2.6	37.3	34.8 - 39.4	13	44.12	0.95	2.2	44.2	41.4 - 46.8	
Specimen CL-10													
All Method	32	15.83	1.10	7.0	15.5	14.8 - 16.8							
All Abbott Cell-Dyn Instruments	25	15.30	0.48	3.1	15.2	14.3 - 16.3							
Abbott Cell-Dyn 3200	12	15.33	0.44	2.8	15.3	14.4 - 16.3							
Abbott Cell-Dyn Ruby	13	15.27	0.53	3.5	15.2	14.3 - 16.2							

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

Specimen CL-6							Specimen CL-7					
<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	29	551.1	28.8	5.2	547	413 - 689	32	77.0	7.3	9.5	75	57 - 97
All Abbott Cell-Dyn Instruments	29	551.1	28.8	5.2	547	413 - 689	30	76.5	7.2	9.4	75	57 - 96
Abbott Cell-Dyn 3200	12	545.9	27.2	5.0	545	409 - 683	12	73.8	5.1	6.9	73	55 - 93
Abbott Cell-Dyn Ruby	12	562.3	28.5	5.1	562	421 - 703	13	74.5	4.2	5.6	74	55 - 94
Specimen CL-8							Specimen CL-9					
All Method	31	263.5	16.4	6.2	264	197 - 330	32	519.2	31.9	6.1	524	389 - 649
All Abbott Cell-Dyn Instruments	29	265.5	14.9	5.6	267	199 - 332	30	523.5	27.6	5.3	528	392 - 655
Abbott Cell-Dyn 3200	12	262.3	17.7	6.8	261	196 - 328	12	518.8	33.6	6.5	520	389 - 649
Abbott Cell-Dyn Ruby	13	265.8	13.4	5.0	268	199 - 333	13	527.8	25.3	4.8	529	395 - 660
Specimen CL-10												
All Method	32	77.4	9.2	11.9	77	58 - 97						
All Abbott Cell-Dyn Instruments	30	77.0	8.8	11.5	77	57 - 97						
Abbott Cell-Dyn 3200	12	73.6	5.2	7.1	74	55 - 92						
Abbott Cell-Dyn Ruby	13	74.2	5.7	7.7	74	55 - 93						

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

Specimen CL-6							Specimen CL-7						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	30	76.20	0.89	1.2	76.0	73.5 - 78.9	31	51.84	2.22	4.3	51.8	45.1 - 58.5	
All Abbott Cell-Dyn Instruments	28	76.09	0.81	1.1	75.9	73.6 - 78.6	29	51.63	2.12	4.1	51.4	45.2 - 58.0	
Abbott Cell-Dyn 3200	11	75.93	0.81	1.1	75.8	73.4 - 78.4	11	50.38	1.31	2.6	50.5	46.4 - 54.4	
Abbott Cell-Dyn Ruby	12	76.13	0.73	1.0	76.2	73.9 - 78.4	13	52.60	2.00	3.8	52.7	46.6 - 58.6	
Specimen CL-8							Specimen CL-9						
All Method	31	68.98	0.65	0.9	69.0	67.0 - 71.0	31	76.12	0.78	1.0	76.1	73.7 - 78.5	
All Abbott Cell-Dyn Instruments	29	68.90	0.57	0.8	69.0	67.1 - 70.7	29	76.08	0.79	1.0	76.0	73.7 - 78.5	
Abbott Cell-Dyn 3200	11	68.94	0.67	1.0	68.8	66.9 - 71.0	11	75.83	0.58	0.8	75.7	74.0 - 77.6	
Abbott Cell-Dyn Ruby	13	68.88	0.61	0.9	68.9	67.0 - 70.8	13	76.12	0.70	0.9	76.1	74.0 - 78.3	
Specimen CL-10													
All Method	30	50.58	1.47	2.9	50.3	46.1 - 55.0							
All Abbott Cell-Dyn Instruments	28	50.48	1.32	2.6	50.3	46.5 - 54.5							
Abbott Cell-Dyn 3200	10	49.48	0.68	1.4	49.6	47.4 - 51.6							
Abbott Cell-Dyn Ruby	13	51.22	1.22	2.4	51.1	47.5 - 54.9							

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

Specimen CL-6							Specimen CL-7						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	30	16.21	0.90	5.5	16.2	13.5 - 19.0	31	39.64	2.51	6.3	40.2	32.1 - 47.2	
All Abbott Cell-Dyn Instruments	27	16.39	0.72	4.4	16.3	14.2 - 18.6	29	39.94	2.28	5.7	40.3	33.0 - 46.8	
Abbott Cell-Dyn 3200	11	16.47	0.78	4.7	16.5	14.1 - 18.9	11	41.51	1.33	3.2	41.7	37.5 - 45.5	
Abbott Cell-Dyn Ruby	12	16.22	1.05	6.5	16.3	13.0 - 19.4	13	38.56	2.11	5.5	38.6	32.2 - 44.9	
Specimen CL-8							Specimen CL-9						
All Method	31	23.29	0.92	4.0	23.2	20.5 - 26.1	31	16.44	0.95	5.8	16.2	13.5 - 19.3	
All Abbott Cell-Dyn Instruments	29	23.36	0.91	3.9	23.3	20.6 - 26.2	29	16.44	0.97	5.9	16.2	13.5 - 19.4	
Abbott Cell-Dyn 3200	11	23.39	1.08	4.6	23.2	20.1 - 26.7	11	16.85	0.83	4.9	16.7	14.3 - 19.4	
Abbott Cell-Dyn Ruby	13	23.02	0.75	3.3	23.0	20.7 - 25.3	13	16.08	0.99	6.2	15.9	13.0 - 19.1	
Specimen CL-10													
All Method	30	40.47	1.92	4.7	40.5	34.7 - 46.3							
All Abbott Cell-Dyn Instruments	27	40.92	1.32	3.2	40.7	36.9 - 44.9							
Abbott Cell-Dyn 3200	11	38.87	9.26	23.8	41.8	11.0 - 66.7							
Abbott Cell-Dyn Ruby	13	39.96	1.75	4.4	40.3	34.7 - 45.3							

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

Specimen CL-6							Specimen CL-7						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	30	3.43	0.39	11.5	3.5	2.2 - 4.7	30	5.08	0.65	12.7	5.1	3.1 - 7.1	
All Abbott Cell-Dyn Instruments	28	3.39	0.35	10.4	3.5	2.3 - 4.5	28	5.01	0.61	12.2	5.1	3.1 - 6.9	
Abbott Cell-Dyn 3200	11	3.37	0.43	12.9	3.5	2.0 - 4.7	10	5.00	0.69	13.9	5.1	2.9 - 7.1	
Abbott Cell-Dyn Ruby	12	3.39	0.26	7.8	3.5	2.5 - 4.2	13	5.10	0.59	11.6	5.1	3.3 - 6.9	
Specimen CL-8							Specimen CL-9						
All Method	31	4.74	0.67	14.2	4.8	2.7 - 6.8	31	3.40	0.31	9.1	3.5	2.4 - 4.4	
All Abbott Cell-Dyn Instruments	29	4.71	0.68	14.5	4.7	2.6 - 6.8	29	3.37	0.29	8.5	3.4	2.5 - 4.3	
Abbott Cell-Dyn 3200	11	4.76	0.90	19.0	4.8	2.0 - 7.5	11	3.33	0.36	10.8	3.5	2.2 - 4.5	
Abbott Cell-Dyn Ruby	13	4.88	0.48	9.9	4.8	3.4 - 6.4	13	3.46	0.21	6.2	3.5	2.8 - 4.2	
Specimen CL-10													
All Method	30	5.50	0.92	16.7	5.5	2.7 - 8.3							
All Abbott Cell-Dyn Instruments	28	5.38	0.80	14.8	5.5	2.9 - 7.8							
Abbott Cell-Dyn 3200	10	5.47	0.82	15.0	5.6	3.0 - 8.0							
Abbott Cell-Dyn Ruby	13	5.27	0.73	13.8	5.5	3.0 - 7.5							

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

Specimen CL-6							Specimen CL-7					
<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	28	3.71	0.26	6.9	3.7	2.9 - 4.5	29	2.87	0.26	9.0	2.9	2.0 - 3.7
All Abbott Cell-Dyn Instruments	28	3.71	0.26	6.9	3.7	2.9 - 4.5	29	2.87	0.26	9.0	2.9	2.0 - 3.7
Abbott Cell-Dyn 3200	11	3.67	0.18	5.0	3.6	3.1 - 4.3	11	2.91	0.21	7.1	2.9	2.2 - 3.6
Abbott Cell-Dyn Ruby	12	3.61	0.27	7.5	3.6	2.7 - 4.5	13	2.74	0.26	9.4	2.7	1.9 - 3.6
Specimen CL-8							Specimen CL-9					
All Method	29	2.56	0.23	9.1	2.5	1.8 - 3.3	31	3.55	0.30	8.5	3.5	2.6 - 4.5
All Abbott Cell-Dyn Instruments	29	2.56	0.23	9.1	2.5	1.8 - 3.3	29	3.60	0.23	6.5	3.5	2.8 - 4.3
Abbott Cell-Dyn 3200	11	2.46	0.14	5.5	2.5	2.0 - 2.9	11	3.55	0.23	6.3	3.5	2.8 - 4.3
Abbott Cell-Dyn Ruby	13	2.58	0.20	7.9	2.6	1.9 - 3.2	13	3.65	0.23	6.4	3.7	2.9 - 4.4
Specimen CL-10												
All Method	29	2.72	0.29	10.7	2.7	1.8 - 3.6						
All Abbott Cell-Dyn Instruments	29	2.72	0.29	10.7	2.7	1.8 - 3.6						
Abbott Cell-Dyn 3200	11	2.60	0.26	10.2	2.6	1.8 - 3.4						
Abbott Cell-Dyn Ruby	13	2.75	0.25	9.1	2.7	2.0 - 3.6						

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

Specimen CL-6							Specimen CL-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	0.51	0.18	35.4	0.5	0.0 - 1.1	29	0.67	0.29	43.3	0.7	0.0 - 1.6
All Abbott Cell-Dyn Instruments	28	0.52	0.18	34.1	0.5	0.0 - 1.1	29	0.67	0.29	43.3	0.7	0.0 - 1.6
Abbott Cell-Dyn 3200	11	0.58	0.17	28.6	0.6	0.0 - 1.1	11	0.66	0.28	42.2	0.6	0.0 - 1.6
Abbott Cell-Dyn Ruby	12	0.45	0.13	29.2	0.5	0.0 - 0.9	13	0.72	0.26	35.8	0.8	0.0 - 1.5
Specimen CL-8							Specimen CL-9					
All Method	30	0.45	0.19	42.7	0.4	0.0 - 1.1	31	0.44	0.14	32.1	0.5	0.0 - 0.9
All Abbott Cell-Dyn Instruments	29	0.43	0.17	40.2	0.4	0.0 - 1.0	29	0.44	0.14	31.0	0.5	0.0 - 0.9
Abbott Cell-Dyn 3200	11	0.45	0.20	44.4	0.4	0.0 - 1.1	11	0.45	0.16	36.0	0.5	0.0 - 1.0
Abbott Cell-Dyn Ruby	13	0.47	0.14	30.6	0.4	0.0 - 1.0	13	0.48	0.08	16.5	0.5	0.2 - 0.8
Specimen CL-10												
All Method	29	0.61	0.34	55.6	0.6	0.0 - 1.7						
All Abbott Cell-Dyn Instruments	29	0.61	0.34	55.6	0.6	0.0 - 1.7						
Abbott Cell-Dyn 3200	11	0.76	0.37	48.0	0.8	0.0 - 1.9						
Abbott Cell-Dyn Ruby	13	0.51	0.24	47.9	0.5	0.0 - 1.3						

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

Specimen SYX-6							Specimen SYX-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	23.49	0.53	2.3	23.4	19.9 - 27.1	56	2.88	0.10	3.4	2.9	2.4 - 3.4
All Sysmex Instruments	56	23.49	0.53	2.3	23.4	19.9 - 27.1	56	2.88	0.10	3.4	2.9	2.4 - 3.4
Sysmex K - 800,1000,4500,KX-21	35	23.37	0.41	1.8	23.3	19.8 - 26.9	35	2.85	0.07	2.6	2.8	2.4 - 3.3
Sysmex pocH-100i	21	23.69	0.65	2.7	23.7	20.1 - 27.3	21	2.95	0.10	3.3	3.0	2.5 - 3.4
Specimen SYX-8							Specimen SYX-9					
All Method	57	8.36	0.19	2.2	8.3	7.1 - 9.7	57	20.76	0.45	2.2	20.7	17.6 - 23.9
All Sysmex Instruments	57	8.36	0.19	2.2	8.3	7.1 - 9.7	57	20.76	0.45	2.2	20.7	17.6 - 23.9
Sysmex K - 800,1000,4500,KX-21	36	8.30	0.17	2.1	8.3	7.0 - 9.6	34	20.63	0.32	1.6	20.7	17.5 - 23.8
Sysmex pocH-100i	21	8.47	0.17	2.0	8.5	7.1 - 9.8	21	20.86	0.47	2.2	20.8	17.7 - 24.0
Specimen SYX-10												
All Method	56	2.83	0.10	3.5	2.8	2.4 - 3.3						
All Sysmex Instruments	56	2.83	0.10	3.5	2.8	2.4 - 3.3						
Sysmex K - 800,1000,4500,KX-21	34	2.79	0.08	2.8	2.8	2.3 - 3.3						
Sysmex pocH-100i	21	2.88	0.09	3.2	2.9	2.4 - 3.4						

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

Specimen SYX-6							Specimen SYX-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	56	6.560	0.075	1.1	6.55	6.16 - 6.96	57	2.532	0.035	1.4	2.53	2.38 - 2.69
All Sysmex Instruments	56	6.560	0.075	1.1	6.55	6.16 - 6.96	57	2.532	0.035	1.4	2.53	2.38 - 2.69
Sysmex K - 800,1000,4500,KX-21	36	6.538	0.054	0.8	6.53	6.14 - 6.94	35	2.528	0.025	1.0	2.52	2.37 - 2.68
Sysmex pocH-100i	21	6.580	0.122	1.9	6.58	6.18 - 6.98	21	2.535	0.043	1.7	2.54	2.38 - 2.69
Specimen SYX-8							Specimen SYX-9					
All Method	56	4.123	0.054	1.3	4.12	3.87 - 4.38	57	5.754	0.079	1.4	5.74	5.40 - 6.10
All Sysmex Instruments	56	4.123	0.054	1.3	4.12	3.87 - 4.38	57	5.754	0.079	1.4	5.74	5.40 - 6.10
Sysmex K - 800,1000,4500,KX-21	36	4.107	0.045	1.1	4.12	3.86 - 4.36	36	5.733	0.051	0.9	5.74	5.38 - 6.08
Sysmex pocH-100i	21	4.160	0.065	1.6	4.15	3.91 - 4.41	21	5.790	0.103	1.8	5.79	5.44 - 6.14
Specimen SYX-10												
All Method	57	2.525	0.038	1.5	2.52	2.37 - 2.68						
All Sysmex Instruments	57	2.525	0.038	1.5	2.52	2.37 - 2.68						
Sysmex K - 800,1000,4500,KX-21	36	2.520	0.034	1.4	2.52	2.36 - 2.68						
Sysmex pocH-100i	21	2.534	0.044	1.7	2.53	2.38 - 2.69						

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

Specimen SYX-6							Specimen SYX-7					
<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	54	20.85	0.27	1.3	20.9	19.3 - 22.4	57	6.39	0.11	1.7	6.4	5.9 - 6.9
All Sysmex Instruments	54	20.85	0.27	1.3	20.9	19.3 - 22.4	57	6.39	0.11	1.7	6.4	5.9 - 6.9
Sysmex K - 800,1000,4500,KX-21	35	20.93	0.17	0.8	21.0	19.4 - 22.4	36	6.44	0.08	1.3	6.5	5.9 - 6.9
Sysmex pocH-100i	21	20.62	0.43	2.1	20.7	19.1 - 22.1	21	6.31	0.10	1.6	6.3	5.8 - 6.8
Specimen SYX-8							Specimen SYX-9					
All Method	55	12.17	0.16	1.3	12.2	11.3 - 13.1	55	18.20	0.21	1.1	18.2	16.9 - 19.5
All Sysmex Instruments	55	12.17	0.16	1.3	12.2	11.3 - 13.1	55	18.20	0.21	1.1	18.2	16.9 - 19.5
Sysmex K - 800,1000,4500,KX-21	36	12.25	0.10	0.8	12.3	11.3 - 13.2	36	18.30	0.14	0.7	18.3	17.0 - 19.6
Sysmex pocH-100i	21	11.97	0.24	2.0	12.0	11.1 - 12.9	21	17.95	0.28	1.6	18.0	16.6 - 19.3
Specimen SYX-10												
All Method	57	6.37	0.11	1.7	6.4	5.9 - 6.9						
All Sysmex Instruments	57	6.37	0.11	1.7	6.4	5.9 - 6.9						
Sysmex K - 800,1000,4500,KX-21	36	6.43	0.08	1.3	6.4	5.9 - 6.9						
Sysmex pocH-100i	21	6.28	0.09	1.5	6.3	5.8 - 6.8						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–HEMATOCRIT (percent)

Specimen SYX-6							Specimen SYX-7						
<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	57	55.79	1.14	2.0	55.7	52.4 - 59.2	57	17.26	0.53	3.1	17.0	16.2 - 18.3	
All Sysmex Instruments	57	55.79	1.14	2.0	55.7	52.4 - 59.2	57	17.26	0.53	3.1	17.0	16.2 - 18.3	
Sysmex K - 800,1000,4500,KX-21	36	55.34	0.74	1.3	55.3	52.0 - 58.7	35	16.91	0.19	1.1	16.9	15.8 - 18.0	
Sysmex pocH-100i	21	56.57	1.30	2.3	56.4	53.1 - 60.0	21	17.82	0.40	2.2	17.8	16.7 - 18.9	
Specimen SYX-8							Specimen SYX-9						
All Method	56	32.41	1.00	3.1	32.2	30.4 - 34.4	57	48.96	1.15	2.3	48.7	46.0 - 51.9	
All Sysmex Instruments	56	32.41	1.00	3.1	32.2	30.4 - 34.4	57	48.96	1.15	2.3	48.7	46.0 - 51.9	
Sysmex K - 800,1000,4500,KX-21	35	31.79	0.38	1.2	31.8	29.8 - 33.7	36	48.42	0.73	1.5	48.4	45.5 - 51.4	
Sysmex pocH-100i	20	33.47	0.84	2.5	33.4	31.4 - 35.5	21	49.89	1.15	2.3	49.9	46.8 - 52.9	
Specimen SYX-10													
All Method	57	17.22	0.56	3.2	17.0	16.1 - 18.3							
All Sysmex Instruments	57	17.22	0.56	3.2	17.0	16.1 - 18.3							
Sysmex K - 800,1000,4500,KX-21	35	16.86	0.23	1.3	16.9	15.8 - 17.9							
Sysmex pocH-100i	21	17.79	0.45	2.5	17.8	16.7 - 18.9							

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

Specimen SYX-6							Specimen SYX-7					
<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	57	355.4	15.3	4.3	356	266 - 445	57	60.9	4.0	6.6	61	45 - 77
All Sysmex Instruments	57	355.4	15.3	4.3	356	266 - 445	57	60.9	4.0	6.6	61	45 - 77
Sysmex K - 800,1000,4500,KX-21	36	361.0	14.1	3.9	360	270 - 452	36	61.1	4.3	7.0	61	45 - 77
Sysmex pocH-100i	21	345.8	12.2	3.5	348	259 - 433	21	60.5	3.6	6.0	60	45 - 76
Specimen SYX-8							Specimen SYX-9					
All Method	57	194.7	8.5	4.3	193	146 - 244	57	387.5	17.4	4.5	386	290 - 485
All Sysmex Instruments	57	194.7	8.5	4.3	193	146 - 244	57	387.5	17.4	4.5	386	290 - 485
Sysmex K - 800,1000,4500,KX-21	36	196.4	8.1	4.1	195	147 - 246	36	395.6	13.9	3.5	398	296 - 495
Sysmex pocH-100i	21	191.9	8.5	4.4	190	143 - 240	21	373.6	13.7	3.7	371	280 - 468
Specimen SYX-10												
All Method	56	59.9	3.8	6.3	59	44 - 75						
All Sysmex Instruments	56	59.9	3.8	6.3	59	44 - 75						
Sysmex K - 800,1000,4500,KX-21	36	59.9	4.0	6.7	59	44 - 75						
Sysmex pocH-100i	20	59.9	3.3	5.5	59	44 - 75						

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

Specimen SYX-6							Specimen SYX-7						
<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	62.31	0.45	0.7	62.3	60.9 - 63.7	55	13.63	0.95	7.0	13.5	10.7 - 16.5	
All Sysmex Instruments	53	62.31	0.45	0.7	62.3	60.9 - 63.7	55	13.63	0.95	7.0	13.5	10.7 - 16.5	
Sysmex K - 800,1000,4500,KX-21	34	62.21	0.45	0.7	62.3	60.8 - 63.6	35	13.93	0.95	6.8	13.8	11.0 - 16.8	
Sysmex pocH-100i	20	62.55	0.52	0.8	62.6	60.9 - 64.2	20	13.13	0.72	5.5	13.3	10.9 - 15.3	
Specimen SYX-8							Specimen SYX-9						
All Method	55	32.50	0.65	2.0	32.5	30.5 - 34.5	54	62.40	0.56	0.9	62.5	60.7 - 64.1	
All Sysmex Instruments	55	32.50	0.65	2.0	32.5	30.5 - 34.5	54	62.40	0.56	0.9	62.5	60.7 - 64.1	
Sysmex K - 800,1000,4500,KX-21	35	32.65	0.60	1.8	32.7	30.8 - 34.5	34	62.24	0.61	1.0	62.3	60.4 - 64.1	
Sysmex pocH-100i	20	32.23	0.66	2.0	32.4	30.2 - 34.2	20	62.67	0.35	0.6	62.7	61.6 - 63.8	
Specimen SYX-10													
All Method	55	13.51	1.14	8.4	13.4	10.1 - 17.0							
All Sysmex Instruments	55	13.51	1.14	8.4	13.4	10.1 - 17.0							
Sysmex K - 800,1000,4500,KX-21	35	13.79	1.08	7.9	13.8	10.5 - 17.1							
Sysmex pocH-100i	20	13.02	1.08	8.3	13.1	9.7 - 16.3							

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

<u>Instrument</u>	Specimen SYX-6						Specimen SYX-7					
	<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	54	12.94	0.96	7.4	13.0	10.0 - 15.9	53	15.33	1.45	9.5	15.3	10.9 - 19.7
All Sysmex Instruments	54	12.94	0.96	7.4	13.0	10.0 - 15.9	53	15.33	1.45	9.5	15.3	10.9 - 19.7
Sysmex K - 800,1000,4500,KX-21	34	13.49	0.72	5.4	13.5	11.3 - 15.7	34	16.08	1.07	6.7	16.1	12.8 - 19.3
Sysmex pocH-100i	20	12.03	0.48	4.0	12.2	10.5 - 13.5	19	14.00	1.04	7.4	13.9	10.8 - 17.2
	Specimen SYX-8						Specimen SYX-9					
	<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	54	14.62	1.26	8.6	15.0	10.8 - 18.5	53	12.94	0.96	7.4	13.0	10.0 - 15.9
All Sysmex Instruments	54	14.62	1.26	8.6	15.0	10.8 - 18.5	53	12.94	0.96	7.4	13.0	10.0 - 15.9
Sysmex K - 800,1000,4500,KX-21	34	15.33	0.70	4.6	15.4	13.2 - 17.5	34	13.44	0.70	5.2	13.3	11.3 - 15.6
Sysmex pocH-100i	20	13.42	1.08	8.1	13.5	10.1 - 16.7	19	12.06	0.71	5.9	12.2	9.9 - 14.3
	Specimen SYX-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	54	15.46	1.64	10.6	15.6	10.5 - 20.4						
All Sysmex Instruments	54	15.46	1.64	10.6	15.6	10.5 - 20.4						
Sysmex K - 800,1000,4500,KX-21	34	16.21	1.41	8.7	16.3	11.9 - 20.5						
Sysmex pocH-100i	20	14.20	1.18	8.3	13.8	10.6 - 17.8						

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

<u>Instrument</u>	Specimen SYX-6						Specimen SYX-7					
	<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	54	24.76	0.84	3.4	24.7	22.2 - 27.3	54	71.03	1.98	2.8	70.9	65.0 - 77.0
All Sysmex Instruments	54	24.76	0.84	3.4	24.7	22.2 - 27.3	54	71.03	1.98	2.8	70.9	65.0 - 77.0
Sysmex K - 800,1000,4500,KX-21	34	24.38	0.72	3.0	24.5	22.2 - 26.6	33	70.15	1.28	1.8	70.3	66.3 - 74.0
Sysmex pocH-100i	20	25.42	0.59	2.3	25.4	23.6 - 27.2	20	72.76	1.43	2.0	73.0	68.4 - 77.1
	Specimen SYX-8						Specimen SYX-9					
	<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	52.87	1.62	3.1	52.5	48.0 - 57.8	53	24.73	0.85	3.4	24.8	22.1 - 27.3
All Sysmex Instruments	53	52.87	1.62	3.1	52.5	48.0 - 57.8	53	24.73	0.85	3.4	24.8	22.1 - 27.3
Sysmex K - 800,1000,4500,KX-21	33	51.98	0.94	1.8	52.1	49.1 - 54.8	34	24.41	0.80	3.3	24.5	22.0 - 26.9
Sysmex pocH-100i	20	54.35	1.44	2.6	54.5	50.0 - 58.7	19	25.29	0.62	2.4	25.0	23.4 - 27.2
	Specimen SYX-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	54	71.04	1.95	2.7	71.0	65.1 - 76.9						
All Sysmex Instruments	54	71.04	1.95	2.7	71.0	65.1 - 76.9						
Sysmex K - 800,1000,4500,KX-21	34	70.01	1.46	2.1	70.1	65.6 - 74.4						
Sysmex pocH-100i	20	72.78	1.35	1.9	73.2	68.7 - 76.9						

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

Specimen HD-6							Specimen HD-7					
<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	799	3.27	0.16	4.8	3.3	2.7 - 3.8	800	3.44	0.16	4.7	3.4	2.9 - 4.0
All Abbott Cell-Dyn Instruments	307	3.31	0.17	5.1	3.3	2.8 - 3.9	305	3.46	0.16	4.6	3.5	2.9 - 4.0
All ABX Instruments	117	3.21	0.09	2.8	3.2	2.7 - 3.7	120	3.36	0.11	3.2	3.4	2.8 - 3.9
All COULTER Instruments	279	3.32	0.12	3.5	3.3	2.8 - 3.9	274	3.49	0.12	3.4	3.5	2.9 - 4.1
All Danam/Drew Scientific Instruments	15	3.32	0.14	4.3	3.3	2.8 - 3.9	15	3.47	0.13	3.8	3.4	2.9 - 4.0
Abbott Cell-Dyn 1700	33	3.31	0.23	6.8	3.3	2.8 - 3.9	36	3.45	0.21	6.2	3.5	2.9 - 4.0
Abbott Cell-Dyn 1800	151	3.29	0.14	4.3	3.3	2.7 - 3.8	154	3.45	0.15	4.2	3.4	2.9 - 4.0
Abbott Cell-Dyn Emerald	114	3.31	0.14	4.1	3.3	2.8 - 3.9	115	3.49	0.17	5.0	3.5	2.9 - 4.1
ABX Diagnostics Micros/45/60	117	3.21	0.09	2.8	3.2	2.7 - 3.7	120	3.36	0.11	3.2	3.4	2.8 - 3.9
Boule Medonic CA 620	13	3.39	0.15	4.4	3.4	2.8 - 4.0	13	3.46	0.09	2.5	3.5	2.9 - 4.0
Boule Medonic M series	65	3.03	0.14	4.6	3.0	2.5 - 3.5	65	3.17	0.13	4.1	3.2	2.6 - 3.7
COULTER AcT 8/10	14	3.36	0.09	2.8	3.4	2.8 - 3.9	13	3.52	0.13	3.6	3.5	2.9 - 4.1
COULTER AcT diff/diff 2	262	3.32	0.12	3.5	3.3	2.8 - 3.9	258	3.49	0.12	3.4	3.5	2.9 - 4.1
Drew Scientific D3	15	3.32	0.14	4.3	3.3	2.8 - 3.9	15	3.47	0.13	3.8	3.4	2.9 - 4.0

Specimen HD-8							Specimen HD-9					
All Method	798	15.67	0.66	4.2	15.7	13.3 - 18.1	788	7.10	0.36	5.1	7.1	6.0 - 8.2
All Abbott Cell-Dyn Instruments	307	15.65	0.71	4.5	15.6	13.2 - 18.0	310	7.17	0.34	4.8	7.2	6.0 - 8.3
All ABX Instruments	119	15.66	0.37	2.3	15.7	13.3 - 18.1	115	6.95	0.22	3.2	7.0	5.9 - 8.0
All COULTER Instruments	279	15.90	0.41	2.6	15.9	13.5 - 18.3	266	7.21	0.33	4.5	7.1	6.1 - 8.3
All Danam/Drew Scientific Instruments	14	15.38	0.25	1.6	15.4	13.0 - 17.7	15	7.04	0.31	4.4	7.1	5.9 - 8.1
Abbott Cell-Dyn 1700	34	15.98	0.87	5.4	16.1	13.5 - 18.4	36	7.06	0.38	5.4	7.1	6.0 - 8.2
Abbott Cell-Dyn 1800	152	15.94	0.59	3.7	16.0	13.5 - 18.4	153	7.31	0.28	3.9	7.3	6.2 - 8.5
Abbott Cell-Dyn Emerald	116	15.15	0.45	3.0	15.2	12.8 - 17.5	116	6.98	0.30	4.2	7.0	5.9 - 8.1
ABX Diagnostics Micros/45/60	119	15.66	0.37	2.3	15.7	13.3 - 18.1	115	6.95	0.22	3.2	7.0	5.9 - 8.0
Boule Medonic CA 620	13	16.51	0.46	2.8	16.5	14.0 - 19.0	12	7.09	0.24	3.4	7.1	6.0 - 8.2
Boule Medonic M series	65	14.40	0.63	4.4	14.4	12.2 - 16.6	65	6.57	0.26	3.9	6.5	5.5 - 7.6
COULTER AcT 8/10	14	16.14	0.38	2.3	16.2	13.7 - 18.6	13	7.29	0.33	4.5	7.3	6.1 - 8.4
COULTER AcT diff/diff 2	263	15.89	0.41	2.6	15.9	13.5 - 18.3	249	7.21	0.32	4.5	7.1	6.1 - 8.3
Drew Scientific D3	14	15.38	0.25	1.6	15.4	13.0 - 17.7	15	7.04	0.31	4.4	7.1	5.9 - 8.1

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

Specimen HD-10

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	799	15.18	0.60	3.9	15.2	12.9 - 17.5
All Abbott Cell-Dyn Instruments	309	15.13	0.61	4.0	15.1	12.8 - 17.5
All ABX Instruments	117	15.12	0.32	2.1	15.1	12.8 - 17.4
All COULTER Instruments	279	15.41	0.42	2.7	15.4	13.1 - 17.8
All Danam/Drew Scientific Instruments	15	15.06	0.52	3.5	14.9	12.8 - 17.4
Abbott Cell-Dyn 1700	35	15.28	0.93	6.1	15.4	12.9 - 17.6
Abbott Cell-Dyn 1800	153	15.35	0.52	3.4	15.3	13.0 - 17.7
Abbott Cell-Dyn Emerald	117	14.74	0.45	3.1	14.8	12.5 - 17.0
ABX Diagnostics Micros/45/60	117	15.12	0.32	2.1	15.1	12.8 - 17.4
Boule Medonic CA 620	13	15.93	0.37	2.3	15.9	13.5 - 18.4
Boule Medonic M series	65	14.09	0.61	4.3	14.3	11.9 - 16.3
COULTER AcT 8/10	14	15.72	0.44	2.8	15.8	13.3 - 18.1
COULTER AcT diff/diff 2	263	15.40	0.41	2.7	15.4	13.0 - 17.8
Drew Scientific D3	15	15.06	0.52	3.5	14.9	12.8 - 17.4

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

Specimen HD-6

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	807	4.740	0.130	2.7	4.74	4.45 - 5.03
All Abbott Cell-Dyn Instruments	311	4.774	0.147	3.1	4.79	4.48 - 5.07
All ABX Instruments	119	4.698	0.091	1.9	4.71	4.41 - 4.99
All COULTER Instruments	281	4.722	0.119	2.5	4.71	4.43 - 5.01
All Danam/Drew Scientific Instruments	15	4.781	0.169	3.5	4.78	4.49 - 5.07
Abbott Cell-Dyn 1700	36	4.871	0.126	2.6	4.90	4.57 - 5.17
Abbott Cell-Dyn 1800	151	4.830	0.099	2.1	4.83	4.54 - 5.12
Abbott Cell-Dyn Emerald	117	4.678	0.149	3.2	4.66	4.39 - 4.96
ABX Diagnostics Micros/45/60	119	4.698	0.091	1.9	4.71	4.41 - 4.99
Boule Medonic CA 620	13	4.754	0.065	1.4	4.74	4.46 - 5.04
Boule Medonic M series	64	4.703	0.084	1.8	4.69	4.42 - 4.99
COULTER AcT 8/10	14	4.806	0.130	2.7	4.79	4.51 - 5.10
COULTER AcT diff/diff 2	261	4.716	0.113	2.4	4.71	4.43 - 5.00
Drew Scientific D3	15	4.781	0.169	3.5	4.78	4.49 - 5.07

Specimen HD-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
802	5.809	0.139	2.4	5.81	5.46 - 6.16
309	5.783	0.150	2.6	5.79	5.43 - 6.13
119	5.811	0.114	2.0	5.82	5.46 - 6.16
280	5.821	0.146	2.5	5.82	5.47 - 6.18
15	5.874	0.177	3.0	5.89	5.52 - 6.23
34	5.941	0.112	1.9	5.96	5.58 - 6.30
152	5.803	0.111	1.9	5.80	5.45 - 6.16
116	5.706	0.151	2.6	5.71	5.36 - 6.05
119	5.811	0.114	2.0	5.82	5.46 - 6.16
13	5.809	0.080	1.4	5.81	5.46 - 6.16
64	5.844	0.083	1.4	5.84	5.49 - 6.20
14	5.876	0.248	4.2	5.85	5.52 - 6.23
264	5.819	0.146	2.5	5.82	5.46 - 6.17
15	5.874	0.177	3.0	5.89	5.52 - 6.23

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

Specimen HD-8							Specimen HD-9					
<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	800	4.519	0.119	2.6	4.52	4.24 - 4.80	801	2.378	0.336	14.1	2.44	2.23 - 2.53
All Abbott Cell-Dyn Instruments	312	4.528	0.135	3.0	4.54	4.25 - 4.80	312	2.141	0.294	13.7	2.15	2.01 - 2.27
All ABX Instruments	116	4.466	0.091	2.0	4.46	4.19 - 4.74	115	2.356	0.276	11.7	2.41	2.21 - 2.50
All COULTER Instruments	279	4.538	0.110	2.4	4.54	4.26 - 4.81	271	2.649	0.170	6.4	2.70	2.48 - 2.81
All Danam/Drew Scientific Instruments	15	4.543	0.213	4.7	4.52	4.27 - 4.82	15	1.945	0.368	18.9	1.96	1.82 - 2.07
Abbott Cell-Dyn 1700	34	4.632	0.089	1.9	4.65	4.35 - 4.91	36	2.149	0.275	12.8	2.16	Not graded
Abbott Cell-Dyn 1800	151	4.587	0.092	2.0	4.59	4.31 - 4.87	155	2.243	0.271	12.1	2.28	Not graded
Abbott Cell-Dyn Emerald	118	4.431	0.123	2.8	4.43	4.16 - 4.70	119	1.986	0.297	15.0	2.00	Not graded
ABX Diagnostics Micros/45/60	116	4.466	0.091	2.0	4.46	4.19 - 4.74	115	2.356	0.276	11.7	2.41	Not graded
Boule Medonic CA 620	13	4.540	0.100	2.2	4.49	4.26 - 4.82	13	2.427	0.187	7.7	2.48	Not graded
Boule Medonic M series	62	4.496	0.067	1.5	4.49	4.22 - 4.77	65	2.567	0.139	5.4	2.58	Not graded
COULTER AcT 8/10	13	4.556	0.099	2.2	4.55	4.28 - 4.83	14	2.309	0.179	7.8	2.33	Not graded
COULTER AcT diff/diff 2	260	4.535	0.107	2.4	4.54	4.26 - 4.81	254	2.671	0.145	5.4	2.71	2.51 - 2.84
Drew Scientific D3	15	4.543	0.213	4.7	4.52	4.27 - 4.82	15	1.945	0.368	18.9	1.96	Not graded
Specimen HD-10												
All Method	800	5.762	0.135	2.3	5.76	5.41 - 6.11						
All Abbott Cell-Dyn Instruments	306	5.750	0.148	2.6	5.75	5.40 - 6.10						
All ABX Instruments	120	5.757	0.105	1.8	5.76	5.41 - 6.11						
All COULTER Instruments	281	5.765	0.140	2.4	5.76	5.41 - 6.12						
All Danam/Drew Scientific Instruments	15	5.847	0.214	3.7	5.82	5.49 - 6.20						
Abbott Cell-Dyn 1700	34	5.854	0.145	2.5	5.85	5.50 - 6.21						
Abbott Cell-Dyn 1800	152	5.767	0.123	2.1	5.77	5.42 - 6.12						
Abbott Cell-Dyn Emerald	115	5.691	0.161	2.8	5.69	5.34 - 6.04						
ABX Diagnostics Micros/45/60	120	5.757	0.105	1.8	5.76	5.41 - 6.11						
Boule Medonic CA 620	13	5.763	0.117	2.0	5.77	5.41 - 6.11						
Boule Medonic M series	64	5.793	0.082	1.4	5.80	5.44 - 6.15						
COULTER AcT 8/10	14	5.826	0.190	3.3	5.84	5.47 - 6.18						
COULTER AcT diff/diff 2	263	5.763	0.137	2.4	5.76	5.41 - 6.11						
Drew Scientific D3	15	5.847	0.214	3.7	5.82	5.49 - 6.20						

Specimen HD-9 is graded by referee consensus to the peer group. Statistics are shown only if the peer group is graded.

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

Specimen HD-6							Specimen HD-7						
<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	813	14.37	0.41	2.8	14.3	13.3 - 15.4	817	18.12	0.48	2.6	18.1	16.8 - 19.4	
All Abbott Cell-Dyn Instruments	314	14.68	0.33	2.2	14.7	13.6 - 15.8	310	18.50	0.38	2.1	18.5	17.2 - 19.8	
All ABX Instruments	117	14.17	0.23	1.6	14.2	13.1 - 15.2	117	17.83	0.29	1.6	17.8	16.5 - 19.1	
All COULTER Instruments	278	14.12	0.31	2.2	14.1	13.1 - 15.2	278	17.90	0.35	2.0	17.9	16.6 - 19.2	
All Danam/Drew Scientific Instruments	15	14.59	0.44	3.0	14.5	13.5 - 15.7	15	18.41	0.48	2.6	18.4	17.1 - 19.7	
Abbott Cell-Dyn 1700	36	14.50	0.36	2.5	14.5	13.4 - 15.6	35	18.12	0.42	2.3	18.1	16.8 - 19.4	
Abbott Cell-Dyn 1800	154	14.74	0.29	2.0	14.7	13.7 - 15.8	154	18.52	0.34	1.8	18.5	17.2 - 19.9	
Abbott Cell-Dyn Emerald	118	14.68	0.31	2.1	14.7	13.6 - 15.8	118	18.59	0.37	2.0	18.6	17.2 - 19.9	
ABX Diagnostics Micros/45/60	117	14.17	0.23	1.6	14.2	13.1 - 15.2	117	17.83	0.29	1.6	17.8	16.5 - 19.1	
Boule Medonic CA 620	13	14.34	0.22	1.5	14.4	13.3 - 15.4	13	17.73	0.37	2.1	17.8	16.4 - 19.0	
Boule Medonic M series	64	14.21	0.32	2.2	14.2	13.2 - 15.3	65	17.92	0.28	1.6	18.0	16.6 - 19.2	
COULTER AcT 8/10	14	14.31	0.35	2.4	14.3	13.3 - 15.4	14	17.90	0.49	2.7	17.9	16.6 - 19.2	
COULTER AcT diff/diff 2	260	14.11	0.30	2.1	14.1	13.1 - 15.1	260	17.90	0.35	1.9	17.9	16.6 - 19.2	
Drew Scientific D3	15	14.59	0.44	3.0	14.5	13.5 - 15.7	15	18.41	0.48	2.6	18.4	17.1 - 19.7	

Specimen HD-8							Specimen HD-9						
All Method	814	13.17	0.37	2.8	13.1	12.2 - 14.1	803	8.39	0.30	3.6	8.4	7.8 - 9.0	
All Abbott Cell-Dyn Instruments	311	13.48	0.25	1.9	13.5	12.5 - 14.5	310	8.59	0.22	2.5	8.6	7.9 - 9.2	
All ABX Instruments	118	12.86	0.23	1.8	12.9	11.9 - 13.8	114	8.19	0.16	1.9	8.2	7.6 - 8.8	
All COULTER Instruments	277	12.95	0.26	2.0	12.9	12.0 - 13.9	278	8.19	0.19	2.4	8.2	7.6 - 8.8	
All Danam/Drew Scientific Instruments	14	13.25	0.20	1.5	13.3	12.3 - 14.2	15	8.41	0.24	2.8	8.4	7.8 - 9.0	
Abbott Cell-Dyn 1700	34	13.32	0.25	1.9	13.3	12.3 - 14.3	36	8.58	0.29	3.4	8.6	7.9 - 9.2	
Abbott Cell-Dyn 1800	154	13.56	0.24	1.7	13.6	12.6 - 14.6	153	8.70	0.18	2.0	8.7	8.0 - 9.4	
Abbott Cell-Dyn Emerald	119	13.43	0.25	1.9	13.4	12.4 - 14.4	117	8.46	0.18	2.1	8.5	7.8 - 9.1	
ABX Diagnostics Micros/45/60	118	12.86	0.23	1.8	12.9	11.9 - 13.8	114	8.19	0.16	1.9	8.2	7.6 - 8.8	
Boule Medonic CA 620	13	12.98	0.25	1.9	13.0	12.0 - 13.9	13	8.28	0.17	2.1	8.3	7.7 - 8.9	
Boule Medonic M series	64	13.10	0.23	1.8	13.1	12.1 - 14.1	65	8.72	0.33	3.8	8.7	8.1 - 9.4	
COULTER AcT 8/10	14	13.02	0.30	2.3	13.1	12.1 - 14.0	14	8.34	0.18	2.2	8.3	7.7 - 9.0	
COULTER AcT diff/diff 2	259	12.94	0.25	2.0	12.9	12.0 - 13.9	260	8.18	0.19	2.3	8.2	7.6 - 8.8	
Drew Scientific D3	14	13.25	0.20	1.5	13.3	12.3 - 14.2	15	8.41	0.24	2.8	8.4	7.8 - 9.0	

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

Specimen HD-10						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	811	17.65	0.51	2.9	17.6	16.4 - 18.9
All Abbott Cell-Dyn Instruments	307	18.08	0.37	2.1	18.1	16.8 - 19.4
All ABX Instruments	118	17.25	0.26	1.5	17.2	16.0 - 18.5
All COULTER Instruments	279	17.38	0.36	2.1	17.4	16.1 - 18.6
All Danam/Drew Scientific Instruments	15	17.90	0.51	2.8	17.9	16.6 - 19.2
Abbott Cell-Dyn 1700	34	17.70	0.38	2.1	17.7	16.4 - 19.0
Abbott Cell-Dyn 1800	151	18.19	0.32	1.8	18.2	16.9 - 19.5
Abbott Cell-Dyn Emerald	116	18.04	0.33	1.8	18.0	16.7 - 19.4
ABX Diagnostics Micros/45/60	118	17.25	0.26	1.5	17.2	16.0 - 18.5
Boule Medonic CA 620	13	17.13	0.27	1.6	17.2	15.9 - 18.4
Boule Medonic M series	64	17.53	0.25	1.4	17.5	16.2 - 18.8
COULTER AcT 8/10	14	17.39	0.45	2.6	17.4	16.1 - 18.7
COULTER AcT diff/diff 2	261	17.37	0.35	2.0	17.4	16.1 - 18.6
Drew Scientific D3	15	17.90	0.51	2.8	17.9	16.6 - 19.2

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

Specimen HD-6							Specimen HD-7					
<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	810	45.37	1.87	4.1	45.1	42.6 - 48.1	808	58.96	2.10	3.6	58.9	55.4 - 62.5
All Abbott Cell-Dyn Instruments	309	47.01	1.37	2.9	47.0	44.1 - 49.9	309	60.48	1.71	2.8	60.4	56.8 - 64.2
All ABX Instruments	118	43.46	0.90	2.1	43.5	40.8 - 46.1	119	57.08	1.21	2.1	57.2	53.6 - 60.6
All COULTER Instruments	281	44.64	1.23	2.8	44.6	41.9 - 47.4	281	58.26	1.72	3.0	58.3	54.7 - 61.8
All Danam/Drew Scientific Instruments	15	46.26	1.67	3.6	45.7	43.4 - 49.1	15	59.96	1.79	3.0	60.0	56.3 - 63.6
Abbott Cell-Dyn 1700	35	47.00	1.31	2.8	47.0	44.1 - 49.9	33	61.04	1.64	2.7	61.3	57.3 - 64.8
Abbott Cell-Dyn 1800	152	47.33	1.20	2.5	47.3	44.4 - 50.2	154	60.76	1.52	2.5	60.9	57.1 - 64.5
Abbott Cell-Dyn Emerald	117	46.55	1.49	3.2	46.5	43.7 - 49.4	115	59.94	1.74	2.9	60.1	56.3 - 63.6
ABX Diagnostics Micros/45/60	118	43.46	0.90	2.1	43.5	40.8 - 46.1	119	57.08	1.21	2.1	57.2	53.6 - 60.6
Boule Medonic CA 620	13	43.34	0.73	1.7	43.2	40.7 - 46.0	13	56.55	1.41	2.5	56.6	53.1 - 60.0
Boule Medonic M series	64	44.48	1.09	2.4	44.4	41.8 - 47.2	63	58.44	1.25	2.1	58.7	54.9 - 62.0
COULTER AcT 8/10	14	45.77	1.33	2.9	45.8	43.0 - 48.6	13	59.63	2.06	3.5	59.1	56.0 - 63.3
COULTER AcT diff/diff 2	263	44.60	1.19	2.7	44.6	41.9 - 47.3	263	58.23	1.65	2.8	58.3	54.7 - 61.8
Drew Scientific D3	15	46.26	1.67	3.6	45.7	43.4 - 49.1	15	59.96	1.79	3.0	60.0	56.3 - 63.6

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

Specimen HD-8							Specimen HD-9					
<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	809	40.97	1.53	3.7	41.0	38.5 - 43.5	797	22.12	2.39	10.8	22.5	20.7 - 23.5
All Abbott Cell-Dyn Instruments	310	42.12	1.15	2.7	42.1	39.5 - 44.7	313	20.76	2.42	11.7	21.0	19.5 - 22.1
All ABX Instruments	116	39.16	0.82	2.1	39.2	36.8 - 41.6	115	21.10	2.12	10.0	21.6	19.8 - 22.4
All COULTER Instruments	282	40.70	1.08	2.7	40.7	38.2 - 43.2	275	23.90	1.22	5.1	24.2	22.4 - 25.4
All Danam/Drew Scientific Instruments	15	41.90	1.88	4.5	41.7	39.3 - 44.5	15	19.92	3.18	16.0	20.4	18.7 - 21.2
Abbott Cell-Dyn 1700	35	42.27	1.49	3.5	42.3	39.7 - 44.9	35	19.83	2.63	13.3	20.1	Not graded
Abbott Cell-Dyn 1800	153	42.24	1.01	2.4	42.3	39.7 - 44.8	155	20.80	2.37	11.4	21.0	Not graded
Abbott Cell-Dyn Emerald	117	41.93	1.26	3.0	41.9	39.4 - 44.5	116	21.11	2.22	10.5	21.1	Not graded
ABX Diagnostics Micros/45/60	116	39.16	0.82	2.1	39.2	36.8 - 41.6	115	21.10	2.12	10.0	21.6	Not graded
Boule Medonic CA 620	13	39.12	0.71	1.8	39.1	36.7 - 41.5	13	21.54	1.50	7.0	21.7	Not graded
Boule Medonic M series	63	40.24	0.98	2.4	40.2	37.8 - 42.7	61	23.33	1.14	4.9	23.4	21.9 - 24.8
COULTER AcT 8/10	14	41.36	1.03	2.5	41.2	38.8 - 43.9	14	23.03	0.97	4.2	23.0	21.6 - 24.5
COULTER AcT diff/diff 2	264	40.68	1.07	2.6	40.7	38.2 - 43.2	257	24.00	1.15	4.8	24.2	22.5 - 25.5
Drew Scientific D3	15	41.90	1.88	4.5	41.7	39.3 - 44.5	15	19.92	3.18	16.0	20.4	Not graded
Specimen HD-10												
All Method	806	55.87	1.93	3.4	55.8	52.5 - 59.3						
All Abbott Cell-Dyn Instruments	309	57.23	1.68	2.9	57.2	53.7 - 60.7						
All ABX Instruments	120	54.14	1.05	1.9	54.2	50.8 - 57.4						
All COULTER Instruments	282	55.21	1.61	2.9	55.1	51.8 - 58.6						
All Danam/Drew Scientific Instruments	15	57.10	2.13	3.7	57.0	53.6 - 60.6						
Abbott Cell-Dyn 1700	34	57.31	2.00	3.5	57.4	53.8 - 60.8						
Abbott Cell-Dyn 1800	150	57.22	1.39	2.4	57.2	53.7 - 60.7						
Abbott Cell-Dyn Emerald	115	57.17	1.66	2.9	57.3	53.7 - 60.7						
ABX Diagnostics Micros/45/60	120	54.14	1.05	1.9	54.2	50.8 - 57.4						
Boule Medonic CA 620	13	53.22	1.76	3.3	53.5	50.0 - 56.5						
Boule Medonic M series	63	55.82	1.21	2.2	55.8	52.4 - 59.2						
COULTER AcT 8/10	14	56.26	2.01	3.6	56.7	52.8 - 59.7						
COULTER AcT diff/diff 2	264	55.17	1.57	2.8	55.1	51.8 - 58.5						
Drew Scientific D3	15	57.10	2.13	3.7	57.0	53.6 - 60.6						

Specimen HD-9 is graded by referee consensus to the peer group. Statistics are shown only if the peer group is graded.

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

Specimen HD-6							Specimen HD-7					
<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	807	292.4	42.5	14.5	295	219 - 366	796	129.1	21.9	17.0	129	96 - 162
All Abbott Cell-Dyn Instruments	311	333.4	21.3	6.4	331	250 - 417	306	148.3	13.6	9.2	147	111 - 186
All ABX Instruments	116	296.4	14.4	4.9	296	222 - 371	116	130.9	10.4	7.9	129	98 - 164
All COULTER Instruments	272	245.2	14.8	6.0	244	183 - 307	275	107.1	10.5	9.8	105	80 - 134
All Danam/Drew Scientific Instruments	15	327.3	21.5	6.6	329	245 - 410	15	137.9	12.4	9.0	138	103 - 173
Abbott Cell-Dyn 1700	34	320.1	25.3	7.9	316	240 - 401	34	147.0	13.8	9.4	146	110 - 184
Abbott Cell-Dyn 1800	152	331.4	17.0	5.1	329	248 - 415	151	147.9	11.8	8.0	147	110 - 185
Abbott Cell-Dyn Emerald	119	339.7	21.4	6.3	339	254 - 425	116	148.3	14.3	9.7	148	111 - 186
ABX Diagnostics Micros/45/60	116	296.4	14.4	4.9	296	222 - 371	116	130.9	10.4	7.9	129	98 - 164
Boule Medonic CA 620	12	273.2	25.1	9.2	280	204 - 342	11	122.9	7.6	6.2	124	92 - 154
Boule Medonic M series	64	279.6	16.4	5.9	281	209 - 350	64	122.8	13.1	10.7	120	92 - 154
COULTER AcT 8/10	12	251.6	17.4	6.9	249	188 - 315	14	107.8	12.8	11.9	104	80 - 135
COULTER AcT diff/diff 2	255	244.4	14.0	5.7	243	183 - 306	257	106.9	10.3	9.6	105	80 - 134
Drew Scientific D3	15	327.3	21.5	6.6	329	245 - 410	15	137.9	12.4	9.0	138	103 - 173

Specimen HD-8							Specimen HD-9					
All Method	813	539.3	76.9	14.3	563	404 - 675	794	168.1	35.3	21.0	163	126 - 211
All Abbott Cell-Dyn Instruments	311	606.5	31.3	5.2	605	454 - 759	312	193.6	36.4	18.8	185	145 - 242
All ABX Instruments	117	567.5	20.6	3.6	567	425 - 710	112	175.5	15.0	8.6	174	131 - 220
All COULTER Instruments	279	445.1	25.6	5.8	444	333 - 557	276	143.3	18.4	12.8	143	107 - 180
All Danam/Drew Scientific Instruments	15	614.3	43.7	7.1	613	460 - 768	14	208.8	22.7	10.9	216	156 - 261
Abbott Cell-Dyn 1700	35	612.3	36.7	6.0	612	459 - 766	36	156.9	21.7	13.8	155	117 - 197
Abbott Cell-Dyn 1800	153	604.6	26.8	4.4	605	453 - 756	151	174.1	15.9	9.1	171	130 - 218
Abbott Cell-Dyn Emerald	117	607.5	33.0	5.4	604	455 - 760	116	230.5	24.4	10.6	230	172 - 289
ABX Diagnostics Micros/45/60	117	567.5	20.6	3.6	567	425 - 710	112	175.5	15.0	8.6	174	131 - 220
Boule Medonic CA 620	13	543.5	12.9	2.4	542	407 - 680	13	137.6	10.1	7.3	136	103 - 173
Boule Medonic M series	64	551.8	22.1	4.0	550	413 - 690	63	136.8	9.4	6.9	136	102 - 172
COULTER AcT 8/10	14	439.0	26.8	6.1	437	329 - 549	14	148.9	13.7	9.2	151	111 - 187
COULTER AcT diff/diff 2	261	444.7	25.0	5.6	444	333 - 556	257	143.3	18.0	12.5	143	107 - 180
Drew Scientific D3	15	614.3	43.7	7.1	613	460 - 768	14	208.8	22.7	10.9	216	156 - 261

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

Specimen HD-10

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	807	290.5	38.7	13.3	288	217 - 364
All Abbott Cell-Dyn Instruments	309	328.2	21.2	6.4	327	246 - 411
All ABX Instruments	118	290.4	14.5	5.0	290	217 - 364
All COULTER Instruments	276	251.3	15.4	6.1	250	188 - 315
All Danam/Drew Scientific Instruments	15	323.8	17.5	5.4	321	242 - 405
Abbott Cell-Dyn 1700	35	313.5	29.6	9.4	310	235 - 392
Abbott Cell-Dyn 1800	153	335.7	17.3	5.1	335	251 - 420
Abbott Cell-Dyn Emerald	116	322.4	19.0	5.9	319	241 - 403
ABX Diagnostics Micros/45/60	118	290.4	14.5	5.0	290	217 - 364
Boule Medonic CA 620	13	267.3	17.5	6.5	266	200 - 335
Boule Medonic M series	65	267.6	15.3	5.7	268	200 - 335
COULTER AcT 8/10	13	255.2	15.7	6.2	252	191 - 320
COULTER AcT diff/diff 2	259	250.9	15.3	6.1	250	188 - 314
Drew Scientific D3	15	323.8	17.5	5.4	321	242 - 405

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

Specimen HD-6

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	745	36.42	1.50	4.1	36.5	31.9 - 41.0
All Abbott Cell-Dyn Instruments	286	35.88	1.70	4.7	35.8	30.7 - 41.0
All ABX Instruments	114	36.71	1.15	3.1	36.8	33.2 - 40.2
All COULTER Instruments	258	36.83	1.22	3.3	36.8	33.1 - 40.5
All Danam/Drew Scientific Instruments	15	36.41	0.92	2.5	36.0	33.6 - 39.2
Abbott Cell-Dyn 1700	30	36.67	2.35	6.4	36.4	29.6 - 43.8
Abbott Cell-Dyn 1800	139	35.08	1.39	4.0	35.1	30.8 - 39.3
Abbott Cell-Dyn Emerald	111	36.57	1.33	3.6	36.5	32.5 - 40.6
ABX Diagnostics Micros/45/60	114	36.71	1.15	3.1	36.8	33.2 - 40.2
Boule Medonic CA 620	13	38.29	2.93	7.6	38.6	29.5 - 47.1
Boule Medonic M series	62	36.72	1.69	4.6	36.9	31.6 - 41.8
COULTER AcT 8/10	10	34.18	0.85	2.5	34.1	31.6 - 36.8
COULTER AcT diff/diff 2	248	36.92	1.14	3.1	36.9	33.5 - 40.4
Drew Scientific D3	15	36.41	0.92	2.5	36.0	33.6 - 39.2

Specimen HD-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
747	38.76	1.56	4.0	38.9	34.0 - 43.5
284	38.08	1.64	4.3	38.1	33.1 - 43.1
115	38.84	1.17	3.0	39.0	35.3 - 42.4
253	39.38	1.17	3.0	39.3	35.8 - 42.9
15	38.53	0.76	2.0	38.8	36.2 - 40.9
31	38.94	2.08	5.3	39.2	32.7 - 45.2
142	37.33	1.34	3.6	37.3	33.3 - 41.4
109	38.96	1.47	3.8	39.0	34.5 - 43.4
115	38.84	1.17	3.0	39.0	35.3 - 42.4
13	41.05	1.83	4.5	40.9	35.5 - 46.6
62	38.99	1.79	4.6	39.1	33.6 - 44.4
10	35.92	0.81	2.3	36.1	33.4 - 38.4
246	39.46	1.08	2.7	39.4	36.2 - 42.8
15	38.53	0.76	2.0	38.8	36.2 - 40.9

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

<u>Instrument</u>	Specimen HD-8						Specimen HD-9					
	<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	752	54.36	1.44	2.6	54.2	50.0 - 58.7	731	36.87	1.33	3.6	36.8	32.8 - 40.9
All Abbott Cell-Dyn Instruments	286	53.31	0.85	1.6	53.3	50.7 - 55.9	287	36.63	1.40	3.8	36.5	32.4 - 40.9
All ABX Instruments	114	53.84	0.52	1.0	53.9	52.2 - 55.4	111	37.05	1.27	3.4	37.0	33.2 - 40.9
All COULTER Instruments	248	55.65	0.66	1.2	55.6	53.6 - 57.7	243	37.36	1.12	3.0	37.3	34.0 - 40.8
All Danam/Drew Scientific Instruments	15	53.94	0.44	0.8	53.9	52.6 - 55.3	15	36.69	1.62	4.4	36.5	31.8 - 41.6
Abbott Cell-Dyn 1700	31	54.68	1.59	2.9	54.4	49.9 - 59.5	31	35.55	1.31	3.7	35.7	31.6 - 39.5
Abbott Cell-Dyn 1800	141	53.07	0.87	1.6	53.1	50.4 - 55.7	142	36.78	1.21	3.3	36.7	33.1 - 40.5
Abbott Cell-Dyn Emerald	112	53.32	0.51	1.0	53.3	51.7 - 54.9	112	36.84	1.53	4.1	36.6	32.2 - 41.5
ABX Diagnostics Micros/45/60	114	53.84	0.52	1.0	53.9	52.2 - 55.4	111	37.05	1.27	3.4	37.0	33.2 - 40.9
Boule Medonic CA 620	12	57.42	0.88	1.5	57.6	54.7 - 60.1	13	35.95	0.91	2.5	36.2	33.2 - 38.7
Boule Medonic M series	63	54.92	1.56	2.8	54.9	50.2 - 59.6	62	35.94	1.34	3.7	35.9	31.9 - 40.0
COULTER AcT 8/10	10	50.45	0.69	1.4	50.7	48.3 - 52.6	9	-	-	-	34.8	34.0 - 40.8
COULTER AcT diff/diff 2	247	55.65	0.66	1.2	55.6	53.6 - 57.7	233	37.41	1.01	2.7	37.3	34.3 - 40.5
Drew Scientific D3	15	53.94	0.44	0.8	53.9	52.6 - 55.3	15	36.69	1.62	4.4	36.5	31.8 - 41.6
Specimen HD-10												
All Method	755	58.90	1.45	2.5	58.8	54.5 - 63.3						
All Abbott Cell-Dyn Instruments	283	57.66	0.67	1.2	57.6	55.6 - 59.7						
All ABX Instruments	113	58.54	0.51	0.9	58.5	57.0 - 60.1						
All COULTER Instruments	247	60.19	0.60	1.0	60.2	58.3 - 62.0						
All Danam/Drew Scientific Instruments	15	58.25	0.34	0.6	58.3	57.2 - 59.3						
Abbott Cell-Dyn 1700	32	58.63	1.12	1.9	58.4	55.2 - 62.0						
Abbott Cell-Dyn 1800	141	57.40	0.67	1.2	57.4	55.3 - 59.4						
Abbott Cell-Dyn Emerald	113	57.86	0.54	0.9	57.8	56.2 - 59.5						
ABX Diagnostics Micros/45/60	113	58.54	0.51	0.9	58.5	57.0 - 60.1						
Boule Medonic CA 620	13	61.50	0.85	1.4	61.7	58.9 - 64.1						
Boule Medonic M series	61	59.95	1.30	2.2	60.0	56.0 - 63.9						
COULTER AcT 8/10	10	54.68	0.51	0.9	54.5	53.1 - 56.3						
COULTER AcT diff/diff 2	246	60.19	0.60	1.0	60.2	58.3 - 62.0						
Drew Scientific D3	15	58.25	0.34	0.6	58.3	57.2 - 59.3						

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

Specimen HD-6							Specimen HD-7						
<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	744	11.45	3.93	34.3	12.5	0.0 - 23.3	748	11.63	3.45	29.6	12.8	1.2 - 22.0	
All Abbott Cell-Dyn Instruments	292	10.34	3.30	32.0	12.0	0.4 - 20.3	292	10.70	3.00	28.1	12.2	1.6 - 19.8	
All ABX Instruments	113	6.19	1.42	23.0	5.9	1.9 - 10.5	115	6.96	1.44	20.7	6.6	2.6 - 11.3	
All COULTER Instruments	245	15.57	0.80	5.1	15.5	13.1 - 18.0	244	15.07	0.67	4.5	15.1	13.0 - 17.1	
All Danam/Drew Scientific Instruments	15	10.81	1.32	12.2	11.2	6.8 - 14.8	15	10.62	0.82	7.7	10.5	8.1 - 13.1	
Abbott Cell-Dyn 1700	31	12.14	0.88	7.3	12.2	9.4 - 14.8	33	11.93	0.87	7.3	12.2	9.3 - 14.6	
Abbott Cell-Dyn 1800	140	13.18	0.95	7.2	13.2	10.3 - 16.1	140	13.28	0.84	6.3	13.3	10.7 - 15.8	
Abbott Cell-Dyn Emerald	113	6.51	0.70	10.8	6.5	4.4 - 8.7	113	7.19	0.65	9.0	7.1	5.2 - 9.2	
ABX Diagnostics Micros/45/60	113	6.19	1.42	23.0	5.9	1.9 - 10.5	115	6.96	1.44	20.7	6.6	2.6 - 11.3	
Boule Medonic CA 620	12	10.54	2.04	19.4	10.8	4.4 - 16.7	13	12.45	1.42	11.4	12.4	8.1 - 16.8	
Boule Medonic M series	61	10.35	1.14	11.0	10.4	6.9 - 13.8	61	11.12	1.56	14.0	11.1	6.4 - 15.9	
COULTER AcT diff/diff 2	244	15.57	0.80	5.1	15.5	13.1 - 18.0	243	15.06	0.67	4.4	15.0	13.0 - 17.1	
Drew Scientific D3	15	10.81	1.32	12.2	11.2	6.8 - 14.8	15	10.62	0.82	7.7	10.5	8.1 - 13.1	
Specimen HD-8							Specimen HD-9						
All Method	745	10.15	3.22	31.7	11.2	0.4 - 19.9	740	8.22	2.69	32.7	9.4	0.1 - 16.3	
All Abbott Cell-Dyn Instruments	290	9.39	2.74	29.2	11.0	1.1 - 17.7	291	7.59	2.62	34.5	9.0	0.0 - 15.5	
All ABX Instruments	115	5.91	1.49	25.3	5.4	1.4 - 10.4	111	4.43	1.17	26.4	4.1	0.9 - 8.0	
All COULTER Instruments	246	13.47	0.42	3.1	13.5	12.2 - 14.8	241	10.52	0.64	6.0	10.5	8.6 - 12.5	
All Danam/Drew Scientific Instruments	15	10.65	0.44	4.1	10.7	9.3 - 12.0	15	8.50	0.84	9.9	8.6	5.9 - 11.1	
Abbott Cell-Dyn 1700	33	10.88	0.77	7.1	11.0	8.5 - 13.2	33	9.46	0.61	6.5	9.4	7.6 - 11.3	
Abbott Cell-Dyn 1800	138	11.73	0.61	5.2	11.7	9.8 - 13.6	138	9.72	0.63	6.5	9.8	7.8 - 11.7	
Abbott Cell-Dyn Emerald	113	6.15	0.51	8.3	6.2	4.6 - 7.7	112	4.45	0.46	10.4	4.5	3.0 - 5.9	
ABX Diagnostics Micros/45/60	115	5.91	1.49	25.3	5.4	1.4 - 10.4	111	4.43	1.17	26.4	4.1	0.9 - 8.0	
Boule Medonic CA 620	12	8.50	0.87	10.2	8.3	5.9 - 11.1	13	8.68	0.35	4.0	8.6	7.6 - 9.8	
Boule Medonic M series	62	8.52	0.59	6.9	8.4	6.7 - 10.3	63	8.78	0.90	10.3	8.9	6.0 - 11.5	
COULTER AcT diff/diff 2	245	13.46	0.42	3.1	13.4	12.2 - 14.8	240	10.52	0.64	6.1	10.5	8.6 - 12.5	
Drew Scientific D3	15	10.65	0.44	4.1	10.7	9.3 - 12.0	15	8.50	0.84	9.9	8.6	5.9 - 11.1	

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

Specimen HD-10						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	747	8.94	2.86	32.0	10.0	0.3 - 17.6
All Abbott Cell-Dyn Instruments	291	8.30	2.50	30.1	9.7	0.8 - 15.9
All ABX Instruments	114	5.08	1.13	22.3	4.8	1.6 - 8.5
All COULTER Instruments	246	11.78	0.39	3.3	11.8	10.6 - 13.0
All Danam/Drew Scientific Instruments	15	9.41	0.36	3.8	9.4	8.3 - 10.5
Abbott Cell-Dyn 1700	32	9.86	0.54	5.4	9.9	8.2 - 11.5
Abbott Cell-Dyn 1800	141	10.39	0.57	5.5	10.4	8.6 - 12.2
Abbott Cell-Dyn Emerald	112	5.28	0.45	8.5	5.3	3.9 - 6.7
ABX Diagnostics Micros/45/60	114	5.08	1.13	22.3	4.8	1.6 - 8.5
Boule Medonic CA 620	13	8.00	0.57	7.2	7.9	6.2 - 9.8
Boule Medonic M series	61	7.51	0.61	8.2	7.5	5.6 - 9.4
COULTER AcT diff/diff 2	245	11.78	0.39	3.3	11.8	10.6 - 13.0
Drew Scientific D3	15	9.41	0.36	3.8	9.4	8.3 - 10.5

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

	Specimen HD-6						Specimen HD-7					
<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	744	52.01	4.21	8.1	51.8	39.3 - 64.7	751	49.46	3.88	7.8	49.2	37.8 - 61.2
All Abbott Cell-Dyn Instruments	285	53.70	3.10	5.8	53.1	44.4 - 63.1	290	51.00	2.85	5.6	50.5	42.4 - 59.6
All ABX Instruments	115	56.97	2.09	3.7	57.2	50.6 - 63.3	116	54.12	2.09	3.9	54.4	47.8 - 60.4
All COULTER Instruments	244	47.51	1.32	2.8	47.4	43.5 - 51.5	244	45.47	1.18	2.6	45.4	41.9 - 49.1
All Danam/Drew Scientific Instruments	15	52.79	1.20	2.3	52.7	49.1 - 56.4	15	50.85	0.71	1.4	51.1	48.7 - 53.0
Abbott Cell-Dyn 1700	30	51.15	2.26	4.4	51.5	44.3 - 58.0	31	49.02	2.10	4.3	49.2	42.7 - 55.4
Abbott Cell-Dyn 1800	137	51.67	1.65	3.2	51.7	46.7 - 56.7	142	49.37	1.58	3.2	49.4	44.6 - 54.2
Abbott Cell-Dyn Emerald	112	56.83	1.62	2.8	57.0	51.9 - 61.7	110	53.79	1.53	2.9	53.7	49.1 - 58.4
ABX Diagnostics Micros/45/60	115	56.97	2.09	3.7	57.2	50.6 - 63.3	116	54.12	2.09	3.9	54.4	47.8 - 60.4
Boule Medonic CA 620	13	51.03	4.43	8.7	49.9	37.7 - 64.4	12	46.56	2.46	5.3	46.8	39.1 - 54.0
Boule Medonic M series	63	52.92	2.00	3.8	52.8	46.9 - 59.0	62	50.05	2.37	4.7	50.2	42.9 - 57.2
COULTER AcT diff/diff 2	243	47.51	1.32	2.8	47.4	43.5 - 51.5	243	45.47	1.19	2.6	45.4	41.9 - 49.1
Drew Scientific D3	15	52.79	1.20	2.3	52.7	49.1 - 56.4	15	50.85	0.71	1.4	51.1	48.7 - 53.0

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

Specimen HD-8							Specimen HD-9					
<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	749	35.40	4.07	11.5	35.2	23.2 - 47.7	739	54.80	3.19	5.8	54.1	45.2 - 64.4
All Abbott Cell-Dyn Instruments	290	37.16	2.95	7.9	35.9	28.3 - 46.1	291	55.66	2.99	5.4	55.0	46.6 - 64.7
All ABX Instruments	115	40.27	1.79	4.5	40.6	34.8 - 45.7	112	58.44	1.98	3.4	58.7	52.5 - 64.4
All COULTER Instruments	244	30.88	0.67	2.2	30.9	28.8 - 32.9	235	51.97	1.05	2.0	52.0	48.8 - 55.2
All Danam/Drew Scientific Instruments	15	35.41	0.55	1.6	35.3	33.7 - 37.1	15	54.81	1.94	3.5	55.3	48.9 - 60.7
Abbott Cell-Dyn 1700	31	34.30	1.60	4.7	34.7	29.4 - 39.2	31	54.90	1.28	2.3	55.0	51.0 - 58.8
Abbott Cell-Dyn 1800	138	35.17	0.87	2.5	35.3	32.5 - 37.8	138	53.53	1.18	2.2	53.7	49.9 - 57.1
Abbott Cell-Dyn Emerald	113	40.54	0.80	2.0	40.6	38.1 - 43.0	113	58.75	1.64	2.8	59.1	53.8 - 63.7
ABX Diagnostics Micros/45/60	115	40.27	1.79	4.5	40.6	34.8 - 45.7	112	58.44	1.98	3.4	58.7	52.5 - 64.4
Boule Medonic CA 620	12	34.08	1.22	3.6	34.1	30.4 - 37.8	12	55.45	0.98	1.8	55.1	52.5 - 58.4
Boule Medonic M series	63	36.57	1.44	3.9	36.6	32.2 - 40.9	64	55.37	1.58	2.9	55.4	50.6 - 60.2
COULTER AcT diff/diff 2	243	30.88	0.67	2.2	30.9	28.8 - 32.9	234	51.97	1.05	2.0	52.0	48.8 - 55.2
Drew Scientific D3	15	35.41	0.55	1.6	35.3	33.7 - 37.1	15	54.81	1.94	3.5	55.3	48.9 - 60.7

Specimen HD-10						
All Method	749	32.19	3.60	11.2	32.1	21.3 - 43.0
All Abbott Cell-Dyn Instruments	292	33.97	2.49	7.3	32.9	26.5 - 41.5
All ABX Instruments	115	36.42	1.41	3.9	36.8	32.1 - 40.7
All COULTER Instruments	245	28.02	0.62	2.2	28.0	26.1 - 29.9
All Danam/Drew Scientific Instruments	15	32.35	0.49	1.5	32.3	30.8 - 33.9
Abbott Cell-Dyn 1700	31	31.59	1.25	4.0	31.7	27.8 - 35.4
Abbott Cell-Dyn 1800	141	32.23	0.80	2.5	32.2	29.8 - 34.7
Abbott Cell-Dyn Emerald	114	36.85	0.74	2.0	36.8	34.6 - 39.1
ABX Diagnostics Micros/45/60	115	36.42	1.41	3.9	36.8	32.1 - 40.7
Boule Medonic CA 620	12	30.48	0.92	3.0	30.4	27.7 - 33.3
Boule Medonic M series	64	32.62	1.38	4.2	32.6	28.4 - 36.8
COULTER AcT diff/diff 2	244	28.02	0.62	2.2	28.0	26.1 - 29.9
Drew Scientific D3	15	32.35	0.49	1.5	32.3	30.8 - 33.9

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen DIF-6				<u>Labs</u>	<u>Mean</u>	Specimen DIF-7			
			<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	20	26.55	0.71	2.7	26.5	22.5 - 30.6	20	4.04	0.11	2.8	4.1	3.4 - 4.7
All COULTER Instruments	20	26.55	0.71	2.7	26.5	22.5 - 30.6	20	4.04	0.11	2.8	4.1	3.4 - 4.7
			Specimen DIF-8						Specimen DIF-9			
			<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	20	9.79	0.27	2.8	9.8	8.3 - 11.3	20	22.14	0.59	2.7	22.1	18.8 - 25.5
All COULTER Instruments	20	9.79	0.27	2.8	9.8	8.3 - 11.3	20	22.14	0.59	2.7	22.1	18.8 - 25.5
			Specimen DIF-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	4.03	0.12	2.9	4.0	3.4 - 4.7						
All COULTER Instruments	20	4.03	0.12	2.9	4.0	3.4 - 4.7						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen DIF-6				<u>Labs</u>	<u>Mean</u>	Specimen DIF-7			
			<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	19	6.458	0.057	0.9	6.46	6.07 - 6.85	20	2.614	0.033	1.3	2.61	2.45 - 2.78
All COULTER Instruments	19	6.458	0.057	0.9	6.46	6.07 - 6.85	20	2.614	0.033	1.3	2.61	2.45 - 2.78
			Specimen DIF-8						Specimen DIF-9			
			<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	20	4.148	0.048	1.2	4.15	3.89 - 4.40	20	5.440	0.105	1.9	5.43	5.11 - 5.77
All COULTER Instruments	20	4.148	0.048	1.2	4.15	3.89 - 4.40	20	5.440	0.105	1.9	5.43	5.11 - 5.77
			Specimen DIF-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	2.612	0.049	1.9	2.60	2.45 - 2.77						
All COULTER Instruments	20	2.612	0.049	1.9	2.60	2.45 - 2.77						

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

<u>Instrument</u>	Specimen DIF-6						Specimen DIF-7					
	<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	20	20.45	0.25	1.2	20.4	19.0 - 21.9	19	6.50	0.09	1.4	6.5	6.0 - 7.0
All COULTER Instruments	20	20.45	0.25	1.2	20.4	19.0 - 21.9	19	6.50	0.09	1.4	6.5	6.0 - 7.0
	Specimen DIF-8						Specimen DIF-9					
	<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	19	12.46	0.16	1.3	12.5	11.5 - 13.4	19	17.16	0.25	1.5	17.2	15.9 - 18.4
All COULTER Instruments	19	12.46	0.16	1.3	12.5	11.5 - 13.4	19	17.16	0.25	1.5	17.2	15.9 - 18.4
	Specimen DIF-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	19	6.49	0.08	1.3	6.5	6.0 - 7.0						
All COULTER Instruments	19	6.49	0.08	1.3	6.5	6.0 - 7.0						

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

<u>Instrument</u>	Specimen DIF-6						Specimen DIF-7					
	<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	20	66.68	1.28	1.9	66.6	62.6 - 70.7	20	20.27	0.30	1.5	20.1	19.0 - 21.5
All COULTER Instruments	20	66.68	1.28	1.9	66.6	62.6 - 70.7	20	20.27	0.30	1.5	20.1	19.0 - 21.5
	Specimen DIF-8						Specimen DIF-9					
	<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	20	39.15	0.71	1.8	39.0	36.8 - 41.5	20	56.06	1.20	2.1	56.3	52.6 - 59.5
All COULTER Instruments	20	39.15	0.71	1.8	39.0	36.8 - 41.5	20	56.06	1.20	2.1	56.3	52.6 - 59.5
	Specimen DIF-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	20.23	0.39	1.9	20.2	19.0 - 21.5						
All COULTER Instruments	20	20.23	0.39	1.9	20.2	19.0 - 21.5						

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

Specimen DIF-6							Specimen DIF-7					
<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	20	391.8	22.1	5.6	391	293 - 490	20	80.1	4.0	5.0	81	60 - 101
All COULTER Instruments	20	391.8	22.1	5.6	391	293 - 490	20	80.1	4.0	5.0	81	60 - 101
Specimen DIF-8							Specimen DIF-9					
All Method	20	227.1	9.3	4.1	226	170 - 284	20	445.9	19.5	4.4	448	334 - 558
All COULTER Instruments	20	227.1	9.3	4.1	226	170 - 284	20	445.9	19.5	4.4	448	334 - 558
Specimen DIF-10												
All Method	20	80.3	4.5	5.6	81	60 - 101						
All COULTER Instruments	20	80.3	4.5	5.6	81	60 - 101						

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

Specimen DIF-6							Specimen DIF-7						
<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	20	66.65	2.40	3.6	66.3	59.4 - 73.9	20	51.96	1.19	2.3	52.0	48.3 - 55.6	
All COULTER Instruments	20	66.65	2.40	3.6	66.3	59.4 - 73.9	20	51.96	1.19	2.3	52.0	48.3 - 55.6	
Specimen DIF-8							Specimen DIF-9						
All Method	19	57.73	0.93	1.6	57.9	54.9 - 60.6	19	66.16	1.52	2.3	66.2	61.5 - 70.8	
All COULTER Instruments	19	57.73	0.93	1.6	57.9	54.9 - 60.6	19	66.16	1.52	2.3	66.2	61.5 - 70.8	
Specimen DIF-10													
All Method	20	51.84	0.84	1.6	51.7	49.3 - 54.4							
All COULTER Instruments	20	51.84	0.84	1.6	51.7	49.3 - 54.4							

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

Specimen DIF-6							Specimen DIF-7					
<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	19	22.27	1.30	5.8	22.2	18.3 - 26.2	20	39.72	1.20	3.0	39.6	36.1 - 43.4
All COULTER Instruments	19	22.27	1.30	5.8	22.2	18.3 - 26.2	20	39.72	1.20	3.0	39.6	36.1 - 43.4
Specimen DIF-8							Specimen DIF-9					
All Method	20	31.04	1.17	3.8	30.9	27.5 - 34.6	20	21.77	2.36	10.9	22.6	14.6 - 28.9
All COULTER Instruments	20	31.04	1.17	3.8	30.9	27.5 - 34.6	20	21.77	2.36	10.9	22.6	14.6 - 28.9
Specimen DIF-10												
All Method	20	39.88	1.17	2.9	40.0	36.3 - 43.4						
All COULTER Instruments	20	39.88	1.17	2.9	40.0	36.3 - 43.4						

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

Specimen DIF-6							Specimen DIF-7					
<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	20	5.82	1.55	26.7	5.9	1.1 - 10.5	20	0.45	0.36	80.7	0.3	0.0 - 1.6
All COULTER Instruments	20	5.82	1.55	26.7	5.9	1.1 - 10.5	20	0.45	0.36	80.7	0.3	0.0 - 1.6
Specimen DIF-8							Specimen DIF-9					
All Method	20	4.54	1.69	37.2	5.0	0.0 - 9.7	20	5.81	1.79	30.8	5.8	0.4 - 11.2
All COULTER Instruments	20	4.54	1.69	37.2	5.0	0.0 - 9.7	20	5.81	1.79	30.8	5.8	0.4 - 11.2
Specimen DIF-10												
All Method	20	0.42	0.29	69.4	0.4	0.0 - 1.3						
All COULTER Instruments	20	0.42	0.29	69.4	0.4	0.0 - 1.3						

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

<u>Instrument</u>	Specimen DIF-6						Specimen DIF-7					
	<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	20	4.66	0.48	10.4	4.7	3.2 - 6.2	20	7.48	0.50	6.7	7.3	5.9 - 9.0
All COULTER Instruments	20	4.66	0.48	10.4	4.7	3.2 - 6.2	20	7.48	0.50	6.7	7.3	5.9 - 9.0
	Specimen DIF-8						Specimen DIF-9					
	<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	20	6.00	0.37	6.1	6.1	4.8 - 7.2	20	4.49	0.30	6.7	4.5	3.5 - 5.4
All COULTER Instruments	20	6.00	0.37	6.1	6.1	4.8 - 7.2	20	4.49	0.30	6.7	4.5	3.5 - 5.4
	Specimen DIF-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	20	7.44	0.43	5.7	7.5	6.1 - 8.8						
All COULTER Instruments	20	7.44	0.43	5.7	7.5	6.1 - 8.8						

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

<u>Instrument</u>	Specimen DIF-6						Specimen DIF-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	0.38	0.32	82.6	0.3	0.0 - 1.4	20	0.39	0.37	94.4	0.3	0.0 - 1.5
All COULTER Instruments	18	0.38	0.32	82.6	0.3	0.0 - 1.4	20	0.39	0.37	94.4	0.3	0.0 - 1.5
	Specimen DIF-8						Specimen DIF-9					
	<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	20	0.47	0.28	60.2	0.5	0.0 - 1.4	19	0.52	0.48	91.9	0.4	0.0 - 2.0
All COULTER Instruments	20	0.47	0.28	60.2	0.5	0.0 - 1.4	19	0.52	0.48	91.9	0.4	0.0 - 2.0
	Specimen DIF-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	19	0.34	0.27	78.7	0.3	0.0 - 1.2						
All COULTER Instruments	19	0.34	0.27	78.7	0.3	0.0 - 1.2						

QBC HEMATOLOGY–HEMATOCRIT (percent)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-6				<u>Labs</u>	<u>Mean</u>	Specimen QBC-7			
			<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	9	21.21	0.81	3.8	21.1	19.9 - 22.5	9	35.19	1.08	3.1	35.1	33.0 - 37.4
QBC STAR - QBC STAR Tubes	5	20.88	0.45	2.2	20.7	19.6 - 22.2	5	35.16	1.19	3.4	35.4	33.0 - 37.3
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-8				<u>Labs</u>	<u>Mean</u>	Specimen QBC-9			
			<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	9	28.28	0.85	3.0	28.1	26.5 - 30.0	9	33.42	0.79	2.4	33.0	31.4 - 35.5
QBC STAR - QBC STAR Tubes	5	28.30	0.83	2.9	28.4	26.6 - 30.0	5	33.62	0.69	2.0	33.8	31.6 - 35.7
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	28.08	0.71	2.5	28.1	26.3 - 29.8						
QBC STAR - QBC STAR Tubes	5	28.22	0.80	2.8	28.1	26.5 - 30.0						

QBC HEMATOLOGY–HEMOGLOBIN (g/dL)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-6				<u>Labs</u>	<u>Mean</u>	Specimen QBC-7			
			<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	9	7.18	0.39	5.5	7.2	6.6 - 7.7	9	11.76	0.35	3.0	11.7	10.9 - 12.6
QBC STAR - QBC STAR Tubes	5	6.92	0.31	4.5	7.0	6.4 - 7.5	5	11.58	0.27	2.3	11.7	10.7 - 12.4
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-8				<u>Labs</u>	<u>Mean</u>	Specimen QBC-9			
			<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	9	9.59	0.32	3.4	9.6	8.9 - 10.3	9	11.36	0.21	1.8	11.3	10.5 - 12.2
QBC STAR - QBC STAR Tubes	5	9.40	0.29	3.1	9.3	8.7 - 10.1	5	11.20	0.07	0.6	11.2	10.4 - 12.0
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen QBC-10				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	9.44	0.35	3.7	9.3	8.7 - 10.2						
QBC STAR - QBC STAR Tubes	5	9.16	0.11	1.2	9.2	8.5 - 9.9						

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

<u>Instrument</u>	Specimen QBC-6						Specimen QBC-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	5.28	0.68	12.8	5.4	4.4 - 6.1	9	28.73	8.79	30.6	34.0	24.4 - 33.1
QBC STAR - QBC STAR Tubes	5	5.44	0.44	8.1	5.4	4.6 - 6.3	5	35.38	1.99	5.6	34.6	30.0 - 40.7
	Specimen QBC-8						Specimen QBC-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	9.73	1.63	16.7	9.9	8.2 - 11.2	9	19.28	3.74	19.4	20.1	16.3 - 22.2
QBC STAR - QBC STAR Tubes	5	10.20	1.17	11.5	9.9	8.6 - 11.8	5	21.66	1.72	7.9	21.2	18.4 - 25.0
	Specimen QBC-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	9.34	1.04	11.2	9.3	7.9 - 10.8						
QBC STAR - QBC STAR Tubes	5	9.86	0.54	5.5	10.0	8.3 - 11.4						

QBC HEMATOLOGY–PLATELET COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen QBC-6						Specimen QBC-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	630.7	85.1	13.5	618	473 - 789	9	216.3	43.8	20.3	231	162 - 271
QBC STAR - QBC STAR Tubes	5	641.6	60.3	9.4	618	481 - 802	5	238.6	11.7	4.9	231	178 - 299
	Specimen QBC-8						Specimen QBC-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	383.2	80.2	20.9	404	287 - 480	9	199.6	38.7	19.4	203	149 - 250
QBC STAR - QBC STAR Tubes	5	406.6	33.9	8.3	404	304 - 509	5	222.0	17.7	8.0	229	166 - 278
	Specimen QBC-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	376.3	65.4	17.4	402	282 - 471						
QBC STAR - QBC STAR Tubes	5	405.6	5.5	1.4	403	304 - 507						

QBC HEMATOLOGY–GRANULOCYTES (x 10⁹/L)

Specimen QBC-6							Specimen QBC-7						
<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	9	3.71	0.88	23.6	3.5	1.0 - 6.4	9	8.44	1.96	23.2	8.6	2.5 - 14.4	
QBC STAR - QBC STAR Tubes	5	3.58	0.43	12.1	3.5	2.2 - 4.9	5	8.64	1.12	13.0	8.6	5.2 - 12.0	
Specimen QBC-8							Specimen QBC-9						
All Method	9	6.09	1.32	21.7	5.7	2.1 - 10.1	9	7.83	1.82	23.3	8.3	2.3 - 13.3	
QBC STAR - QBC STAR Tubes	5	5.88	0.88	14.9	5.7	3.2 - 8.6	5	8.04	1.14	14.1	8.3	4.6 - 11.5	
Specimen QBC-10													
All Method	9	5.91	0.94	15.9	6.0	3.0 - 8.8							
QBC STAR - QBC STAR Tubes	5	5.94	0.58	9.7	6.0	4.2 - 7.7							

QBC HEMATOLOGY–LYMPHS/MONO (x 10⁹/L)

Specimen QBC-6							Specimen QBC-7					
<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	9	1.57	0.43	27.5	1.8	0.2 - 2.9	9	19.74	7.69	38.9	22.5	0.0 - 42.9
QBC STAR - QBC STAR Tubes	5	1.86	0.05	2.9	1.9	1.6 - 2.1	5	25.76	3.08	11.9	24.8	16.5 - 35.0
Specimen QBC-8							Specimen QBC-9					
All Method	9	3.54	0.76	21.4	3.7	1.2 - 5.9	9	11.44	2.91	25.4	12.0	2.7 - 20.2
QBC STAR - QBC STAR Tubes	5	4.14	0.32	7.8	4.3	3.1 - 5.2	5	13.62	1.70	12.5	13.3	8.5 - 18.8
Specimen QBC-10												
All Method	9	3.43	0.62	18.0	3.7	1.5 - 5.3						
QBC STAR - QBC STAR Tubes	5	3.92	0.13	3.3	4.0	3.5 - 4.4						

RETICULOCYTE COUNT (percent)

<u>Instrument</u>	Specimen RT-3						Specimen RT-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	3.89	1.48	38.1	3.7	0.0 - 8.4	35	7.81	2.48	31.7	7.2	0.3 - 15.3
All Automated Methods	20	3.23	0.78	24.3	3.5	0.8 - 5.6	20	6.86	1.68	24.5	7.1	1.8 - 11.9
All Manual Methods	14	4.84	1.75	36.1	4.4	0.0 - 10.1	15	9.08	2.84	31.3	8.1	0.5 - 17.7
Manual-New Methylen Blue Stain	9	-	-	-	5.0	0.0 - 10.1	10	9.90	3.09	31.2	10.1	0.6 - 19.2

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

<u>Instrument</u>	Specimen BCX-6						Specimen BCX-7					
	<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	29.24	0.83	2.8	29.2	24.8 - 33.7	72	25.85	0.63	2.4	25.9	21.9 - 29.8
All ABX Instruments	28	29.36	0.76	2.6	29.3	24.9 - 33.8	28	25.88	0.60	2.3	26.0	21.9 - 29.8
All COULTER Instruments	42	29.16	0.88	3.0	29.0	24.7 - 33.6	43	25.83	0.65	2.5	25.7	21.9 - 29.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	29.18	0.74	2.5	29.2	24.8 - 33.6	16	25.83	0.56	2.2	26.0	21.9 - 29.8
ABX Diagnostics Pentra 80 / XL 80	13	29.26	1.39	4.7	29.4	24.8 - 33.7	13	25.65	1.22	4.8	25.9	21.7 - 29.5
COULTER AcT 5diff (version 2.01)	37	29.20	0.88	3.0	29.0	24.8 - 33.6	38	25.84	0.64	2.5	25.7	21.9 - 29.8

<u>Instrument</u>	Specimen BCX-8						Specimen BCX-9					
	<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	72	4.96	0.13	2.6	5.0	4.2 - 5.8	71	28.75	0.68	2.4	28.8	24.4 - 33.1
All ABX Instruments	29	4.94	0.12	2.5	5.0	4.2 - 5.7	29	28.80	0.71	2.5	28.9	24.4 - 33.2
All COULTER Instruments	43	4.98	0.15	3.0	5.0	4.2 - 5.8	42	28.77	0.75	2.6	28.7	24.4 - 33.1
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	4.88	0.10	2.1	4.9	4.1 - 5.7	16	28.65	0.62	2.1	28.7	24.3 - 33.0
ABX Diagnostics Pentra 80 / XL 80	13	5.02	0.09	1.8	5.0	4.2 - 5.8	13	28.98	0.80	2.8	29.1	24.6 - 33.4
COULTER AcT 5diff (version 2.01)	38	4.98	0.15	3.0	5.0	4.2 - 5.8	37	28.71	0.65	2.2	28.7	24.4 - 33.1

<u>Instrument</u>	Specimen BCX-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	16.59	0.42	2.6	16.6	14.0 - 19.1
All ABX Instruments	29	16.53	0.49	2.9	16.7	14.0 - 19.1
All COULTER Instruments	42	16.58	0.43	2.6	16.6	14.0 - 19.1
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	16.54	0.40	2.4	16.7	14.0 - 19.1
ABX Diagnostics Pentra 80 / XL 80	13	16.52	0.59	3.6	16.6	14.0 - 19.1
COULTER AcT 5diff (version 2.01)	37	16.62	0.40	2.4	16.6	14.1 - 19.2

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

Specimen BCX-6							Specimen BCX-7					
<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	73	6.614	0.123	1.9	6.61	6.21 - 7.02	73	5.988	0.102	1.7	5.98	5.62 - 6.35
All ABX Instruments	29	6.656	0.129	1.9	6.65	6.25 - 7.06	29	5.997	0.097	1.6	5.98	5.63 - 6.36
All COULTER Instruments	43	6.584	0.111	1.7	6.57	6.18 - 6.98	43	5.977	0.103	1.7	5.98	5.61 - 6.34
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	6.606	0.130	2.0	6.61	6.20 - 7.01	16	5.978	0.087	1.5	5.98	5.61 - 6.34
ABX Diagnostics Pentra 80 / XL 80	13	6.716	0.102	1.5	6.71	6.31 - 7.12	13	6.021	0.106	1.8	5.98	5.65 - 6.39
COULTER AcT 5diff (version 2.01)	38	6.573	0.113	1.7	6.56	6.17 - 6.97	38	5.974	0.103	1.7	5.98	5.61 - 6.34
Specimen BCX-8							Specimen BCX-9					
All Method	71	4.298	0.068	1.6	4.30	4.03 - 4.56	73	3.052	0.053	1.7	3.05	2.86 - 3.24
All ABX Instruments	29	4.279	0.060	1.4	4.29	4.02 - 4.54	29	3.026	0.044	1.5	3.03	2.84 - 3.21
All COULTER Instruments	41	4.309	0.071	1.6	4.31	4.05 - 4.57	43	3.067	0.052	1.7	3.07	2.88 - 3.26
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	4.286	0.064	1.5	4.31	4.02 - 4.55	16	3.042	0.038	1.2	3.04	2.85 - 3.23
ABX Diagnostics Pentra 80 / XL 80	13	4.271	0.055	1.3	4.28	4.01 - 4.53	13	3.005	0.045	1.5	3.02	2.82 - 3.19
COULTER AcT 5diff (version 2.01)	36	4.316	0.069	1.6	4.32	4.05 - 4.58	38	3.074	0.051	1.6	3.08	2.88 - 3.26
Specimen BCX-10												
All Method	73	5.549	0.081	1.5	5.54	5.21 - 5.89						
All ABX Instruments	29	5.551	0.086	1.5	5.54	5.21 - 5.89						
All COULTER Instruments	43	5.547	0.078	1.4	5.55	5.21 - 5.88						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	5.531	0.078	1.4	5.54	5.19 - 5.87						
ABX Diagnostics Pentra 80 / XL 80	13	5.575	0.092	1.7	5.58	5.24 - 5.91						
COULTER AcT 5diff (version 2.01)	38	5.547	0.080	1.4	5.55	5.21 - 5.89						

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

Specimen BCX-6							Specimen BCX-7						
<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	72	19.88	0.30	1.5	19.9	18.4 - 21.3	72	17.96	0.26	1.4	18.0	16.7 - 19.3	
All ABX Instruments	29	20.10	0.27	1.3	20.1	18.6 - 21.6	29	18.10	0.24	1.3	18.1	16.8 - 19.4	
All COULTER Instruments	42	19.74	0.22	1.1	19.7	18.3 - 21.2	42	17.86	0.23	1.3	17.9	16.6 - 19.2	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	20.13	0.28	1.4	20.2	18.7 - 21.6	16	18.18	0.22	1.2	18.2	16.9 - 19.5	
ABX Diagnostics Pentra 80 / XL 80	13	20.06	0.26	1.3	20.0	18.6 - 21.5	13	18.01	0.24	1.3	18.0	16.7 - 19.3	
COULTER AcT 5diff (version 2.01)	37	19.76	0.22	1.1	19.8	18.3 - 21.2	37	17.89	0.21	1.2	17.9	16.6 - 19.2	
Specimen BCX-8							Specimen BCX-9						
All Method	72	12.79	0.15	1.2	12.8	11.8 - 13.7	72	7.63	0.12	1.5	7.6	7.0 - 8.2	
All ABX Instruments	29	12.77	0.16	1.3	12.8	11.8 - 13.7	29	7.56	0.11	1.5	7.5	7.0 - 8.1	
All COULTER Instruments	42	12.80	0.14	1.1	12.8	11.9 - 13.8	42	7.67	0.09	1.2	7.7	7.1 - 8.3	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	12.82	0.16	1.3	12.8	11.9 - 13.8	16	7.58	0.11	1.5	7.6	7.0 - 8.2	
ABX Diagnostics Pentra 80 / XL 80	13	12.72	0.15	1.2	12.7	11.8 - 13.7	13	7.52	0.11	1.5	7.5	6.9 - 8.1	
COULTER AcT 5diff (version 2.01)	37	12.82	0.14	1.1	12.8	11.9 - 13.8	37	7.69	0.09	1.2	7.7	7.1 - 8.3	
Specimen BCX-10													
All Method	72	16.58	0.21	1.3	16.6	15.4 - 17.8							
All ABX Instruments	29	16.66	0.21	1.3	16.6	15.4 - 17.9							
All COULTER Instruments	42	16.53	0.20	1.2	16.5	15.3 - 17.7							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	16.70	0.22	1.3	16.7	15.5 - 17.9							
ABX Diagnostics Pentra 80 / XL 80	13	16.61	0.20	1.2	16.6	15.4 - 17.8							
COULTER AcT 5diff (version 2.01)	37	16.56	0.19	1.1	16.5	15.3 - 17.8							

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

Specimen BCX-6							Specimen BCX-7						
<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	72	57.02	0.97	1.7	57.1	53.5 - 60.5	72	51.54	0.92	1.8	51.5	48.4 - 54.7	
All ABX Instruments	29	57.27	0.91	1.6	57.3	53.8 - 60.8	29	51.71	0.89	1.7	51.6	48.6 - 54.9	
All COULTER Instruments	42	56.83	0.98	1.7	56.6	53.4 - 60.3	42	51.40	0.93	1.8	51.4	48.3 - 54.5	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	57.06	1.02	1.8	57.2	53.6 - 60.5	16	51.54	0.84	1.6	51.4	48.4 - 54.7	
ABX Diagnostics Pentra 80 / XL 80	13	57.54	0.69	1.2	57.5	54.0 - 61.0	13	51.92	0.95	1.8	51.7	48.8 - 55.1	
COULTER AcT 5diff (version 2.01)	37	56.87	1.01	1.8	56.6	53.4 - 60.3	37	51.45	0.90	1.8	51.4	48.3 - 54.6	
Specimen BCX-8							Specimen BCX-9						
All Method	72	36.43	0.58	1.6	36.5	34.2 - 38.7	73	23.08	0.45	2.0	23.0	21.6 - 24.5	
All ABX Instruments	29	36.50	0.61	1.7	36.6	34.3 - 38.7	29	23.14	0.47	2.0	23.2	21.7 - 24.6	
All COULTER Instruments	42	36.37	0.56	1.5	36.5	34.1 - 38.6	43	23.03	0.44	1.9	22.9	21.6 - 24.5	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	36.23	0.57	1.6	36.1	34.0 - 38.5	16	22.87	0.39	1.7	22.8	21.4 - 24.3	
ABX Diagnostics Pentra 80 / XL 80	13	36.83	0.50	1.4	37.1	34.6 - 39.1	13	23.48	0.33	1.4	23.4	22.0 - 24.9	
COULTER AcT 5diff (version 2.01)	37	36.37	0.56	1.5	36.4	34.1 - 38.6	38	22.99	0.44	1.9	22.9	21.6 - 24.4	
Specimen BCX-10													
All Method	73	47.44	0.89	1.9	47.6	44.5 - 50.3							
All ABX Instruments	29	47.58	0.89	1.9	47.6	44.7 - 50.5							
All COULTER Instruments	43	47.32	0.87	1.8	47.3	44.4 - 50.2							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	47.37	0.81	1.7	47.4	44.5 - 50.3							
ABX Diagnostics Pentra 80 / XL 80	13	47.83	0.96	2.0	48.0	44.9 - 50.8							
COULTER AcT 5diff (version 2.01)	38	47.35	0.89	1.9	47.4	44.5 - 50.2							

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

Specimen BCX-6							Specimen BCX-7						
<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	73	543.7	24.0	4.4	542	407 - 680	73	509.2	23.6	4.6	508	381 - 637	
All ABX Instruments	29	552.9	23.4	4.2	550	414 - 692	29	519.2	21.2	4.1	522	389 - 650	
All COULTER Instruments	43	538.5	22.1	4.1	535	403 - 674	43	503.1	22.8	4.5	500	377 - 629	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	541.8	20.2	3.7	541	406 - 678	16	513.1	18.3	3.6	513	384 - 642	
ABX Diagnostics Pentra 80 / XL 80	13	566.5	20.1	3.6	571	424 - 709	13	526.8	22.8	4.3	523	395 - 659	
COULTER AcT 5diff (version 2.01)	38	534.6	18.6	3.5	534	400 - 669	38	500.7	21.9	4.4	498	375 - 626	
Specimen BCX-8							Specimen BCX-9						
All Method	73	253.8	9.4	3.7	253	190 - 318	73	402.4	14.1	3.5	403	301 - 503	
All ABX Instruments	29	255.4	8.4	3.3	254	191 - 320	29	405.8	13.6	3.4	407	304 - 508	
All COULTER Instruments	43	252.9	10.1	4.0	252	189 - 317	43	400.3	14.1	3.5	402	300 - 501	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	254.6	7.3	2.9	254	190 - 319	16	405.8	12.9	3.2	407	304 - 508	
ABX Diagnostics Pentra 80 / XL 80	13	256.3	9.9	3.8	255	192 - 321	13	405.9	15.0	3.7	410	304 - 508	
COULTER AcT 5diff (version 2.01)	38	252.1	10.2	4.1	252	189 - 316	38	400.0	14.7	3.7	402	300 - 501	
Specimen BCX-10													
All Method	73	308.5	14.3	4.6	310	231 - 386							
All ABX Instruments	29	313.5	13.1	4.2	314	235 - 392							
All COULTER Instruments	43	305.7	14.0	4.6	305	229 - 383							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	310.8	12.7	4.1	314	233 - 389							
ABX Diagnostics Pentra 80 / XL 80	13	316.8	13.4	4.2	314	237 - 396							
COULTER AcT 5diff (version 2.01)	38	303.8	13.3	4.4	304	227 - 380							

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

Specimen BCX-6							Specimen BCX-7						
<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	72	41.29	5.28	12.8	41.4	25.4 - 57.2	73	41.23	4.84	11.7	40.6	26.6 - 55.8	
All ABX Instruments	29	41.88	6.87	16.4	42.7	21.2 - 62.5	29	42.73	4.98	11.7	42.9	27.7 - 57.7	
All COULTER Instruments	43	40.52	4.86	12.0	41.0	25.9 - 55.2	43	40.24	4.60	11.4	40.4	26.4 - 54.1	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	46.04	4.33	9.4	45.8	33.0 - 59.1	16	45.24	4.00	8.9	45.7	33.2 - 57.3	
ABX Diagnostics Pentra 80 / XL 80	13	38.65	4.59	11.9	38.2	24.8 - 52.5	13	39.64	4.38	11.0	39.4	26.5 - 52.8	
COULTER AcT 5diff (version 2.01)	38	41.12	4.44	10.8	41.4	27.8 - 54.5	38	40.73	4.05	9.9	40.5	28.5 - 52.9	
Specimen BCX-8							Specimen BCX-9						
All Method	72	62.20	4.82	7.7	62.6	47.7 - 76.7	72	68.32	4.80	7.0	68.4	53.9 - 82.8	
All ABX Instruments	29	63.67	5.37	8.4	62.9	47.5 - 79.8	28	72.01	3.97	5.5	71.2	60.1 - 84.0	
All COULTER Instruments	42	61.24	4.23	6.9	62.1	48.5 - 74.0	42	66.15	3.49	5.3	67.0	55.6 - 76.7	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	65.83	4.53	6.9	66.6	52.2 - 79.5	16	73.68	3.63	4.9	75.0	62.7 - 84.6	
ABX Diagnostics Pentra 80 / XL 80	13	61.02	5.26	8.6	62.5	45.2 - 76.9	13	68.78	4.82	7.0	69.3	54.3 - 83.3	
COULTER AcT 5diff (version 2.01)	38	61.53	4.16	6.8	62.3	49.0 - 74.0	38	66.41	3.44	5.2	67.5	56.0 - 76.8	
Specimen BCX-10													
All Method	73	48.56	4.85	10.0	48.7	34.0 - 63.2							
All ABX Instruments	29	50.26	4.92	9.8	50.5	35.4 - 65.1							
All COULTER Instruments	43	47.42	4.57	9.6	47.9	33.7 - 61.2							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	52.86	3.73	7.1	52.0	41.6 - 64.1							
ABX Diagnostics Pentra 80 / XL 80	13	47.05	4.36	9.3	47.6	33.9 - 60.2							
COULTER AcT 5diff (version 2.01)	38	48.06	3.93	8.2	49.1	36.2 - 59.9							

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

Specimen BCX-6							Specimen BCX-7						
<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	73	47.47	5.69	12.0	46.3	30.4 - 64.6	73	47.11	5.16	11.0	45.7	31.6 - 62.6	
All ABX Instruments	29	49.92	6.20	12.4	50.0	31.3 - 68.6	29	49.56	5.15	10.4	49.2	34.0 - 65.1	
All COULTER Instruments	42	45.35	3.98	8.8	44.2	33.4 - 57.3	42	45.10	3.96	8.8	44.8	33.2 - 57.0	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	46.36	5.09	11.0	45.7	31.0 - 61.7	16	46.81	4.01	8.6	46.3	34.7 - 58.9	
ABX Diagnostics Pentra 80 / XL 80	13	54.31	4.43	8.2	54.7	41.0 - 67.6	13	52.94	4.40	8.3	53.8	39.7 - 66.2	
COULTER AcT 5diff (version 2.01)	38	44.88	3.76	8.4	43.6	33.5 - 56.2	38	44.68	3.59	8.0	44.7	33.8 - 55.5	
Specimen BCX-8							Specimen BCX-9						
All Method	71	24.64	4.89	19.8	23.4	9.9 - 39.4	71	20.36	3.49	17.1	19.2	9.9 - 30.9	
All ABX Instruments	29	27.87	5.46	19.6	28.0	11.5 - 44.3	28	21.99	3.64	16.6	22.7	11.0 - 33.0	
All COULTER Instruments	42	22.86	4.31	18.9	21.7	9.9 - 35.9	42	19.30	3.01	15.6	18.0	10.2 - 28.4	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	25.37	4.04	15.9	24.5	13.2 - 37.5	16	20.38	3.43	16.9	19.0	10.0 - 30.7	
ABX Diagnostics Pentra 80 / XL 80	13	30.95	5.52	17.8	30.7	14.3 - 47.5	13	25.18	4.63	18.4	24.8	11.2 - 39.1	
COULTER AcT 5diff (version 2.01)	38	22.51	4.20	18.6	21.3	9.9 - 35.2	38	18.92	2.69	14.2	17.9	10.8 - 27.0	
Specimen BCX-10													
All Method	72	39.54	4.54	11.5	38.1	25.9 - 53.2							
All ABX Instruments	29	42.33	4.89	11.6	42.5	27.6 - 57.1							
All COULTER Instruments	42	37.75	3.68	9.8	36.8	26.7 - 48.9							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	39.77	3.51	8.8	39.7	29.2 - 50.3							
ABX Diagnostics Pentra 80 / XL 80	13	45.48	4.57	10.0	45.8	31.7 - 59.2							
COULTER AcT 5diff (version 2.01)	38	37.28	3.33	8.9	36.7	27.2 - 47.3							

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

Specimen BCX-6							Specimen BCX-7						
<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	73	3.37	1.62	48.0	2.9	0.0 - 8.3	73	3.15	1.52	48.1	2.8	0.0 - 7.8	
All ABX Instruments	29	2.86	1.38	48.3	2.5	0.0 - 7.0	29	2.66	1.30	48.9	2.3	0.0 - 6.6	
All COULTER Instruments	43	3.71	1.71	46.0	3.7	0.0 - 8.9	43	3.50	1.59	45.4	3.5	0.0 - 8.3	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	3.30	1.57	47.6	2.8	0.0 - 8.1	16	2.81	1.39	49.3	2.4	0.0 - 7.0	
ABX Diagnostics Pentra 80 / XL 80	13	2.32	0.88	38.2	2.3	0.0 - 5.0	13	2.47	1.21	49.1	2.3	0.0 - 6.2	
COULTER AcT 5diff (version 2.01)	38	3.97	1.61	40.6	3.9	0.0 - 8.9	38	3.75	1.49	39.9	3.8	0.0 - 8.3	
Specimen BCX-8							Specimen BCX-9						
All Method	73	1.48	0.96	64.9	1.2	0.0 - 4.4	71	1.31	0.82	62.6	1.1	0.0 - 3.8	
All ABX Instruments	29	1.17	0.78	66.7	0.9	0.0 - 3.5	29	1.06	0.65	61.1	0.8	0.0 - 3.1	
All COULTER Instruments	43	1.69	1.03	60.6	1.5	0.0 - 4.8	42	1.55	0.97	62.4	1.4	0.0 - 4.5	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	1.23	0.98	79.3	0.9	0.0 - 4.2	16	1.22	0.77	63.4	1.1	0.0 - 3.6	
ABX Diagnostics Pentra 80 / XL 80	13	1.08	0.45	41.9	1.0	0.0 - 2.5	13	0.87	0.41	46.8	0.7	0.0 - 2.1	
COULTER AcT 5diff (version 2.01)	38	1.81	1.02	56.6	1.7	0.0 - 4.9	37	1.69	0.96	56.8	1.5	0.0 - 4.6	
Specimen BCX-10													
All Method	71	2.37	1.24	52.1	2.1	0.0 - 6.1							
All ABX Instruments	29	1.93	0.79	41.0	1.8	0.0 - 4.3							
All COULTER Instruments	43	2.87	1.61	56.0	2.7	0.0 - 7.7							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	2.13	0.86	40.2	2.2	0.0 - 4.7							
ABX Diagnostics Pentra 80 / XL 80	13	1.68	0.65	38.7	1.8	0.0 - 3.7							
COULTER AcT 5diff (version 2.01)	38	3.07	1.59	51.7	2.9	0.0 - 7.9							

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

Specimen BCX-6							Specimen BCX-7						
<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	3.99	0.64	15.9	4.1	2.0 - 6.0	71	4.03	0.72	17.8	4.1	1.8 - 6.2	
All ABX Instruments	27	4.21	0.68	16.1	4.2	2.1 - 6.3	29	4.52	0.90	19.9	4.4	1.8 - 7.3	
All COULTER Instruments	43	3.87	0.58	15.1	3.9	2.1 - 5.7	43	3.84	0.68	17.8	4.0	1.7 - 5.9	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	4.66	0.90	19.3	4.4	1.9 - 7.4	16	4.78	0.96	20.2	4.5	1.8 - 7.7	
ABX Diagnostics Pentra 80 / XL 80	13	3.92	0.64	16.3	3.9	2.0 - 5.9	13	4.21	0.73	17.4	4.3	2.0 - 6.5	
COULTER AcT 5diff (version 2.01)	38	3.91	0.58	14.9	4.0	2.1 - 5.7	38	3.88	0.70	18.0	4.0	1.7 - 6.0	
Specimen BCX-8							Specimen BCX-9						
All Method	72	6.33	1.40	22.1	6.3	2.1 - 10.6	73	3.92	0.60	15.3	3.9	2.1 - 5.8	
All ABX Instruments	29	6.32	1.46	23.0	6.4	1.9 - 10.7	29	4.19	0.62	14.8	4.2	2.3 - 6.1	
All COULTER Instruments	42	6.32	1.39	22.0	6.3	2.1 - 10.6	43	3.77	0.50	13.3	3.8	2.2 - 5.3	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	6.55	1.42	21.6	6.6	2.2 - 10.9	16	4.27	0.49	11.6	4.3	2.7 - 5.8	
ABX Diagnostics Pentra 80 / XL 80	13	6.05	1.51	25.0	6.3	1.5 - 10.6	13	4.09	0.76	18.6	4.1	1.8 - 6.4	
COULTER AcT 5diff (version 2.01)	37	6.31	1.43	22.6	6.3	2.0 - 10.6	38	3.75	0.49	13.1	3.8	2.2 - 5.3	
Specimen BCX-10													
All Method	73	4.93	0.81	16.5	4.8	2.4 - 7.4							
All ABX Instruments	29	4.93	0.76	15.4	4.7	2.6 - 7.3							
All COULTER Instruments	43	4.95	0.86	17.3	4.9	2.3 - 7.6							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	4.93	0.71	14.4	4.7	2.7 - 7.1							
ABX Diagnostics Pentra 80 / XL 80	13	4.93	0.85	17.2	5.1	2.3 - 7.5							
COULTER AcT 5diff (version 2.01)	38	4.94	0.85	17.3	4.9	2.3 - 7.5							

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

Specimen BCX-6							Specimen BCX-7						
<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	73	3.95	2.92	73.9	5.8	0.0 - 12.7	73	4.42	3.24	73.3	6.6	0.0 - 14.2	
All ABX Instruments	27	0.31	0.03	8.7	0.3	0.2 - 0.4	28	0.37	0.06	16.6	0.4	0.1 - 0.6	
All COULTER Instruments	42	6.14	0.35	5.7	6.1	5.0 - 7.2	42	6.91	0.37	5.4	6.9	5.7 - 8.1	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	15	0.30	0.00	0.0	0.3	0.3 - 0.3	16	0.37	0.05	13.0	0.4	0.2 - 0.6	
ABX Diagnostics Pentra 80 / XL 80	12	0.33	0.06	19.1	0.3	0.1 - 0.6	12	0.37	0.08	21.2	0.4	0.1 - 0.7	
COULTER AcT 5diff (version 2.01)	37	6.12	0.33	5.4	6.1	5.1 - 7.2	37	6.91	0.33	4.7	6.9	5.9 - 7.9	
Specimen BCX-8							Specimen BCX-9						
All Method	73	5.04	3.70	73.4	7.6	0.0 - 16.2	73	5.79	4.25	73.4	8.9	0.0 - 18.6	
All ABX Instruments	28	0.40	0.00	0.0	0.4	0.4 - 0.4	28	0.45	0.05	11.3	0.5	0.2 - 0.7	
All COULTER Instruments	42	7.90	0.33	4.2	7.9	6.9 - 8.9	42	9.09	0.25	2.8	9.1	8.3 - 9.9	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	0.40	0.00	0.0	0.4	0.4 - 0.4	16	0.46	0.05	10.8	0.5	0.3 - 0.7	
ABX Diagnostics Pentra 80 / XL 80	12	0.40	0.00	0.0	0.4	0.4 - 0.4	12	0.43	0.05	11.4	0.4	0.2 - 0.6	
COULTER AcT 5diff (version 2.01)	37	7.90	0.34	4.3	7.9	6.8 - 9.0	37	9.11	0.25	2.8	9.1	8.3 - 9.9	
Specimen BCX-10													
All Method	73	4.22	3.11	73.7	6.4	0.0 - 13.6							
All ABX Instruments	27	0.31	0.04	11.5	0.3	0.2 - 0.5							
All COULTER Instruments	42	6.61	0.31	4.7	6.7	5.6 - 7.6							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	0.32	0.04	12.6	0.3	0.1 - 0.5							
ABX Diagnostics Pentra 80 / XL 80	12	0.33	0.06	19.1	0.3	0.1 - 0.6							
COULTER AcT 5diff (version 2.01)	37	6.59	0.28	4.2	6.6	5.7 - 7.5							

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

Specimen MX-6							Specimen MX-7						
<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	37	22.51	1.02	4.6	22.3	19.1 - 25.9	38	3.93	0.11	2.9	3.9	3.3 - 4.6	
All Sysmex Instruments	37	22.51	1.02	4.6	22.3	19.1 - 25.9	38	3.93	0.11	2.9	3.9	3.3 - 4.6	
Sysmex XS-1000i	22	22.94	1.07	4.7	22.7	19.4 - 26.4	22	3.99	0.10	2.4	4.0	3.3 - 4.6	
Specimen MX-8							Specimen MX-9						
All Method	38	7.84	0.23	2.9	7.9	6.6 - 9.1	38	18.32	0.76	4.1	18.2	15.5 - 21.1	
All Sysmex Instruments	38	7.84	0.23	2.9	7.9	6.6 - 9.1	38	18.32	0.76	4.1	18.2	15.5 - 21.1	
Sysmex XS-1000i	22	7.95	0.17	2.2	7.9	6.7 - 9.2	22	18.61	0.77	4.1	18.4	15.8 - 21.5	
Specimen MX-10													
All Method	38	3.94	0.12	3.2	4.0	3.3 - 4.6							
All Sysmex Instruments	38	3.94	0.12	3.2	4.0	3.3 - 4.6							
Sysmex XS-1000i	22	4.00	0.10	2.4	4.0	3.4 - 4.6							

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

Specimen MX-6							Specimen MX-7					
<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	38	6.826	0.114	1.7	6.84	6.41 - 7.24	38	2.517	0.052	2.1	2.51	2.36 - 2.67
All Sysmex Instruments	38	6.826	0.114	1.7	6.84	6.41 - 7.24	38	2.517	0.052	2.1	2.51	2.36 - 2.67
Sysmex XS-1000i	22	6.850	0.106	1.6	6.86	6.43 - 7.27	22	2.489	0.037	1.5	2.50	2.33 - 2.64
Specimen MX-8							Specimen MX-9					
All Method	38	4.710	0.059	1.2	4.71	4.42 - 5.00	37	5.599	0.072	1.3	5.60	5.26 - 5.94
All Sysmex Instruments	38	4.710	0.059	1.2	4.71	4.42 - 5.00	37	5.599	0.072	1.3	5.60	5.26 - 5.94
Sysmex XS-1000i	22	4.694	0.050	1.1	4.70	4.41 - 4.98	21	5.620	0.050	0.9	5.62	5.28 - 5.96
Specimen MX-10												
All Method	38	2.521	0.053	2.1	2.52	2.37 - 2.68						
All Sysmex Instruments	38	2.521	0.053	2.1	2.52	2.37 - 2.68						
Sysmex XS-1000i	22	2.492	0.030	1.2	2.49	2.34 - 2.65						

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

Specimen MX-6							Specimen MX-7						
<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	38	21.59	0.23	1.1	21.6	20.0 - 23.2	38	6.16	0.10	1.6	6.2	5.7 - 6.6	
All Sysmex Instruments	38	21.59	0.23	1.1	21.6	20.0 - 23.2	38	6.16	0.10	1.6	6.2	5.7 - 6.6	
Sysmex XS-1000i	22	21.63	0.22	1.0	21.6	20.1 - 23.2	22	6.13	0.10	1.6	6.1	5.7 - 6.6	
Specimen MX-8							Specimen MX-9						
All Method	38	13.46	0.12	0.9	13.4	12.5 - 14.5	37	17.69	0.22	1.3	17.7	16.4 - 19.0	
All Sysmex Instruments	38	13.46	0.12	0.9	13.4	12.5 - 14.5	37	17.69	0.22	1.3	17.7	16.4 - 19.0	
Sysmex XS-1000i	22	13.44	0.13	1.0	13.4	12.5 - 14.4	21	17.79	0.14	0.8	17.8	16.5 - 19.1	
Specimen MX-10													
All Method	37	6.15	0.08	1.4	6.2	5.7 - 6.6							
All Sysmex Instruments	37	6.15	0.08	1.4	6.2	5.7 - 6.6							
Sysmex XS-1000i	21	6.11	0.08	1.3	6.1	5.6 - 6.6							

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

Specimen MX-6							Specimen MX-7						
<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	37	62.83	1.43	2.3	62.9	59.0 - 66.7	38	18.84	0.46	2.4	18.8	17.7 - 20.0	
All Sysmex Instruments	37	62.83	1.43	2.3	62.9	59.0 - 66.7	38	18.84	0.46	2.4	18.8	17.7 - 20.0	
Sysmex XS-1000i	21	62.65	1.22	1.9	62.4	58.8 - 66.5	22	18.66	0.28	1.5	18.8	17.5 - 19.8	
Specimen MX-8							Specimen MX-9						
All Method	38	39.81	0.73	1.8	39.8	37.4 - 42.3	38	52.38	1.25	2.4	52.5	49.2 - 55.6	
All Sysmex Instruments	38	39.81	0.73	1.8	39.8	37.4 - 42.3	38	52.38	1.25	2.4	52.5	49.2 - 55.6	
Sysmex XS-1000i	22	39.63	0.63	1.6	39.5	37.2 - 42.1	21	52.28	0.86	1.7	52.5	49.1 - 55.5	
Specimen MX-10													
All Method	38	18.86	0.46	2.4	18.7	17.7 - 20.0							
All Sysmex Instruments	38	18.86	0.46	2.4	18.7	17.7 - 20.0							
Sysmex XS-1000i	22	18.65	0.23	1.2	18.6	17.5 - 19.8							

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

Specimen MX-6							Specimen MX-7						
<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	38	376.0	17.0	4.5	376	282 - 470	38	64.7	5.3	8.3	64	48 - 81	
All Sysmex Instruments	38	376.0	17.0	4.5	376	282 - 470	38	64.7	5.3	8.3	64	48 - 81	
Sysmex XS-1000i	22	377.6	11.7	3.1	378	283 - 472	22	64.0	3.4	5.3	64	48 - 80	
Specimen MX-8							Specimen MX-9						
All Method	37	224.6	8.6	3.8	227	168 - 281	38	409.5	18.1	4.4	409	307 - 512	
All Sysmex Instruments	37	224.6	8.6	3.8	227	168 - 281	38	409.5	18.1	4.4	409	307 - 512	
Sysmex XS-1000i	21	226.4	4.2	1.9	228	169 - 283	22	411.9	12.1	2.9	410	308 - 515	
Specimen MX-10													
All Method	38	65.1	5.9	9.0	65	48 - 82							
All Sysmex Instruments	38	65.1	5.9	9.0	65	48 - 82							
Sysmex XS-1000i	22	64.5	4.0	6.2	64	48 - 81							

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

Specimen MX-6							Specimen MX-7						
<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	37	57.71	5.37	9.3	59.9	41.6 - 73.9	38	61.41	5.69	9.3	59.0	44.3 - 78.5	
All Sysmex Instruments	37	57.71	5.37	9.3	59.9	41.6 - 73.9	38	61.41	5.69	9.3	59.0	44.3 - 78.5	
Sysmex XS-1000i													
Specimen MX-8							Specimen MX-9						
All Method	38	50.39	3.96	7.9	48.2	38.5 - 62.3	37	57.61	5.23	9.1	60.1	41.9 - 73.4	
All Sysmex Instruments	38	50.39	3.96	7.9	48.2	38.5 - 62.3	37	57.61	5.23	9.1	60.1	41.9 - 73.4	
Sysmex XS-1000i	21	46.99	0.95	2.0	46.9	44.1 - 49.9	21	55.45	6.14	11.1	52.1	37.0 - 73.9	
Specimen MX-10													
All Method	38	61.57	5.69	9.2	58.9	44.5 - 78.7							
All Sysmex Instruments	38	61.57	5.69	9.2	58.9	44.5 - 78.7							
Sysmex XS-1000i	21	56.75	1.58	2.8	56.9	52.0 - 61.5							

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

Specimen MX-6							Specimen MX-7						
<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	38	21.51	3.39	15.7	21.8	11.3 - 31.7	38	15.47	2.15	13.9	15.8	9.0 - 22.0	
All Sysmex Instruments	38	21.51	3.39	15.7	21.8	11.3 - 31.7	38	15.47	2.15	13.9	15.8	9.0 - 22.0	
Sysmex XS-1000i	22	21.64	4.31	19.9	24.3	8.7 - 34.6	22	15.15	2.37	15.7	16.2	8.0 - 22.3	
Specimen MX-8							Specimen MX-9						
All Method	38	27.53	3.59	13.0	27.8	16.7 - 38.3	38	21.36	3.28	15.3	21.6	11.5 - 31.2	
All Sysmex Instruments	38	27.53	3.59	13.0	27.8	16.7 - 38.3	38	21.36	3.28	15.3	21.6	11.5 - 31.2	
Sysmex XS-1000i	22	27.68	4.59	16.6	30.5	13.9 - 41.5	22	21.70	4.13	19.0	24.3	9.3 - 34.1	
Specimen MX-10													
All Method	38	15.16	1.97	13.0	15.8	9.2 - 21.1							
All Sysmex Instruments	38	15.16	1.97	13.0	15.8	9.2 - 21.1							
Sysmex XS-1000i	22	15.14	2.25	14.9	16.0	8.3 - 21.9							

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

Specimen MX-6							Specimen MX-7					
<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	38	4.17	1.85	44.3	3.9	0.0 - 9.8	38	2.42	1.40	57.8	2.0	0.0 - 6.7
All Sysmex Instruments	38	4.17	1.85	44.3	3.9	0.0 - 9.8	38	2.42	1.40	57.8	2.0	0.0 - 6.7
Sysmex XS-1000i	22	4.02	2.16	53.8	2.8	0.0 - 10.6	22	2.63	1.72	65.5	1.5	0.0 - 7.8
Specimen MX-8							Specimen MX-9					
All Method	38	5.08	2.55	50.2	4.8	0.0 - 12.8	38	4.23	1.83	43.4	4.0	0.0 - 9.8
All Sysmex Instruments	38	5.08	2.55	50.2	4.8	0.0 - 12.8	38	4.23	1.83	43.4	4.0	0.0 - 9.8
Sysmex XS-1000i	22	5.02	3.20	63.8	3.0	0.0 - 14.7	22	4.01	2.23	55.5	2.8	0.0 - 10.8
Specimen MX-10												
All Method	37	2.47	1.28	51.8	2.0	0.0 - 6.4						
All Sysmex Instruments	37	2.47	1.28	51.8	2.0	0.0 - 6.4						
Sysmex XS-1000i	22	2.52	1.59	63.1	1.7	0.0 - 7.3						

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

Specimen MX-6							Specimen MX-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	36	13.32	1.04	7.8	13.4	10.1 - 16.5	38	17.10	5.28	30.9	15.4	1.2 - 33.0
All Sysmex Instruments	36	13.32	1.04	7.8	13.4	10.1 - 16.5	38	17.10	5.28	30.9	15.4	1.2 - 33.0
Sysmex XS-1000i	21	12.94	1.18	9.1	13.1	9.4 - 16.5	22	18.74	6.38	34.0	15.3	0.0 - 37.9
Specimen MX-8							Specimen MX-9					
All Method	38	14.12	3.57	25.3	12.7	3.4 - 24.9	35	13.55	0.79	5.9	13.3	11.1 - 16.0
All Sysmex Instruments	38	14.12	3.57	25.3	12.7	3.4 - 24.9	35	13.55	0.79	5.9	13.3	11.1 - 16.0
Sysmex XS-1000i	22	15.39	4.13	26.8	12.6	3.0 - 27.8	19	13.01	0.39	3.0	13.0	11.8 - 14.2
Specimen MX-10												
All Method	38	17.10	5.40	31.6	15.3	0.9 - 33.3						
All Sysmex Instruments	38	17.10	5.40	31.6	15.3	0.9 - 33.3						
Sysmex XS-1000i	22	18.87	6.37	33.8	15.5	0.0 - 38.0						

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

Specimen MX-6							Specimen MX-7					
<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	81.31	3.75	4.6	8.8	70.0 - 92.6	15	82.20	0.94	1.1	10.1	79.3 - 85.1
All Sysmex XS/XN Instruments	23	5.04	4.06	80.6	7.5	0.0 - 17.3	23	5.81	4.59	79.0	8.3	0.0 - 19.6
All Sysmex XT/XE Instruments	15	81.31	3.75	4.6	80.3	70.0 - 92.6	15	82.20	0.94	1.1	82.0	79.3 - 85.1
Sysmex XS-1000i	22	5.27	4.01	76.1	7.6	0.0 - 17.3	22	6.06	4.53	74.8	8.4	0.0 - 19.7
Specimen MX-8							Specimen MX-9					
All Method	15	68.62	0.84	1.2	7.8	66.0 - 71.2	15	79.55	2.81	3.5	9.2	71.1 - 88.0
All Sysmex XS/XN Instruments	23	4.56	3.66	80.3	6.9	0.0 - 15.6	23	5.16	4.20	81.4	7.6	0.0 - 17.8
All Sysmex XT/XE Instruments	15	68.62	0.84	1.2	68.8	66.0 - 71.2	15	79.55	2.81	3.5	79.2	71.1 - 88.0
Sysmex XS-1000i	22	4.75	3.62	76.3	6.9	0.0 - 15.7	22	5.39	4.14	76.9	7.6	0.0 - 17.9
Specimen MX-10												
All Method	15	82.12	1.06	1.3	9.8	78.9 - 85.3						
All Sysmex XS/XN Instruments	23	5.75	4.51	78.5	7.9	0.0 - 19.3						
All Sysmex XT/XE Instruments	15	82.12	1.06	1.3	81.9	78.9 - 85.3						
Sysmex XS-1000i	22	6.00	4.46	74.3	8.4	0.0 - 19.4						

CASE HISTORY:

An 82-year-old female presented to her family physician following a dental exam. The dentist referred the patient after observing her inflamed, sore tongue and bleeding gums during the cleaning. The patient appeared pale and thin. She reported feeling generally well, except for having frequent episodes of gastritis and occasional diarrhea, which has been going on for the past several years. To prevent indigestion, she eats a bland diet, avoiding meat and most dairy products. A CBC was performed, and significant results appear below.

Test	Results	Normal Range
WBC	$2.6 \times 10^9/\text{L}$	$4.5 - 15.0 \times 10^9/\text{L}$
RBC	$2.5 \times 10^{12}/\text{L}$	$4.0 - 5.4 \times 10^{12}/\text{L}$
HGB	10.0 g/dL	12.0 - 15.0 g/dL
HCT	31.0 %	35 - 49 %
PLT	$95 \times 10^9/\text{L}$	$150 - 450 \times 10^9/\text{L}$
MCV	124 fL	80 - 94 fL
MCH	40 pg	26 - 32 pg
MCHC	32 g/dL	32 - 36 g/dL
RDW	18 %	11.5 - 14.5 %

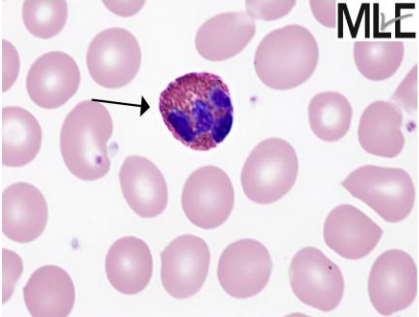
This patient was diagnosed with megaloblastic anemia due to vitamin B12 deficiency. Megaloblastic anemia (sometimes called pernicious anemia) is named after the giant abnormal erythroid precursor cells found in the bone marrow. Vitamin B12 (cobalamin) and folic acid are essential for normal DNA synthesis and neurologic function. Megaloblastic erythropoiesis results from defective DNA synthesis.

In the U.S., fortification of food products has made folate deficiency very rare, so most cases are due to B12 deficiency. Vitamin B12 must be absorbed from food, and its primary sources are meat and eggs. B12 nutritional deficiency is most common in the elderly, chronic alcoholics, and strict vegans. Megaloblastic anemia can also be caused by inadequate absorption or metabolism of the nutrient. Causes of B12 malabsorption include gastrointestinal disorders, fish tapeworm, genetic disorders, and interfering drugs.

It is crucial for clinicians to recognize oral changes (*e.g.*, *glossitis*) and other early signs (*e.g.*, *macrocytosis*) so that B12 replacement therapy can be initiated before irreversible neurologic effects occur. Initial neurologic signs include posterior column signs, followed by gait disturbances, vision problems, delirium, and dementia. Oval macrocytes and basophilic stippling are the hallmarks of megaloblastic anemia in the red blood cells. Typical laboratory findings in megaloblastic anemia include: pancytopenia, macrocytic/ normochromic anemia with oval macrocytes having an MCV >115 fl, neutropenia with hypersegmentation, anisocytosis, poikilocytosis and increased serum bilirubin and lactate dehydrogenase (LDH).

BLOOD CELL IDENTIFICATION

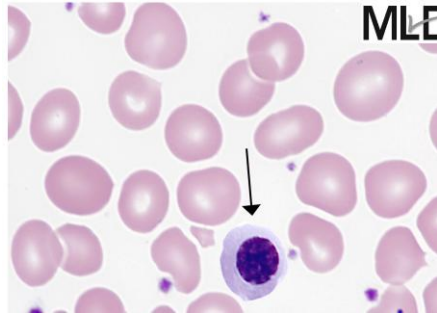
Specimen BC-7



The arrow in this photograph points to an **eosinophil**. “Eos” are easily identified by their characteristic red-orange color, imparted by the dye eosin. The cytoplasm of an eosinophil is filled with coarse, red-orange granules, which surround the nucleus but do not obscure it. Eos typically have two-lobed nuclei, but this one, characteristic of megaloblastic anemia, contains four lobes. To view another photo of an eosinophil, see 2012 M2 Specimen BC-11.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Eosinophil, any stage	259	98.85%	Acceptable

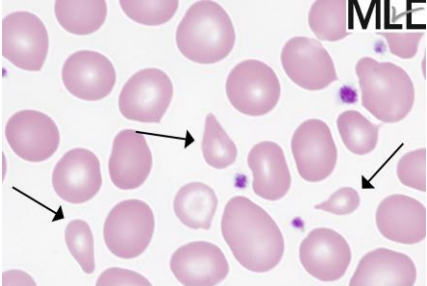
Specimen BC-8



The arrow in this photograph points to a **nucleated red blood cell (NRBC)**. These immature erythrocytes are not normally seen in the peripheral blood of healthy adults. Mature RBCs eject their nuclei before they leave the bone marrow and enter the peripheral blood stream. The presence of NRBCs is a sign of bone marrow activity in response to decreased RBC production or increased destruction. To view another photo of a nucleated red cell, see 2011 M1 Specimen BC-6.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Nucleated red cell	246	93.89%	Acceptable
Immature/abnormal cell – refer	3	1.15%	Acceptable
Lymphocyte	7	2.67%	

Specimen BC-9

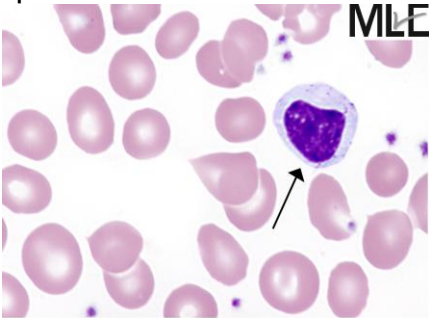


The arrows in this photograph point to **teardrop cells**. Also called dacrocytes, these cells are associated with spleen or bone marrow abnormalities. These pear-shaped cells have a short projection on one side that narrows, terminating in a point. Beware of teardrop cells that all point in the same direction- they are probably not really teardrop cells, but an artifact of slide preparation. To view another photo of teardrop cells, see 2009 M2 Specimen BC-9.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Tear-drop cell	260	99.24%	Acceptable

BLOOD CELL IDENTIFICATION

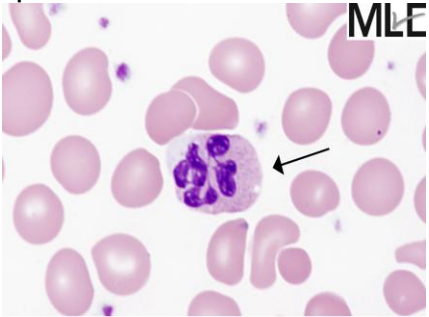
Specimen BC-10



The arrow in this photograph points to a large **lymphocyte**. This lymph has more cytoplasm than the small, resting lymph seen in BC-12, however it is not a reactive lymph. Its nucleus is eccentric (off-center) and round to oval in shape, and may be indented. The nuclear chromatin is condensed. The cytoplasm is pale blue. To view a photo and description of a reactive lymphocyte, see 2010 M1 Specimen BC-2. This challenge was graded by 80% referee consensus.

Identification	Labs	Percent	Performance
Lymphocyte	156	60.00%	Acceptable
Lymphocyte, reactive	93	35.77%	
Monocyte	6	2.31%	

Specimen BC-11

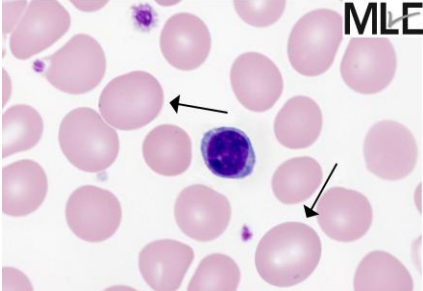


The arrow in this photograph points to a **hypersegmented neutrophil**. Normal neutrophil nuclei are divided into 5 or fewer distinct segments or lobes, connected by a thin filament of chromatin. Neutrophils having six or more segments are called hypersegmented. These cells are strongly associated with megaloblastic anemias. Hypersegmented neutrophils will show up in the peripheral blood before macrocytes are noticeable. To view another photo of a hypersegmented neutrophil, see 2008 M3 Specimen BC-15.

Identification	Labs	Percent	Performance
Hypersegmented neutrophil	255	97.33%	Acceptable

BLOOD CELL IDENTIFICATION

Specimen BC-12



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Macrocyte	250	95.42%	Not graded
Howell-Jolly body	5	1.91%	

The arrows in this ungraded educational challenge point to **macrocytes**. Macrocytes are abnormally large red blood cells having a MCV greater than 100 fl, and may be seen in round or oval forms. Also called macro-ovalocytes, the oval form is associated with vitamin B12 and folate deficiencies, as well as alcoholism, chronic infection, and toxicity/chemotherapy. Round macrocytes are commonly seen in a variety of chronic illnesses, and round target-appearing macrocytes are characteristic of liver disease. Normal red blood cells are about the same size as the nucleus of a small, mature, resting (non-reactive) lymphocyte. The arrowed cells are much larger than the nucleus of the lymphocyte in the same field. The oval forms pictured here should not be reported as elliptocytes/ovalocytes. The abnormal size, macrocytosis, is the clinically significant aspect of these cells. These macrocytes are larger and rounder than regular ovalocytes/elliptocytes. The term ovalocyte or elliptocyte is reserved for normal-sized oval red cells, which tend to be more elongated than the oval macrocyte. To view another photo of oval macrocytes, see 2008 M3 Specimen BC-16.

References:

Henderson, L. H.: *The POL Microscopy Atlas*. 2nd ed. American Academy of Family Physicians, Leawood KS, 2003.

Rodak, B. F.: *Hematology: Clinical Principles and Applications*. 3rd ed. W. B. Saunders, Philadelphia, 2007.

Schrier, S. L. "Anemia: Production Defects." *ACP Medicine*. Ed. D. C. Dale. New York: WebMD, Inc., 2004. 1081-1084.

Aslinia, F., Mazza, J.J., Yale, S.H. "Megaloblastic Anemia and Other Causes of Macrocytosis." *Clinical Medicine & Research*. September 1, 2006 vol. 4 no. 3 236-241.
Available at: <http://www.clinmedres.org/content/4/3/236.full>

BLOOD BANK

ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-6	Group B	9	100%	Acceptable
BB-7	Group O	9	100%	Acceptable
BB-8	Group O	9	100%	Acceptable
BB-9	Group A	9	100%	Acceptable
BB-10	Group AB	9	100%	Acceptable

RH FACTOR (D TYPE)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-6	Rh Positive	13	100%	Acceptable
BB-7	Rh Negative	13	100%	Acceptable
BB-8	Rh Positive	13	100%	Acceptable
BB-9	Rh Negative	13	100%	Acceptable
BB-10	Rh Positive	13	100%	Acceptable

UNEXPECTED ANTIBODY DETECTION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-6	Unexpected antibody detected	9	100%	Acceptable
AB-7	No unexpected antibody detected	9	100%	Acceptable
AB-8	No unexpected antibody detected	9	100%	Acceptable
AB-9	No unexpected antibody detected	9	100%	Acceptable
AB-10	Unexpected antibody detected	9	100%	Acceptable

BLOOD BANK

ANTIBODY IDENTIFICATION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-6	Anti-S	1	50.00%	Not graded
	Other antibody not listed	1	50.00%	
AB-7	No antibody detected	1	100%	Acceptable
AB-8	No antibody detected	1	100%	Acceptable
AB-9	No antibody detected	1	100%	Acceptable
AB-10	Anti-D	1	50.00%	Not graded
	Other antibody not listed	1	50.00%	

Specimens AB-6 and AB-10 are not graded due to less than 95% consensus.

COMPATIBILITY TESTING

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-6	Not Compatible	7	100%	Acceptable
AB-7	Compatible	7	100%	Acceptable
AB-8	Compatible	7	100%	Acceptable
AB-9	Compatible	7	100%	Acceptable
AB-10	Compatible	7	100%	Acceptable

PROTHROMBIN TIME (seconds)

Specimen CG-6							Specimen CG-7					
<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	66	40.51	7.95	19.6	42.6	34.4 - 46.6	64	10.88	0.70	6.4	11.0	9.2 - 12.6
Dade Innovin												
Dade Behring BFT II	5	47.08	3.04	6.4	46.2	40.0 - 54.2	5	9.42	0.26	2.7	9.3	8.0 - 10.9
Sysmex CA-500/540/560	26	44.16	2.54	5.8	44.1	37.5 - 50.8	26	10.70	0.34	3.2	10.7	9.0 - 12.4
All Coagulation Instruments	35	44.62	2.71	6.1	44.2	37.9 - 51.4	35	10.49	0.57	5.4	10.6	8.9 - 12.1
IL TEST PT Fibrinogen												
IL ACL, all models	17	31.68	1.63	5.2	32.0	26.9 - 36.5	17	11.56	0.34	3.0	11.6	9.8 - 13.3
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	31.98	2.70	8.4	31.2	27.1 - 36.8	5	10.92	0.79	7.2	11.0	9.2 - 12.6
Specimen CG-8							Specimen CG-9					
All Method	64	13.63	0.66	4.8	13.7	11.5 - 15.7	64	11.03	0.68	6.2	11.0	9.3 - 12.7
Dade Innovin												
Dade Behring BFT II	5	12.98	0.41	3.2	12.9	11.0 - 15.0	5	9.78	0.30	3.1	9.7	8.3 - 11.3
Sysmex CA-500/540/560	25	13.68	0.46	3.4	13.7	11.6 - 15.8	26	10.83	0.34	3.2	10.9	9.2 - 12.5
All Coagulation Instruments	34	13.54	0.51	3.7	13.6	11.5 - 15.6	35	10.66	0.51	4.7	10.8	9.0 - 12.3
IL TEST PT Fibrinogen												
IL ACL, all models	17	13.96	0.33	2.4	13.9	11.8 - 16.1	17	11.74	0.29	2.4	11.7	9.9 - 13.6
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	12.92	0.99	7.7	13.0	10.9 - 14.9	5	10.88	0.77	7.0	11.1	9.2 - 12.6
Specimen CG-10												
All Method	66	25.73	3.96	15.4	26.9	21.8 - 29.6						
Dade Innovin												
Dade Behring BFT II	5	28.90	1.41	4.9	29.0	24.5 - 33.3						
Sysmex CA-500/540/560	26	27.83	1.68	6.0	28.0	23.6 - 32.1						
All Coagulation Instruments	35	28.10	1.68	6.0	28.0	23.8 - 32.4						
IL TEST PT Fibrinogen												
IL ACL, all models	17	21.65	0.67	3.1	21.7	18.4 - 25.0						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	19.96	2.08	10.4	19.9	16.9 - 23.0						

PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)

Specimen CG-6							Specimen CG-7					
<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	67	5.10	1.14	22.3	4.5	4.0 - 6.2	65	1.00	0.05	5.0	1.0	0.8 - 1.3
Dade Innovin												
Dade Behring BFT II	5	4.26	0.35	8.2	4.2	3.4 - 5.2	5	1.02	0.04	4.4	1.0	0.8 - 1.3
Sysmex CA-500/540/560	25	4.28	0.26	6.1	4.3	3.4 - 5.2	25	1.02	0.04	4.0	1.0	0.8 - 1.3
All Coagulation Instruments	34	4.25	0.26	6.2	4.3	3.4 - 5.1	34	1.02	0.04	3.8	1.0	0.8 - 1.3
IL TEST PT Fibrinogen												
IL ACL, all models	17	6.05	0.59	9.7	6.0	4.8 - 7.3	17	0.99	0.06	6.1	1.0	0.7 - 1.2
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	7.00	1.35	19.2	7.4	5.6 - 8.4	5	0.96	0.09	9.3	1.0	0.7 - 1.2
Specimen CG-8							Specimen CG-9					
All Method	65	1.32	0.08	6.1	1.3	1.0 - 1.6	65	1.02	0.05	5.3	1.0	0.8 - 1.3
Dade Innovin												
Dade Behring BFT II	5	1.36	0.09	6.6	1.4	1.0 - 1.7	5	1.06	0.05	5.2	1.1	0.8 - 1.3
Sysmex CA-500/540/560	24	1.30	0.06	4.5	1.3	1.0 - 1.6	25	1.04	0.05	4.7	1.0	0.8 - 1.3
All Coagulation Instruments	33	1.31	0.06	5.0	1.3	1.0 - 1.6	34	1.04	0.05	4.8	1.0	0.8 - 1.3
IL TEST PT Fibrinogen												
IL ACL, all models	17	1.38	0.07	5.3	1.4	1.1 - 1.7	16	1.00	0.04	3.7	1.0	0.8 - 1.2
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	1.32	0.13	9.9	1.3	1.0 - 1.6	5	0.96	0.09	9.3	1.0	0.7 - 1.2
Specimen CG-10												
All Method	67	2.86	0.29	10.3	2.8	2.2 - 3.5						
Dade Innovin												
Dade Behring BFT II	5	2.82	0.19	6.8	2.9	2.2 - 3.4						
Sysmex CA-500/540/560	25	2.69	0.16	6.0	2.7	2.1 - 3.3						
All Coagulation Instruments	34	2.72	0.17	6.2	2.7	2.1 - 3.3						
IL TEST PT Fibrinogen												
IL ACL, all models	17	3.05	0.20	6.5	3.0	2.4 - 3.7						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	3.18	0.43	13.4	3.1	2.5 - 3.9						

ACTIVATED PARTIAL THROMBOPLASTIN (seconds)

<u>Reagent/Instrument</u>	Specimen CG-6						Specimen CG-7					
	<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	73.3	2.4	3.3	73	62 - 85	27	28.7	0.8	2.9	29	24 - 33
Dade Actin FSL												
Sysmex CA-500/540/560	15	74.3	2.3	3.1	75	63 - 86	16	28.8	0.9	3.0	29	24 - 34
All Coagulation Instruments	16	74.4	2.2	3.0	75	63 - 86	17	28.8	0.9	3.1	29	24 - 34
IL TEST APTT-SP												
IL ACL, all models	6	71.2	1.2	1.6	71	60 - 82	6	28.5	0.5	1.9	29	24 - 33
	Specimen CG-8						Specimen CG-9					
	<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	28	34.5	4.9	14.1	32	29 - 40	27	27.3	1.4	5.2	27	23 - 32
Dade Actin FSL												
Sysmex CA-500/540/560	16	31.8	1.2	3.7	32	26 - 37	16	26.6	1.0	3.9	27	22 - 31
All Coagulation Instruments	17	31.8	1.1	3.6	32	26 - 37	17	26.6	1.1	4.0	27	22 - 31
IL TEST APTT-SP												
IL ACL, all models	6	37.0	6.0	16.3	40	31 - 43	6	28.2	0.4	1.4	28	23 - 33
	Specimen CG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	28	51.4	4.0	7.9	51	43 - 60						
Dade Actin FSL												
Sysmex CA-500/540/560	15	51.1	1.1	2.1	51	43 - 59						
All Coagulation Instruments	16	51.2	1.0	2.0	52	43 - 59						
IL TEST APTT-SP												
IL ACL, all models	6	49.2	1.2	2.4	49	41 - 57						

Fibrinogen (mg/dL)

One participant reported Fibrinogen. The vendor assay values for specimens CG-6 through CG-10 are: 262 mg/dL, 534 mg/dL, 108 mg/dL, 316 mg/dL and 307 mg/dL respectively.

RH FACTOR (Slide Method)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
RH-6	Rh Negative	4	100%	Acceptable
RH-7	Rh Positive	4	100%	Acceptable
RH-8	Rh Positive	4	100%	Acceptable
RH-9	Rh Negative	4	100%	Acceptable
RH-10	Rh Negative	4	100%	Acceptable

COAGUCHEK XS PLUS PROTHROMBIN TIME (seconds)

Specimen XS-6							Specimen XS-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	22	33.47	1.04	3.1	33.6	28.4 - 38.5	22	14.51	0.57	3.9	14.6	12.3 - 16.7
Specimen XS-8							Specimen XS-9					
Roche CoaguChek XS Plus	22	24.79	1.57	6.3	25.2	21.0 - 28.6	22	33.25	1.52	4.6	33.3	28.2 - 38.3
Specimen XS-10												
Roche CoaguChek XS Plus	22	14.39	0.52	3.6	14.4	12.2 - 16.6						

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

Specimen XS-6							Specimen XS-7					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	24	2.77	0.09	3.3	2.8	2.2 - 3.4	24	1.20	0.05	4.0	1.2	0.9 - 1.5
Specimen XS-8							Specimen XS-9					
Roche CoaguChek XS Plus	22	2.05	0.13	6.3	2.1	1.6 - 2.5	22	2.76	0.11	4.2	2.8	2.2 - 3.4
Specimen XS-10												
Roche CoaguChek XS Plus	22	1.19	0.04	3.7	1.2	0.9 - 1.5						

ITC PROTIME MICROCOAGULATION SYSTEM PROTHROMBIN TIME (seconds)

Specimen IT-3							Specimen IT-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	11	22.91	2.62	11.5	23.5	19.4 - 26.4	10	36.66	4.30	11.7	37.2	31.1 - 42.2

ITC PROTIME MICROCOAGULATION SYSTEM -INTERNATIONAL NORMALIZED RATIO (INR)

Specimen IT-3							Specimen IT-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	12	1.75	0.21	11.8	1.8	1.4 - 2.1	12	2.80	0.30	10.7	2.8	2.2 - 3.4

i-Stat PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-6				<u>Labs</u>	<u>Mean</u>	Specimen PTI-7			
			<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	11	12.90	1.13	8.8	12.5	10.9 - 14.9	11	12.90	0.93	7.2	12.8	10.9 - 14.9
i-Stat Prothrombin Time	10	12.53	0.46	3.6	12.5	10.6 - 14.5	10	12.64	0.62	4.9	12.4	10.7 - 14.6
			Specimen PTI-8						Specimen PTI-9			
			<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	11	28.40	5.50	19.4	27.0	24.1 - 32.7	11	12.81	0.68	5.3	12.6	10.8 - 14.8
i-Stat Prothrombin Time	10	26.53	1.60	6.0	26.9	22.5 - 30.6	10	12.64	0.52	4.1	12.5	10.7 - 14.6
			Specimen PTI-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	29.08	5.80	19.9	27.5	24.7 - 33.5						
i-Stat Prothrombin Time	10	27.11	1.82	6.7	27.0	23.0 - 31.2						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-6				<u>Labs</u>	<u>Mean</u>	Specimen PTI-7			
			<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	8	1.05	0.08	7.2	1.0	0.8 - 1.3	8	1.06	0.07	7.0	1.1	0.8 - 1.3
i-Stat Prothrombin Time	7	1.03	0.05	4.7	1.0	0.8 - 1.3	7	1.04	0.05	5.1	1.0	0.8 - 1.3
			Specimen PTI-8						Specimen PTI-9			
			<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	8	2.45	0.44	18.1	2.4	1.9 - 3.0	8	1.05	0.05	5.1	1.1	0.8 - 1.3
i-Stat Prothrombin Time	7	2.30	0.14	6.1	2.3	1.8 - 2.8	7	1.04	0.05	5.1	1.0	0.8 - 1.3
			Specimen PTI-10									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	8	2.50	0.47	18.9	2.4	2.0 - 3.0						
i-Stat Prothrombin Time	7	2.34	0.17	7.3	2.3	1.8 - 2.9						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen BF-3				<u>Labs</u>	<u>Mean</u>	Specimen BF-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	10	1430.7	248.9	17.4	1482	932 - 1929	10	0.0	0.0	0.0	0	0 - 0

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen BF-3				<u>Labs</u>	<u>Mean</u>	Specimen BF-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	9	0.0	0.0	0.0	0	0 - 0	10	0.0	0.0	0.0	0	0 - 0

FLUID CELL COUNT/CRYSTALS – CRYSTAL IDENTIFICATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BF-3	Calcium Oxalate Crystals	12	80.00%	Acceptable
	Other, not listed	3	20.00%	
BF-4	CPPD Crystals	9	60.00%	Not graded
	MSU (Monosodium Urate)	2	13.33%	
	Other, not listed	2	13.33%	
	Cholesterol crystals	1	6.67%	
	No crystals observed	1	6.67%	

BF-4 is an ungraded challenge due to less than 80% referee consensus. The vendor assay is: CPPD Crystals.

MICROALBUMIN, DIPSTICK

Specimen UM-2

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	42	-	1	-	2	32	4	3
Bayer Clinitek Microalbumin	35	-	1	-	-	31	-	3
Roche Micral - 1 minute	7	-	-	-	2	1	4	-

CREATININE, DIPSTICK

Specimen UM-2

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	37	-	-	1	8	21	4	3
Bayer Clinitek Microalbumin	34	-	-	1	7	19	4	3
Bayer Multistix Pro	3	-	-	-	1	2	-	-

MICROALBUMIN, QUANTITATIVE**Specimen UM-2**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	100.6	7.1	7.1	100	79 - 123
Axis-Shield Afinion AS100	11	108.0	10.0	9.3	108	78 - 138
Dade Dimension/AR/ES/RxL/Xpand	26	101.1	4.8	4.7	101	86 - 116
Olympus AU	10	95.8	2.0	2.1	96	89 - 102
Roche Integra	10	102.1	6.0	5.9	101	84 - 121
Siemens DCA Vantage	18	101.5	5.8	5.7	103	84 - 119

CREATININE, URINE (mg/dL)**Specimen UM-2**

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	65.9	4.2	6.3	65	53 - 79
Axis-Shield Afinion AS100	11	64.4	5.1	7.9	63	49 - 80
Dade Dimension/AR/ES/RxL/Xpand	23	62.7	2.7	4.2	62	54 - 71
Roche Integra	10	64.2	1.5	2.4	64	59 - 69
Siemens DCA Vantage	18	69.8	4.0	5.8	71	57 - 82

WAIVED HEMATOLOGY–HEMOGLOBIN (g/dL)**Specimen HD-6**

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	13.98	0.47	3.4	14.0	13.0 - 15.0
All Stanbio Methods	12	14.28	0.53	3.7	14.4	13.2 - 15.3
HemoCue	75	13.93	0.44	3.2	13.9	12.9 - 15.0
Stanbio HemoPoint H2	10	14.50	0.18	1.2	14.5	13.4 - 15.6

Specimen HD-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
87	17.90	0.54	3.0	17.9	16.6 - 19.2
12	18.54	0.77	4.1	18.5	17.2 - 19.9
75	17.82	0.49	2.8	17.8	16.5 - 19.1
10	18.65	0.77	4.1	18.5	17.3 - 20.0

WAIVED HEMATOLOGY–HEMATOCRIT (percent)**Specimen HD-6**

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	39.08	2.36	6.0	38.1	34.3 - 43.9

Specimen HD-7

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
12	54.73	16.46	30.1	52.5	21.8 - 87.7

KOH SKIN PREPARATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
K-3	Yeast/fungal elements absent	165	97.06%	Acceptable
	Yeast/fungal elements present	5	2.94%	

Organism present in specimen K-3: *Staphylococcus aureus*.

K-4	Yeast/fungal elements present	169	99.41%	Acceptable
	Yeast/fungal elements absent	1	0.59%	

Organism present in specimen K-4: *Trichophyton rubrum*.

COAGUCHECK XS - INTERNATIONAL NORMALIZED RATIO (INR)

<u>Instrument</u>	Specimen INX-3						Specimen INX-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>
CoaguChek XS	64	1.22	0.04	3.5	1.2	0.9 - 1.5	68	2.70	0.07	2.6	2.7	2.1 - 3.3

URINALYSIS DIPSTICK–SPECIFIC GRAVITY

Specimen UA-2

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	936	1.0199	0.0043	0.4	1.020	1.009 - 1.030
All Bayer Instruments	445	1.0225	0.0028	0.3	1.020	1.012 - 1.033
All Roche Instruments	71	1.0138	0.0022	0.2	1.015	1.003 - 1.024
Bayer Clinitek 10 / 100	11	1.0241	0.0021	0.2	1.025	1.014 - 1.035
Bayer Clinitek 50	68	1.0202	0.0025	0.2	1.020	1.010 - 1.031
Bayer Clinitek 500	17	1.0203	0.0021	0.2	1.020	1.010 - 1.031
Bayer Clinitek Advantus	20	1.0218	0.0025	0.2	1.020	1.011 - 1.032
Bayer Clinitek Status / Status+	325	1.0230	0.0026	0.2	1.025	1.012 - 1.033
Bayer Reagent Strips	260	1.0183	0.0035	0.3	1.020	1.008 - 1.029
Consult Diagnostics Urine Analyzer	14	1.0168	0.0054	0.5	1.015	1.006 - 1.027
CTMI CT-120 Urine Analyzer	11	1.0159	0.0021	0.2	1.015	1.005 - 1.026
Diagnostic Test Group Clarity Urocheck 120	15	1.0180	0.0025	0.2	1.020	1.008 - 1.028
Other Dipstick Method	14	1.0218	0.0046	0.5	1.023	1.011 - 1.032
Roche Chemstrips	46	1.0142	0.0024	0.2	1.015	1.004 - 1.025
Roche Criterion Analyzer	17	1.0135	0.0023	0.2	1.015	1.003 - 1.024
Roche Urisys	43	1.0141	0.0023	0.2	1.015	1.004 - 1.025

URINALYSIS DIPSTICK–pH

Specimen UA-2

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	977	1	-	-	-	1	2	16	779	167	9	2	-
Arkray DiaScreen	7	-	-	-	-	-	-	4	3	-	-	-	-
Arkray DiaScreen 50	3	-	-	-	-	-	-	-	3	-	-	-	-
Bayer Clinitek 10 / 100	12	-	-	-	-	-	-	-	3	9	-	-	-
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	-	-	1	-	-	-
Bayer Clinitek 50	67	-	-	-	-	1	-	-	60	5	1	-	-
Bayer Clinitek 500	19	-	-	-	-	-	-	-	16	3	-	-	-
Bayer Clinitek Advantus	21	-	-	-	-	-	-	-	13	8	-	-	-
Bayer Clinitek Atlas	5	-	-	-	-	-	-	-	5	-	-	-	-
Bayer Clinitek Status / Status+	331	-	-	-	-	-	-	-	331	-	-	-	-
Bayer Hemacombistix	1	-	-	-	-	-	-	-	-	1	-	-	-
Bayer Reagent Strips	269	-	-	-	-	-	-	3	140	122	2	2	-
Bayer Uristix	3	-	-	-	-	-	-	-	2	1	-	-	-
Consult Diagnostics Urine Analyzer	14	-	-	-	-	-	1	2	11	-	-	-	-
CTMI CT-120 Urine Analyzer	11	-	-	-	-	-	-	-	10	1	-	-	-
Diagnostic Test Group Clarity Urocheck	7	-	-	-	-	-	-	2	3	2	-	-	-
Diagnostic Test Group Clarity Urocheck 120	15	-	-	-	-	-	-	-	10	5	-	-	-
Germaine Laboratories AimStrip	3	-	-	-	-	-	-	-	3	-	-	-	-
McKesson 10SG Reagent Strips	9	-	-	-	-	-	-	1	6	2	-	-	-
Other Analyzer Method	6	-	-	-	-	-	-	-	6	-	-	-	-
Other Dipstick Method	16	-	-	-	-	-	-	-	15	1	-	-	-
pH Paper	1	-	-	-	-	-	-	-	1	-	-	-	-
PSS Select Reagent Strips	5	-	-	-	-	-	-	-	3	2	-	-	-
PSS Select Urine Analyzer	3	-	-	-	-	-	-	3	-	-	-	-	-
Roche Chemstrip 101	7	-	-	-	-	-	-	-	7	-	-	-	-
Roche Chemstrips	57	1	-	-	-	-	1	-	48	2	5	-	-
Roche cobas u 411	2	-	-	-	-	-	-	-	2	-	-	-	-
Roche Criterion Analyzer	17	-	-	-	-	-	-	-	17	-	-	-	-
Roche SuperUA/ChemstripUA	2	-	-	-	-	-	-	-	2	-	-	-	-
Roche Urisys	45	-	-	-	-	-	-	-	44	-	1	-	-
Schein Urispec	5	-	-	-	-	-	-	1	3	1	-	-	-
UriScan Reagent Strips	2	-	-	-	-	-	-	-	2	-	-	-	-

URINALYSIS DIPSTICK–PROTEIN QUALITATIVE

Specimen UA-2

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<i>Participant Results</i>				
				<u>30</u> <u>mg/dL</u> <u>(1+)</u>	<u>100</u> <u>mg/dL</u> <u>(2+)</u>	<u>300-500</u> <u>mg/dL</u> <u>(3+)</u>	<u>≥300</u> <u>mg/dL</u>	<u>≥1000</u> <u>mg/dL</u> <u>(4+)</u>
ALL METHODS	1013	2	-	7	96	487	296	125
Arkray DiaScreen	12	-	-	-	1	9	-	2
Arkray DiaScreen 50	3	-	-	-	1	1	1	-
Bayer Albustix	1	-	-	-	-	1	-	-
Bayer Clinitek 10 / 100	12	-	-	1	-	5	6	-
Bayer Clinitek 200/200+	1	-	-	-	-	1	-	-
Bayer Clinitek 50	67	1	-	-	-	21	44	1
Bayer Clinitek 500	19	-	-	-	-	14	5	-
Bayer Clinitek Advantus	20	-	-	-	1	14	5	-
Bayer Clinitek Atlas	5	-	-	-	-	3	2	-
Bayer Clinitek Status / Status+	328	-	-	-	-	122	206	-
Bayer Hemacombistix	1	-	-	-	-	1	-	-
Bayer Reagent Strips	269	-	-	4	56	97	16	96
Bayer Uristix	19	-	-	-	4	8	1	6
Consult Diagnostics Urine Analyzer	14	1	-	-	1	10	1	1
CTMI CT-120 Urine Analyzer	11	-	-	-	2	9	-	-
Diagnostic Test Group Clarity Urocheck	6	-	-	-	5	-	-	1
Diagnostic Test Group Clarity Urocheck 120	15	-	-	-	1	13	1	-
Germaine Laboratories AimStrip	3	-	-	-	1	1	-	1
McKesson 10SG Reagent Strips	9	-	-	1	5	1	-	2
Other Analyzer Method	6	-	-	-	2	3	1	-
Other Dipstick Method	17	-	-	1	1	10	-	5
PSS Select Reagent Strips	5	-	-	-	-	3	-	2
PSS Select Urine Analyzer	3	-	-	-	-	-	-	3
Roche Chemstrip 101	7	-	-	-	-	7	-	-
Roche Chemstrips	71	-	-	-	12	57	-	2
Roche cobas u 411	2	-	-	-	-	2	-	-
Roche Criterion Analyzer	17	-	-	-	1	15	1	-
Roche SuperUA/ChemstripUA	2	-	-	-	-	2	-	-
Roche Urisys	45	-	-	-	-	44	-	1
Schein Urispec	5	-	-	-	-	4	1	-
Sulfosalicylic Acid	3	-	-	-	1	2	-	-
UriScan Reagent Strips	2	-	-	-	1	-	-	1

URINALYSIS DIPSTICK–GLUCOSE

Specimen UA-2

<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	1013	8	42	34	569	194	90	71	5
Arkray DiaScreen	12	-	8	-	3	-	-	1	-
Arkray DiaScreen 50	3	-	2	1	-	-	-	-	-
Bayer Clinitek 10 / 100	12	-	1	1	6	4	-	-	-
Bayer Clinitek 200/200+	1	-	1	-	-	-	-	-	-
Bayer Clinitek 50	67	1	-	1	31	29	1	3	1
Bayer Clinitek 500	18	-	-	2	6	10	-	-	-
Bayer Clinitek Advantus	20	-	-	-	8	11	-	-	1
Bayer Clinitek Atlas	5	-	-	-	1	4	-	-	-
Bayer Clinitek Status / Status+	330	-	3	12	289	21	2	3	-
Bayer Clinitest, 5 drop	2	1	-	1	-	-	-	-	-
Bayer Hemacombistix	1	-	-	-	-	1	-	-	-
Bayer Reagent Strips	272	4	15	13	153	73	8	5	1
Bayer Uristix	19	-	-	-	9	7	1	1	1
Consult Diagnostics Urine Analyzer	14	-	-	1	8	2	2	-	1
CTMI CT-120 Urine Analyzer	11	-	4	1	6	-	-	-	-
Diagnostic Test Group Clarity Urocheck	7	1	-	-	6	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	15	-	2	-	13	-	-	-	-
Germaine Laboratories AimStrip	3	-	-	1	2	-	-	-	-
McKesson 10SG Reagent Strips	9	-	2	-	7	-	-	-	-
Other Analyzer Method	6	-	1	-	3	2	-	-	-
Other Dipstick Method	15	1	2	-	5	6	1	-	-
PSS Select Reagent Strips	5	-	-	-	2	3	-	-	-
PSS Select Urine Analyzer	3	-	-	-	-	2	1	-	-
Roche Chemstrip 101	7	-	-	-	-	-	3	4	-
Roche Chemstrips	71	-	-	-	3	5	46	17	-
Roche cobas u 411	2	-	-	-	-	-	1	1	-
Roche Criterion Analyzer	17	-	-	-	-	-	17	-	-
Roche SuperUA/ChemstripUA	2	-	-	-	-	-	1	1	-
Roche Urisys	45	-	-	-	1	6	4	34	-
Schein Urispec	5	-	-	-	-	5	-	-	-
UriScan Reagent Strips	2	-	-	-	1	1	-	-	-

URINALYSIS DIPSTICK–KETONES

Specimen UA-2

<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	972	1	1	4	104	524	47	291
Arkray DiaScreen	7	-	-	-	-	6	-	1
Arkray DiaScreen 50	3	-	-	-	-	3	-	-
Bayer Acetest	1	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	12	-	-	-	1	9	-	2
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	1
Bayer Clinitek 50	66	1	-	-	12	50	-	3
Bayer Clinitek 500	18	-	-	-	8	10	-	-
Bayer Clinitek Advantus	21	-	-	-	11	9	-	1
Bayer Clinitek Atlas	5	-	-	-	-	5	-	-
Bayer Clinitek Status / Status+	330	-	-	-	19	142	3	166
Bayer Ketostix	1	-	-	-	-	1	-	-
Bayer Reagent Strips	271	-	1	-	7	157	4	102
Bayer Uristix	1	-	-	-	-	-	-	1
Consult Diagnostics Urine Analyzer	14	-	-	3	8	3	-	-
CTMI CT-120 Urine Analyzer	11	-	-	-	3	8	-	-
Diagnostic Test Group Clarity Urocheck	7	-	-	-	5	1	-	1
Diagnostic Test Group Clarity Urocheck 120	15	-	-	-	3	12	-	-
Germaine Laboratories AimStrip	3	-	-	-	-	3	-	-
McKesson 10SG Reagent Strips	9	-	-	1	3	4	-	1
Other Analyzer Method	6	-	-	-	3	2	1	-
Other Dipstick Method	16	-	-	-	3	8	-	5
PSS Select Reagent Strips	4	-	-	-	1	3	-	-
PSS Select Urine Analyzer	3	-	-	-	-	3	-	-
Roche Chemstrip 101	7	-	-	-	2	2	2	1
Roche Chemstrips	57	-	-	-	3	54	-	-
Roche cobas u 411	2	-	-	-	-	2	-	-
Roche Criterion Analyzer	17	-	-	-	-	6	11	-
Roche SuperUA/ChemstripUA	2	-	-	-	-	2	-	-
Roche Urisys	45	-	-	-	9	10	26	-
Schein Urispec	5	-	-	-	1	3	-	1
UriScan Reagent Strips	1	-	-	-	-	1	-	-

URINALYSIS DIPSTICK–BILIRUBIN

Specimen UA-2

<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	939	8	4	20	907
Arkray DiaScreen	7	-	-	-	7
Arkray DiaScreen 50	3	-	-	-	3
Bayer Clinitek 10 / 100	12	-	-	-	12
Bayer Clinitek 200/200+	1	1	-	-	-
Bayer Clinitek 50	65	1	-	-	64
Bayer Clinitek 500	16	2	1	3	10
Bayer Clinitek Advantus	20	-	1	8	11
Bayer Clinitek Atlas	5	-	-	-	5
Bayer Clinitek Status / Status+	316	-	-	-	316
Bayer Ictotest	1	-	-	1	-
Bayer Reagent Strips	264	3	-	2	259
Bayer Uristix	1	-	-	-	1
Consult Diagnostics Urine Analyzer	14	1	-	-	13
CTMI CT-120 Urine Analyzer	11	-	-	-	11
Diagnostic Test Group Clarity Urocheck	7	-	-	1	6
Diagnostic Test Group Clarity Urocheck 120	15	-	-	-	15
Germaine Laboratories AimStrip	3	-	-	-	3
McKesson 10SG Reagent Strips	9	-	-	-	9
Other Analyzer Method	6	-	-	-	6
Other Dipstick Method	15	-	-	1	14
PSS Select Reagent Strips	4	-	-	-	4
PSS Select Urine Analyzer	3	-	-	-	3
Roche Chemstrip 101	7	-	-	-	7
Roche Chemstrips	52	-	-	1	51
Roche cobas u 411	2	-	-	-	2
Roche Criterion Analyzer	17	-	-	1	16
Roche SuperUA/ChemstripUA	2	-	-	-	2
Roche Urisys	45	-	1	2	42
Schein Urispec	5	-	1	-	4
UriScan Reagent Strips	1	-	-	-	1

URINALYSIS DIPSTICK–UROBILINOGEN

Specimen UA-2

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	910	5	1	4	21	879
Arkray DiaScreen	6	4	-	1	-	1
Arkray DiaScreen 50	3	-	-	-	3	-
Bayer Clinitek 10 / 100	12	-	-	-	-	12
Bayer Clinitek 200/200+	1	-	-	-	-	1
Bayer Clinitek 50	63	1	-	-	-	62
Bayer Clinitek 500	11	-	-	-	-	11
Bayer Clinitek Advantus	20	-	-	-	-	20
Bayer Clinitek Atlas	3	-	-	1	2	-
Bayer Clinitek Status / Status+	316	-	-	-	-	316
Bayer Reagent Strips	248	-	-	-	4	244
Bayer Uristix	1	-	-	-	-	1
Consult Diagnostics Urine Analyzer	14	-	-	-	-	14
CTMI CT-120 Urine Analyzer	11	-	-	1	2	8
Diagnostic Test Group Clarity Urocheck	7	-	-	-	-	7
Diagnostic Test Group Clarity Urocheck 120	14	-	-	-	1	13
Germaine Laboratories AimStrip	2	-	-	-	1	1
McKesson 10SG Reagent Strips	9	-	-	-	1	8
Other Analyzer Method	6	-	-	-	2	4
Other Dipstick Method	16	-	-	1	2	13
PSS Select Reagent Strips	4	-	-	-	-	4
PSS Select Urine Analyzer	3	-	-	-	-	3
Roche Chemstrip 101	7	-	-	-	-	7
Roche Chemstrips	51	-	1	-	1	49
Roche cobas u 411	2	-	-	-	1	1
Roche Criterion Analyzer	17	-	-	-	-	17
Roche SuperUA/ChemstripUA	2	-	-	-	-	2
Roche Urisys	45	-	-	-	-	45
Schein Urispec	5	-	-	-	1	4
UriScan Reagent Strips	1	-	-	-	-	1

URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN

Specimen UA-2

<i>Method</i>	<i>Participant Results</i>					
	<i>Labs</i>	<i>Negative</i>	<i>Trace</i>	<i>Small (5-10 RBC/μL, 1+)</i>	<i>Moderate (50 RBC/μL, 2+)</i>	<i>Large (250 RBC/μL, 3+)</i>
ALL METHODS	983	3	1	4	36	939
Arkray DiaScreen	7	-	-	-	-	7
Arkray DiaScreen 50	3	-	-	-	-	3
Bayer Clinitek 10 / 100	12	-	-	-	-	12
Bayer Clinitek 200/200+	1	-	-	-	-	1
Bayer Clinitek 50	67	1	1	-	-	65
Bayer Clinitek 500	19	-	-	-	-	19
Bayer Clinitek Advantus	21	-	-	-	-	21
Bayer Clinitek Atlas	5	-	-	-	-	5
Bayer Clinitek Status / Status+	330	-	-	-	3	327
Bayer Hemacombistix	1	-	-	-	-	1
Bayer Reagent Strips	268	-	-	2	3	263
Bayer Uristix	1	-	-	-	-	1
Consult Diagnostics Urine Analyzer	14	-	-	-	1	13
CTMI CT-120 Urine Analyzer	11	-	-	-	-	11
Diagnostic Test Group Clarity Urocheck	7	-	-	-	2	5
Diagnostic Test Group Clarity Urocheck 120	15	-	-	-	2	13
Germaine Laboratories AimStrip	3	-	-	-	1	2
McKesson 10SG Reagent Strips	9	-	-	-	1	8
Other Analyzer Method	6	-	-	-	3	3
Other Dipstick Method	16	-	-	2	2	12
PSS Select Reagent Strips	5	1	-	-	2	2
PSS Select Urine Analyzer	3	-	-	-	-	3
Roche Chemstrip 101	7	-	-	-	-	7
Roche Chemstrips	68	1	-	-	4	63
Roche cobas u 411	2	-	-	-	-	2
Roche Criterion Analyzer	17	-	-	-	-	17
Roche SuperUA/ChemstripUA	2	-	-	-	-	2
Roche Urisys	45	-	-	-	11	34
Schein Urispec	5	-	-	-	-	5
UriScan Reagent Strips	2	-	-	-	1	1

URINALYSIS DIPSTICK–LEUKOCYTE ESTERASE

Specimen UA-2

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	996	16	19	142	280	539
Arkray DiaScreen	10	1	-	5	2	2
Arkray DiaScreen 50	3	-	-	-	-	3
Bayer Clinitek 10 / 100	12	-	-	4	5	3
Bayer Clinitek 200/200+	1	-	-	-	1	-
Bayer Clinitek 50	67	1	-	-	-	66
Bayer Clinitek 500	19	-	-	-	18	1
Bayer Clinitek Advantus	21	-	-	-	20	1
Bayer Clinitek Atlas	5	-	-	-	-	5
Bayer Clinitek Status / Status+	331	-	-	-	-	331
Bayer Reagent Strips	263	1	-	83	117	62
Bayer Uristix	16	1	-	7	6	2
Behring Reagent Strips	1	-	-	-	1	-
Consult Diagnostics Urine Analyzer	14	1	1	5	6	1
CTMI CT-120 Urine Analyzer	11	-	-	-	4	7
Diagnostic Test Group Clarity Urocheck	7	-	-	-	6	1
Diagnostic Test Group Clarity Urocheck 120	15	-	-	-	5	10
Germaine Laboratories AimStrip	3	-	-	-	3	-
McKesson 10SG Reagent Strips	9	-	-	2	3	4
Other Analyzer Method	6	-	-	-	-	6
Other Dipstick Method	16	3	1	3	6	3
PSS Select Reagent Strips	5	3	-	-	1	1
PSS Select Urine Analyzer	3	-	-	-	2	1
Roche Chemstrip 101	7	-	-	-	5	2
Roche Chemstrips	66	2	16	22	24	2
Roche cobas u 411	2	-	-	2	-	-
Roche Criterion Analyzer	17	-	-	-	14	3
Roche SuperUA/ChemstripUA	2	-	-	-	1	1
Roche Urisys	45	-	1	6	25	13
Schein Urispec	5	-	-	1	2	2
UriScan Reagent Strips	2	1	-	-	1	-

URINALYSIS DIPSTICK–NITRITE

Specimen UA-2

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	994	991	3
Arkray DiaScreen	11	11	-
Arkray DiaScreen 50	3	3	-
Bayer Clinitek 10 / 100	12	12	-
Bayer Clinitek 200/200+	1	1	-
Bayer Clinitek 50	66	65	1
Bayer Clinitek 500	18	18	-
Bayer Clinitek Advantus	21	21	-
Bayer Clinitek Atlas	5	5	-
Bayer Clinitek Status / Status+	325	325	-
Bayer Reagent Strips	264	264	-
Bayer Uristix	16	15	1
Consult Diagnostics Urine Analyzer	14	14	-
CTMI CT-120 Urine Analyzer	11	11	-
Diagnostic Test Group Clarity Urocheck	7	7	-
Diagnostic Test Group Clarity Urocheck 120	14	14	-
Germaine Laboratories AimStrip	3	3	-
McKesson 10SG Reagent Strips	9	9	-
Other Analyzer Method	6	6	-
Other Dipstick Method	16	16	-
PSS Select Reagent Strips	5	5	-
PSS Select Urine Analyzer	3	3	-
Roche Chemstrip 101	7	7	-
Roche Chemstrips	69	69	-
Roche cobas u 411	2	2	-
Roche Criterion Analyzer	17	17	-
Roche SuperUA/ChemstripUA	1	1	-
Roche Urisys	45	45	-
Schein Urispec	5	4	1
UriScan Reagent Strips	2	2	-

URINALYSIS –MICROALBUMIN (dipstick only)

Specimen UA-2

<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	80	21	1	6	1	37	8	6
Bayer Clinitek Microalbumin	42	-	-	1	-	34	1	6
Micro-Bumintest	3	-	-	-	-	-	3	-
Roche Micral - 1 minute	30	20	1	4	1	-	4	-

URINALYSIS –URINE hCG

Specimen UA-2

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	556	547	9
AimStep Combo Pregnancy	1	1	-
Alfa Scientific Instant View	5	5	-
Bayer Clinitek 50	1	1	-
Beckman Coulter ICON 25 hCG	39	39	-
Beckman Coulter ICON II/20 HCG	3	3	-
Cardinal Health SP Brand combo	27	27	-
Cardinal Hlth SPBrand-cassette	7	7	-
CONSULT diagnostics hCG Cassette	47	47	-
CONSULT diagnostics hCG Combo	22	21	1
CONSULT diagnostics hCG Dipstick	16	16	-
Diagnostic Test Group Clarity hCG Combo	1	1	-
Diagnostic Test Group Clarity hCG strip/cassette	8	8	-
Genzyme OSOM - Urine Test	3	2	1
Genzyme OSOM Card Pregnancy	4	4	-
Genzyme OSOM hCG Combo Test	20	20	-
Henry Schein One Step	41	40	1
Immunostics Cept-D	1	-	1
Immunostics Detector Combi	1	1	-
Immunostics hCG Detector-urine	17	17	-
Inverness Acceva hCG-Urine	5	5	-
Inverness Clearview 25 hCG Combo	1	1	-
Inverness Clearview hCG Cassette	2	2	-
McKesson hCG Combo Cassette	17	17	-
McKesson hCG Urine Cassette	22	21	1
McKesson urine hCG-all 20 mIU kits	3	3	-
Meridian ImmunoCard STAT!	1	1	-
NDC Pro Advantage	5	5	-
PEP (Lab Supply) HCG	2	2	-
Polymedco Poly stat hCG	9	9	-
PSS Select hCG Cassette	3	3	-
PSS Select hCG Dipstick	1	1	-

URINALYSIS –URINE hCG (cont'd)

Specimen UA-2

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Quidel QuickVue One-Step Combo	34	34	-
Quidel QuickVue One-Step Urine	79	77	2
Quidel QuickVue+ One-Step Combo	18	18	-
Quidel RapidVue	1	1	-
SmithKline ICON Fx hCG	1	1	-
Stanbio QuPID	7	7	-
Stanbio QuPID Plus	1	1	-
Stanbio QuStick	1	1	-
Stanbio TRUE hCG	8	8	-
Sure-Vue hCG - 25mIU	6	6	-
Sure-Vue hCG-STAT	7	7	-

FECAL OCCULT BLOOD

<u>Method</u>	Specimen OC-3			Specimen OC-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	446	5	441	445	443	2
Alfa Scientific Instant View	2	-	2	2	2	-
Beckman Coulter Hemoccult ICT	47	1	46	47	47	-
Guaiac (slide) Test	290	3	287	289	288	1
Hemosure iFOB	40	-	40	40	40	-
Inverness Clearview iFOBT Complete	3	-	3	3	3	-
Other Immunochemical FOB kit	23	-	23	23	23	-
Polymedco OC Auto Micro 80	7	-	7	7	7	-
Polymedco OC-Light iFOB	17	-	17	17	17	-
Quidel QuickVue iFOB	9	-	9	9	9	-
Wampole Clearview Ultra FOBT	1	-	1	1	1	-

CASE HISTORY:

A 30-year-old female presented to her OB/GYN with extreme itching and inflammation of the genital area. A routine urinalysis was performed, and the results appear below.

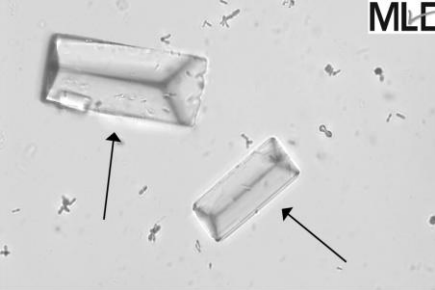
Color = Yellow
Appearance = Hazy

Dipstick results:
Specific gravity = 1.020
pH = 7.5
Protein = Trace
Glucose = Negative
Ketones = Negative
Bilirubin = Negative
Urobilinogen = Normal/0.2 mg/dL
Blood = Negative
Leukocyte Esterase = Negative
Nitrite = Negative

This patient was diagnosed with a vaginal yeast infection.

Yeast are small oval fungi that reproduce by budding and sometimes produce long branching forms called hyphae. *Candida albicans* is the most common yeast to appear in the urine. It is a part of the normal intestinal flora, and can be part of the normal vaginal flora in small amounts. *C. albicans* usually infects the vagina but it can also cause urinary tract infections. In this case, the yeast in the urine is a specimen contaminant from the skin or vaginal secretions. A urinary yeast infection would include increased white blood cells and a positive leukocyte esterase test.

Specimen US-3



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Triple phosphate crystal	660	95.38%	Acceptable
Calcium oxalate crystal	11	1.59%	
Sulfonamide crystal	11	1.59%	

The arrows in this photograph point to **triple phosphate crystals**. Their typical 3-6 sided rectangular shape is described as “coffin lids”. They vary greatly in size, and are commonly seen in neutral and alkaline urine (pH>=7.0). These crystals are rarely clinically significant, however triple phosphate (also called struvite) can form urinary stones.

URINE SEDIMENT IDENTIFICATION cont'd

Specimen US-4



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Yeast/fungi	672	97.11%	Acceptable
Fiber/fecal contamination	9	1.30%	

The arrows in this photograph point to **yeast**. There are two general kinds of fungi- yeasts and molds. Yeasts are single-celled organisms, round to oval in shape. Yeasts reproduce by budding, a process in which a small portion of the cell is pinched off and grows into a new cell. Sometimes yeasts form long chains resembling the hyphae produced by molds. When a urine is contaminated with yeast, it is usually these hyphal forms that are seen. Technically, these are pseudohyphae, but in the clinical lab they are referred to simply as hyphae. Yeasts do not always present with buds or hyphae, so if you are unsure whether the round cells you see are yeast or red blood cells, try adding a small drop of acetic acid to the slide. Red blood cells will lyse (dissolve), but yeast cells will not.

References:

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

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

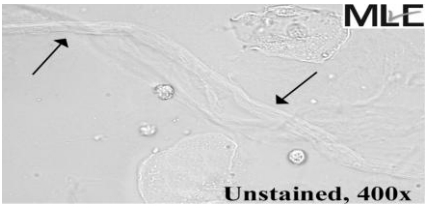
Dixon, D.M., Fromtling, R.A. "Morphology, Taxonomy, and Classification of Fungi." *Manual of Clinical Microbiology*. 6th ed. Ed. P.R. Murray. Washington, D.C.: ASM Press, 1995.

Warren, N.G., Hazen, K.C. "Candida, Cryptococcus, and Other Yeasts of Medical Importance." *Manual of Clinical Microbiology*. 6th ed. Ed. P.R. Murray. Washington, D.C.: ASM Press, 1995.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Wet Mount Preparation

Specimen PPM-7

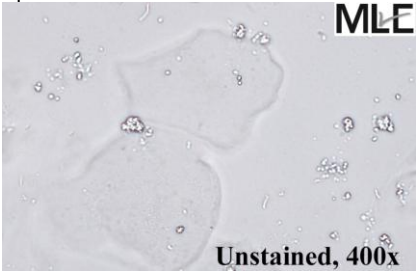


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Mucus strands	432	74.35%	Acceptable
Fiber/fecal contamination	111	19.10%	
Yeast/fungi	21	3.61%	
Identification Unknown -Refer	9	1.55%	

The arrows in this photograph of a vaginal wet mount prep point to **mucus strands**. Mucus is secreted by glands in the terminal urethra and vagina. It is a very common, non-pathologic finding, especially in females. Mucus appears as long thin delicate strands or threads with undefined edges and pointed or frayed ends. To view another photo of mucus strands, see 2009 M2 Specimen PPM-7. Some participants thought this object was a fiber or fecal contamination. Fibers tend to be flat, with dark edges and nodular indentations in the ends and sides. This challenge was graded by 100% referee consensus.

KOH Preparation

Specimen PPM-8



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Yeast/fungal elements absent	446	76.36%	Acceptable
Yeast/fungal elements present	116	20.64%	

Yeast and fungal elements are absent in this photograph of a potassium hydroxide vaginal wet mount prep. The small round objects seen are bacteria. This challenge was graded by 100% referee consensus.

PROVIDER-PERFORMED MICROSCOPY (PPM)

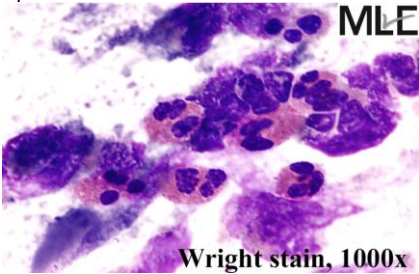
Sperm Identification
Specimen PPM-9



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Sperm absent	555	98.75%	Acceptable
Sperm present	7	1.25%	

Spermatozoa are absent in this photograph of a vaginal wet mount preparation

Nasal Smear
Specimen PPM-10

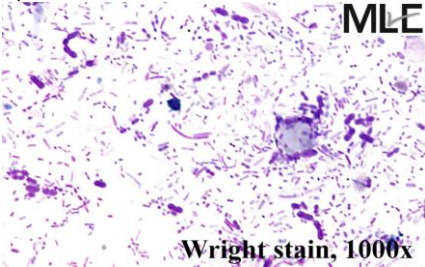


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Eosinophils present	212	100.00%	Acceptable

Eosinophils are present in this photograph of stained nasal mucus.

PROVIDER-PERFORMED MICROSCOPY (PPM)

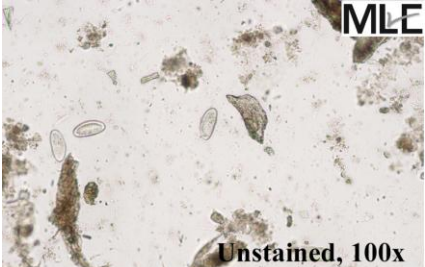
Fecal Leukocytes
Specimen PPM-11



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Leukocytes are absent	189	89.15%	Acceptable
Leukocytes are present	23	10.85%	

Leukocytes are absent in this photograph of a stained fecal preparation.

Pimworm Preparation
Specimen PPM-12



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Pinworm/eggs present	250	99.60%	Acceptable
Pinworm/eggs absent	1	0.40%	

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

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

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