

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Hematology, Coagulation,
Blood Bank, Urinalysis, PPM
MLE-M3



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

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2012 EVALUATION CRITERIA

The evaluation criteria used in the 2012 MLE Program is in accordance with the Clinical Laboratory Improvement Amendments of 1988 (CLIA '88) federal requirements for proficiency testing. The criteria are included below.

Quantitative

For quantitative procedures, a mean and standard deviation (SD) are calculated for each peer group consisting of 10 or more laboratories except for QBC Hematology and Coagulation (CG Specimens) which consist of peer groups of 5 or more laboratories. Acceptable performance is established on a target value $\pm$ the intervals below. An explanation on how to calculate the range of acceptability based upon these limits is also provided in your MLE Program Guide on page 37 under the heading "Acceptable Ranges for Quantitative Results."

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

Qualitative

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

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

HEMOCUE HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen HQ-5							Specimen HQ-6					
<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	56	15.91	0.45	2.8	15.9	14.5 - 17.3	56	4.61	0.17	3.7	4.6	4.1 - 5.2

HEMOCUE HEMATOLOGY–GLUCOSE (mg/dL)

Specimen HQ-5							Specimen HQ-6					
<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	320.4	16.3	5.1	321	271 - 370	72	42.8	6.4	14.9	43	23 - 63
HemoCue Glucose 201/+	64	320.4	16.3	5.1	322	271 - 370	64	43.1	6.1	14.1	43	24 - 62

SEDIMENTATION RATE (MM/HR)

Specimen ES-5							Specimen ES-6					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	216	5.4	2.2	40.0	5	0 - 12	213	44.3	12.7	28.5	41	6 - 83
All Vital Diagnostic Methods	21	5.8	1.5	26.5	6	1 - 11	21	55.9	5.0	9.0	56	40 - 71
HiChem Mini-Ves	10	6.5	3.3	50.9	6	0 - 17	10	80.1	15.9	19.9	75	32 - 128
Polymedco Sedimat	16	3.6	1.9	51.2	3	0 - 10	15	41.9	5.9	14.1	40	24 - 60
Streck ESR-Auto Plus	13	9.0	1.5	16.4	10	4 - 14	13	60.8	5.4	8.9	60	44 - 78
Vital Diagnostics Excyte M/10	17	5.8	1.6	28.5	6	0 - 11	17	56.4	3.7	6.5	56	45 - 68
Westergren - diluted	129	5.1	2.0	39.4	5	0 - 12	125	40.1	7.0	17.5	39	19 - 62
Westergren - undiluted	10	5.2	1.9	37.2	5	0 - 11	10	41.8	16.2	38.7	39	0 - 91
Wintrobe	11	6.4	0.9	14.5	6	3 - 10	11	28.1	9.7	34.4	28	0 - 58

SEDIMAT SEDIMENTATION RATE (MM/HR)

Specimen MAT-5							Specimen MAT-6					
<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	1.6	0.7	42.6	2	0 - 4	16	49.1	10.9	22.2	52	16 - 82

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

Specimen CL-11							Specimen CL-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	8.03	0.23	2.8	7.9	6.8 - 9.3	34	20.70	0.53	2.6	20.6	17.5 - 23.9
All Abbott Cell-Dyn Instruments	35	8.03	0.23	2.8	7.9	6.8 - 9.3	34	20.70	0.53	2.6	20.6	17.5 - 23.9
Abbott Cell-Dyn 3200	15	8.09	0.22	2.7	8.1	6.8 - 9.4	15	20.69	0.46	2.2	20.8	17.5 - 23.8
Abbott Cell-Dyn Ruby	15	8.03	0.22	2.7	7.9	6.8 - 9.3	15	20.85	0.77	3.7	20.6	17.7 - 24.0
Specimen CL-13							Specimen CL-14					
All Method	34	3.26	0.14	4.3	3.3	2.7 - 3.8	33	20.60	0.52	2.5	20.6	17.5 - 23.7
All Abbott Cell-Dyn Instruments	34	3.26	0.14	4.3	3.3	2.7 - 3.8	33	20.60	0.52	2.5	20.6	17.5 - 23.7
Abbott Cell-Dyn 3200	15	3.26	0.19	5.8	3.3	2.7 - 3.8	14	20.61	0.49	2.4	20.7	17.5 - 23.8
Abbott Cell-Dyn Ruby	15	3.28	0.15	4.6	3.3	2.7 - 3.8	15	20.79	0.84	4.1	20.6	17.6 - 24.0
Specimen CL-15												
All Method	34	8.03	0.18	2.2	8.0	6.8 - 9.3						
All Abbott Cell-Dyn Instruments	34	8.03	0.18	2.2	8.0	6.8 - 9.3						
Abbott Cell-Dyn 3200	15	7.97	0.27	3.4	8.0	6.7 - 9.2						
Abbott Cell-Dyn Ruby	15	8.04	0.20	2.5	8.0	6.8 - 9.3						

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

Specimen CL-11							Specimen CL-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	35	4.704	0.133	2.8	4.71	4.42 - 4.99	35	5.279	0.110	2.1	5.28	4.96 - 5.60	
All Abbott Cell-Dyn Instruments	35	4.704	0.133	2.8	4.71	4.42 - 4.99	35	5.279	0.110	2.1	5.28	4.96 - 5.60	
Abbott Cell-Dyn 3200	15	4.634	0.095	2.1	4.66	4.35 - 4.92	15	5.231	0.116	2.2	5.24	4.91 - 5.55	
Abbott Cell-Dyn Ruby	15	4.787	0.095	2.0	4.80	4.50 - 5.08	15	5.325	0.090	1.7	5.32	5.00 - 5.65	
Specimen CL-13							Specimen CL-14						
All Method	35	2.172	0.050	2.3	2.17	2.04 - 2.31	35	5.304	0.124	2.3	5.31	4.98 - 5.63	
All Abbott Cell-Dyn Instruments	35	2.172	0.050	2.3	2.17	2.04 - 2.31	35	5.304	0.124	2.3	5.31	4.98 - 5.63	
Abbott Cell-Dyn 3200	15	2.167	0.051	2.4	2.17	2.03 - 2.30	15	5.256	0.138	2.6	5.24	4.94 - 5.58	
Abbott Cell-Dyn Ruby	15	2.170	0.050	2.3	2.15	2.03 - 2.31	15	5.349	0.111	2.1	5.35	5.02 - 5.68	
Specimen CL-15													
All Method	35	4.664	0.105	2.2	4.65	4.38 - 4.95							
All Abbott Cell-Dyn Instruments	35	4.664	0.105	2.2	4.65	4.38 - 4.95							
Abbott Cell-Dyn 3200	15	4.606	0.107	2.3	4.61	4.32 - 4.89							
Abbott Cell-Dyn Ruby	15	4.704	0.087	1.8	4.66	4.42 - 4.99							

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

Specimen CL-11							Specimen CL-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	13.65	0.31	2.2	13.7	12.6 - 14.7	34	16.74	0.32	1.9	16.8	15.5 - 18.0
All Abbott Cell-Dyn Instruments	35	13.65	0.31	2.2	13.7	12.6 - 14.7	34	16.74	0.32	1.9	16.8	15.5 - 18.0
Abbott Cell-Dyn 3200	15	13.65	0.29	2.1	13.7	12.6 - 14.7	15	16.77	0.38	2.3	16.9	15.5 - 18.0
Abbott Cell-Dyn Ruby	15	13.63	0.35	2.6	13.5	12.6 - 14.6	14	16.71	0.30	1.8	16.8	15.5 - 17.9
Specimen CL-13							Specimen CL-14					
All Method	34	5.55	0.15	2.7	5.6	5.1 - 6.0	35	16.81	0.35	2.1	16.9	15.6 - 18.0
All Abbott Cell-Dyn Instruments	34	5.55	0.15	2.7	5.6	5.1 - 6.0	35	16.81	0.35	2.1	16.9	15.6 - 18.0
Abbott Cell-Dyn 3200	15	5.59	0.15	2.7	5.6	5.2 - 6.0	15	16.81	0.36	2.1	16.9	15.6 - 18.0
Abbott Cell-Dyn Ruby	15	5.43	0.19	3.6	5.5	5.0 - 5.9	15	16.79	0.38	2.3	16.8	15.6 - 18.0
Specimen CL-15												
All Method	35	13.55	0.26	1.9	13.5	12.6 - 14.5						
All Abbott Cell-Dyn Instruments	35	13.55	0.26	1.9	13.5	12.6 - 14.5						
Abbott Cell-Dyn 3200	15	13.54	0.27	2.0	13.5	12.5 - 14.5						
Abbott Cell-Dyn Ruby	15	13.49	0.26	2.0	13.5	12.5 - 14.5						

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

Specimen CL-11							Specimen CL-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	35	38.50	2.42	6.3	38.2	36.1 - 40.9	35	45.26	3.00	6.6	44.7	42.5 - 48.0	
All Abbott Cell-Dyn Instruments	30	37.67	1.17	3.1	37.8	35.4 - 40.0	30	44.15	1.24	2.8	44.7	41.5 - 46.9	
Abbott Cell-Dyn 3200	15	36.94	1.05	2.8	36.8	34.7 - 39.2	15	43.57	1.23	2.8	43.4	40.9 - 46.2	
Abbott Cell-Dyn Ruby	15	38.41	0.77	2.0	38.5	36.1 - 40.8	15	44.73	0.98	2.2	44.9	42.0 - 47.5	
Specimen CL-13							Specimen CL-14						
All Method	34	15.54	1.08	6.9	15.2	14.6 - 16.5	35	45.43	3.04	6.7	44.9	42.7 - 48.2	
All Abbott Cell-Dyn Instruments	29	15.13	0.41	2.7	15.2	14.2 - 16.1	30	44.33	1.42	3.2	44.5	41.6 - 47.0	
Abbott Cell-Dyn 3200	14	15.09	0.39	2.6	15.2	14.1 - 16.0	15	43.75	1.39	3.2	43.4	41.1 - 46.4	
Abbott Cell-Dyn Ruby	15	15.18	0.43	2.8	15.1	14.2 - 16.1	15	44.91	1.23	2.7	45.2	42.2 - 47.7	
Specimen CL-15													
All Method	35	38.21	2.58	6.7	37.4	35.9 - 40.5							
All Abbott Cell-Dyn Instruments	30	37.25	1.01	2.7	37.3	35.0 - 39.5							
Abbott Cell-Dyn 3200	15	36.70	0.97	2.6	36.8	34.4 - 39.0							
Abbott Cell-Dyn Ruby	15	37.79	0.73	1.9	37.7	35.5 - 40.1							

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

Specimen CL-11							Specimen CL-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	34	283.6	16.2	5.7	284	212 - 355	35	525.6	25.4	4.8	526	394 - 657	
All Abbott Cell-Dyn Instruments	34	283.6	16.2	5.7	284	212 - 355	35	525.6	25.4	4.8	526	394 - 657	
Abbott Cell-Dyn 3200	16	276.7	17.2	6.2	274	207 - 346	16	515.8	32.4	6.3	514	386 - 645	
Abbott Cell-Dyn Ruby	14	289.8	12.8	4.4	288	217 - 363	14	537.1	14.4	2.7	538	402 - 672	
Specimen CL-13							Specimen CL-14						
All Method	35	81.6	7.0	8.5	81	61 - 102	33	529.4	18.8	3.5	530	397 - 662	
All Abbott Cell-Dyn Instruments	35	81.6	7.0	8.5	81	61 - 102	33	529.4	18.8	3.5	530	397 - 662	
Abbott Cell-Dyn 3200	16	79.1	6.1	7.7	79	59 - 99	14	523.9	21.2	4.0	531	392 - 655	
Abbott Cell-Dyn Ruby	14	80.6	5.5	6.8	81	60 - 101	14	535.8	15.2	2.8	533	401 - 670	
Specimen CL-15													
All Method	35	280.9	13.1	4.7	279	210 - 352							
All Abbott Cell-Dyn Instruments	35	280.9	13.1	4.7	279	210 - 352							
Abbott Cell-Dyn 3200	16	275.3	13.4	4.9	277	206 - 345							
Abbott Cell-Dyn Ruby	14	286.4	9.3	3.3	286	214 - 358							

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

Specimen CL-11							Specimen CL-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	66.06	0.74	1.1	66.1	63.8 - 68.3	32	77.18	1.10	1.4	77.1	73.8 - 80.5
All Abbott Cell-Dyn Instruments	33	66.06	0.74	1.1	66.1	63.8 - 68.3	32	77.18	1.10	1.4	77.1	73.8 - 80.5
Abbott Cell-Dyn 3200	14	65.95	0.74	1.1	66.2	63.7 - 68.2	14	76.89	1.34	1.7	76.8	72.8 - 80.9
Abbott Cell-Dyn Ruby	15	65.84	1.11	1.7	66.1	62.5 - 69.2	15	76.26	2.32	3.0	77.0	69.2 - 83.3
Specimen CL-13							Specimen CL-14					
All Method	33	49.44	1.23	2.5	49.3	45.7 - 53.2	32	76.88	0.66	0.9	77.1	74.9 - 78.9
All Abbott Cell-Dyn Instruments	33	49.44	1.23	2.5	49.3	45.7 - 53.2	32	76.88	0.66	0.9	77.1	74.9 - 78.9
Abbott Cell-Dyn 3200	13	48.95	0.77	1.6	49.0	46.6 - 51.3	13	76.58	0.76	1.0	76.7	74.2 - 78.9
Abbott Cell-Dyn Ruby	15	49.93	1.53	3.1	49.5	45.3 - 54.6	14	76.95	0.45	0.6	77.0	75.6 - 78.3
Specimen CL-15												
All Method	34	65.91	0.77	1.2	66.0	63.6 - 68.3						
All Abbott Cell-Dyn Instruments	34	65.91	0.77	1.2	66.0	63.6 - 68.3						
Abbott Cell-Dyn 3200	14	65.86	0.55	0.8	65.9	64.2 - 67.6						
Abbott Cell-Dyn Ruby	15	65.71	0.88	1.3	65.8	63.0 - 68.4						

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

Specimen CL-11							Specimen CL-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	33	25.35	0.93	3.7	25.5	22.5 - 28.2	34	17.01	1.99	11.7	16.5	11.0 - 23.0	
All Abbott Cell-Dyn Instruments	33	25.35	0.93	3.7	25.5	22.5 - 28.2	34	17.01	1.99	11.7	16.5	11.0 - 23.0	
Abbott Cell-Dyn 3200	15	25.08	1.00	4.0	25.3	22.0 - 28.1	16	17.48	2.33	13.3	17.0	10.4 - 24.5	
Abbott Cell-Dyn Ruby	14	25.91	1.51	5.8	25.9	21.3 - 30.5	14	17.36	2.70	15.5	16.6	9.2 - 25.5	
Specimen CL-13							Specimen CL-14						
All Method	34	40.24	1.30	3.2	40.2	36.3 - 44.2	33	16.90	1.37	8.1	16.6	12.7 - 21.0	
All Abbott Cell-Dyn Instruments	34	40.24	1.30	3.2	40.2	36.3 - 44.2	33	16.90	1.37	8.1	16.6	12.7 - 21.0	
Abbott Cell-Dyn 3200	15	40.49	0.87	2.2	40.4	37.8 - 43.2	15	17.36	1.72	9.9	17.1	12.1 - 22.6	
Abbott Cell-Dyn Ruby	14	39.67	1.50	3.8	39.7	35.1 - 44.2	13	16.25	0.63	3.9	16.0	14.3 - 18.2	
Specimen CL-15													
All Method	35	25.75	1.03	4.0	25.8	22.6 - 28.9							
All Abbott Cell-Dyn Instruments	35	25.75	1.03	4.0	25.8	22.6 - 28.9							
Abbott Cell-Dyn 3200	16	25.63	1.12	4.4	25.8	22.2 - 29.0							
Abbott Cell-Dyn Ruby	14	25.89	0.99	3.8	25.9	22.9 - 28.9							

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

Specimen CL-11							Specimen CL-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	3.54	0.51	14.4	3.5	2.0 - 5.1	34	2.29	0.68	29.6	2.5	0.2 - 4.4
All Abbott Cell-Dyn Instruments	33	3.54	0.51	14.4	3.5	2.0 - 5.1	34	2.29	0.68	29.6	2.5	0.2 - 4.4
Abbott Cell-Dyn 3200	13	3.69	0.51	13.9	3.7	2.1 - 5.3	14	2.07	0.89	42.9	2.5	0.0 - 4.8
Abbott Cell-Dyn Ruby	15	3.36	0.50	15.0	3.3	1.8 - 4.9	15	2.51	0.40	16.1	2.5	1.2 - 3.8
Specimen CL-13							Specimen CL-14					
All Method	34	5.27	0.77	14.6	5.4	2.9 - 7.6	35	2.22	0.88	39.7	2.7	0.0 - 4.9
All Abbott Cell-Dyn Instruments	34	5.27	0.77	14.6	5.4	2.9 - 7.6	35	2.22	0.88	39.7	2.7	0.0 - 4.9
Abbott Cell-Dyn 3200	15	4.95	1.54	31.2	4.9	0.3 - 9.6	15	1.76	0.99	56.3	1.6	0.0 - 4.8
Abbott Cell-Dyn Ruby	15	5.34	0.64	12.0	5.4	3.4 - 7.3	15	2.75	0.25	9.0	2.7	2.0 - 3.5
Specimen CL-15												
All Method	34	3.35	0.48	14.3	3.4	1.9 - 4.8						
All Abbott Cell-Dyn Instruments	34	3.35	0.48	14.3	3.4	1.9 - 4.8						
Abbott Cell-Dyn 3200	14	3.38	0.46	13.5	3.4	2.0 - 4.8						
Abbott Cell-Dyn Ruby	15	3.39	0.47	14.0	3.4	1.9 - 4.9						

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

Specimen CL-11							Specimen CL-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	4.56	0.31	6.8	4.5	3.6 - 5.5	35	3.46	0.27	7.9	3.5	2.6 - 4.3
All Abbott Cell-Dyn Instruments	35	4.56	0.31	6.8	4.5	3.6 - 5.5	35	3.46	0.27	7.9	3.5	2.6 - 4.3
Abbott Cell-Dyn 3200	15	4.61	0.25	5.4	4.7	3.8 - 5.4	14	3.51	0.13	3.6	3.5	3.1 - 3.9
Abbott Cell-Dyn Ruby	15	4.59	0.30	6.5	4.5	3.6 - 5.5	15	3.44	0.27	8.0	3.4	2.6 - 4.3
Specimen CL-13							Specimen CL-14					
All Method	35	4.41	0.42	9.4	4.4	3.1 - 5.7	34	3.40	0.23	6.7	3.4	2.7 - 4.1
All Abbott Cell-Dyn Instruments	35	4.41	0.42	9.4	4.4	3.1 - 5.7	34	3.40	0.23	6.7	3.4	2.7 - 4.1
Abbott Cell-Dyn 3200	15	4.44	0.48	10.8	4.4	3.0 - 5.9	14	3.46	0.21	6.2	3.5	2.8 - 4.2
Abbott Cell-Dyn Ruby	15	4.35	0.35	8.0	4.4	3.3 - 5.4	15	3.40	0.22	6.4	3.4	2.7 - 4.1
Specimen CL-15												
All Method	34	4.60	0.27	5.9	4.6	3.7 - 5.5						
All Abbott Cell-Dyn Instruments	34	4.60	0.27	5.9	4.6	3.7 - 5.5						
Abbott Cell-Dyn 3200	14	4.49	0.15	3.4	4.5	4.0 - 5.0						
Abbott Cell-Dyn Ruby	15	4.70	0.30	6.4	4.6	3.8 - 5.6						

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

Specimen CL-11							Specimen CL-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	35	0.34	0.22	64.0	0.3	0.0 - 1.0	35	0.47	0.26	56.8	0.5	0.0 - 1.3
All Abbott Cell-Dyn Instruments	35	0.34	0.22	64.0	0.3	0.0 - 1.0	35	0.47	0.26	56.8	0.5	0.0 - 1.3
Abbott Cell-Dyn 3200	15	0.41	0.27	65.4	0.4	0.0 - 1.3	15	0.43	0.31	73.3	0.5	0.0 - 1.4
Abbott Cell-Dyn Ruby	15	0.31	0.15	50.0	0.3	0.0 - 0.8	15	0.54	0.14	26.0	0.6	0.1 - 1.0
Specimen CL-13							Specimen CL-14					
All Method	35	0.71	0.38	53.6	0.7	0.0 - 1.9	35	0.48	0.30	62.5	0.6	0.0 - 1.4
All Abbott Cell-Dyn Instruments	35	0.71	0.38	53.6	0.7	0.0 - 1.9	35	0.48	0.30	62.5	0.6	0.0 - 1.4
Abbott Cell-Dyn 3200	15	0.84	0.41	49.0	0.8	0.0 - 2.1	15	0.35	0.32	90.7	0.2	0.0 - 1.4
Abbott Cell-Dyn Ruby	15	0.64	0.32	49.7	0.5	0.0 - 1.6	15	0.64	0.15	22.7	0.6	0.2 - 1.1
Specimen CL-15												
All Method	34	0.31	0.25	77.9	0.3	0.0 - 1.1						
All Abbott Cell-Dyn Instruments	34	0.31	0.25	77.9	0.3	0.0 - 1.1						
Abbott Cell-Dyn 3200	14	0.41	0.30	71.4	0.4	0.0 - 1.4						
Abbott Cell-Dyn Ruby	15	0.31	0.16	53.0	0.3	0.0 - 0.8						

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

Specimen SYX-11							Specimen SYX-12					
<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	8.09	0.21	2.6	8.1	6.8 - 9.3	54	20.91	0.47	2.2	20.9	17.7 - 24.1
All Sysmex Instruments	54	8.09	0.21	2.6	8.1	6.8 - 9.3	54	20.91	0.47	2.2	20.9	17.7 - 24.1
Sysmex K - 800,1000,4500,KX-21	33	7.96	0.14	1.8	8.0	6.7 - 9.2	33	20.70	0.36	1.7	20.7	17.5 - 23.9
Sysmex pocH-100i	21	8.28	0.15	1.8	8.3	7.0 - 9.6	21	21.24	0.43	2.0	21.2	18.0 - 24.5
Specimen SYX-13							Specimen SYX-14					
All Method	55	2.95	0.10	3.3	3.0	2.5 - 3.4	53	20.79	0.40	1.9	20.8	17.6 - 24.0
All Sysmex Instruments	55	2.95	0.10	3.3	3.0	2.5 - 3.4	53	20.79	0.40	1.9	20.8	17.6 - 24.0
Sysmex K - 800,1000,4500,KX-21	33	2.92	0.07	2.5	2.9	2.4 - 3.4	32	20.65	0.31	1.5	20.7	17.5 - 23.8
Sysmex pocH-100i	22	3.00	0.11	3.7	3.0	2.5 - 3.5	20	21.08	0.29	1.4	21.1	17.9 - 24.3
Specimen SYX-15												
All Method	55	8.03	0.20	2.5	8.0	6.8 - 9.3						
All Sysmex Instruments	55	8.03	0.20	2.5	8.0	6.8 - 9.3						
Sysmex K - 800,1000,4500,KX-21	33	7.96	0.19	2.4	8.0	6.7 - 9.2						
Sysmex pocH-100i	22	8.14	0.18	2.3	8.2	6.9 - 9.4						

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

Specimen SYX-11							Specimen SYX-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	55	4.278	0.055	1.3	4.28	4.02 - 4.54	55	5.889	0.082	1.4	5.88	5.53 - 6.25	
All Sysmex Instruments	55	4.278	0.055	1.3	4.28	4.02 - 4.54	55	5.889	0.082	1.4	5.88	5.53 - 6.25	
Sysmex K - 800,1000,4500,KX-21	32	4.263	0.035	0.8	4.26	4.00 - 4.52	33	5.871	0.054	0.9	5.87	5.51 - 6.23	
Sysmex pocH-100i	22	4.306	0.059	1.4	4.31	4.04 - 4.57	22	5.918	0.108	1.8	5.93	5.56 - 6.28	
Specimen SYX-13							Specimen SYX-14						
All Method	55	2.472	0.032	1.3	2.48	2.32 - 2.63	54	5.875	0.069	1.2	5.87	5.52 - 6.23	
All Sysmex Instruments	55	2.472	0.032	1.3	2.48	2.32 - 2.63	54	5.875	0.069	1.2	5.87	5.52 - 6.23	
Sysmex K - 800,1000,4500,KX-21	33	2.471	0.020	0.8	2.47	2.32 - 2.62	32	5.863	0.041	0.7	5.86	5.51 - 6.22	
Sysmex pocH-100i	22	2.474	0.045	1.8	2.49	2.32 - 2.63	21	5.900	0.088	1.5	5.89	5.54 - 6.26	
Specimen SYX-15													
All Method	55	4.293	0.058	1.3	4.29	4.03 - 4.56							
All Sysmex Instruments	55	4.293	0.058	1.3	4.29	4.03 - 4.56							
Sysmex K - 800,1000,4500,KX-21	33	4.276	0.044	1.0	4.28	4.01 - 4.54							
Sysmex pocH-100i	22	4.317	0.068	1.6	4.32	4.05 - 4.58							

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

Specimen SYX-11							Specimen SYX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	12.26	0.18	1.5	12.3	11.4 - 13.2	53	18.43	0.21	1.1	18.4	17.1 - 19.8
All Sysmex Instruments	55	12.26	0.18	1.5	12.3	11.4 - 13.2	53	18.43	0.21	1.1	18.4	17.1 - 19.8
Sysmex K - 800,1000,4500,KX-21	33	12.26	0.16	1.3	12.3	11.4 - 13.2	33	18.47	0.19	1.0	18.5	17.1 - 19.8
Sysmex pocH-100i	22	12.26	0.22	1.8	12.3	11.4 - 13.2	20	18.37	0.23	1.2	18.4	17.0 - 19.7
Specimen SYX-13							Specimen SYX-14					
All Method	55	6.28	0.11	1.8	6.3	5.8 - 6.8	53	18.42	0.23	1.2	18.4	17.1 - 19.8
All Sysmex Instruments	55	6.28	0.11	1.8	6.3	5.8 - 6.8	53	18.42	0.23	1.2	18.4	17.1 - 19.8
Sysmex K - 800,1000,4500,KX-21	33	6.32	0.11	1.8	6.3	5.8 - 6.8	33	18.49	0.18	1.0	18.5	17.1 - 19.8
Sysmex pocH-100i	22	6.23	0.09	1.5	6.3	5.7 - 6.7	20	18.31	0.24	1.3	18.3	17.0 - 19.6
Specimen SYX-15												
All Method	55	12.25	0.17	1.4	12.3	11.3 - 13.2						
All Sysmex Instruments	55	12.25	0.17	1.4	12.3	11.3 - 13.2						
Sysmex K - 800,1000,4500,KX-21	33	12.30	0.15	1.2	12.3	11.4 - 13.2						
Sysmex pocH-100i	22	12.16	0.17	1.4	12.2	11.3 - 13.1						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–HEMATOCRIT (percent)

Specimen SYX-11							Specimen SYX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	32.98	1.20	3.6	32.6	30.9 - 35.0	55	49.52	1.39	2.8	49.0	46.5 - 52.5
All Sysmex Instruments	55	32.98	1.20	3.6	32.6	30.9 - 35.0	55	49.52	1.39	2.8	49.0	46.5 - 52.5
Sysmex K - 800,1000,4500,KX-21	33	32.16	0.47	1.4	32.2	30.2 - 34.1	33	48.66	0.56	1.2	48.7	45.7 - 51.6
Sysmex pocH-100i	22	34.21	0.84	2.5	34.4	32.1 - 36.3	22	50.82	1.23	2.4	50.8	47.7 - 53.9
Specimen SYX-13							Specimen SYX-14					
All Method	55	17.32	0.54	3.1	17.2	16.2 - 18.4	54	49.38	1.35	2.7	49.1	46.4 - 52.4
All Sysmex Instruments	55	17.32	0.54	3.1	17.2	16.2 - 18.4	54	49.38	1.35	2.7	49.1	46.4 - 52.4
Sysmex K - 800,1000,4500,KX-21	33	16.98	0.22	1.3	17.0	15.9 - 18.1	32	48.66	0.52	1.1	48.8	45.7 - 51.6
Sysmex pocH-100i	22	17.83	0.48	2.7	17.8	16.7 - 18.9	21	50.60	1.27	2.5	50.4	47.5 - 53.7
Specimen SYX-15												
All Method	55	33.08	1.19	3.6	32.7	31.0 - 35.1						
All Sysmex Instruments	55	33.08	1.19	3.6	32.7	31.0 - 35.1						
Sysmex K - 800,1000,4500,KX-21	33	32.27	0.44	1.4	32.3	30.3 - 34.3						
Sysmex pocH-100i	22	34.29	0.89	2.6	34.2	32.2 - 36.4						

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

Specimen SYX-11							Specimen SYX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	55	185.7	9.2	4.9	185	139 - 233	55	369.9	22.4	6.1	371	277 - 463
All Sysmex Instruments	55	185.7	9.2	4.9	185	139 - 233	55	369.9	22.4	6.1	371	277 - 463
Sysmex K - 800,1000,4500,KX-21	33	189.0	8.4	4.4	188	141 - 237	33	382.5	15.5	4.1	379	286 - 479
Sysmex pocH-100i	22	180.7	8.1	4.5	181	135 - 226	22	351.0	17.3	4.9	355	263 - 439
Specimen SYX-13							Specimen SYX-14					
All Method	55	58.0	4.3	7.3	58	43 - 73	54	369.9	22.2	6.0	368	277 - 463
All Sysmex Instruments	55	58.0	4.3	7.3	58	43 - 73	54	369.9	22.2	6.0	368	277 - 463
Sysmex K - 800,1000,4500,KX-21	33	57.8	3.8	6.5	58	43 - 73	33	380.5	20.0	5.3	381	285 - 476
Sysmex pocH-100i	22	58.2	5.0	8.6	58	43 - 73	21	353.1	13.4	3.8	358	264 - 442
Specimen SYX-15												
All Method	55	185.5	9.3	5.0	186	139 - 232						
All Sysmex Instruments	55	185.5	9.3	5.0	186	139 - 232						
Sysmex K - 800,1000,4500,KX-21	33	187.4	9.5	5.1	187	140 - 235						
Sysmex pocH-100i	22	182.7	8.3	4.6	185	137 - 229						

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

Specimen SYX-11							Specimen SYX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	32.27	0.88	2.7	32.4	29.6 - 34.9	51	64.05	0.94	1.5	64.0	61.2 - 66.9
All Sysmex Instruments	51	32.27	0.88	2.7	32.4	29.6 - 34.9	51	64.05	0.94	1.5	64.0	61.2 - 66.9
Sysmex K - 800,1000,4500,KX-21	32	32.76	0.61	1.9	32.8	30.9 - 34.6	32	63.81	0.83	1.3	63.9	61.3 - 66.3
Sysmex pocH-100i	20	31.33	0.80	2.5	31.5	28.9 - 33.8	19	64.46	1.00	1.6	64.8	61.4 - 67.5
Specimen SYX-13							Specimen SYX-14					
All Method	52	11.32	1.10	9.7	11.5	8.0 - 14.7	51	63.79	0.76	1.2	63.6	61.4 - 66.1
All Sysmex Instruments	52	11.32	1.10	9.7	11.5	8.0 - 14.7	51	63.79	0.76	1.2	63.6	61.4 - 66.1
Sysmex K - 800,1000,4500,KX-21	31	12.05	0.60	5.0	12.1	10.2 - 13.9	32	63.62	0.77	1.2	63.6	61.3 - 66.0
Sysmex pocH-100i	20	10.28	0.69	6.7	10.2	8.2 - 12.4	19	64.06	0.69	1.1	64.1	61.9 - 66.2
Specimen SYX-15												
All Method	52	32.19	0.98	3.1	32.3	29.2 - 35.2						
All Sysmex Instruments	52	32.19	0.98	3.1	32.3	29.2 - 35.2						
Sysmex K - 800,1000,4500,KX-21	32	32.71	0.69	2.1	32.7	30.6 - 34.8						
Sysmex pocH-100i	20	31.37	0.81	2.6	31.4	28.9 - 33.8						

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

Specimen SYX-11							Specimen SYX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	15.43	1.36	8.8	15.5	11.3 - 19.6	51	10.33	0.86	8.3	10.3	7.7 - 13.0
All Sysmex Instruments	51	15.43	1.36	8.8	15.5	11.3 - 19.6	51	10.33	0.86	8.3	10.3	7.7 - 13.0
Sysmex K - 800,1000,4500,KX-21	31	16.09	1.01	6.3	15.9	13.0 - 19.2	31	10.75	0.68	6.4	10.8	8.6 - 12.9
Sysmex pocH-100i	20	14.40	1.20	8.3	14.4	10.8 - 18.0	20	9.68	0.68	7.0	9.8	7.6 - 11.8
Specimen SYX-13							Specimen SYX-14					
All Method	49	17.45	1.53	8.7	17.3	12.8 - 22.1	50	10.62	0.92	8.7	10.9	7.8 - 13.4
All Sysmex Instruments	49	17.45	1.53	8.7	17.3	12.8 - 22.1	50	10.62	0.92	8.7	10.9	7.8 - 13.4
Sysmex K - 800,1000,4500,KX-21	30	18.12	1.31	7.2	18.0	14.1 - 22.1	31	11.08	0.57	5.1	11.2	9.3 - 12.8
Sysmex pocH-100i	19	16.39	1.23	7.5	16.6	12.6 - 20.1	19	9.88	0.92	9.3	9.6	7.1 - 12.7
Specimen SYX-15												
All Method	50	15.31	0.96	6.3	15.4	12.4 - 18.2						
All Sysmex Instruments	50	15.31	0.96	6.3	15.4	12.4 - 18.2						
Sysmex K - 800,1000,4500,KX-21	31	15.84	1.00	6.3	15.7	12.8 - 18.9						
Sysmex pocH-100i	20	14.66	0.67	4.6	14.7	12.6 - 16.7						

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

Specimen SYX-11							Specimen SYX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	50	52.41	1.76	3.3	52.2	47.1 - 57.7	50	25.58	0.74	2.9	25.6	23.3 - 27.8
All Sysmex Instruments	50	52.41	1.76	3.3	52.2	47.1 - 57.7	50	25.58	0.74	2.9	25.6	23.3 - 27.8
Sysmex K - 800,1000,4500,KX-21	30	51.27	1.01	2.0	51.5	48.2 - 54.3	31	25.42	0.63	2.5	25.4	23.5 - 27.4
Sysmex pocH-100i	20	54.13	1.11	2.1	54.2	50.7 - 57.5	20	25.98	1.02	3.9	25.8	22.9 - 29.1
Specimen SYX-13							Specimen SYX-14					
All Method	50	71.16	2.23	3.1	71.2	64.4 - 77.9	50	25.66	0.87	3.4	25.6	23.0 - 28.3
All Sysmex Instruments	50	71.16	2.23	3.1	71.2	64.4 - 77.9	50	25.66	0.87	3.4	25.6	23.0 - 28.3
Sysmex K - 800,1000,4500,KX-21	31	69.83	1.47	2.1	69.9	65.4 - 74.3	31	25.41	0.71	2.8	25.5	23.2 - 27.6
Sysmex pocH-100i	19	73.32	1.42	1.9	73.4	69.0 - 77.6	19	26.05	0.99	3.8	25.9	23.0 - 29.1
Specimen SYX-15												
All Method	51	52.43	1.66	3.2	52.4	47.4 - 57.5						
All Sysmex Instruments	51	52.43	1.66	3.2	52.4	47.4 - 57.5						
Sysmex K - 800,1000,4500,KX-21	31	51.44	1.24	2.4	51.4	47.7 - 55.2						
Sysmex pocH-100i	20	53.98	0.81	1.5	53.9	51.5 - 56.5						

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

Specimen HD-11							Specimen HD-12					
<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	891	2.54	0.13	5.1	2.5	2.1 - 3.0	907	7.14	0.28	3.9	7.1	6.0 - 8.3
All Abbott Cell-Dyn Instruments	372	2.58	0.15	5.7	2.6	2.1 - 3.0	385	7.23	0.34	4.8	7.2	6.1 - 8.4
All ABX Instruments	116	2.45	0.08	3.1	2.4	2.0 - 2.9	117	6.96	0.19	2.7	7.0	5.9 - 8.1
All COULTER Instruments	321	2.55	0.11	4.5	2.5	2.1 - 3.0	323	7.13	0.17	2.4	7.1	6.0 - 8.3
All Danam/Drew Scientific Instruments	14	2.52	0.11	4.4	2.5	2.1 - 2.9	14	6.99	0.23	3.3	7.1	5.9 - 8.1
Abbott Cell-Dyn 1700	72	2.62	0.14	5.3	2.6	2.2 - 3.1	76	7.37	0.29	3.9	7.4	6.2 - 8.5
Abbott Cell-Dyn 1800	182	2.58	0.13	4.9	2.6	2.1 - 3.0	192	7.33	0.30	4.0	7.3	6.2 - 8.5
Abbott Cell-Dyn Emerald	111	2.55	0.14	5.4	2.5	2.1 - 3.0	112	6.92	0.32	4.6	6.9	5.8 - 8.0
ABX Diagnostics Micros/45/60	116	2.45	0.08	3.1	2.4	2.0 - 2.9	117	6.96	0.19	2.7	7.0	5.9 - 8.1
Boule Medonic CA 620	15	2.59	0.10	3.8	2.6	2.1 - 3.0	15	7.49	0.23	3.0	7.5	6.3 - 8.7
Boule Medonic M series	53	2.39	0.10	4.0	2.4	2.0 - 2.8	53	6.92	0.22	3.2	6.9	5.8 - 8.0
COULTER AcT 8/10	17	2.55	0.08	3.1	2.5	2.1 - 3.0	17	7.18	0.12	1.6	7.2	6.1 - 8.3
COULTER AcT diff/diff 2	300	2.55	0.12	4.5	2.5	2.1 - 3.0	304	7.13	0.18	2.5	7.1	6.0 - 8.2
Drew Scientific D3	14	2.52	0.11	4.4	2.5	2.1 - 2.9	14	6.99	0.23	3.3	7.1	5.9 - 8.1

Specimen HD-13							Specimen HD-14					
All Method	898	7.23	0.30	4.1	7.2	6.1 - 8.4	910	15.22	0.70	4.6	15.2	12.9 - 17.6
All Abbott Cell-Dyn Instruments	380	7.33	0.37	5.0	7.4	6.2 - 8.5	389	15.37	0.89	5.8	15.5	13.0 - 17.7
All ABX Instruments	117	7.07	0.18	2.5	7.1	6.0 - 8.2	115	15.08	0.36	2.4	15.1	12.8 - 17.4
All COULTER Instruments	320	7.23	0.19	2.6	7.2	6.1 - 8.4	321	15.24	0.34	2.2	15.2	12.9 - 17.6
All Danam/Drew Scientific Instruments	14	7.06	0.27	3.8	7.2	6.0 - 8.2	14	14.62	0.56	3.9	14.8	12.4 - 16.9
Abbott Cell-Dyn 1700	73	7.51	0.27	3.6	7.6	6.3 - 8.7	75	15.86	0.59	3.7	15.9	13.4 - 18.3
Abbott Cell-Dyn 1800	190	7.46	0.29	3.9	7.5	6.3 - 8.6	191	15.74	0.62	3.9	15.8	13.3 - 18.2
Abbott Cell-Dyn Emerald	113	6.98	0.30	4.3	7.0	5.9 - 8.1	112	14.39	0.56	3.9	14.5	12.2 - 16.6
ABX Diagnostics Micros/45/60	117	7.07	0.18	2.5	7.1	6.0 - 8.2	115	15.08	0.36	2.4	15.1	12.8 - 17.4
Boule Medonic CA 620	15	7.54	0.19	2.5	7.5	6.4 - 8.7	15	15.93	0.43	2.7	16.0	13.5 - 18.4
Boule Medonic M series	53	6.93	0.26	3.7	6.9	5.8 - 8.0	54	14.20	0.61	4.3	14.2	12.0 - 16.4
COULTER AcT 8/10	18	7.24	0.19	2.6	7.2	6.1 - 8.4	17	15.26	0.29	1.9	15.2	12.9 - 17.6
COULTER AcT diff/diff 2	298	7.23	0.19	2.6	7.2	6.1 - 8.4	300	15.24	0.34	2.2	15.2	12.9 - 17.6
Drew Scientific D3	14	7.06	0.27	3.8	7.2	6.0 - 8.2	14	14.62	0.56	3.9	14.8	12.4 - 16.9

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

Specimen HD-15

<u><i>Instrument</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	911	3.11	0.15	4.9	3.1	2.6 - 3.6
All Abbott Cell-Dyn Instruments	386	3.15	0.15	4.9	3.1	2.6 - 3.7
All ABX Instruments	116	2.97	0.08	2.7	3.0	2.5 - 3.5
All COULTER Instruments	322	3.14	0.11	3.5	3.1	2.6 - 3.7
All Danam/Drew Scientific Instruments	14	3.07	0.14	4.5	3.1	2.6 - 3.6
Abbott Cell-Dyn 1700	75	3.20	0.15	4.6	3.2	2.7 - 3.7
Abbott Cell-Dyn 1800	191	3.17	0.14	4.3	3.2	2.6 - 3.7
Abbott Cell-Dyn Emerald	112	3.09	0.15	4.7	3.1	2.6 - 3.6
ABX Diagnostics Micros/45/60	116	2.97	0.08	2.7	3.0	2.5 - 3.5
Boule Medonic CA 620	15	3.28	0.11	3.3	3.3	2.7 - 3.8
Boule Medonic M series	53	2.92	0.11	3.6	2.9	2.4 - 3.4
COULTER AcT 8/10	17	3.12	0.10	3.3	3.1	2.6 - 3.6
COULTER AcT diff/diff 2	296	3.14	0.10	3.2	3.1	2.6 - 3.7
Drew Scientific D3	14	3.07	0.14	4.5	3.1	2.6 - 3.6

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

Specimen HD-11

<u><i>Instrument</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	904	5.437	0.137	2.5	5.43	5.11 - 5.77
All Abbott Cell-Dyn Instruments	384	5.468	0.138	2.5	5.46	5.13 - 5.80
All ABX Instruments	115	5.466	0.106	1.9	5.46	5.13 - 5.80
All COULTER Instruments	320	5.380	0.133	2.5	5.37	5.05 - 5.71
All Danam/Drew Scientific Instruments	14	5.430	0.100	1.8	5.44	5.10 - 5.76
Abbott Cell-Dyn 1700	76	5.572	0.128	2.3	5.57	5.23 - 5.91
Abbott Cell-Dyn 1800	191	5.463	0.119	2.2	5.46	5.13 - 5.80
Abbott Cell-Dyn Emerald	110	5.406	0.135	2.5	5.40	5.08 - 5.74
ABX Diagnostics Micros/45/60	115	5.466	0.106	1.9	5.46	5.13 - 5.80
Boule Medonic CA 620	15	5.455	0.070	1.3	5.43	5.12 - 5.79
Boule Medonic M series	52	5.466	0.112	2.1	5.47	5.13 - 5.80
COULTER AcT 8/10	17	5.384	0.108	2.0	5.36	5.06 - 5.71
COULTER AcT diff/diff 2	299	5.381	0.136	2.5	5.37	5.05 - 5.71
Drew Scientific D3	14	5.430	0.100	1.8	5.44	5.10 - 5.76

Specimen HD-12

<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
910	4.497	0.119	2.6	4.49	4.22 - 4.77
385	4.552	0.118	2.6	4.56	4.27 - 4.83
117	4.481	0.086	1.9	4.47	4.21 - 4.76
323	4.449	0.108	2.4	4.44	4.18 - 4.72
14	4.479	0.100	2.2	4.48	4.21 - 4.75
78	4.602	0.097	2.1	4.61	4.32 - 4.88
192	4.585	0.098	2.1	4.58	4.30 - 4.86
109	4.452	0.113	2.5	4.45	4.18 - 4.72
117	4.481	0.086	1.9	4.47	4.21 - 4.76
15	4.444	0.048	1.1	4.45	4.17 - 4.72
53	4.447	0.087	2.0	4.44	4.17 - 4.72
17	4.492	0.085	1.9	4.47	4.22 - 4.77
302	4.447	0.109	2.5	4.44	4.18 - 4.72
14	4.479	0.100	2.2	4.48	4.21 - 4.75

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

Specimen HD-13							Specimen HD-14					
<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	903	2.643	0.100	3.8	2.62	2.48 - 2.81	907	2.588	0.097	3.7	2.57	2.43 - 2.75
All Abbott Cell-Dyn Instruments	386	2.712	0.099	3.7	2.72	2.54 - 2.88	387	2.659	0.095	3.6	2.68	2.49 - 2.82
All ABX Instruments	115	2.584	0.052	2.0	2.59	2.42 - 2.74	115	2.531	0.049	2.0	2.53	2.37 - 2.69
All COULTER Instruments	315	2.598	0.066	2.5	2.60	2.44 - 2.76	318	2.540	0.058	2.3	2.54	2.38 - 2.70
All Danam/Drew Scientific Instruments	14	2.641	0.079	3.0	2.61	2.48 - 2.80	14	2.555	0.045	1.8	2.57	2.40 - 2.71
Abbott Cell-Dyn 1700	76	2.720	0.070	2.6	2.72	2.55 - 2.89	76	2.671	0.055	2.1	2.68	2.51 - 2.84
Abbott Cell-Dyn 1800	189	2.770	0.061	2.2	2.77	2.60 - 2.94	190	2.721	0.054	2.0	2.71	2.55 - 2.89
Abbott Cell-Dyn Emerald	110	2.613	0.079	3.0	2.62	2.45 - 2.77	112	2.547	0.070	2.7	2.55	2.39 - 2.70
ABX Diagnostics Micros/45/60	115	2.584	0.052	2.0	2.59	2.42 - 2.74	115	2.531	0.049	2.0	2.53	2.37 - 2.69
Boule Medonic CA 620	15	2.595	0.035	1.3	2.59	2.43 - 2.76	15	2.533	0.043	1.7	2.54	2.38 - 2.69
Boule Medonic M series	52	2.579	0.047	1.8	2.58	2.42 - 2.74	53	2.522	0.051	2.0	2.52	2.37 - 2.68
COULTER AcT 8/10	16	2.599	0.032	1.2	2.61	2.44 - 2.76	17	2.545	0.039	1.5	2.55	2.39 - 2.70
COULTER AcT diff/diff 2	295	2.598	0.067	2.6	2.60	2.44 - 2.76	297	2.540	0.059	2.3	2.54	2.38 - 2.70
Drew Scientific D3	14	2.641	0.079	3.0	2.61	2.48 - 2.80	14	2.555	0.045	1.8	2.57	2.40 - 2.71
Specimen HD-15												
All Method	901	4.832	0.122	2.5	4.83	4.54 - 5.13						
All Abbott Cell-Dyn Instruments	383	4.881	0.128	2.6	4.89	4.58 - 5.18						
All ABX Instruments	116	4.827	0.087	1.8	4.83	4.53 - 5.12						
All COULTER Instruments	321	4.781	0.113	2.4	4.78	4.49 - 5.07						
All Danam/Drew Scientific Instruments	14	4.786	0.108	2.3	4.82	4.49 - 5.08						
Abbott Cell-Dyn 1700	76	4.937	0.107	2.2	4.94	4.64 - 5.24						
Abbott Cell-Dyn 1800	188	4.913	0.103	2.1	4.91	4.61 - 5.21						
Abbott Cell-Dyn Emerald	111	4.798	0.129	2.7	4.79	4.51 - 5.09						
ABX Diagnostics Micros/45/60	116	4.827	0.087	1.8	4.83	4.53 - 5.12						
Boule Medonic CA 620	15	4.830	0.066	1.4	4.82	4.54 - 5.12						
Boule Medonic M series	52	4.804	0.081	1.7	4.81	4.51 - 5.10						
COULTER AcT 8/10	16	4.779	0.078	1.6	4.78	4.49 - 5.07						
COULTER AcT diff/diff 2	298	4.780	0.111	2.3	4.78	4.49 - 5.07						
Drew Scientific D3	14	4.786	0.108	2.3	4.82	4.49 - 5.08						

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

Specimen HD-11							Specimen HD-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	916	16.79	0.39	2.3	16.8	15.6 - 18.0	916	13.46	0.31	2.3	13.5	12.5 - 14.5	
All Abbott Cell-Dyn Instruments	387	17.01	0.35	2.1	17.0	15.8 - 18.2	387	13.64	0.26	1.9	13.6	12.6 - 14.6	
All ABX Instruments	116	16.56	0.27	1.6	16.6	15.3 - 17.8	116	13.20	0.21	1.6	13.2	12.2 - 14.2	
All COULTER Instruments	320	16.61	0.34	2.1	16.6	15.4 - 17.8	323	13.34	0.28	2.1	13.3	12.4 - 14.3	
All Danam/Drew Scientific Instruments	14	16.77	0.25	1.5	16.9	15.5 - 18.0	14	13.36	0.20	1.5	13.3	12.4 - 14.3	
Abbott Cell-Dyn 1700	78	16.91	0.37	2.2	16.9	15.7 - 18.1	77	13.50	0.23	1.7	13.5	12.5 - 14.5	
Abbott Cell-Dyn 1800	193	17.08	0.34	2.0	17.1	15.8 - 18.3	192	13.75	0.22	1.6	13.8	12.7 - 14.8	
Abbott Cell-Dyn Emerald	110	16.98	0.32	1.9	17.0	15.7 - 18.2	110	13.56	0.27	2.0	13.6	12.6 - 14.6	
ABX Diagnostics Micros/45/60	116	16.56	0.27	1.6	16.6	15.3 - 17.8	116	13.20	0.21	1.6	13.2	12.2 - 14.2	
Boule Medonic CA 620	15	16.58	0.20	1.2	16.6	15.4 - 17.8	15	13.30	0.12	0.9	13.3	12.3 - 14.3	
Boule Medonic M series	53	16.81	0.37	2.2	16.8	15.6 - 18.0	53	13.52	0.25	1.9	13.5	12.5 - 14.5	
COULTER AcT 8/10	17	16.66	0.38	2.3	16.6	15.4 - 17.9	17	13.50	0.19	1.4	13.5	12.5 - 14.5	
COULTER AcT diff/diff 2	299	16.61	0.34	2.1	16.6	15.4 - 17.8	300	13.34	0.27	2.0	13.3	12.4 - 14.3	
Drew Scientific D3	14	16.77	0.25	1.5	16.9	15.5 - 18.0	14	13.36	0.20	1.5	13.3	12.4 - 14.3	

Specimen HD-13							Specimen HD-14						
All Method	915	8.64	0.23	2.7	8.6	8.0 - 9.3	912	8.47	0.23	2.7	8.4	7.8 - 9.1	
All Abbott Cell-Dyn Instruments	383	8.78	0.20	2.3	8.8	8.1 - 9.4	386	8.63	0.21	2.4	8.6	8.0 - 9.3	
All ABX Instruments	117	8.46	0.16	1.9	8.5	7.8 - 9.1	114	8.30	0.16	1.9	8.3	7.7 - 8.9	
All COULTER Instruments	323	8.54	0.19	2.2	8.5	7.9 - 9.2	321	8.35	0.17	2.1	8.4	7.7 - 9.0	
All Danam/Drew Scientific Instruments	14	8.54	0.17	1.9	8.5	7.9 - 9.2	14	8.34	0.18	2.2	8.3	7.7 - 9.0	
Abbott Cell-Dyn 1700	78	8.72	0.15	1.7	8.7	8.1 - 9.4	76	8.58	0.16	1.8	8.6	7.9 - 9.2	
Abbott Cell-Dyn 1800	190	8.88	0.16	1.8	8.9	8.2 - 9.6	189	8.75	0.15	1.7	8.7	8.1 - 9.4	
Abbott Cell-Dyn Emerald	111	8.62	0.21	2.5	8.6	8.0 - 9.3	111	8.45	0.16	1.9	8.4	7.8 - 9.1	
ABX Diagnostics Micros/45/60	117	8.46	0.16	1.9	8.5	7.8 - 9.1	114	8.30	0.16	1.9	8.3	7.7 - 8.9	
Boule Medonic CA 620	15	8.59	0.13	1.5	8.6	7.9 - 9.2	15	8.31	0.12	1.4	8.3	7.7 - 8.9	
Boule Medonic M series	52	8.70	0.17	2.0	8.7	8.0 - 9.4	53	8.49	0.17	2.0	8.5	7.8 - 9.1	
COULTER AcT 8/10	17	8.68	0.10	1.2	8.7	8.0 - 9.3	18	8.47	0.13	1.6	8.4	7.8 - 9.1	
COULTER AcT diff/diff 2	302	8.53	0.19	2.2	8.5	7.9 - 9.2	297	8.34	0.16	2.0	8.3	7.7 - 9.0	
Drew Scientific D3	14	8.54	0.17	1.9	8.5	7.9 - 9.2	14	8.34	0.18	2.2	8.3	7.7 - 9.0	

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

Specimen HD-15

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	912	14.41	0.31	2.2	14.4	13.3 - 15.5
All Abbott Cell-Dyn Instruments	385	14.60	0.26	1.8	14.6	13.5 - 15.7
All ABX Instruments	116	14.15	0.23	1.6	14.2	13.1 - 15.2
All COULTER Instruments	320	14.32	0.28	1.9	14.3	13.3 - 15.4
All Danam/Drew Scientific Instruments	14	14.24	0.22	1.5	14.2	13.2 - 15.3
Abbott Cell-Dyn 1700	77	14.45	0.23	1.6	14.5	13.4 - 15.5
Abbott Cell-Dyn 1800	190	14.68	0.24	1.6	14.7	13.6 - 15.8
Abbott Cell-Dyn Emerald	111	14.56	0.26	1.8	14.6	13.5 - 15.6
ABX Diagnostics Micros/45/60	116	14.15	0.23	1.6	14.2	13.1 - 15.2
Boule Medonic CA 620	15	14.23	0.13	0.9	14.3	13.2 - 15.3
Boule Medonic M series	52	14.28	0.24	1.7	14.3	13.2 - 15.3
COULTER AcT 8/10	17	14.41	0.36	2.5	14.5	13.3 - 15.5
COULTER AcT diff/diff 2	297	14.30	0.26	1.8	14.3	13.3 - 15.4
Drew Scientific D3	14	14.24	0.22	1.5	14.2	13.2 - 15.3

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

Specimen HD-11

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	911	52.56	1.82	3.5	52.5	49.4 - 55.8
All Abbott Cell-Dyn Instruments	388	53.75	1.48	2.7	53.7	50.5 - 57.0
All ABX Instruments	116	51.09	1.09	2.1	51.1	48.0 - 54.2
All COULTER Instruments	320	51.66	1.42	2.7	51.6	48.5 - 54.8
All Danam/Drew Scientific Instruments	14	53.72	0.82	1.5	53.7	50.4 - 57.0
Abbott Cell-Dyn 1700	76	53.83	1.57	2.9	53.7	50.5 - 57.1
Abbott Cell-Dyn 1800	194	53.64	1.50	2.8	53.6	50.4 - 56.9
Abbott Cell-Dyn Emerald	110	53.94	1.34	2.5	54.0	50.7 - 57.2
ABX Diagnostics Micros/45/60	116	51.09	1.09	2.1	51.1	48.0 - 54.2
Boule Medonic CA 620	15	50.41	1.59	3.1	50.3	47.3 - 53.5
Boule Medonic M series	52	52.59	1.55	2.9	52.4	49.4 - 55.8
COULTER AcT 8/10	18	52.26	1.42	2.7	52.1	49.1 - 55.4
COULTER AcT diff/diff 2	297	51.62	1.40	2.7	51.5	48.5 - 54.8
Drew Scientific D3	14	53.72	0.82	1.5	53.7	50.4 - 57.0

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
912	40.00	1.39	3.5	40.0	37.5 - 42.4
386	40.99	1.05	2.6	41.0	38.5 - 43.5
116	38.62	0.74	1.9	38.6	36.3 - 41.0
324	39.57	1.04	2.6	39.5	37.1 - 42.0
14	40.88	0.84	2.1	40.8	38.4 - 43.4
77	40.65	1.13	2.8	40.7	38.2 - 43.1
191	41.08	0.96	2.3	41.1	38.6 - 43.6
111	41.09	1.13	2.8	41.0	38.6 - 43.6
116	38.62	0.74	1.9	38.6	36.3 - 41.0
15	37.31	0.74	2.0	37.4	35.0 - 39.6
53	38.97	1.07	2.7	38.9	36.6 - 41.4
18	40.47	1.01	2.5	40.5	38.0 - 42.9
302	39.52	1.02	2.6	39.4	37.1 - 41.9
14	40.88	0.84	2.1	40.8	38.4 - 43.4

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

Specimen HD-13							Specimen HD-14					
<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	909	25.12	1.23	4.9	25.0	23.6 - 26.7	914	24.71	1.18	4.8	24.7	23.2 - 26.2
All Abbott Cell-Dyn Instruments	384	26.16	0.79	3.0	26.2	24.5 - 27.8	387	25.76	0.75	2.9	25.8	24.2 - 27.4
All ABX Instruments	114	23.46	0.48	2.1	23.5	22.0 - 24.9	115	23.22	0.49	2.1	23.1	21.8 - 24.7
All COULTER Instruments	321	24.68	0.64	2.6	24.7	23.1 - 26.2	321	24.24	0.58	2.4	24.3	22.7 - 25.7
All Danam/Drew Scientific Instruments	14	25.92	0.77	3.0	25.9	24.3 - 27.5	14	25.33	0.31	1.2	25.4	23.8 - 26.9
Abbott Cell-Dyn 1700	76	25.72	0.74	2.9	25.6	24.1 - 27.3	77	25.36	0.71	2.8	25.4	23.8 - 26.9
Abbott Cell-Dyn 1800	190	26.48	0.67	2.5	26.5	24.8 - 28.1	191	26.11	0.61	2.4	26.1	24.5 - 27.7
Abbott Cell-Dyn Emerald	110	25.99	0.77	3.0	26.1	24.4 - 27.6	112	25.48	0.73	2.9	25.5	23.9 - 27.1
ABX Diagnostics Micros/45/60	114	23.46	0.48	2.1	23.5	22.0 - 24.9	115	23.22	0.49	2.1	23.1	21.8 - 24.7
Boule Medonic CA 620	15	23.43	0.40	1.7	23.6	22.0 - 24.9	15	22.93	0.46	2.0	23.1	21.5 - 24.4
Boule Medonic M series	52	24.11	0.63	2.6	24.0	22.6 - 25.6	53	23.65	0.65	2.8	23.7	22.2 - 25.1
COULTER AcT 8/10	18	24.87	0.55	2.2	24.9	23.3 - 26.4	19	24.60	0.46	1.9	24.5	23.1 - 26.1
COULTER AcT diff/diff 2	299	24.66	0.64	2.6	24.7	23.1 - 26.2	298	24.22	0.59	2.4	24.3	22.7 - 25.7
Drew Scientific D3	14	25.92	0.77	3.0	25.9	24.3 - 27.5	14	25.33	0.31	1.2	25.4	23.8 - 26.9
Specimen HD-15												
All Method	910	43.15	1.46	3.4	43.1	40.5 - 45.8						
All Abbott Cell-Dyn Instruments	384	44.20	1.16	2.6	44.1	41.5 - 46.9						
All ABX Instruments	115	41.98	0.76	1.8	42.0	39.4 - 44.5						
All COULTER Instruments	320	42.58	1.06	2.5	42.6	40.0 - 45.2						
All Danam/Drew Scientific Instruments	14	43.79	1.03	2.4	43.8	41.1 - 46.5						
Abbott Cell-Dyn 1700	76	43.99	1.16	2.6	43.9	41.3 - 46.7						
Abbott Cell-Dyn 1800	189	44.18	1.05	2.4	44.1	41.5 - 46.9						
Abbott Cell-Dyn Emerald	111	44.46	1.25	2.8	44.4	41.7 - 47.2						
ABX Diagnostics Micros/45/60	115	41.98	0.76	1.8	42.0	39.4 - 44.5						
Boule Medonic CA 620	15	40.60	0.89	2.2	40.7	38.1 - 43.1						
Boule Medonic M series	52	42.21	1.06	2.5	42.2	39.6 - 44.8						
COULTER AcT 8/10	18	43.43	1.34	3.1	43.1	40.8 - 46.1						
COULTER AcT diff/diff 2	299	42.54	1.05	2.5	42.6	39.9 - 45.1						
Drew Scientific D3	14	43.79	1.03	2.4	43.8	41.1 - 46.5						

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

Specimen HD-11							Specimen HD-12						
<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	915	538.2	95.4	17.7	567	403 - 673	911	242.9	20.5	8.5	242	182 - 304	
All Abbott Cell-Dyn Instruments	387	618.0	39.4	6.4	618	463 - 773	388	254.9	15.5	6.1	254	191 - 319	
All ABX Instruments	115	574.7	23.2	4.0	577	431 - 719	116	255.1	14.3	5.6	255	191 - 319	
All COULTER Instruments	320	419.9	30.2	7.2	420	314 - 525	321	226.9	14.2	6.3	226	170 - 284	
All Danam/Drew Scientific Instruments	14	576.5	26.1	4.5	577	432 - 721	12	248.6	9.5	3.8	247	186 - 311	
Abbott Cell-Dyn 1700	78	652.8	36.7	5.6	649	489 - 816	78	258.7	17.7	6.8	256	194 - 324	
Abbott Cell-Dyn 1800	194	621.7	30.3	4.9	623	466 - 778	194	254.0	15.0	5.9	253	190 - 318	
Abbott Cell-Dyn Emerald	109	584.0	30.5	5.2	588	438 - 731	111	254.3	15.9	6.3	254	190 - 318	
ABX Diagnostics Micros/45/60	115	574.7	23.2	4.0	577	431 - 719	116	255.1	14.3	5.6	255	191 - 319	
Boule Medonic CA 620	15	560.8	20.8	3.7	563	420 - 701	13	225.9	10.4	4.6	221	169 - 283	
Boule Medonic M series	52	555.3	21.4	3.8	556	416 - 695	53	223.5	13.9	6.2	223	167 - 280	
COULTER AcT 8/10	17	418.8	29.7	7.1	426	314 - 524	17	221.5	17.4	7.9	222	166 - 277	
COULTER AcT diff/diff 2	300	419.2	29.5	7.0	420	314 - 525	299	227.2	13.7	6.0	226	170 - 284	
Drew Scientific D3	14	576.5	26.1	4.5	577	432 - 721	12	248.6	9.5	3.8	247	186 - 311	

Specimen HD-13							Specimen HD-14						
All Method	906	501.6	89.6	17.9	534	376 - 628	909	280.2	42.8	15.3	293	210 - 351	
All Abbott Cell-Dyn Instruments	381	556.5	32.1	5.8	556	417 - 696	386	308.5	20.0	6.5	308	231 - 386	
All ABX Instruments	113	574.0	21.5	3.7	574	430 - 718	115	317.1	14.9	4.7	318	237 - 397	
All COULTER Instruments	311	387.8	26.1	6.7	389	290 - 485	319	227.7	14.6	6.4	227	170 - 285	
All Danam/Drew Scientific Instruments	12	581.8	29.8	5.1	573	436 - 728	13	318.6	17.6	5.5	318	238 - 399	
Abbott Cell-Dyn 1700	75	571.9	22.5	3.9	572	428 - 715	77	316.9	15.1	4.8	317	237 - 397	
Abbott Cell-Dyn 1800	190	536.5	25.0	4.7	534	402 - 671	192	296.0	14.6	4.9	296	222 - 370	
Abbott Cell-Dyn Emerald	108	580.7	26.0	4.5	580	435 - 726	111	323.9	17.7	5.5	322	242 - 405	
ABX Diagnostics Micros/45/60	113	574.0	21.5	3.7	574	430 - 718	115	317.1	14.9	4.7	318	237 - 397	
Boule Medonic CA 620	13	513.2	15.6	3.0	518	384 - 642	15	283.5	14.4	5.1	282	212 - 355	
Boule Medonic M series	52	539.1	25.1	4.7	542	404 - 674	53	294.1	15.5	5.3	291	220 - 368	
COULTER AcT 8/10	16	370.6	24.0	6.5	367	277 - 464	17	221.1	17.5	7.9	220	165 - 277	
COULTER AcT diff/diff 2	292	388.2	25.6	6.6	389	291 - 486	298	227.8	14.2	6.2	228	170 - 285	
Drew Scientific D3	12	581.8	29.8	5.1	573	436 - 728	13	318.6	17.6	5.5	318	238 - 399	

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

Specimen HD-15

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	912	131.0	22.2	16.9	135	98 - 164
All Abbott Cell-Dyn Instruments	386	148.9	12.1	8.1	148	111 - 187
All ABX Instruments	114	140.3	9.1	6.5	140	105 - 176
All COULTER Instruments	320	106.1	8.4	8.0	105	79 - 133
All Danam/Drew Scientific Instruments	13	145.9	15.3	10.5	143	109 - 183
Abbott Cell-Dyn 1700	78	150.5	12.0	8.0	150	112 - 189
Abbott Cell-Dyn 1800	190	145.1	10.4	7.2	145	108 - 182
Abbott Cell-Dyn Emerald	111	153.6	12.8	8.3	153	115 - 192
ABX Diagnostics Micros/45/60	114	140.3	9.1	6.5	140	105 - 176
Boule Medonic CA 620	15	135.1	9.3	6.9	136	101 - 169
Boule Medonic M series	53	120.7	9.0	7.5	120	90 - 151
COULTER AcT 8/10	17	102.9	8.1	7.9	100	77 - 129
COULTER AcT diff/diff 2	300	106.2	8.4	7.9	106	79 - 133
Drew Scientific D3	13	145.9	15.3	10.5	143	109 - 183

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

Specimen HD-11

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	839	43.70	3.02	6.9	43.2	34.6 - 52.8
All Abbott Cell-Dyn Instruments	348	43.29	2.69	6.2	42.9	35.2 - 51.4
All ABX Instruments	115	42.33	1.46	3.4	42.4	37.9 - 46.8
All COULTER Instruments	296	43.44	1.56	3.6	43.5	38.7 - 48.2
All Danam/Drew Scientific Instruments	14	43.20	1.73	4.0	43.4	38.0 - 48.4
Abbott Cell-Dyn 1700	67	45.85	3.54	7.7	45.2	35.2 - 56.5
Abbott Cell-Dyn 1800	174	42.60	2.37	5.6	42.5	35.4 - 49.8
Abbott Cell-Dyn Emerald	105	42.96	2.11	4.9	42.6	36.6 - 49.3
ABX Diagnostics Micros/45/60	115	42.33	1.46	3.4	42.4	37.9 - 46.8
Boule Medonic CA 620	13	53.03	2.28	4.3	52.3	46.1 - 59.9
Boule Medonic M series	50	51.54	2.01	3.9	51.6	45.4 - 57.6
COULTER AcT 8/10	15	39.59	1.95	4.9	39.5	33.7 - 45.5
COULTER AcT diff/diff 2	283	43.58	1.39	3.2	43.5	39.4 - 47.8
Drew Scientific D3	14	43.20	1.73	4.0	43.4	38.0 - 48.4

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
853	33.47	1.20	3.6	33.5	29.8 - 37.1
357	33.11	1.12	3.4	33.1	29.7 - 36.5
115	33.13	0.72	2.2	33.1	30.9 - 35.3
289	34.33	0.70	2.0	34.3	32.2 - 36.5
14	33.70	0.73	2.2	33.7	31.5 - 35.9
68	33.74	0.87	2.6	33.7	31.1 - 36.4
183	32.47	0.90	2.8	32.5	29.7 - 35.2
104	33.87	1.03	3.0	33.7	30.7 - 37.0
115	33.13	0.72	2.2	33.1	30.9 - 35.3
15	34.05	1.04	3.1	34.1	30.9 - 37.2
52	31.50	1.39	4.4	31.7	27.3 - 35.7
15	32.01	1.92	6.0	31.3	26.2 - 37.8
284	34.34	0.69	2.0	34.3	32.2 - 36.5
14	33.70	0.73	2.2	33.7	31.5 - 35.9

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

Specimen HD-13							Specimen HD-14						
<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	844	33.97	1.21	3.6	34.0	30.3 - 37.6	857	44.14	1.50	3.4	43.8	39.6 - 48.7	
All Abbott Cell-Dyn Instruments	353	33.53	1.18	3.5	33.4	29.9 - 37.1	353	43.19	0.83	1.9	43.2	40.6 - 45.7	
All ABX Instruments	115	33.39	0.73	2.2	33.3	31.2 - 35.6	114	43.37	0.55	1.3	43.3	41.7 - 45.1	
All COULTER Instruments	288	34.90	0.69	2.0	34.9	32.8 - 37.0	287	45.69	0.55	1.2	45.7	44.0 - 47.4	
All Danam/Drew Scientific Instruments	14	34.16	0.69	2.0	34.1	32.0 - 36.3	14	43.94	0.45	1.0	43.9	42.5 - 45.3	
Abbott Cell-Dyn 1700	67	34.38	1.40	4.1	34.2	30.1 - 38.6	69	44.07	0.99	2.2	43.9	41.1 - 47.1	
Abbott Cell-Dyn 1800	178	33.09	1.09	3.3	33.0	29.8 - 36.4	180	42.82	0.77	1.8	42.8	40.5 - 45.2	
Abbott Cell-Dyn Emerald	105	33.77	0.93	2.7	33.7	30.9 - 36.6	104	43.33	0.53	1.2	43.4	41.7 - 45.0	
ABX Diagnostics Micros/45/60	115	33.39	0.73	2.2	33.3	31.2 - 35.6	114	43.37	0.55	1.3	43.3	41.7 - 45.1	
Boule Medonic CA 620	14	35.06	0.93	2.7	34.8	32.2 - 37.9	14	46.64	0.83	1.8	46.9	44.1 - 49.2	
Boule Medonic M series	51	32.87	1.48	4.5	33.0	28.4 - 37.4	51	43.53	1.53	3.5	43.6	38.9 - 48.2	
COULTER AcT 8/10	15	32.31	1.37	4.2	31.9	28.2 - 36.5	15	41.20	2.00	4.8	40.5	35.2 - 47.2	
COULTER AcT diff/diff 2	282	34.91	0.66	1.9	34.9	32.9 - 37.0	283	45.69	0.55	1.2	45.7	44.0 - 47.4	
Drew Scientific D3	14	34.16	0.69	2.0	34.1	32.0 - 36.3	14	43.94	0.45	1.0	43.9	42.5 - 45.3	
Specimen HD-15													
All Method	839	45.49	1.96	4.3	45.3	39.6 - 51.4							
All Abbott Cell-Dyn Instruments	354	45.11	1.82	4.0	44.9	39.6 - 50.6							
All ABX Instruments	112	44.28	1.32	3.0	44.2	40.3 - 48.3							
All COULTER Instruments	295	45.74	1.15	2.5	45.7	42.2 - 49.2							
All Danam/Drew Scientific Instruments	14	45.59	1.05	2.3	45.3	42.4 - 48.8							
Abbott Cell-Dyn 1700	69	47.43	2.16	4.5	47.3	40.9 - 53.9							
Abbott Cell-Dyn 1800	178	44.48	1.42	3.2	44.4	40.2 - 48.8							
Abbott Cell-Dyn Emerald	105	44.97	1.24	2.8	44.9	41.2 - 48.8							
ABX Diagnostics Micros/45/60	112	44.28	1.32	3.0	44.2	40.3 - 48.3							
Boule Medonic CA 620	15	51.56	2.33	4.5	51.0	44.5 - 58.6							
Boule Medonic M series	51	50.30	2.36	4.7	50.2	43.2 - 57.4							
COULTER AcT 8/10	15	42.85	1.82	4.3	42.7	37.3 - 48.4							
COULTER AcT diff/diff 2	285	45.80	1.10	2.4	45.8	42.4 - 49.2							
Drew Scientific D3	14	45.59	1.05	2.3	45.3	42.4 - 48.8							

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

Specimen HD-11							Specimen HD-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	841	15.76	4.06	25.8	16.7	3.5 - 28.0	840	4.82	1.16	24.0	5.2	1.3 - 8.3
All Abbott Cell-Dyn Instruments	355	15.02	2.84	18.9	15.7	6.5 - 23.6	359	4.62	1.07	23.2	4.8	1.4 - 7.9
All ABX Instruments	114	9.56	1.42	14.9	9.3	5.3 - 13.9	114	3.09	0.38	12.2	3.0	1.9 - 4.3
All COULTER Instruments	283	19.83	0.92	4.6	19.9	17.0 - 22.6	287	5.50	0.38	7.0	5.5	4.3 - 6.7
All Danam/Drew Scientific Instruments	14	14.36	1.43	9.9	14.6	10.0 - 18.7	14	4.14	0.17	4.2	4.1	3.6 - 4.7
Abbott Cell-Dyn 1700	68	14.72	1.36	9.3	14.8	10.6 - 18.9	69	4.49	0.33	7.3	4.5	3.5 - 5.5
Abbott Cell-Dyn 1800	175	17.35	1.19	6.8	17.4	13.7 - 21.0	176	5.50	0.48	8.8	5.5	4.0 - 7.0
Abbott Cell-Dyn Emerald	103	11.54	0.85	7.4	11.5	8.9 - 14.1	104	3.24	0.29	8.9	3.2	2.3 - 4.2
ABX Diagnostics Micros/45/60	114	9.56	1.42	14.9	9.3	5.3 - 13.9	114	3.09	0.38	12.2	3.0	1.9 - 4.3
Boule Medonic CA 620	15	14.49	2.08	14.4	14.6	8.2 - 20.8	15	6.42	0.66	10.3	6.4	4.4 - 8.5
Boule Medonic M series	50	12.98	2.04	15.7	12.9	6.8 - 19.2	50	6.00	0.97	16.1	6.0	3.1 - 9.0
COULTER AcT diff/diff 2	280	19.84	0.92	4.6	19.9	17.0 - 22.6	284	5.49	0.38	6.9	5.5	4.3 - 6.7
Drew Scientific D3	14	14.36	1.43	9.9	14.6	10.0 - 18.7	14	4.14	0.17	4.2	4.1	3.6 - 4.7

Specimen HD-13							Specimen HD-14					
All Method	841	8.33	2.44	29.3	9.2	1.0 - 15.7	839	9.68	2.91	30.1	10.9	0.9 - 18.5
All Abbott Cell-Dyn Instruments	359	7.89	2.09	26.5	8.8	1.6 - 14.2	359	9.22	2.52	27.3	10.5	1.6 - 16.8
All ABX Instruments	111	4.20	0.80	19.0	4.0	1.8 - 6.6	111	4.88	1.03	21.2	4.6	1.7 - 8.0
All COULTER Instruments	283	10.43	0.49	4.7	10.4	8.9 - 11.9	285	12.25	0.44	3.6	12.3	10.9 - 13.6
All Danam/Drew Scientific Instruments	14	8.61	0.63	7.4	8.5	6.7 - 10.6	14	10.44	0.73	7.0	10.3	8.2 - 12.7
Abbott Cell-Dyn 1700	69	8.68	0.61	7.0	8.7	6.8 - 10.5	70	10.33	0.59	5.7	10.3	8.5 - 12.1
Abbott Cell-Dyn 1800	176	9.42	0.59	6.3	9.4	7.6 - 11.2	176	11.08	0.54	4.9	11.1	9.4 - 12.8
Abbott Cell-Dyn Emerald	104	4.89	0.37	7.5	4.9	3.7 - 6.0	104	5.58	0.51	9.1	5.6	4.0 - 7.2
ABX Diagnostics Micros/45/60	111	4.20	0.80	19.0	4.0	1.8 - 6.6	111	4.88	1.03	21.2	4.6	1.7 - 8.0
Boule Medonic CA 620	14	8.99	0.92	10.2	9.1	6.2 - 11.8	14	9.40	0.47	5.0	9.5	8.0 - 10.8
Boule Medonic M series	50	8.36	0.79	9.5	8.4	5.9 - 10.8	48	8.78	0.53	6.1	8.9	7.1 - 10.4
COULTER AcT diff/diff 2	280	10.42	0.49	4.7	10.4	8.9 - 11.9	282	12.24	0.44	3.6	12.3	10.9 - 13.6
Drew Scientific D3	14	8.61	0.63	7.4	8.5	6.7 - 10.6	14	10.44	0.73	7.0	10.3	8.2 - 12.7

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

Specimen HD-15						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	836	14.73	4.05	27.5	15.7	2.5 - 26.9
All Abbott Cell-Dyn Instruments	357	13.74	2.90	21.1	14.9	5.0 - 22.5
All ABX Instruments	114	8.98	1.59	17.7	8.6	4.1 - 13.8
All COULTER Instruments	283	18.96	0.89	4.7	19.0	16.3 - 21.7
All Danam/Drew Scientific Instruments	14	14.15	0.80	5.6	14.3	11.7 - 16.6
Abbott Cell-Dyn 1700	71	14.31	0.92	6.5	14.4	11.5 - 17.1
Abbott Cell-Dyn 1800	175	16.06	0.82	5.1	16.0	13.5 - 18.6
Abbott Cell-Dyn Emerald	104	9.73	0.70	7.2	9.7	7.6 - 11.9
ABX Diagnostics Micros/45/60	114	8.98	1.59	17.7	8.6	4.1 - 13.8
Boule Medonic CA 620	15	13.27	2.39	18.0	13.6	6.1 - 20.5
Boule Medonic M series	49	11.48	2.64	23.0	11.2	3.5 - 19.5
COULTER AcT diff/diff 2	280	18.96	0.89	4.7	19.0	16.2 - 21.7
Drew Scientific D3	14	14.15	0.80	5.6	14.3	11.7 - 16.6

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

Specimen HD-11							Specimen HD-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	839	40.18	5.07	12.6	39.1	24.9 - 55.4	843	61.68	1.62	2.6	61.7	56.8 - 66.6
All Abbott Cell-Dyn Instruments	351	41.52	3.67	8.8	41.3	30.5 - 52.6	357	62.23	1.02	1.6	62.2	59.1 - 65.3
All ABX Instruments	113	48.14	2.29	4.8	48.6	41.2 - 55.1	113	63.78	0.89	1.4	63.9	61.1 - 66.5
All COULTER Instruments	283	36.53	1.43	3.9	36.5	32.2 - 40.9	287	60.16	0.73	1.2	60.2	57.9 - 62.4
All Danam/Drew Scientific Instruments	14	42.93	3.03	7.1	42.5	33.8 - 52.1	14	62.16	0.69	1.1	62.1	60.0 - 64.3
Abbott Cell-Dyn 1700	66	39.23	3.22	8.2	39.7	29.5 - 48.9	66	61.81	0.77	1.3	62.0	59.4 - 64.2
Abbott Cell-Dyn 1800	173	40.08	2.22	5.5	40.0	33.4 - 46.8	181	62.02	0.84	1.4	62.0	59.4 - 64.6
Abbott Cell-Dyn Emerald	105	45.50	2.18	4.8	45.7	38.9 - 52.1	104	62.88	1.05	1.7	63.0	59.7 - 66.1
ABX Diagnostics Micros/45/60	113	48.14	2.29	4.8	48.6	41.2 - 55.1	113	63.78	0.89	1.4	63.9	61.1 - 66.5
Boule Medonic CA 620	14	32.12	2.84	8.8	32.0	23.6 - 40.7	15	59.53	1.07	1.8	59.4	56.3 - 62.8
Boule Medonic M series	50	35.64	3.09	8.7	35.5	26.3 - 45.0	51	62.38	1.58	2.5	62.3	57.6 - 67.2
COULTER AcT diff/diff 2	280	36.53	1.42	3.9	36.5	32.2 - 40.8	284	60.17	0.73	1.2	60.2	57.9 - 62.4
Drew Scientific D3	14	42.93	3.03	7.1	42.5	33.8 - 52.1	14	62.16	0.69	1.1	62.1	60.0 - 64.3

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

<u>Instrument</u>	Specimen HD-13						Specimen HD-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	842	57.64	3.13	5.4	57.2	48.2 - 67.1	847	46.09	3.82	8.3	45.9	34.6 - 57.6
All Abbott Cell-Dyn Instruments	356	58.52	2.32	4.0	58.1	51.5 - 65.5	363	47.51	2.62	5.5	46.5	39.6 - 55.4
All ABX Instruments	112	62.43	1.30	2.1	62.8	58.5 - 66.4	111	51.72	1.32	2.6	52.0	47.7 - 55.7
All COULTER Instruments	283	54.68	0.76	1.4	54.7	52.4 - 57.0	285	42.05	0.67	1.6	42.0	40.0 - 44.1
All Danam/Drew Scientific Instruments	14	57.24	0.98	1.7	57.4	54.2 - 60.2	14	45.62	1.06	2.3	46.0	42.4 - 48.9
Abbott Cell-Dyn 1700	67	56.74	1.97	3.5	57.0	50.8 - 62.7	68	45.62	1.27	2.8	46.0	41.8 - 49.5
Abbott Cell-Dyn 1800	177	57.47	1.24	2.2	57.6	53.7 - 61.2	180	46.10	0.99	2.1	46.2	43.1 - 49.1
Abbott Cell-Dyn Emerald	105	61.32	1.02	1.7	61.4	58.2 - 64.4	104	51.09	0.82	1.6	51.0	48.6 - 53.6
ABX Diagnostics Micros/45/60	112	62.43	1.30	2.1	62.8	58.5 - 66.4	111	51.72	1.32	2.6	52.0	47.7 - 55.7
Boule Medonic CA 620	14	55.96	1.39	2.5	56.3	51.7 - 60.2	14	43.96	0.91	2.1	43.9	41.2 - 46.7
Boule Medonic M series	51	58.73	1.53	2.6	59.1	54.1 - 63.4	50	47.74	1.51	3.2	47.9	43.2 - 52.3
COULTER AcT diff/diff 2	280	54.69	0.76	1.4	54.7	52.4 - 57.0	282	42.06	0.67	1.6	42.0	40.0 - 44.1
Drew Scientific D3	14	57.24	0.98	1.7	57.4	54.2 - 60.2	14	45.62	1.06	2.3	46.0	42.4 - 48.9
Specimen HD-15												
All Method	845	39.46	4.65	11.8	38.7	25.5 - 53.4						
All Abbott Cell-Dyn Instruments	360	40.91	3.36	8.2	40.0	30.8 - 51.0						
All ABX Instruments	114	46.66	2.68	5.7	47.0	38.6 - 54.8						
All COULTER Instruments	287	35.25	1.16	3.3	35.2	31.7 - 38.8						
All Danam/Drew Scientific Instruments	14	40.26	1.42	3.5	40.4	35.9 - 44.6						
Abbott Cell-Dyn 1700	68	38.05	2.06	5.4	38.3	31.8 - 44.3						
Abbott Cell-Dyn 1800	179	39.45	1.51	3.8	39.3	34.9 - 44.0						
Abbott Cell-Dyn Emerald	104	45.30	1.34	3.0	45.2	41.2 - 49.4						
ABX Diagnostics Micros/45/60	114	46.66	2.68	5.7	47.0	38.6 - 54.8						
Boule Medonic CA 620	15	35.17	2.98	8.5	34.9	26.2 - 44.1						
Boule Medonic M series	52	38.13	3.36	8.8	38.2	28.0 - 48.3						
COULTER AcT diff/diff 2	284	35.25	1.16	3.3	35.2	31.7 - 38.8						
Drew Scientific D3	14	40.26	1.42	3.5	40.4	35.9 - 44.6						

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

Specimen DIF-11							Specimen DIF-12						
<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	21	9.48	0.19	2.0	9.5	8.0 - 10.9	21	21.92	0.49	2.2	21.9	18.6 - 25.3	
All COULTER Instruments	21	9.48	0.19	2.0	9.5	8.0 - 10.9	21	21.92	0.49	2.2	21.9	18.6 - 25.3	
Specimen DIF-13							Specimen DIF-14						
All Method	21	4.24	0.14	3.3	4.3	3.6 - 4.9	21	21.73	0.53	2.4	21.6	18.4 - 25.0	
All COULTER Instruments	21	4.24	0.14	3.3	4.3	3.6 - 4.9	21	21.73	0.53	2.4	21.6	18.4 - 25.0	
Specimen DIF-15													
All Method	21	9.54	0.25	2.6	9.5	8.1 - 11.0							
All COULTER Instruments	21	9.54	0.25	2.6	9.5	8.1 - 11.0							

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

Specimen DIF-11							Specimen DIF-12					
<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	21	3.992	0.073	1.8	4.00	3.75 - 4.24	21	5.347	0.073	1.4	5.34	5.02 - 5.67
All COULTER Instruments	21	3.992	0.073	1.8	4.00	3.75 - 4.24	21	5.347	0.073	1.4	5.34	5.02 - 5.67
Specimen DIF-13							Specimen DIF-14					
All Method	21	2.544	0.047	1.8	2.53	2.39 - 2.70	21	5.335	0.082	1.5	5.33	5.01 - 5.66
All COULTER Instruments	21	2.544	0.047	1.8	2.53	2.39 - 2.70	21	5.335	0.082	1.5	5.33	5.01 - 5.66
Specimen DIF-15												
All Method	21	3.980	0.069	1.7	4.00	3.74 - 4.22						
All COULTER Instruments	21	3.980	0.069	1.7	4.00	3.74 - 4.22						

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

Specimen DIF-11							Specimen DIF-12					
<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	21	12.12	0.22	1.8	12.1	11.2 - 13.0	21	16.88	0.31	1.9	16.9	15.6 - 18.1
All COULTER Instruments	21	12.12	0.22	1.8	12.1	11.2 - 13.0	21	16.88	0.31	1.9	16.9	15.6 - 18.1
Specimen DIF-13							Specimen DIF-14					
All Method	21	6.49	0.10	1.6	6.5	6.0 - 7.0	21	16.90	0.26	1.5	17.0	15.7 - 18.1
All COULTER Instruments	21	6.49	0.10	1.6	6.5	6.0 - 7.0	21	16.90	0.26	1.5	17.0	15.7 - 18.1
Specimen DIF-15												
All Method	21	12.11	0.18	1.5	12.1	11.2 - 13.0						
All COULTER Instruments	21	12.11	0.18	1.5	12.1	11.2 - 13.0						

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

Specimen DIF-11							Specimen DIF-12					
<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	21	37.19	0.96	2.6	37.2	34.9 - 39.5	20	53.63	1.01	1.9	53.8	50.4 - 56.9
All COULTER Instruments	21	37.19	0.96	2.6	37.2	34.9 - 39.5	20	53.63	1.01	1.9	53.8	50.4 - 56.9
Specimen DIF-13							Specimen DIF-14					
All Method	20	20.03	0.42	2.1	20.0	18.8 - 21.3	20	53.61	1.05	2.0	53.8	50.3 - 56.9
All COULTER Instruments	20	20.03	0.42	2.1	20.0	18.8 - 21.3	20	53.61	1.05	2.0	53.8	50.3 - 56.9
Specimen DIF-15												
All Method	21	37.20	0.93	2.5	37.5	34.9 - 39.5						
All COULTER Instruments	21	37.20	0.93	2.5	37.5	34.9 - 39.5						

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

Specimen DIF-11							Specimen DIF-12					
<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	21	234.8	11.1	4.7	233	176 - 294	20	422.0	16.7	4.0	424	316 - 528
All COULTER Instruments	21	234.8	11.1	4.7	233	176 - 294	20	422.0	16.7	4.0	424	316 - 528
Specimen DIF-13							Specimen DIF-14					
All Method	20	79.3	4.9	6.2	80	59 - 100	20	422.9	15.5	3.7	424	317 - 529
All COULTER Instruments	20	79.3	4.9	6.2	80	59 - 100	20	422.9	15.5	3.7	424	317 - 529
Specimen DIF-15												
All Method	21	231.5	14.9	6.4	230	173 - 290						
All COULTER Instruments	21	231.5	14.9	6.4	230	173 - 290						

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

Specimen DIF-11							Specimen DIF-12					
<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	57.98	2.16	3.7	57.4	51.4 - 64.5	20	66.26	1.78	2.7	66.0	60.9 - 71.6
All COULTER Instruments	20	57.98	2.16	3.7	57.4	51.4 - 64.5	20	66.26	1.78	2.7	66.0	60.9 - 71.6
Specimen DIF-13							Specimen DIF-14					
All Method	20	51.37	0.72	1.4	51.5	49.1 - 53.6	20	66.50	1.98	3.0	66.8	60.5 - 72.5
All COULTER Instruments	20	51.37	0.72	1.4	51.5	49.1 - 53.6	20	66.50	1.98	3.0	66.8	60.5 - 72.5
Specimen DIF-15												
All Method	20	57.77	2.28	3.9	57.2	50.9 - 64.6						
All COULTER Instruments	20	57.77	2.28	3.9	57.2	50.9 - 64.6						

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

Specimen DIF-11							Specimen DIF-12					
<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	30.39	1.12	3.7	30.7	27.0 - 33.8	20	21.44	1.21	5.7	21.4	17.8 - 25.1
All COULTER Instruments	20	30.39	1.12	3.7	30.7	27.0 - 33.8	20	21.44	1.21	5.7	21.4	17.8 - 25.1
Specimen DIF-13							Specimen DIF-14					
All Method	20	39.48	0.92	2.3	39.6	36.7 - 42.3	20	21.17	1.45	6.9	21.3	16.8 - 25.6
All COULTER Instruments	20	39.48	0.92	2.3	39.6	36.7 - 42.3	20	21.17	1.45	6.9	21.3	16.8 - 25.6
Specimen DIF-15												
All Method	20	30.08	1.15	3.8	30.2	26.6 - 33.6						
All COULTER Instruments	20	30.08	1.15	3.8	30.2	26.6 - 33.6						

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

Specimen DIF-11							Specimen DIF-12					
<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	4.55	1.95	43.0	4.9	0.0 - 10.5	20	6.29	1.69	26.9	6.4	1.2 - 11.4
All COULTER Instruments	20	4.55	1.95	43.0	4.9	0.0 - 10.5	20	6.29	1.69	26.9	6.4	1.2 - 11.4
Specimen DIF-13							Specimen DIF-14					
All Method	20	0.55	0.30	55.2	0.4	0.0 - 1.5	20	6.43	1.49	23.2	6.3	1.9 - 11.0
All COULTER Instruments	20	0.55	0.30	55.2	0.4	0.0 - 1.5	20	6.43	1.49	23.2	6.3	1.9 - 11.0
Specimen DIF-15												
All Method	20	5.26	2.03	38.5	5.8	0.0 - 11.4						
All COULTER Instruments	20	5.26	2.03	38.5	5.8	0.0 - 11.4						

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

Specimen DIF-11							Specimen DIF-12					
<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	6.56	0.40	6.0	6.7	5.3 - 7.8	20	5.03	0.38	7.6	5.1	3.8 - 6.2
All COULTER Instruments	20	6.56	0.40	6.0	6.7	5.3 - 7.8	20	5.03	0.38	7.6	5.1	3.8 - 6.2
Specimen DIF-13							Specimen DIF-14					
All Method	20	8.39	0.49	5.9	8.3	6.9 - 9.9	20	5.11	0.35	6.8	5.1	4.0 - 6.2
All COULTER Instruments	20	8.39	0.49	5.9	8.3	6.9 - 9.9	20	5.11	0.35	6.8	5.1	4.0 - 6.2
Specimen DIF-15												
All Method	20	6.57	0.46	7.0	6.6	5.1 - 8.0						
All COULTER Instruments	20	6.57	0.46	7.0	6.6	5.1 - 8.0						

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

Specimen DIF-11							Specimen DIF-12					
<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	0.42	0.37	88.4	0.3	0.0 - 1.6	20	0.72	0.70	97.0	0.5	0.0 - 2.9
All COULTER Instruments	19	0.42	0.37	88.4	0.3	0.0 - 1.6	20	0.72	0.70	97.0	0.5	0.0 - 2.9
Specimen DIF-13							Specimen DIF-14					
All Method	20	0.16	0.14	84.6	0.2	0.0 - 0.6	20	0.79	0.80	100.9	0.4	0.0 - 3.2
All COULTER Instruments	20	0.16	0.14	84.6	0.2	0.0 - 0.6	20	0.79	0.80	100.9	0.4	0.0 - 3.2
Specimen DIF-15												
All Method	19	0.31	0.19	62.2	0.3	0.0 - 0.9						
All COULTER Instruments	19	0.31	0.19	62.2	0.3	0.0 - 0.9						

QBC HEMATOLOGY–HEMATOCRIT (percent)

<u>Instrument</u>	Specimen QBC-11						Specimen QBC-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	36.87	1.51	4.1	37.6	34.6 - 39.1	12	29.46	1.33	4.5	29.7	27.6 - 31.3
QBC STAR - QBC STAR Tubes	5	36.90	1.26	3.4	36.8	34.6 - 39.2	5	29.52	0.95	3.2	29.5	27.7 - 31.3
	Specimen QBC-13						Specimen QBC-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	34.61	1.70	4.9	34.8	32.5 - 36.7	12	23.34	1.39	5.9	23.3	21.9 - 24.8
QBC STAR - QBC STAR Tubes	5	35.02	1.06	3.0	35.5	32.9 - 37.2	5	23.10	0.72	3.1	23.0	21.7 - 24.5
	Specimen QBC-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	34.32	1.56	4.5	34.4	32.2 - 36.4						
QBC STAR - QBC STAR Tubes	5	34.66	1.24	3.6	34.4	32.5 - 36.8						

QBC HEMATOLOGY–HEMOGLOBIN (g/dL)

<u>Instrument</u>	Specimen QBC-11						Specimen QBC-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	12.59	0.48	3.8	12.7	11.7 - 13.5	12	10.03	0.46	4.6	10.1	9.3 - 10.8
QBC STAR - QBC STAR Tubes	5	12.46	0.35	2.8	12.5	11.5 - 13.4	5	9.82	0.32	3.3	9.9	9.1 - 10.6
	Specimen QBC-13						Specimen QBC-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	11.86	0.54	4.5	11.9	11.0 - 12.7	12	7.93	0.48	6.1	7.9	7.3 - 8.5
QBC STAR - QBC STAR Tubes	5	11.74	0.24	2.1	11.8	10.9 - 12.6	5	7.64	0.15	2.0	7.6	7.1 - 8.2
	Specimen QBC-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	11.79	0.47	4.0	11.8	10.9 - 12.7						
QBC STAR - QBC STAR Tubes	5	11.66	0.26	2.2	11.6	10.8 - 12.5						

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

<u>Instrument</u>	Specimen QBC-11						Specimen QBC-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	16.67	2.54	15.2	19.4	14.1 - 19.2	7	9.37	1.45	15.5	9.3	7.9 - 10.8
QBC STAR - QBC STAR Tubes	5	26.98	2.28	8.5	27.3	22.9 - 31.1	5	10.60	1.19	11.2	10.5	9.0 - 12.2
	Specimen QBC-13						Specimen QBC-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	13.94	1.56	11.2	15.8	11.8 - 16.1	7	6.06	0.60	9.9	6.5	5.1 - 7.0
QBC STAR - QBC STAR Tubes	5	19.66	1.60	8.2	20.5	16.7 - 22.7	5	7.28	0.59	8.1	7.4	6.1 - 8.4
	Specimen QBC-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	14.77	1.76	11.9	18.0	12.5 - 17.0						
QBC STAR - QBC STAR Tubes	5	19.52	1.39	7.1	19.4	16.5 - 22.5						

QBC HEMATOLOGY–PLATELET COUNT (x 10⁹/L)

<u>Instrument</u>	Specimen QBC-11						Specimen QBC-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	117.4	14.5	12.4	136	88 - 147	7	280.3	42.1	15.0	327	210 - 351
QBC STAR - QBC STAR Tubes	5	186.6	4.9	2.6	186	139 - 234	5	404.8	64.8	16.0	369	303 - 506
	Specimen QBC-13						Specimen QBC-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	129.9	36.9	28.4	151	97 - 163	7	569.0	61.0	10.7	609	426 - 712
QBC STAR - QBC STAR Tubes	5	208.0	30.1	14.5	226	156 - 260	5	687.0	71.7	10.4	665	515 - 859
	Specimen QBC-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	124.0	27.1	21.8	153	93 - 155						
QBC STAR - QBC STAR Tubes	5	196.6	17.2	8.8	194	147 - 246						

QBC HEMATOLOGY–GRANULOCYTES (x 10⁹/L)

<u>Instrument</u>	Specimen QBC-11						Specimen QBC-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	6.48	1.43	22.1	5.9	2.1 - 10.8	12	5.63	1.04	18.6	5.3	2.4 - 8.8
QBC STAR - QBC STAR Tubes	5	6.78	1.22	18.0	6.9	3.1 - 10.5	5	5.52	0.79	14.4	5.5	3.1 - 8.0
	Specimen QBC-13						Specimen QBC-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	6.13	1.24	20.3	5.8	2.4 - 9.9	12	4.03	0.65	16.1	3.9	2.0 - 6.0
QBC STAR - QBC STAR Tubes	5	6.96	0.59	8.5	7.1	5.1 - 8.8	5	4.08	0.54	13.4	4.2	2.4 - 5.8
	Specimen QBC-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	6.13	1.31	21.4	5.7	2.1 - 10.1						
QBC STAR - QBC STAR Tubes	5	6.72	1.04	15.4	6.5	3.6 - 9.9						

QBC HEMATOLOGY–LYMPHS/MONO (x 10⁹/L)

<u>Instrument</u>	Specimen QBC-11						Specimen QBC-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	14.59	5.30	36.3	11.7	0.0 - 30.5	12	4.31	0.87	20.1	4.1	1.7 - 7.0
QBC STAR - QBC STAR Tubes	5	20.44	1.48	7.2	20.8	16.0 - 24.9	5	5.20	0.44	8.4	5.3	3.8 - 6.6
	Specimen QBC-13						Specimen QBC-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	10.25	2.40	23.4	9.0	3.0 - 17.5	12	2.48	0.62	24.9	2.4	0.6 - 4.4
QBC STAR - QBC STAR Tubes	5	12.82	1.04	8.1	13.2	9.6 - 16.0	5	3.06	0.38	12.4	3.0	1.9 - 4.2
	Specimen QBC-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	9.98	2.13	21.4	9.4	3.5 - 16.4						
QBC STAR - QBC STAR Tubes	5	11.88	1.77	14.9	12.0	6.5 - 17.2						

RETICULOCYTE COUNT (percent)

Specimen RT-5							Specimen RT-6					
<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	6.99	2.63	37.5	6.9	0.0 - 14.9	37	3.39	1.13	33.3	3.3	0.0 - 6.8
All Automated Methods	21	5.82	1.59	27.4	6.2	1.0 - 10.7	21	2.78	0.74	26.6	2.8	0.5 - 5.0
All Manual Methods	16	8.91	2.31	25.9	9.0	1.9 - 15.9	17	4.70	1.86	39.6	4.3	0.0 - 10.3
Manual-New Methylen Blue Stain	11	12.04	6.20	51.6	10.3	0.0 - 30.7	11	5.46	1.89	34.7	4.8	0.0 - 11.2

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

Specimen BCX-11							Specimen BCX-12					
<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	44	9.62	0.30	3.2	9.6	8.1 - 11.1	46	7.16	0.35	4.9	7.1	6.0 - 8.3
All ABX Instruments	28	9.58	0.31	3.3	9.6	8.1 - 11.1	30	7.14	0.38	5.3	7.0	6.0 - 8.3
All COULTER Instruments	16	9.69	0.28	2.9	9.7	8.2 - 11.2	16	7.20	0.31	4.2	7.2	6.1 - 8.3
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	9.52	0.30	3.2	9.6	8.0 - 11.0	17	7.08	0.23	3.2	7.0	6.0 - 8.2
ABX Diagnostics Pentra 80 / XL 80	12	9.78	0.47	4.8	9.6	8.3 - 11.3	12	7.14	0.44	6.2	7.1	6.0 - 8.3
COULTER AcT 5diff (version 2.01)	11	9.72	0.32	3.3	9.8	8.2 - 11.2	11	7.23	0.36	5.0	7.2	6.1 - 8.4
Specimen BCX-13							Specimen BCX-14					
All Method	45	2.94	0.12	4.1	2.9	2.5 - 3.4	43	27.31	0.80	2.9	27.3	23.2 - 31.5
All ABX Instruments	30	2.95	0.15	5.2	2.9	2.5 - 3.4	28	27.39	1.01	3.7	27.3	23.2 - 31.5
All COULTER Instruments	16	2.96	0.10	3.2	3.0	2.5 - 3.5	16	27.39	0.83	3.0	27.6	23.2 - 31.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	2.92	0.14	4.9	2.9	2.4 - 3.4	17	27.29	0.85	3.1	27.3	23.1 - 31.4
ABX Diagnostics Pentra 80 / XL 80	12	3.00	0.17	5.5	3.0	2.5 - 3.5	12	27.13	1.83	6.8	27.1	23.0 - 31.3
COULTER AcT 5diff (version 2.01)	11	2.97	0.11	3.7	3.0	2.5 - 3.5	11	27.63	0.86	3.1	27.8	23.4 - 31.8
Specimen BCX-15												
All Method	42	16.76	0.47	2.8	16.7	14.2 - 19.3						
All ABX Instruments	29	16.94	0.79	4.7	16.7	14.3 - 19.5						
All COULTER Instruments	15	16.75	0.52	3.1	16.8	14.2 - 19.3						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	16	16.70	0.26	1.5	16.7	14.1 - 19.3						
ABX Diagnostics Pentra 80 / XL 80	12	16.64	1.25	7.5	16.6	14.1 - 19.2						
COULTER AcT 5diff (version 2.01)	11	16.52	1.14	6.9	17.0	14.0 - 19.0						

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

Specimen BCX-11							Specimen BCX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	46	2.573	0.056	2.2	2.58	2.41 - 2.73	45	5.960	0.108	1.8	5.96	5.60 - 6.32
All ABX Instruments	30	2.560	0.053	2.1	2.57	2.40 - 2.72	30	5.944	0.112	1.9	5.96	5.58 - 6.31
All COULTER Instruments	16	2.598	0.055	2.1	2.61	2.44 - 2.76	16	6.018	0.140	2.3	5.99	5.65 - 6.38
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	2.577	0.047	1.8	2.59	2.42 - 2.74	18	5.918	0.092	1.6	5.91	5.56 - 6.28
ABX Diagnostics Pentra 80 / XL 80	12	2.534	0.054	2.1	2.54	2.38 - 2.69	12	5.982	0.131	2.2	6.01	5.62 - 6.35
COULTER AcT 5diff (version 2.01)	11	2.618	0.047	1.8	2.61	2.46 - 2.78	11	6.033	0.156	2.6	5.99	5.67 - 6.40
Specimen BCX-13							Specimen BCX-14					
All Method	46	2.577	0.059	2.3	2.58	2.42 - 2.74	46	3.150	0.076	2.4	3.13	2.96 - 3.34
All ABX Instruments	30	2.566	0.054	2.1	2.57	2.41 - 2.73	30	3.130	0.065	2.1	3.13	2.94 - 3.32
All COULTER Instruments	16	2.597	0.063	2.4	2.60	2.44 - 2.76	16	3.186	0.084	2.6	3.19	2.99 - 3.38
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	2.584	0.046	1.8	2.58	2.42 - 2.74	18	3.159	0.055	1.7	3.16	2.96 - 3.35
ABX Diagnostics Pentra 80 / XL 80	12	2.539	0.056	2.2	2.54	2.38 - 2.70	12	3.088	0.056	1.8	3.10	2.90 - 3.28
COULTER AcT 5diff (version 2.01)	11	2.628	0.044	1.7	2.62	2.47 - 2.79	11	3.194	0.085	2.7	3.20	3.00 - 3.39
Specimen BCX-15												
All Method	45	5.425	0.091	1.7	5.43	5.09 - 5.76						
All ABX Instruments	30	5.402	0.093	1.7	5.40	5.07 - 5.73						
All COULTER Instruments	15	5.470	0.069	1.3	5.45	5.14 - 5.80						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	5.384	0.090	1.7	5.38	5.06 - 5.71						
ABX Diagnostics Pentra 80 / XL 80	12	5.429	0.096	1.8	5.42	5.10 - 5.76						
COULTER AcT 5diff (version 2.01)	11	5.579	0.367	6.6	5.45	5.24 - 5.92						

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

Specimen BCX-11							Specimen BCX-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	46	7.36	0.17	2.3	7.4	6.8 - 7.9	45	19.35	0.30	1.5	19.4	17.9 - 20.8	
All ABX Instruments	30	7.29	0.14	2.0	7.3	6.7 - 7.8	30	19.41	0.29	1.5	19.4	18.0 - 20.8	
All COULTER Instruments	16	7.49	0.13	1.7	7.5	6.9 - 8.1	16	19.33	0.41	2.1	19.3	17.9 - 20.7	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	7.32	0.14	2.0	7.3	6.8 - 7.9	18	19.46	0.32	1.6	19.4	18.0 - 20.9	
ABX Diagnostics Pentra 80 / XL 80	12	7.23	0.13	1.8	7.3	6.7 - 7.8	12	19.33	0.25	1.3	19.4	17.9 - 20.7	
COULTER AcT 5diff (version 2.01)	11	7.52	0.15	2.0	7.5	6.9 - 8.1	11	19.39	0.46	2.4	19.3	18.0 - 20.8	
Specimen BCX-13							Specimen BCX-14						
All Method	46	6.55	0.14	2.2	6.6	6.0 - 7.1	46	7.99	0.18	2.3	8.0	7.4 - 8.6	
All ABX Instruments	30	6.49	0.13	2.0	6.5	6.0 - 7.0	30	7.91	0.14	1.7	7.9	7.3 - 8.5	
All COULTER Instruments	16	6.66	0.10	1.5	6.6	6.1 - 7.2	16	8.13	0.17	2.1	8.1	7.5 - 8.8	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	6.53	0.12	1.8	6.5	6.0 - 7.0	18	7.95	0.13	1.6	7.9	7.3 - 8.6	
ABX Diagnostics Pentra 80 / XL 80	12	6.44	0.13	2.0	6.4	5.9 - 6.9	12	7.86	0.14	1.8	7.9	7.3 - 8.5	
COULTER AcT 5diff (version 2.01)	11	6.68	0.12	1.7	6.7	6.2 - 7.2	11	8.12	0.17	2.0	8.1	7.5 - 8.7	
Specimen BCX-15													
All Method	45	16.03	0.24	1.5	16.0	14.9 - 17.2							
All ABX Instruments	30	16.05	0.26	1.6	16.0	14.9 - 17.2							
All COULTER Instruments	15	16.01	0.21	1.3	16.0	14.8 - 17.2							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	16.08	0.27	1.7	16.0	14.9 - 17.3							
ABX Diagnostics Pentra 80 / XL 80	12	16.00	0.25	1.6	16.0	14.8 - 17.2							
COULTER AcT 5diff (version 2.01)	11	16.33	1.01	6.2	16.0	15.1 - 17.5							

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

Specimen BCX-11							Specimen BCX-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	46	21.24	0.53	2.5	21.3	19.9 - 22.6	45	54.25	1.16	2.1	54.4	50.9 - 57.6	
All ABX Instruments	30	21.12	0.55	2.6	21.1	19.8 - 22.4	30	54.04	1.16	2.2	54.2	50.8 - 57.3	
All COULTER Instruments	16	21.48	0.40	1.9	21.5	20.1 - 22.8	15	54.65	1.09	2.0	54.6	51.3 - 58.0	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	20.93	0.40	1.9	21.0	19.6 - 22.2	18	54.07	0.83	1.5	54.1	50.8 - 57.4	
ABX Diagnostics Pentra 80 / XL 80	12	21.39	0.64	3.0	21.6	20.1 - 22.7	12	54.01	1.58	2.9	54.5	50.7 - 57.3	
COULTER AcT 5diff (version 2.01)	11	21.48	0.41	1.9	21.5	20.1 - 22.8	11	55.48	1.82	3.3	54.7	52.1 - 58.9	
Specimen BCX-13							Specimen BCX-14						
All Method	45	19.24	0.41	2.1	19.2	18.0 - 20.4	45	23.78	0.52	2.2	23.8	22.3 - 25.3	
All ABX Instruments	29	19.15	0.42	2.2	19.1	17.9 - 20.3	30	23.67	0.49	2.1	23.8	22.2 - 25.1	
All COULTER Instruments	16	19.42	0.33	1.7	19.4	18.2 - 20.6	16	24.13	0.70	2.9	24.0	22.6 - 25.6	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	18.99	0.28	1.5	19.0	17.8 - 20.2	18	23.58	0.42	1.8	23.7	22.1 - 25.0	
ABX Diagnostics Pentra 80 / XL 80	12	19.38	0.49	2.5	19.4	18.2 - 20.6	12	23.82	0.57	2.4	24.0	22.3 - 25.3	
COULTER AcT 5diff (version 2.01)	11	19.47	0.34	1.8	19.5	18.3 - 20.7	11	24.06	0.74	3.1	24.0	22.6 - 25.6	
Specimen BCX-15													
All Method	44	45.88	0.91	2.0	46.0	43.1 - 48.7							
All ABX Instruments	29	45.70	0.98	2.1	45.8	42.9 - 48.5							
All COULTER Instruments	15	46.23	0.68	1.5	46.1	43.4 - 49.1							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	45.65	0.90	2.0	45.7	42.9 - 48.4							
ABX Diagnostics Pentra 80 / XL 80	12	45.78	1.12	2.4	45.9	43.0 - 48.6							
COULTER AcT 5diff (version 2.01)	11	47.45	3.63	7.6	46.2	44.6 - 50.4							

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

Specimen BCX-11							Specimen BCX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	46	83.3	5.0	6.0	83	62 - 105	45	302.4	13.6	4.5	303	226 - 379
All ABX Instruments	30	83.3	5.2	6.3	84	62 - 105	29	302.1	12.6	4.2	303	226 - 378
All COULTER Instruments	16	83.3	4.8	5.7	83	62 - 105	16	302.9	15.7	5.2	304	227 - 379
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	83.9	6.0	7.2	85	62 - 105	18	302.3	16.4	5.4	300	226 - 378
ABX Diagnostics Pentra 80 / XL 80	12	82.3	3.9	4.7	83	61 - 103	12	305.9	13.9	4.5	306	229 - 383
COULTER AcT 5diff (version 2.01)	11	84.5	4.9	5.8	83	63 - 106	11	305.7	17.3	5.7	306	229 - 383
Specimen BCX-13							Specimen BCX-14					
All Method	46	122.7	6.2	5.0	121	92 - 154	46	397.2	17.8	4.5	396	297 - 497
All ABX Instruments	30	122.1	6.4	5.2	121	91 - 153	30	397.1	15.9	4.0	397	297 - 497
All COULTER Instruments	16	123.8	5.9	4.7	125	92 - 155	16	397.4	21.5	5.4	396	298 - 497
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	123.4	6.8	5.5	122	92 - 155	18	396.6	18.2	4.6	397	297 - 496
ABX Diagnostics Pentra 80 / XL 80	12	120.1	5.4	4.5	120	90 - 151	12	397.9	12.6	3.2	398	298 - 498
COULTER AcT 5diff (version 2.01)	11	125.9	4.1	3.3	126	94 - 158	11	400.5	19.5	4.9	396	300 - 501
Specimen BCX-15												
All Method	46	309.4	14.9	4.8	309	232 - 387						
All ABX Instruments	30	307.6	14.9	4.8	306	230 - 385						
All COULTER Instruments	16	312.9	14.7	4.7	312	234 - 392						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	304.3	14.6	4.8	304	228 - 381						
ABX Diagnostics Pentra 80 / XL 80	12	312.4	14.6	4.7	315	234 - 391						
COULTER AcT 5diff (version 2.01)	11	314.5	14.6	4.6	311	235 - 394						

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

Specimen BCX-11							Specimen BCX-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	46	57.94	4.64	8.0	58.2	44.0 - 71.9	46	47.32	3.78	8.0	47.4	35.9 - 58.7	
All ABX Instruments	30	59.58	3.82	6.4	59.9	48.1 - 71.1	30	49.02	3.14	6.4	49.0	39.6 - 58.5	
All COULTER Instruments	16	54.87	4.57	8.3	55.8	41.1 - 68.6	16	44.12	2.68	6.1	44.5	36.0 - 52.2	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	61.39	2.83	4.6	61.7	52.9 - 69.9	18	50.12	2.72	5.4	50.3	41.9 - 58.3	
ABX Diagnostics Pentra 80 / XL 80	12	56.86	3.55	6.2	57.6	46.2 - 67.6	12	47.38	3.10	6.5	47.2	38.0 - 56.7	
COULTER AcT 5diff (version 2.01)	11	56.19	4.25	7.6	57.0	43.4 - 69.0	11	44.43	2.16	4.9	44.8	37.9 - 51.0	
Specimen BCX-13							Specimen BCX-14						
All Method	46	58.59	5.26	9.0	58.5	42.8 - 74.4	46	64.05	5.68	8.9	64.5	47.0 - 81.1	
All ABX Instruments	30	60.74	4.85	8.0	60.6	46.1 - 75.3	29	66.70	3.86	5.8	66.1	55.1 - 78.3	
All COULTER Instruments	16	54.56	3.29	6.0	55.4	44.6 - 64.5	16	60.28	4.76	7.9	61.2	45.9 - 74.6	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	61.97	4.65	7.5	61.5	48.0 - 76.0	18	68.60	3.07	4.5	69.0	59.3 - 77.9	
ABX Diagnostics Pentra 80 / XL 80	12	58.91	4.75	8.1	59.8	44.6 - 73.2	12	62.27	5.34	8.6	63.2	46.2 - 78.3	
COULTER AcT 5diff (version 2.01)	11	54.76	3.34	6.1	55.5	44.7 - 64.8	11	61.75	4.12	6.7	63.1	49.3 - 74.2	
Specimen BCX-15													
All Method	46	49.57	4.35	8.8	50.4	36.5 - 62.7							
All ABX Instruments	30	51.63	3.24	6.3	51.8	41.9 - 61.4							
All COULTER Instruments	16	45.71	3.49	7.6	45.6	35.2 - 56.2							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	52.68	2.97	5.6	53.2	43.7 - 61.6							
ABX Diagnostics Pentra 80 / XL 80	12	50.07	3.09	6.2	50.3	40.7 - 59.4							
COULTER AcT 5diff (version 2.01)	11	46.50	3.61	7.8	46.4	35.6 - 57.4							

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

Specimen BCX-11							Specimen BCX-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	46	29.21	3.98	13.6	29.3	17.2 - 41.2	46	35.43	3.10	8.7	34.9	26.1 - 44.8	
All ABX Instruments	30	28.99	3.54	12.2	28.9	18.3 - 39.6	30	36.15	3.13	8.7	36.2	26.7 - 45.6	
All COULTER Instruments	16	29.62	4.81	16.3	30.5	15.1 - 44.1	16	34.10	2.63	7.7	33.9	26.1 - 42.1	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	27.36	2.46	9.0	27.5	19.9 - 34.8	18	35.26	2.59	7.4	34.9	27.4 - 43.1	
ABX Diagnostics Pentra 80 / XL 80	12	31.43	3.57	11.3	30.9	20.7 - 42.2	12	37.48	3.49	9.3	37.9	27.0 - 48.0	
COULTER AcT 5diff (version 2.01)	11	27.86	4.45	16.0	27.3	14.5 - 41.2	11	33.56	1.95	5.8	33.8	27.6 - 39.5	
Specimen BCX-13							Specimen BCX-14						
All Method	46	22.40	3.78	16.9	22.3	11.0 - 33.8	45	24.46	4.20	17.2	23.7	11.8 - 37.1	
All ABX Instruments	30	23.36	3.91	16.8	23.1	11.6 - 35.2	29	24.30	3.88	16.0	23.7	12.6 - 36.0	
All COULTER Instruments	16	20.59	2.80	13.6	21.0	12.1 - 29.0	16	24.74	4.84	19.5	23.5	10.2 - 39.3	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	22.42	3.80	16.9	23.1	11.0 - 33.9	18	22.28	2.63	11.8	22.1	14.3 - 30.2	
ABX Diagnostics Pentra 80 / XL 80	12	24.78	3.81	15.4	23.9	13.3 - 36.2	12	28.95	5.65	19.5	28.4	11.9 - 46.0	
COULTER AcT 5diff (version 2.01)	11	20.07	2.67	13.3	20.6	12.0 - 28.1	11	23.15	3.96	17.1	21.7	11.2 - 35.1	
Specimen BCX-15													
All Method	46	35.53	2.84	8.0	35.5	27.0 - 44.1							
All ABX Instruments	30	36.42	2.41	6.6	36.3	29.1 - 43.7							
All COULTER Instruments	16	33.86	2.90	8.6	33.3	25.1 - 42.6							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	35.58	1.80	5.1	35.6	30.1 - 41.0							
ABX Diagnostics Pentra 80 / XL 80	12	37.67	2.73	7.2	37.8	29.4 - 45.9							
COULTER AcT 5diff (version 2.01)	11	32.67	2.44	7.5	32.2	25.3 - 40.1							

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

Specimen BCX-11							Specimen BCX-12					
<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	44	1.50	0.78	51.6	1.4	0.0 - 3.9	46	2.56	1.35	52.8	2.3	0.0 - 6.7
All ABX Instruments	30	1.56	0.89	57.2	1.3	0.0 - 4.3	30	2.66	1.18	44.4	2.5	0.0 - 6.3
All COULTER Instruments	15	1.58	0.85	53.6	2.0	0.0 - 4.2	16	2.38	1.65	69.5	1.9	0.0 - 7.4
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	1.43	0.84	58.5	1.2	0.0 - 4.0	18	2.66	1.16	43.6	2.4	0.0 - 6.2
ABX Diagnostics Pentra 80 / XL 80	12	1.75	0.97	55.5	1.7	0.0 - 4.7	12	2.68	1.27	47.5	2.8	0.0 - 6.5
COULTER AcT 5diff (version 2.01)	11	1.77	0.82	46.0	2.0	0.0 - 4.3	11	2.53	1.51	59.6	2.1	0.0 - 7.1
Specimen BCX-13							Specimen BCX-14					
All Method	45	0.73	0.60	81.9	0.6	0.0 - 2.6	46	1.51	0.96	63.4	1.3	0.0 - 4.4
All ABX Instruments	30	0.76	0.56	73.7	0.9	0.0 - 2.5	30	1.49	0.82	55.1	1.4	0.0 - 4.0
All COULTER Instruments	15	0.69	0.70	101.6	0.5	0.0 - 2.8	16	1.55	1.20	77.6	1.2	0.0 - 5.2
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	0.78	0.55	70.5	0.9	0.0 - 2.5	18	1.67	0.87	52.1	1.4	0.0 - 4.3
ABX Diagnostics Pentra 80 / XL 80	12	0.73	0.59	81.9	0.7	0.0 - 2.6	12	1.23	0.70	56.8	1.0	0.0 - 3.4
COULTER AcT 5diff (version 2.01)	11	0.84	0.76	90.6	0.7	0.0 - 3.2	11	1.59	1.21	75.9	1.5	0.0 - 5.3
Specimen BCX-15												
All Method	45	2.61	1.21	46.2	2.3	0.0 - 6.3						
All ABX Instruments	29	2.53	1.07	42.4	2.3	0.0 - 5.8						
All COULTER Instruments	16	2.76	1.45	52.4	2.3	0.0 - 7.2						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	2.76	1.23	44.5	2.3	0.0 - 6.5						
ABX Diagnostics Pentra 80 / XL 80	12	2.55	1.50	58.9	2.3	0.0 - 7.1						
COULTER AcT 5diff (version 2.01)	11	3.06	1.38	45.0	3.4	0.0 - 7.2						

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

Specimen BCX-11							Specimen BCX-12						
<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	44	8.54	1.51	17.7	8.7	3.9 - 13.1	46	10.07	1.35	13.4	10.0	6.0 - 14.2	
All ABX Instruments	28	8.66	1.54	17.8	8.8	4.0 - 13.3	30	10.54	1.32	12.5	10.6	6.5 - 14.5	
All COULTER Instruments	16	8.33	1.49	17.8	8.2	3.8 - 12.8	16	9.19	0.93	10.1	9.2	6.3 - 12.0	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	8.93	1.35	15.1	8.8	4.8 - 13.0	18	10.82	1.28	11.8	11.1	6.9 - 14.7	
ABX Diagnostics Pentra 80 / XL 80	11	8.24	1.78	21.6	8.2	2.8 - 13.6	12	10.13	1.31	13.0	10.0	6.1 - 14.1	
COULTER AcT 5diff (version 2.01)	11	8.76	1.52	17.3	9.0	4.2 - 13.4	11	9.16	1.01	11.0	9.5	6.1 - 12.2	
Specimen BCX-13							Specimen BCX-14						
All Method	46	13.42	2.40	17.9	13.6	6.2 - 20.7	46	6.37	0.88	13.8	6.3	3.7 - 9.1	
All ABX Instruments	30	13.58	2.38	17.5	13.6	6.4 - 20.8	30	6.45	0.87	13.6	6.3	3.8 - 9.1	
All COULTER Instruments	16	13.11	2.48	18.9	13.4	5.6 - 20.6	16	6.23	0.90	14.4	6.3	3.5 - 9.0	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	13.78	2.27	16.4	13.7	6.9 - 20.6	18	6.69	0.74	11.1	6.8	4.4 - 9.0	
ABX Diagnostics Pentra 80 / XL 80	12	13.28	2.62	19.7	13.6	5.4 - 21.2	12	6.08	0.96	15.8	5.9	3.1 - 9.0	
COULTER AcT 5diff (version 2.01)	11	13.30	2.36	17.7	13.6	6.2 - 20.4	11	6.24	0.87	14.0	6.3	3.6 - 8.9	
Specimen BCX-15													
All Method	46	7.19	0.90	12.5	7.3	4.5 - 9.9							
All ABX Instruments	30	7.54	0.57	7.6	7.6	5.8 - 9.3							
All COULTER Instruments	16	6.54	1.04	15.9	6.9	3.4 - 9.7							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	18	7.74	0.56	7.2	7.7	6.0 - 9.5							
ABX Diagnostics Pentra 80 / XL 80	12	7.23	0.47	6.5	7.3	5.8 - 8.7							
COULTER AcT 5diff (version 2.01)	11	6.63	1.13	17.0	7.0	3.2 - 10.1							

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

Specimen BCX-11							Specimen BCX-12						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	43	2.09	2.43	116.1	0.3	0.0 - 9.4	43	4.16	4.79	115.3	0.6	0.0 - 18.6	
All ABX Instruments	27	0.26	0.05	19.8	0.3	0.1 - 0.5	26	0.54	0.05	9.2	0.5	0.3 - 0.7	
All COULTER Instruments	16	5.19	0.45	8.7	5.3	3.8 - 6.6	16	10.28	0.79	7.7	10.1	7.9 - 12.7	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	0.26	0.05	18.6	0.3	0.1 - 0.5	16	0.53	0.04	8.5	0.5	0.3 - 0.7	
ABX Diagnostics Pentra 80 / XL 80	10	0.24	0.05	21.5	0.2	0.0 - 0.4	10	0.56	0.05	9.2	0.6	0.4 - 0.8	
COULTER AcT 5diff (version 2.01)	11	5.32	0.35	6.5	5.3	4.2 - 6.4	11	10.41	0.88	8.4	10.2	7.7 - 13.1	
Specimen BCX-13							Specimen BCX-14						
All Method	43	4.35	5.07	116.7	0.6	0.0 - 19.6	43	2.93	3.36	114.4	0.4	0.0 - 13.1	
All ABX Instruments	27	0.52	0.05	9.7	0.5	0.3 - 0.7	27	0.39	0.05	11.8	0.4	0.2 - 0.6	
All COULTER Instruments	16	10.80	1.11	10.3	10.5	7.4 - 14.2	16	7.24	0.32	4.4	7.2	6.2 - 8.2	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	0.52	0.06	10.7	0.5	0.3 - 0.7	17	0.39	0.03	8.6	0.4	0.2 - 0.5	
ABX Diagnostics Pentra 80 / XL 80	10	0.52	0.04	8.1	0.5	0.3 - 0.7	10	0.38	0.06	16.6	0.4	0.1 - 0.6	
COULTER AcT 5diff (version 2.01)	11	11.07	1.10	9.9	10.7	7.7 - 14.4	11	7.33	0.33	4.6	7.3	6.3 - 8.4	
Specimen BCX-15													
All Method	43	4.53	5.23	115.5	0.6	0.0 - 20.3							
All ABX Instruments	27	0.59	0.03	5.4	0.6	0.4 - 0.7							
All COULTER Instruments	16	11.18	1.25	11.2	11.4	7.4 - 15.0							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	17	0.59	0.03	5.6	0.6	0.4 - 0.7							
ABX Diagnostics Pentra 80 / XL 80	10	0.59	0.03	5.4	0.6	0.4 - 0.7							
COULTER AcT 5diff (version 2.01)	11	11.19	1.45	13.0	11.5	6.8 - 15.6							

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

Specimen MX-11							Specimen MX-12						
<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	41	7.59	0.47	6.3	7.7	6.4 - 8.8	41	20.79	0.79	3.8	20.7	17.6 - 24.0	
All Sysmex Instruments	41	7.59	0.47	6.3	7.7	6.4 - 8.8	41	20.79	0.79	3.8	20.7	17.6 - 24.0	
Sysmex XS-1000i	24	7.55	0.59	7.8	7.8	6.4 - 8.7	24	21.09	0.73	3.5	21.2	17.9 - 24.3	
Specimen MX-13							Specimen MX-14						
All Method	39	3.99	0.11	2.8	4.0	3.3 - 4.6	41	20.84	0.84	4.0	20.6	17.7 - 24.0	
All Sysmex Instruments	39	3.99	0.11	2.8	4.0	3.3 - 4.6	41	20.84	0.84	4.0	20.6	17.7 - 24.0	
Sysmex XS-1000i	24	4.03	0.10	2.4	4.0	3.4 - 4.7	24	21.20	0.75	3.6	21.0	18.0 - 24.4	
Specimen MX-15													
All Method	41	7.51	0.47	6.3	7.7	6.3 - 8.7							
All Sysmex Instruments	41	7.51	0.47	6.3	7.7	6.3 - 8.7							
Sysmex XS-1000i	24	7.46	0.60	8.0	7.8	6.3 - 8.6							

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

Specimen MX-11							Specimen MX-12					
<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	41	4.454	0.052	1.2	4.45	4.18 - 4.73	41	5.683	0.065	1.2	5.66	5.34 - 6.03
All Sysmex Instruments	41	4.454	0.052	1.2	4.45	4.18 - 4.73	41	5.683	0.065	1.2	5.66	5.34 - 6.03
Sysmex XS-1000i	24	4.444	0.050	1.1	4.44	4.17 - 4.72	24	5.696	0.049	0.9	5.68	5.35 - 6.04
Specimen MX-13							Specimen MX-14					
All Method	41	2.446	0.049	2.0	2.45	2.29 - 2.60	41	5.682	0.064	1.1	5.66	5.34 - 6.03
All Sysmex Instruments	41	2.446	0.049	2.0	2.45	2.29 - 2.60	41	5.682	0.064	1.1	5.66	5.34 - 6.03
Sysmex XS-1000i	24	2.420	0.037	1.5	2.42	2.27 - 2.57	24	5.700	0.062	1.1	5.71	5.35 - 6.05
Specimen MX-15												
All Method	40	4.456	0.045	1.0	4.46	4.18 - 4.73						
All Sysmex Instruments	40	4.456	0.045	1.0	4.46	4.18 - 4.73						
Sysmex XS-1000i	24	4.445	0.039	0.9	4.45	4.17 - 4.72						

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

Specimen MX-11							Specimen MX-12					
<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	40	13.63	0.16	1.2	13.6	12.6 - 14.6	41	17.74	0.26	1.5	17.7	16.4 - 19.0
All Sysmex Instruments	40	13.63	0.16	1.2	13.6	12.6 - 14.6	41	17.74	0.26	1.5	17.7	16.4 - 19.0
Sysmex XS-1000i	23	13.62	0.18	1.3	13.6	12.6 - 14.6	24	17.85	0.21	1.2	17.8	16.5 - 19.1
Specimen MX-13							Specimen MX-14					
All Method	40	6.08	0.08	1.3	6.1	5.6 - 6.6	41	17.72	0.25	1.4	17.7	16.4 - 19.0
All Sysmex Instruments	40	6.08	0.08	1.3	6.1	5.6 - 6.6	41	17.72	0.25	1.4	17.7	16.4 - 19.0
Sysmex XS-1000i	23	6.05	0.08	1.3	6.0	5.6 - 6.5	24	17.82	0.23	1.3	17.8	16.5 - 19.1
Specimen MX-15												
All Method	40	13.65	0.14	1.0	13.6	12.6 - 14.7						
All Sysmex Instruments	40	13.65	0.14	1.0	13.6	12.6 - 14.7						
Sysmex XS-1000i	23	13.65	0.15	1.1	13.6	12.6 - 14.7						

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

Specimen MX-11							Specimen MX-12						
<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	41	39.78	0.69	1.7	39.7	37.3 - 42.2	41	51.57	1.00	1.9	51.8	48.4 - 54.7	
All Sysmex Instruments	41	39.78	0.69	1.7	39.7	37.3 - 42.2	41	51.57	1.00	1.9	51.8	48.4 - 54.7	
Sysmex XS-1000i	24	39.65	0.73	1.8	39.6	37.2 - 42.1	24	51.44	1.07	2.1	51.5	48.3 - 54.6	
Specimen MX-13							Specimen MX-14						
All Method	41	18.45	0.40	2.2	18.4	17.3 - 19.6	41	51.54	1.03	2.0	51.5	48.4 - 54.7	
All Sysmex Instruments	41	18.45	0.40	2.2	18.4	17.3 - 19.6	41	51.54	1.03	2.0	51.5	48.4 - 54.7	
Sysmex XS-1000i	24	18.26	0.33	1.8	18.3	17.1 - 19.4	24	51.45	1.15	2.2	51.5	48.3 - 54.6	
Specimen MX-15													
All Method	41	39.65	0.61	1.6	39.6	37.2 - 42.1							
All Sysmex Instruments	41	39.65	0.61	1.6	39.6	37.2 - 42.1							
Sysmex XS-1000i	24	39.49	0.62	1.6	39.4	37.1 - 41.9							

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

Specimen MX-11							Specimen MX-12						
<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	41	225.3	8.5	3.8	226	169 - 282	41	419.7	15.9	3.8	421	314 - 525	
All Sysmex Instruments	41	225.3	8.5	3.8	226	169 - 282	41	419.7	15.9	3.8	421	314 - 525	
Sysmex XS-1000i	24	226.7	6.8	3.0	227	170 - 284	24	422.0	14.1	3.3	424	316 - 528	
Specimen MX-13							Specimen MX-14						
All Method	41	63.9	5.2	8.1	65	47 - 80	41	420.9	16.0	3.8	421	315 - 527	
All Sysmex Instruments	41	63.9	5.2	8.1	65	47 - 80	41	420.9	16.0	3.8	421	315 - 527	
Sysmex XS-1000i	24	63.2	3.6	5.8	63	47 - 79	24	425.9	13.3	3.1	426	319 - 533	
Specimen MX-15													
All Method	41	226.1	9.4	4.2	228	169 - 283							
All Sysmex Instruments	41	226.1	9.4	4.2	228	169 - 283							
Sysmex XS-1000i	24	227.0	7.8	3.5	226	170 - 284							

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

Specimen MX-11							Specimen MX-12					
<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	41	226.1	9.4	4.2	228	169 - 283	41	226.1	9.4	4.2	228	169 - 283
All Sysmex Instruments	41	226.1	9.4	4.2	228	169 - 283	41	226.1	9.4	4.2	228	169 - 283
Sysmex XS-1000i	24	227.0	7.8	3.5	226	170 - 284	24	227.0	7.8	3.5	226	170 - 284
Specimen MX-13							Specimen MX-14					
All Method	40	62.15	4.77	7.7	59.6	47.8 - 76.5	39	58.48	5.55	9.5	60.8	41.8 - 75.2
All Sysmex Instruments	40	62.15	4.77	7.7	59.6	47.8 - 76.5	39	58.48	5.55	9.5	60.8	41.8 - 75.2
Sysmex XS-1000i	23	58.22	1.31	2.2	58.4	54.2 - 62.2	22	55.95	6.29	11.2	52.9	37.0 - 74.9
Specimen MX-15												
All Method	40	50.90	4.66	9.2	50.7	36.9 - 64.9						
All Sysmex Instruments	40	50.90	4.66	9.2	50.7	36.9 - 64.9						
Sysmex XS-1000i	23	47.36	2.75	5.8	47.1	39.0 - 55.7						

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

Specimen MX-11							Specimen MX-12						
<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	40	29.07	4.04	13.9	28.6	16.9 - 41.2	40	21.52	2.21	10.3	22.1	14.8 - 28.2	
All Sysmex Instruments	40	29.07	4.04	13.9	28.6	16.9 - 41.2	40	21.52	2.21	10.3	22.1	14.8 - 28.2	
Sysmex XS-1000i	23	29.77	5.09	17.1	30.7	14.5 - 45.1	23	21.70	2.86	13.2	23.1	13.1 - 30.3	
Specimen MX-13							Specimen MX-14						
All Method	40	15.07	1.84	12.2	15.4	9.5 - 20.6	40	21.60	2.36	10.9	21.8	14.5 - 28.7	
All Sysmex Instruments	40	15.07	1.84	12.2	15.4	9.5 - 20.6	40	21.60	2.36	10.9	21.8	14.5 - 28.7	
Sysmex XS-1000i	23	14.83	2.08	14.0	16.0	8.5 - 21.1	23	21.76	2.99	13.7	23.3	12.7 - 30.8	
Specimen MX-15													
All Method	40	28.60	4.25	14.9	28.3	15.8 - 41.4							
All Sysmex Instruments	40	28.60	4.25	14.9	28.3	15.8 - 41.4							
Sysmex XS-1000i	23	29.73	5.18	17.4	30.5	14.1 - 45.3							

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

Specimen MX-11							Specimen MX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	3.37	2.24	66.4	2.4	0.0 - 10.1	40	2.69	1.37	51.0	2.6	0.0 - 6.8
All Sysmex Instruments	39	3.37	2.24	66.4	2.4	0.0 - 10.1	40	2.69	1.37	51.0	2.6	0.0 - 6.8
Sysmex XS-1000i	22	3.11	2.82	90.7	1.7	0.0 - 11.6	23	2.46	1.74	70.8	1.6	0.0 - 7.7
Specimen MX-13							Specimen MX-14					
All Method	40	1.94	1.29	66.4	1.6	0.0 - 5.9	40	2.75	1.47	53.4	2.5	0.0 - 7.2
All Sysmex Instruments	40	1.94	1.29	66.4	1.6	0.0 - 5.9	40	2.75	1.47	53.4	2.5	0.0 - 7.2
Sysmex XS-1000i	23	1.75	1.61	91.7	1.0	0.0 - 6.6	23	2.60	1.87	72.0	1.6	0.0 - 8.3
Specimen MX-15												
All Method	40	3.55	2.30	64.7	2.7	0.0 - 10.5						
All Sysmex Instruments	40	3.55	2.30	64.7	2.7	0.0 - 10.5						
Sysmex XS-1000i	23	3.33	2.92	87.8	1.8	0.0 - 12.2						

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

Specimen MX-11							Specimen MX-12					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	13.49	2.20	16.3	12.8	6.8 - 20.1	39	13.37	1.31	9.8	13.6	9.4 - 17.4
All Sysmex Instruments	39	13.49	2.20	16.3	12.8	6.8 - 20.1	39	13.37	1.31	9.8	13.6	9.4 - 17.4
Sysmex XS-1000i	23	13.88	2.81	20.2	12.8	5.4 - 22.4	22	12.80	1.48	11.6	13.4	8.3 - 17.3
Specimen MX-13							Specimen MX-14					
All Method	40	16.84	4.25	25.3	15.3	4.0 - 29.7	38	13.47	1.19	8.8	13.9	9.8 - 17.1
All Sysmex Instruments	40	16.84	4.25	25.3	15.3	4.0 - 29.7	38	13.47	1.19	8.8	13.9	9.8 - 17.1
Sysmex XS-1000i	23	18.24	5.19	28.4	15.7	2.6 - 33.9	22	12.90	1.71	13.2	13.7	7.7 - 18.1
Specimen MX-15												
All Method	40	13.55	2.36	17.4	12.8	6.4 - 20.7						
All Sysmex Instruments	40	13.55	2.36	17.4	12.8	6.4 - 20.7						
Sysmex XS-1000i	23	13.92	3.06	22.0	12.6	4.7 - 23.2						

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

Specimen MX-11							Specimen MX-12					
<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	16	69.96	0.62	0.9	8.0	68.1 - 71.9	17	80.13	1.41	1.8	9.2	75.9 - 84.4
All Sysmex Instruments	16	69.96	0.62	0.9	70.0	68.1 - 71.9	17	80.13	1.41	1.8	80.6	75.9 - 84.4
Sysmex XS-1000i	23	5.48	3.36	61.3	6.8	0.0 - 15.6	23	6.39	3.91	61.2	8.2	0.0 - 18.2
Specimen MX-13							Specimen MX-14					
All Method	17	85.64	5.19	6.1	10.3	70.0 - 101.3	17	80.22	1.58	2.0	9.3	75.4 - 85.0
All Sysmex Instruments	17	85.64	5.19	6.1	83.7	70.0 - 101.3	17	80.22	1.58	2.0	80.7	75.4 - 85.0
Sysmex XS-1000i	23	6.96	4.30	61.8	9.0	0.0 - 19.9	23	6.37	3.91	61.4	8.1	0.0 - 18.1
Specimen MX-15												
All Method	16	69.83	0.82	1.2	8.9	67.3 - 72.4						
All Sysmex Instruments	16	69.83	0.82	1.2	70.0	67.3 - 72.4						
Sysmex XS-1000i	23	5.66	3.49	61.7	7.2	0.0 - 16.2						

CASE HISTORY:

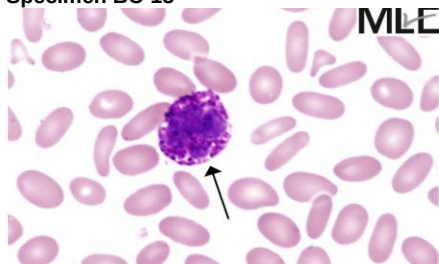
A 30-year-old, pregnant female presented for her first routine prenatal visit. The patient appeared to be in good health and was asymptomatic. A CBC was performed, and significant results appear below:

Test	Results	Normal Range
WBC	$16.5 \times 10^9/L$	$4.5 - 15.0 \times 10^9/L$
RBC	$3.83 \times 10^{12}/L$	$4.00 - 5.40 \times 10^{12}/L$
HGB	11.1 g/dL	12.0 - 15.0 g/dL
HCT	31.0 %	35 - 49 %
PLT	$143 \times 10^9/L$	$150 - 450 \times 10^9/L$
MCV	81 fL	80 - 94 fL
MCH	29 pg	26 - 32 pg
MCHC	36 %	32 - 36 %
RDW	20 %	11 - 15 %

This patient was diagnosed with common hereditary elliptocytosis.

Hereditary elliptocytosis and its related variants are caused by genetic mutations that affect the multiprotein complex responsible for the elasticity and durability of red blood cells. Most patients are asymptomatic, and the diagnosis is usually made incidentally when a blood smear is examined. Common hereditary elliptocytosis may be associated with mild hemolytic anemia, although moderate or even severe hemolysis occasionally occurs. The degree of hemolysis, however, does not correlate with the percentage of elliptocytes seen in the blood.

BLOOD CELL IDENTIFICATION
Specimen BC-13



Identification
Basophil, any stage

Labs
283

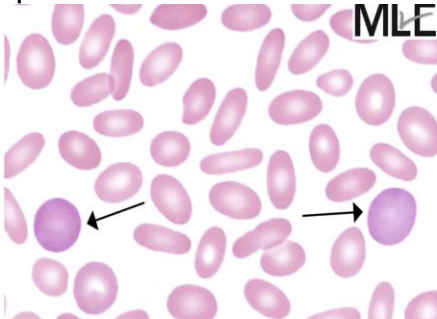
Percent
98.26%

Performance
Acceptable

The arrow in this photograph points to a **basophil**. The characteristic large, dense, blue-black granules protrude from the cytoplasmic edge, and are so numerous that they obscure the features of the nucleus. To view another photo of a basophil, see 2011 M1 Specimen BC-3.

BLOOD CELL IDENTIFICATION

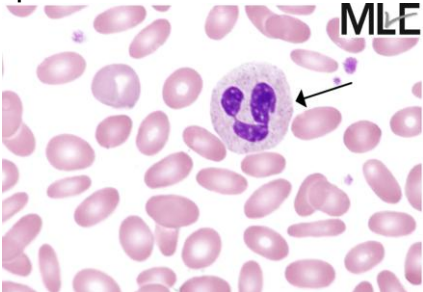
Specimen BC-14



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Polychromatophilic red cell	263	91.32%	Acceptable
Spherocyte	18	6.25%	

The arrows in this photograph point to **polychromatophilic red blood cells**. These immature red cells have a distinctively gray-blue color that is due to diffused residual RNA, which will be absorbed later. They are also larger than the surrounding mature RBCs. The number of these cells appearing in the peripheral blood is an indicator of bone marrow activity. When the bone marrow cannot keep up with the need for new red cells, it compensates by releasing cells into circulation before they are fully mature. Polychromasia is seen post-splenectomy, and in hemolytic states. These cells would be called reticulocytes only when examined with a supravital stain such as New Methylene Blue. To view another photo of polychromatophilic RBCs, see 2011 M1 Specimen BC-1.

Specimen BC-15

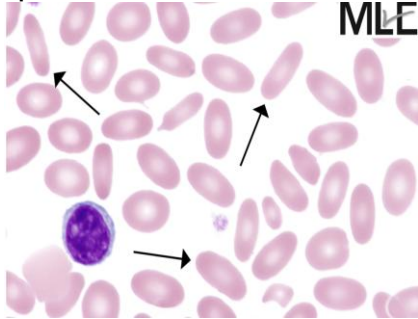


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Neutrophil-segmented or band	281	97.57%	Acceptable
Neutrophil-seg/band w/toxic gr	5	1.74%	

The arrow in this photograph points to a **segmented neutrophil**. The cytoplasm of these normal cells contains fine, violet-pink granules. The nucleus of the cell is divided into less than six segments, or lobes, which are connected by a thin filament of chromatin. This filament connecting the segments must be visible in order to classify the cell as segmented. If no filament were visible, the cell would be identified as a band. To view another photo of a normal "seg," see 2010 M2 Specimen BC-8.

BLOOD CELL IDENTIFICATION

Specimen BC-16



Identification
Ovalocyte

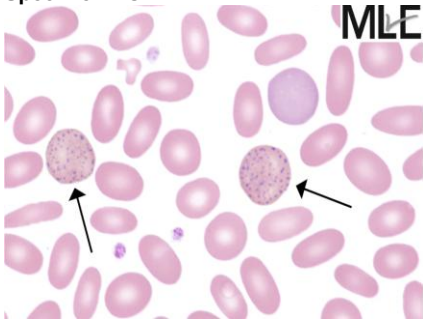
Labs
286

Percent
99.31

Performance
Acceptable

The arrows in this photograph point to **ovalocytes**. Also called elliptocytes, these are elongated red blood cells. In addition to the hereditary type of elliptocytosis, there are many acquired disorders that cause elliptocyte RBC forms to appear in the peripheral blood smear. These include iron deficiency, sickle cell, and other anemias, thalassemia, myelofibrosis, myelodysplastic syndrome, and pyruvate kinase deficiency.

Specimen BC-17



Identification
Basophilic stippling

Labs
282

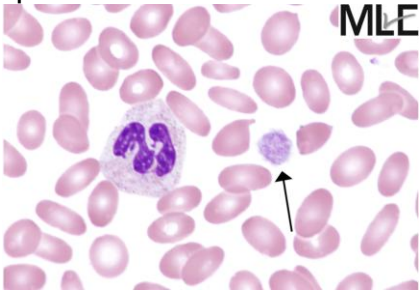
Percent
97.92%

Performance
Acceptable

The arrows in this photograph point to erythrocytes with **basophilic stippling**. These immature red blood cells contain residual RNA that has precipitated into small clumps. The clumps appear as fine, dark blue granules. These cells would be called reticulocytes only when examined with a supravital stain such as New Methylene Blue. To view another photo of basophilic stippling, see 2010 M3 Specimen BC-17.

BLOOD CELL IDENTIFICATION

Specimen BC-18



Identification	Labs	Percent	Performance
Platelet, giant	273	95.79%	Not graded – Educational Challenge
Platelet, normal	8	2.81%	

The arrow in this photograph points to a **giant platelet**. This abnormally large platelet is nearly equal in size to the red blood cells surrounding it, and is more than five times larger than the other (normal size) platelet in the field. Occasional giant platelets are not clinically significant. To view another photo of a giant platelet, see 2009 M3 Specimen BC-17.

References:

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

Gullapalli, R., Shaheen, A., Contis, L. "Case 623 -- A 33 year old, pregnant female with neutrophilia". Copyright, 2012 University of Pittsburgh Medical Center. Available at <http://path.upmc.edu/cases/case623.html>. Accessed 11/2012.

BLOOD BANK

ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-11	Group B	11	100%	Acceptable
BB-12	Group AB	11	100%	Acceptable
BB-13	Group O	11	100%	Acceptable
BB-14	Group A	11	100%	Acceptable
BB-15	Group AB	11	100%	Acceptable

RH FACTOR (D TYPE)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-11	Rh Positive	15	100%	Acceptable
BB-12	Rh Positive	15	100%	Acceptable
BB-13	Rh Positive	15	100%	Acceptable
BB-14	Rh Negative	15	100%	Acceptable
BB-15	Rh Negative	15	100%	Acceptable

UNEXPECTED ANTIBODY DETECTION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-11	Unexpected antibody detected	10	90.91%	Not graded
	No unexpected antibody detected	1	9.09%	
AB-12	Unexpected antibody detected	10	90.91%	Acceptable
	No unexpected antibody detected	1	9.09%	
AB-13	No unexpected antibody detected	11	100%	Acceptable
AB-14	No unexpected antibody detected	11	100%	Acceptable
AB-15	Unexpected antibody detected	11	100%	Acceptable

Specimen AB-11 was an ungraded challenge due to less than 95% referee consensus.

Specimen AB-12 was graded by 100% referee consensus.

BLOOD BANK

ANTIBODY IDENTIFICATION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-11	Anti-M	1	50.00%	Acceptable
	Unable to identify, referred	1	50.00%	Acceptable
AB-12	Anti-Fy ^a	1	50.00%	Not graded
	No antibody detected	1	50.00%	
AB-13	No antibody detected	2	100%	Acceptable
AB-14	No antibody detected	2	100%	Acceptable
AB-15	Anti-s	1	50.00%	Acceptable
	Unable to identify, referred	1	50.00%	Acceptable

Specimen AB-12 is an ungraded challenge due to less than 80% participant consensus.

COMPATIBILITY TESTING

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-11	Not Compatible	8	100%	Acceptable
AB-12	Compatible	8	100%	Acceptable
AB-13	Compatible	8	100%	Acceptable
AB-14	Compatible	8	100%	Acceptable
AB-15	Not Compatible	8	100%	Acceptable

PROTHROMBIN TIME (seconds)

Specimen CG-11							Specimen CG-12					
<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	73	37.05	6.89	18.6	36.1	31.4 - 42.7	71	11.19	0.71	6.3	11.1	9.5 - 12.9
Dade Innovin												
Sysmex CA-500/540/560	26	41.70	2.78	6.7	41.3	35.4 - 48.0	26	10.76	0.48	4.4	10.7	9.1 - 12.4
All Coagulation Instruments	31	41.61	3.24	7.8	41.3	35.3 - 47.9	30	10.70	0.50	4.7	10.7	9.0 - 12.4
IL TEST PT Fibrinogen												
IL ACL, all models	20	31.48	1.79	5.7	31.7	26.7 - 36.3	20	11.61	0.39	3.3	11.6	9.8 - 13.4
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	31.42	2.31	7.4	31.0	26.7 - 36.2	5	11.36	0.56	4.9	11.2	9.6 - 13.1
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	29.82	1.45	4.9	30.1	25.3 - 34.3	5	10.96	0.36	3.3	10.9	9.3 - 12.7
All Coagulation Instruments	7	29.37	1.43	4.9	29.3	24.9 - 33.8	7	11.11	0.40	3.6	11.0	9.4 - 12.8
Specimen CG-13							Specimen CG-14					
All Method	69	13.65	0.65	4.8	13.5	11.6 - 15.7	71	11.26	0.69	6.1	11.2	9.5 - 13.0
Dade Innovin												
Sysmex CA-500/540/560	26	13.58	0.48	3.6	13.5	11.5 - 15.7	26	10.80	0.41	3.8	10.7	9.1 - 12.5
All Coagulation Instruments	30	13.60	0.57	4.2	13.5	11.5 - 15.7	30	10.74	0.43	4.0	10.7	9.1 - 12.4
IL TEST PT Fibrinogen												
IL ACL, all models	20	14.04	0.53	3.8	14.0	11.9 - 16.2	20	11.79	0.40	3.4	11.8	10.0 - 13.6
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	13.42	0.64	4.8	13.3	11.4 - 15.5	5	11.44	0.48	4.2	11.5	9.7 - 13.2
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	13.08	0.28	2.1	13.0	11.1 - 15.1	5	11.12	0.25	2.2	11.1	9.4 - 12.8
All Coagulation Instruments	7	13.13	0.24	1.9	13.2	11.1 - 15.1	7	11.19	0.23	2.1	11.1	9.5 - 12.9
Specimen CG-15												
All Method	73	24.66	3.68	14.9	23.7	20.9 - 28.4						
Dade Innovin												
Sysmex CA-500/540/560	26	27.13	1.59	5.9	27.3	23.0 - 31.3						
All Coagulation Instruments	31	27.18	1.85	6.8	27.5	23.1 - 31.3						
IL TEST PT Fibrinogen												
IL ACL, all models	20	21.80	0.87	4.0	21.8	18.5 - 25.1						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	21.16	1.32	6.2	21.0	17.9 - 24.4						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	21.18	1.06	5.0	21.3	18.0 - 24.4						
All Coagulation Instruments	7	20.77	1.14	5.5	20.5	17.6 - 23.9						

PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)

Specimen CG-11							Specimen CG-12					
<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	75	4.99	1.12	22.4	4.8	1.6 - 8.4	74	1.00	0.06	6.2	1.0	0.8 - 1.2
Dade Innovin												
Sysmex CA-500/540/560	26	4.13	0.30	7.1	4.1	3.2 - 5.1	26	1.03	0.05	5.3	1.0	0.8 - 1.2
All Coagulation Instruments	30	4.14	0.28	6.7	4.1	3.3 - 5.0	31	1.03	0.06	5.6	1.0	0.8 - 1.2
IL TEST PT Fibrinogen												
IL ACL, all models	19	5.51	0.41	7.4	5.4	4.2 - 6.8	19	0.97	0.06	5.8	1.0	0.8 - 1.2
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	7.62	0.48	6.3	7.7	6.1 - 9.1	6	1.02	0.08	7.4	1.0	0.7 - 1.3
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	4.80	0.52	10.9	4.8	3.2 - 6.4	5	0.94	0.09	9.5	1.0	0.6 - 1.3
All Coagulation Instruments	7	4.79	0.44	9.1	4.8	3.4 - 6.1	7	0.96	0.08	8.2	1.0	0.7 - 1.2
Specimen CG-13							Specimen CG-14					
All Method	71	1.31	0.09	6.6	1.3	1.0 - 1.6	74	1.01	0.06	5.9	1.0	0.8 - 1.2
Dade Innovin												
Sysmex CA-500/540/560	25	1.32	0.06	4.2	1.3	1.1 - 1.5	26	1.03	0.06	5.4	1.0	0.8 - 1.3
All Coagulation Instruments	31	1.31	0.07	5.7	1.3	1.0 - 1.6	31	1.03	0.06	5.7	1.0	0.8 - 1.3
IL TEST PT Fibrinogen												
IL ACL, all models	19	1.35	0.08	6.2	1.4	1.1 - 1.7	19	0.99	0.06	6.2	1.0	0.8 - 1.2
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	1.40	0.15	11.1	1.4	0.9 - 1.9	6	1.03	0.14	13.2	1.0	0.6 - 1.5
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	1.28	0.08	6.5	1.3	1.0 - 1.6	5	0.96	0.05	5.7	1.0	0.7 - 1.2
All Coagulation Instruments	7	1.27	0.08	5.9	1.3	1.0 - 1.5	7	0.96	0.05	5.6	1.0	0.7 - 1.2
Specimen CG-15												
All Method	75	2.82	0.30	10.7	2.8	1.9 - 3.8						
Dade Innovin												
Sysmex CA-500/540/560	26	2.66	0.13	4.9	2.7	2.2 - 3.1						
All Coagulation Instruments	30	2.68	0.14	5.2	2.7	2.2 - 3.2						
IL TEST PT Fibrinogen												
IL ACL, all models	19	2.91	0.18	6.3	2.9	2.3 - 3.5						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	3.47	0.20	5.7	3.5	2.8 - 4.1						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	5	2.76	0.31	11.3	2.7	1.8 - 3.7						
All Coagulation Instruments	7	2.70	0.29	10.7	2.7	1.8 - 3.6						

ACTIVATED PARTIAL THROMBOPLASTIN (seconds)

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CG-11</u>					<u>Labs</u>	<u>Specimen CG-12</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	71.5	6.6	9.2	70	60 - 83	29	29.1	0.9	3.0	29	24 - 34
Dade Actin FSL												
Sysmex CA-500/540/560	17	71.0	2.6	3.7	71	60 - 82	17	28.8	0.6	2.2	29	24 - 34
All Coagulation Instruments	18	71.0	2.5	3.6	71	60 - 82	18	28.9	0.7	2.3	29	24 - 34
IL TEST APTT-SP												
IL ACL, all models	7	66.0	3.6	5.4	66	56 - 76	7	28.9	0.9	3.1	29	24 - 34
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CG-13</u>					<u>Labs</u>	<u>Specimen CG-14</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	34.7	4.3	12.5	33	29 - 40	29	27.8	1.3	4.8	28	23 - 32
Dade Actin FSL												
Sysmex CA-500/540/560	17	31.5	1.1	3.6	31	26 - 37	17	27.3	0.9	3.4	27	23 - 32
All Coagulation Instruments	18	31.6	1.1	3.6	31	26 - 37	18	27.3	0.9	3.3	27	23 - 32
IL TEST APTT-SP												
IL ACL, all models	7	38.3	1.1	2.9	38	32 - 45	7	28.0	1.0	3.6	28	23 - 33
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Specimen CG-15</u>					<u>Labs</u>	<u>Specimen CG-16</u>				
		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>		<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	51.5	4.2	8.1	50	43 - 60						
Dade Actin FSL												
Sysmex CA-500/540/560	17	50.8	2.0	3.9	50	43 - 59						
All Coagulation Instruments	18	50.9	2.0	3.9	51	43 - 59						
IL TEST APTT-SP												
IL ACL, all models	7	49.1	0.9	1.8	49	41 - 57						

Fibrinogen (mg/dL)

One participant reported Fibrinogen. The vendor assay values for specimens CG-11 through CG-15 are: 289 mg/dL, 622 mg/dL, 94 mg/dL, 334 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-11	Rh Positive	3	100%	Acceptable
RH-12	Rh Positive	3	100%	Acceptable
RH-13	Rh Negative	3	100%	Acceptable
RH-14	Rh Positive	3	100%	Acceptable
RH-15	Rh Negative	3	100%	Acceptable

COAGUCHEK XS PLUS PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen XS-11				<u>Labs</u>	<u>Mean</u>	Specimen XS-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	21	24.33	1.35	5.5	24.4	20.6 - 28.0	21	33.33	1.50	4.5	33.4	28.3 - 38.4
			Specimen XS-13						Specimen XS-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	20	32.92	1.80	5.5	33.1	27.9 - 37.9	21	24.15	0.82	3.4	24.2	20.5 - 27.8
			Specimen XS-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Roche CoaguChek XS Plus	20	32.99	1.00	3.0	33.2	28.0 - 38.0						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen XS-11				<u>Labs</u>	<u>Mean</u>	Specimen XS-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	21	2.02	0.11	5.3	2.0	1.6 - 2.4	21	2.76	0.13	4.8	2.8	2.3 - 3.2
			Specimen XS-13						Specimen XS-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS Plus	20	2.77	0.10	3.6	2.8	2.4 - 3.1	21	2.01	0.10	5.2	2.0	1.6 - 2.4
			Specimen XS-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
Roche CoaguChek XS Plus	20	2.75	0.09	3.2	2.8	2.4 - 3.1						

ITC PROTIME MICROCOAGULATION SYSTEM PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen IT-5				<u>Labs</u>	<u>Mean</u>	Specimen IT-6			
			<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	16	35.71	2.25	6.3	35.2	30.3 - 41.1	12	19.38	1.55	8.0	18.3	16.4 - 22.3

ITC PROTIME MICROCOAGULATION SYSTEM -INTERNATIONAL NORMALIZED RATIO (INR)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen IT-5				<u>Labs</u>	<u>Mean</u>	Specimen IT-6			
			<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	2.76	0.17	6.1	2.7	2.2 - 3.3	17	1.49	0.15	9.9	1.5	1.0 - 2.0
ITC ProTime System - 3 Channel	10	2.80	0.19	6.7	2.8	2.2 - 3.4	11	1.46	0.14	9.3	1.4	1.0 - 1.9

i-Stat PROTHROMBIN TIME (seconds)

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-11				<u>Labs</u>	<u>Mean</u>	Specimen PTI-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	13.40	0.58	4.4	13.3	11.3 - 15.5	12	13.70	0.65	4.8	13.6	11.6 - 15.8
i-Stat Prothrombin Time	10	13.42	0.48	3.6	13.3	11.4 - 15.5	10	13.58	0.49	3.6	13.6	11.5 - 15.7
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-13				<u>Labs</u>	<u>Mean</u>	Specimen PTI-14			
			<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	23.33	0.82	3.5	23.2	19.8 - 26.9	12	24.60	4.05	16.5	24.2	20.9 - 28.3
i-Stat Prothrombin Time	10	23.42	0.80	3.4	23.3	19.9 - 27.0	10	23.63	1.46	6.2	24.2	20.0 - 27.2
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-15				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	13.25	0.82	6.2	13.2	11.2 - 15.3						
i-Stat Prothrombin Time	10	13.07	0.37	2.8	13.2	11.1 - 15.1						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-11				<u>Labs</u>	<u>Mean</u>	Specimen PTI-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	1.12	0.06	5.2	1.1	0.9 - 1.3	12	1.13	0.05	4.3	1.1	0.9 - 1.3
i-Stat Prothrombin Time	10	1.13	0.05	4.3	1.1	0.9 - 1.3	10	1.13	0.05	4.3	1.1	0.9 - 1.3
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-13				<u>Labs</u>	<u>Mean</u>	Specimen PTI-14			
			<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	2.00	0.08	3.9	2.0	1.7 - 2.3	12	2.12	0.34	15.8	2.1	1.1 - 3.2
i-Stat Prothrombin Time	10	2.01	0.07	3.7	2.0	1.7 - 2.3	10	2.04	0.13	6.6	2.1	1.6 - 2.5
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen PTI-15				<u>Labs</u>	<u>Mean</u>				
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	1.10	0.04	3.9	1.1	0.9 - 1.3						
i-Stat Prothrombin Time	10	1.09	0.03	2.9	1.1	0.9 - 1.2						

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

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	Specimen BF-5				<u>Labs</u>	<u>Mean</u>	Specimen BF-6			
			<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	1001.6	346.0	34.6	1010	0 - 2040	9	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-5				<u>Labs</u>	<u>Mean</u>	Specimen BF-6			
			<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	1435.4	524.4	36.5	1506	0 - 3009	9	0.1	0.3	300.0	0	0 - 2

FLUID CELL COUNT/CRYSTALS – CRYSTAL IDENTIFICATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BF-5	Cholesterol crystals	5	35.71%	Not graded
	CPPD Crystals	5	35.71%	
	Calcium Oxalate Crystals	2	16.67%	

BF-5 is not graded due to lack of 80% participant consensus. The vendor assay is: Cholesterol Crystals.

BF-6	MSU (Monosodium Urate)	12	85.71%	Acceptable
	Other, not listed	2	14.29%	

MICROALBUMIN, DIPSTICK

Specimen UM-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L(Pos)</u>	<u>20/30 mg/L</u>	<u>50 mg/L (+)</u>	<u>80 mg/L</u>	<u>100 mg/L (++)</u>	<u>150 mg/L</u>
ALL METHODS	45	-	-	-	1	33	6	5
Bayer Clinitek Microalbumin	35	-	-	-	-	31	-	4
Bayer Multistix Pro	1	-	-	-	-	1	-	-
Roche Micral - 1 minute	8	-	-	-	1	1	6	-
Siemens DCA Vantage	1	-	-	-	-	-	-	1

CREATININE, DIPSTICK

Specimen UM-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/dL</u>	<u>30 mg/dL</u>	<u>50 mg/dL</u>	<u>100 mg/dL</u>	<u>200 mg/dL</u>	<u>300 mg/dL</u>
ALL METHODS	38	-	-	-	3	24	8	3
Bayer Clinitek Microalbumin	33	-	-	-	3	21	6	3
Bayer Multistix Pro	4	-	-	-	-	3	1	-
Siemens DCA Vantage	1	-	-	-	-	-	1	-

MICROALBUMIN, QUANTITATIVE

Specimen UM-3

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	99.6	7.5	7.5	100	77 - 123
Axis-Shield Afinion AS100	13	92.8	7.9	8.5	92	69 - 117
Bayer DCA 2000(+)	11	99.0	6.1	6.1	102	80 - 118
Dade Dimension/AR/ES/RxL/Xpand	21	106.4	5.6	5.3	106	89 - 124
Olympus AU	12	96.8	4.4	4.6	97	83 - 111
Siemens DCA Vantage	19	97.3	7.3	7.5	99	75 - 120

CREATININE, URINE (mg/dL)

Specimen UM-3

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	70.6	4.7	6.7	70	56 - 85
Axis-Shield Afinion AS100	13	67.3	1.9	2.9	67	61 - 74
Bayer DCA 2000(+)	11	74.5	3.8	5.1	74	63 - 86
Dade Dimension/AR/ES/RxL/Xpand	20	66.5	3.2	4.9	66	56 - 77
Siemens DCA Vantage	18	74.2	2.5	3.3	74	66 - 82

CREATININE, URINE (mmol/L)

Three participants reported Creatinine. The Vendor Assay for specimen UM-3 is 7.0 mmol/L.

WAIVED HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen HD-11

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	80	16.47	0.54	3.3	16.6	14.8 - 18.1
All Stanbio Methods	15	15.91	1.58	9.9	16.7	11.1 - 20.7
HemoCue	66	16.47	0.44	2.7	16.6	15.1 - 17.9
Stanbio HemoPoint H2	12	15.88	1.67	10.5	16.8	10.8 - 20.9

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
80	13.15	0.61	4.6	13.2	11.3 - 15.0
15	13.27	1.53	11.5	13.6	8.6 - 17.9
66	13.11	0.47	3.6	13.1	11.7 - 14.6
12	13.67	1.44	10.5	13.6	9.3 - 18.0

WAIVED HEMATOLOGY–HEMATOCRIT (percent)

Specimen HD-11

<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	52.00	6.02	11.6	50.5	33.9 - 70.1
All Microhematocrit Methods	16	52.63	5.37	10.2	50.5	36.5 - 68.8

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
18	39.04	4.05	10.4	38.0	26.8 - 51.3
16	38.55	3.88	10.1	37.5	26.8 - 50.3

KOH SKIN PREPARATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
K-5	Yeast/fungal elements absent	176	94.62%	Acceptable
	Yeast/fungal elements present	10	5.38%	

Organism present in specimen K-5: Staphylococcus epidermidis

K-6	Yeast/fungal elements present	179	96.24%	Acceptable
	Yeast/fungal elements absent	7	3.76%	

Organism present in specimen K-6: Trichophyton rubrum

URINALYSIS DIPSTICK–SPECIFIC GRAVITY

Specimen UA-3

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1019	1.0246	0.0067	0.7	1.025	1.014 - 1.035
All Bayer Instruments	486	1.0294	0.0016	0.2	1.030	1.019 - 1.040
All PSS Select Methods	15	1.0253	0.0023	0.2	1.025	1.015 - 1.036
All Roche Instruments	71	1.0105	0.0022	0.2	1.010	1.000 - 1.021
Arkray DiaScreen	11	1.0186	0.0071	0.7	1.020	1.008 - 1.029
Bayer Clinitek 10 / 100	18	1.0272	0.0035	0.3	1.030	1.017 - 1.038
Bayer Clinitek 50	79	1.0288	0.0020	0.2	1.030	1.018 - 1.039
Bayer Clinitek 500	22	1.0282	0.0024	0.2	1.030	1.018 - 1.039
Bayer Clinitek Advantus	19	1.0284	0.0023	0.2	1.030	1.018 - 1.039
Bayer Clinitek Status / Status+	326	1.0300	0.0000	0.0	1.030	1.020 - 1.040
Bayer Reagent Strips	289	1.0232	0.0043	0.4	1.025	1.013 - 1.034
Consult Diagnostics Urine Analyzer	10	1.0210	0.0039	0.4	1.020	1.011 - 1.031
CTMI CT-120 Urine Analyzer	12	1.0250	0.0000	0.0	1.025	1.015 - 1.035
Diagnostic Test Group Clarity Urocheck	11	1.0223	0.0047	0.5	1.020	1.012 - 1.033
Diagnostic Test Group Clarity Urocheck 120	10	1.0260	0.0032	0.3	1.025	1.016 - 1.036
McKesson 10SG Reagent Strips	12	1.0229	0.0045	0.4	1.025	1.012 - 1.033
Other Dipstick Method	10	1.0255	0.0028	0.3	1.025	1.015 - 1.036
PSS Select Reagent Strips	11	1.0241	0.0054	0.5	1.025	1.014 - 1.035
Roche Chemstrips	55	1.0105	0.0022	0.2	1.010	1.000 - 1.021
Roche Criterion Analyzer	20	1.0103	0.0020	0.2	1.010	1.000 - 1.021
Roche Urisys	42	1.0108	0.0025	0.2	1.010	1.000 - 1.021

URINALYSIS DIPSTICK–pH

Specimen UA-3

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	1053	-	-	-	-	1	15	212	803	16	5	-	1
Arkray DiaScreen	12	-	-	-	-	-	-	9	3	-	-	-	-
Arkray DiaScreen 50	2	-	-	-	-	-	-	2	-	-	-	-	-
Bayer Bili-Labstix	1	-	-	-	-	-	-	1	-	-	-	-	-
Bayer Clinitek 10 / 100	17	-	-	-	-	-	-	5	12	-	-	-	-
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	-	1	-	-	-	-
Bayer Clinitek 2000	1	-	-	-	-	-	-	-	1	-	-	-	-
Bayer Clinitek 50	79	-	-	-	-	-	1	49	29	-	-	-	-
Bayer Clinitek 500	24	-	-	-	-	-	-	1	23	-	-	-	-
Bayer Clinitek Advantus	19	-	-	-	-	-	-	-	19	-	-	-	-
Bayer Clinitek Atlas	5	-	-	-	-	-	-	-	5	-	-	-	-
Bayer Clinitek Status / Status+	342	-	-	-	-	1	1	44	296	-	-	-	-
Bayer Hemacombistix	1	-	-	-	-	-	-	-	1	-	-	-	-
Bayer Reagent Strips	303	-	-	-	-	-	3	34	249	13	4	-	-
Consult Diagnostics Urine Analyzer	10	-	-	-	-	-	1	7	1	-	-	-	1
CTMI CT-120 Urine Analyzer	13	-	-	-	-	-	-	13	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	11	-	-	-	-	-	1	10	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	10	-	-	-	-	-	2	8	-	-	-	-	-
Germaine Laboratories AimStrip	1	-	-	-	-	-	-	1	-	-	-	-	-
McKesson 10SG Reagent Strips	12	-	-	-	-	-	1	7	4	-	-	-	-
Other Analyzer Method	5	-	-	-	-	-	-	5	-	-	-	-	-
Other Dipstick Method	11	-	-	-	-	-	2	3	6	-	-	-	-
pH Paper	1	-	-	-	-	-	-	-	-	1	-	-	-
PSS Select Reagent Strips	11	-	-	-	-	-	1	1	8	-	1	-	-
PSS Select Urine Analyzer	5	-	-	-	-	-	1	4	-	-	-	-	-
Quidel QuickVue UrinChek	1	-	-	-	-	-	-	-	1	-	-	-	-
Roche Chemstrip 101	8	-	-	-	-	-	-	-	8	-	-	-	-
Roche Chemstrips	61	-	-	-	-	-	-	2	58	1	-	-	-
Roche Criterion Analyzer	20	-	-	-	-	-	-	-	20	-	-	-	-
Roche SuperUA/ChemstripUA	2	-	-	-	-	-	1	-	1	-	-	-	-
Roche Urisys	43	-	-	-	-	-	-	1	42	-	-	-	-
Schein Urispec	3	-	-	-	-	-	-	-	3	-	-	-	-
UriScan Reagent Strips	2	-	-	-	-	-	-	1	1	-	-	-	-

URINALYSIS DIPSTICK--PROTEIN QUALITATIVE

Specimen UA-3

<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	1075	3	1	11	222	496	292	50
Arkray DiaScreen	13	-	-	1	6	5	-	1
Arkray DiaScreen 50	2	-	-	-	2	-	-	-
Bayer Albustix	1	-	-	-	1	-	-	-
Bayer Bili-Labstix	1	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	17	-	-	-	7	5	5	-
Bayer Clinitek 200/200+	1	-	-	-	-	1	-	-
Bayer Clinitek 2000	1	-	-	-	-	1	-	-
Bayer Clinitek 50	78	-	-	-	2	30	46	-
Bayer Clinitek 500	24	-	-	-	19	1	4	-
Bayer Clinitek Advantus	19	-	-	-	16	2	1	-
Bayer Clinitek Atlas	4	-	-	-	-	2	2	-
Bayer Clinitek Status / Status+	343	-	-	-	4	132	207	-
Bayer Hemacombistix	1	-	-	-	-	-	-	1
Bayer Reagent Strips	306	-	1	4	50	189	18	44
Bayer Uristix	5	-	-	-	1	4	-	-
Consult Diagnostics Urine Analyzer	10	1	-	2	1	5	1	-
CTMI CT-120 Urine Analyzer	13	-	-	-	12	-	1	-
Diagnostic Test Group Clarity Urocheck	10	-	-	-	1	8	-	1
Diagnostic Test Group Clarity Urocheck 120	10	-	-	-	8	2	-	-
Germaine Laboratories AimStrip	1	-	-	-	1	-	-	-
McKesson 10SG Reagent Strips	12	-	-	3	5	4	-	-
Other Analyzer Method	5	-	-	-	5	-	-	-
Other Dipstick Method	11	-	-	-	4	7	-	-
PSS Select Reagent Strips	12	-	-	-	6	5	1	-
PSS Select Urine Analyzer	5	-	-	1	4	-	-	-
Roche Chemstrip 101	8	-	-	-	4	4	-	-
Roche Chemstrips	75	1	-	-	29	45	-	-
Roche Criterion Analyzer	20	-	-	-	11	9	-	-
Roche SuperUA/ChemstripUA	2	-	-	-	1	1	-	-
Roche Urisys	43	-	-	-	19	24	-	-
Schein Urispec	3	-	-	-	1	2	-	-
Sulfosalicylic Acid	2	-	-	-	-	1	-	1
UriScan Reagent Strips	2	-	-	-	-	2	-	-

URINALYSIS DIPSTICK–GLUCOSE

Specimen UA-3

<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	1075	38	507	49	436	32	10	2	1
Arkray DiaScreen	13	-	6	1	6	-	-	-	-
Arkray DiaScreen 50	2	-	1	1	-	-	-	-	-
Bayer Bili-Labstix	1	-	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	17	3	10	-	4	-	-	-	-
Bayer Clinitek 200/200+	1	1	-	-	-	-	-	-	-
Bayer Clinitek 2000	1	-	-	-	1	-	-	-	-
Bayer Clinitek 50	79	1	14	3	60	1	-	-	-
Bayer Clinitek 500	23	1	19	1	2	-	-	-	-
Bayer Clinitek Advantus	18	-	13	-	4	-	1	-	-
Bayer Clinitek Atlas	5	-	-	1	4	-	-	-	-
Bayer Clinitek Status / Status+	344	-	211	13	113	-	5	2	-
Bayer Clinitest, 5 drop	2	-	-	1	-	1	-	-	-
Bayer Hemacombistix	1	-	-	1	-	-	-	-	-
Bayer Reagent Strips	305	20	171	13	95	6	-	-	-
Bayer Uristix	5	1	3	-	1	-	-	-	-
Consult Diagnostics Urine Analyzer	10	-	-	2	5	2	1	-	-
CTMI CT-120 Urine Analyzer	13	7	6	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	11	1	8	-	2	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	10	-	7	1	2	-	-	-	-
Germaine Laboratories AimStrip	1	-	1	-	-	-	-	-	-
McKesson 10SG Reagent Strips	12	2	4	1	5	-	-	-	-
Other Analyzer Method	5	-	1	3	-	1	-	-	-
Other Dipstick Method	11	-	1	-	5	5	-	-	-
PSS Select Reagent Strips	12	-	-	-	9	3	-	-	-
PSS Select Urine Analyzer	5	-	-	-	2	3	-	-	-
Roche Chemstrip 101	8	-	1	2	4	-	1	-	-
Roche Chemstrips	75	1	6	1	59	7	1	-	-
Roche Criterion Analyzer	20	-	16	2	2	-	-	-	-
Roche SuperUA/ChemstripUA	2	-	-	-	2	-	-	-	-
Roche Urisys	43	-	2	-	41	-	-	-	-
Schein Urispec	3	-	-	1	-	-	1	-	1
UriScan Reagent Strips	2	-	-	-	1	1	-	-	-

URINALYSIS DIPSTICK–KETONES

Specimen UA-3

<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	1050	4	4	33	531	463	1	14
Arkray DiaScreen	11	-	-	1	7	3	-	-
Arkray DiaScreen 50	2	-	-	-	2	-	-	-
Bayer Acetest	1	-	-	-	1	-	-	-
Bayer Bili-Labstix	1	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	17	-	1	1	14	1	-	-
Bayer Clinitek 200/200+	1	-	-	-	-	1	-	-
Bayer Clinitek 2000	1	-	-	-	-	1	-	-
Bayer Clinitek 50	78	-	-	2	67	9	-	-
Bayer Clinitek 500	23	-	-	1	21	1	-	-
Bayer Clinitek Advantus	19	-	-	-	18	1	-	-
Bayer Clinitek Atlas	5	-	-	-	5	-	-	-
Bayer Clinitek Status / Status+	343	-	-	-	180	160	1	2
Bayer Ketostix	1	-	-	-	-	1	-	-
Bayer Reagent Strips	304	-	1	3	62	228	-	10
Consult Diagnostics Urine Analyzer	10	-	-	2	6	2	-	-
CTMI CT-120 Urine Analyzer	13	-	-	6	5	2	-	-
Diagnostic Test Group Clarity Urocheck	11	-	-	2	7	2	-	-
Diagnostic Test Group Clarity Urocheck 120	10	-	-	2	2	6	-	-
Germaine Laboratories AimStrip	1	-	-	1	-	-	-	-
McKesson 10SG Reagent Strips	12	2	-	-	4	6	-	-
Other Analyzer Method	5	-	1	2	2	-	-	-
Other Dipstick Method	11	-	-	-	6	5	-	-
PSS Select Reagent Strips	11	-	-	-	7	4	-	-
PSS Select Urine Analyzer	5	-	-	-	3	2	-	-
Roche Chemstrip 101	8	-	1	1	5	1	-	-
Roche Chemstrips	61	1	-	-	48	11	-	1
Roche Criterion Analyzer	20	1	-	-	17	2	-	-
Roche SuperUA/ChemstripUA	2	-	-	-	-	2	-	-
Roche Urisys	43	-	-	9	29	5	-	-
Schein Urispec	3	-	-	-	3	-	-	-
UriScan Reagent Strips	1	-	-	-	-	1	-	-

URINALYSIS DIPSTICK–BILIRUBIN

Specimen UA-3

<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	1015	89	406	359	161
Arkray DiaScreen	11	5	4	2	-
Arkray DiaScreen 50	2	1	1	-	-
Bayer Bili-Labstix	1	-	1	-	-
Bayer Clinitek 10 / 100	17	1	10	5	1
Bayer Clinitek 200/200+	1	1	-	-	-
Bayer Clinitek 2000	1	-	1	-	-
Bayer Clinitek 50	76	2	15	59	-
Bayer Clinitek 500	21	-	2	19	-
Bayer Clinitek Advantus	17	-	2	15	-
Bayer Clinitek Atlas	5	4	1	-	-
Bayer Clinitek Status / Status+	329	35	223	70	1
Bayer Ictotest	7	-	3	4	-
Bayer Reagent Strips	289	19	89	107	74
Consult Diagnostics Urine Analyzer	10	-	6	2	2
CTMI CT-120 Urine Analyzer	13	3	9	1	-
Diagnostic Test Group Clarity Urocheck	10	-	3	4	3
Diagnostic Test Group Clarity Urocheck 120	10	-	9	1	-
Germaine Laboratories AimStrip	1	-	1	-	-
McKesson 10SG Reagent Strips	12	3	2	2	5
Other Analyzer Method	5	1	3	1	-
Other Dipstick Method	11	5	4	-	2
PSS Select Reagent Strips	11	4	5	1	1
PSS Select Urine Analyzer	5	-	3	2	-
Roche Chemstrip 101	8	-	-	5	3
Roche Chemstrips	59	1	1	12	45
Roche Criterion Analyzer	19	-	-	15	4
Roche SuperUA/ChemstripUA	2	-	-	-	2
Roche Urisys	42	-	-	27	15
Schein Urispec	3	2	-	1	-
UriScan Reagent Strips	1	-	1	-	-

URINALYSIS DIPSTICK–UROBILINOGEN

Specimen UA-3

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	975	61	146	339	361	68
Arkray DiaScreen	11	9	1	-	-	1
Arkray DiaScreen 50	2	2	-	-	-	-
Bayer Bili-Labstix	1	-	-	-	-	1
Bayer Clinitek 10 / 100	17	1	9	4	2	1
Bayer Clinitek 200/200+	1	-	1	-	-	-
Bayer Clinitek 2000	1	-	-	-	1	-
Bayer Clinitek 50	75	2	54	17	2	-
Bayer Clinitek 500	16	-	11	5	-	-
Bayer Clinitek Advantus	18	-	11	7	-	-
Bayer Clinitek Atlas	3	-	1	2	-	-
Bayer Clinitek Status / Status+	332	2	2	146	182	-
Bayer Reagent Strips	265	10	33	129	68	25
Consult Diagnostics Urine Analyzer	10	-	-	-	1	9
CTMI CT-120 Urine Analyzer	12	10	-	1	1	-
Diagnostic Test Group Clarity Urocheck	11	4	4	3	-	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-	-	-	-
Germaine Laboratories AimStrip	1	1	-	-	-	-
McKesson 10SG Reagent Strips	12	2	1	4	3	2
Other Analyzer Method	5	1	-	-	-	4
Other Dipstick Method	11	1	-	5	2	3
PSS Select Reagent Strips	11	-	1	-	1	9
PSS Select Urine Analyzer	5	-	-	-	1	4
Roche Chemstrip 101	8	-	1	3	4	-
Roche Chemstrips	58	2	7	2	41	6
Roche Criterion Analyzer	20	-	4	-	16	-
Roche SuperUA/ChemstripUA	1	-	-	-	1	-
Roche Urisys	42	1	4	4	33	-
Schein Urispec	3	2	-	-	1	-
UriScan Reagent Strips	1	-	-	-	-	1

URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN

Specimen UA-3

<u>Method</u>	<i>Participant Results</i>					
	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<i>Small (5-10 RBC/μL, 1+)</i>	<i>Moderate (50 RBC/μL, 2+)</i>	<i>Large (250 RBC/μL, 3+)</i>
ALL METHODS	1063	4	3	4	54	998
Arkray DiaScreen	12	-	-	-	-	12
Arkray DiaScreen 50	2	-	-	-	-	2
Bayer Bili-Labstix	1	-	-	-	-	1
Bayer Clinitek 10 / 100	17	-	-	-	-	17
Bayer Clinitek 200/200+	1	-	-	-	-	1
Bayer Clinitek 2000	1	-	-	-	-	1
Bayer Clinitek 50	79	-	1	-	1	77
Bayer Clinitek 500	24	-	-	-	1	23
Bayer Clinitek Advantus	19	-	-	-	1	18
Bayer Clinitek Atlas	5	-	-	-	-	5
Bayer Clinitek Status / Status+	343	-	-	-	5	338
Bayer Hemacombistix	1	-	-	-	-	1
Bayer Reagent Strips	303	1	2	3	7	290
Consult Diagnostics Urine Analyzer	10	-	-	-	1	9
CTMI CT-120 Urine Analyzer	13	-	-	-	1	12
Diagnostic Test Group Clarity Urocheck	11	-	-	-	-	11
Diagnostic Test Group Clarity Urocheck 120	10	-	-	-	-	10
Germaine Laboratories AimStrip	1	-	-	-	-	1
McKesson 10SG Reagent Strips	12	1	-	-	1	10
Other Analyzer Method	5	-	-	-	2	3
Other Dipstick Method	11	1	-	-	3	7
PSS Select Reagent Strips	12	-	-	-	3	9
PSS Select Urine Analyzer	5	-	-	-	-	5
Roche Chemstrip 101	8	-	-	-	-	8
Roche Chemstrips	72	1	-	-	8	63
Roche Criterion Analyzer	20	-	-	-	-	20
Roche SuperUA/ChemstripUA	2	-	-	-	1	1
Roche Urisys	43	-	-	1	17	25
Schein Urispec	3	-	-	-	-	3
UriScan Reagent Strips	2	-	-	-	1	1

URINALYSIS DIPSTICK--LEUKOCYTE ESTERASE

Specimen UA-3

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	1057	6	9	207	652	183
Arkray DiaScreen	11	-	1	-	3	7
Arkray DiaScreen 50	2	-	-	-	-	2
Bayer Bili-Labstix	1	-	-	-	-	1
Bayer Clinitek 10 / 100	17	-	-	3	12	2
Bayer Clinitek 200/200+	1	-	-	-	1	-
Bayer Clinitek 2000	1	-	-	1	-	-
Bayer Clinitek 50	79	-	1	24	49	5
Bayer Clinitek 500	24	-	-	12	12	-
Bayer Clinitek Advantus	19	-	-	7	11	1
Bayer Clinitek Atlas	5	-	-	-	-	5
Bayer Clinitek Status / Status+	344	-	5	112	177	50
Bayer Ictotest	1	-	-	-	1	-
Bayer Reagent Strips	295	3	2	38	230	22
Bayer Uristix	2	-	-	-	1	1
Consult Diagnostics Urine Analyzer	10	-	-	1	1	8
CTMI CT-120 Urine Analyzer	13	1	-	2	7	3
Diagnostic Test Group Clarity Urocheck	11	-	-	1	9	1
Diagnostic Test Group Clarity Urocheck 120	10	-	-	-	8	2
Germaine Laboratories AimStrip	1	-	-	-	1	-
McKesson 10SG Reagent Strips	12	-	-	-	9	3
Other Analyzer Method	5	-	-	-	-	5
Other Dipstick Method	11	1	-	1	6	3
PSS Select Reagent Strips	12	-	-	-	1	11
PSS Select Urine Analyzer	5	-	-	-	-	5
Roche Chemstrip 101	8	-	-	-	6	2
Roche Chemstrips	72	1	-	-	57	14
Roche Criterion Analyzer	20	-	-	-	14	6
Roche SuperUA/ChemstripUA	2	-	-	-	2	-
Roche Urisys	43	-	-	-	26	17
Schein Urispec	3	-	-	-	1	2
UriScan Reagent Strips	2	-	-	-	-	2

URINALYSIS DIPSTICK–NITRITE

Specimen UA-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1056	1049	7
Arkray DiaScreen	11	10	1
Arkray DiaScreen 50	2	2	-
Bayer Bili-Labstix	1	1	-
Bayer Clinitek 10 / 100	18	18	-
Bayer Clinitek 200/200+	1	1	-
Bayer Clinitek 2000	1	1	-
Bayer Clinitek 50	77	77	-
Bayer Clinitek 500	24	24	-
Bayer Clinitek Advantus	19	19	-
Bayer Clinitek Atlas	5	5	-
Bayer Clinitek Status / Status+	343	342	1
Bayer Ictotest	1	-	1
Bayer Reagent Strips	294	293	1
Bayer Uristix	2	2	-
Consult Diagnostics Urine Analyzer	10	10	-
CTMI CT-120 Urine Analyzer	13	13	-
Diagnostic Test Group Clarity Urocheck	10	9	1
Diagnostic Test Group Clarity Urocheck 120	10	10	-
Germaine Laboratories AimStrip	1	1	-
McKesson 10SG Reagent Strips	12	11	1
Other Analyzer Method	5	5	-
Other Dipstick Method	10	10	-
PSS Select Reagent Strips	12	12	-
PSS Select Urine Analyzer	5	5	-
Roche Chemstrip 101	8	8	-
Roche Chemstrips	72	71	1
Roche Criterion Analyzer	20	20	-
Roche SuperUA/ChemstripUA	2	2	-
Roche Urisys	43	43	-
Schein Urispec	3	3	-
UriScan Reagent Strips	2	2	-

URINALYSIS –MICROALBUMIN (dipstick only)

Specimen UA-3

<i>Participant Results</i>								
<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L(Pos)</u>	<u>20/30 mg/L</u>	<u>50 mg/L (+)</u>	<u>80 mg/L</u>	<u>100 mg/L (++)</u>	<u>150 mg/L</u>
ALL METHODS	95	1	1	-	7	4	32	50
Bayer Clinitek Microalbumin	42	-	-	-	-	2	-	40
DCL ImmunoDip	1	-	1	-	-	-	-	-
Micro-Bumintest	5	-	-	-	-	-	4	1
Roche Micral - 1 minute	35	1	-	-	7	1	26	-

URINALYSIS –URINE hCG

Specimen UA-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	578	576	2
AimStep Combo Pregnancy	1	1	-
Alfa Scientific Instant View	7	7	-
Bayer Clinitek 50	1	1	-
Bayer Clinitek Status / Status+	1	1	-
Beckman Coulter ICON 25 hCG	44	44	-
Cardinal Health SP Brand combo	27	27	-
Cardinal Hlth SPBrand-cassette	8	8	-
CONSULT diagnostics hCG Cassette	62	62	-
CONSULT diagnostics hCG Combo	14	14	-
CONSULT diagnostics hCG Dipstick	18	18	-
Diagnostic Test Group Clarity hCG strip/cassette	8	8	-
Genzyme OSOM - Urine Test	9	9	-
Genzyme OSOM Card Pregnancy	3	3	-
Genzyme OSOM hCG Combo Test	15	15	-
Henry Schein One Step	35	35	-
Immunostics Cept-D	1	-	1
Immunostics Detector Combi	1	1	-
Immunostics hCG Detector-urine	19	19	-
Inverness Acceava hCG Combo / II	1	1	-
Inverness Acceva hCG-Urine	4	4	-
Inverness Clearview 25 hCG Combo	10	10	-
Inverness Clearview hCG Cassette	7	7	-
Inverness Clearview hCG Combo II	7	7	-
LifeSign Status hCG	1	1	-
McKesson hCG Combo Cassette	19	19	-
McKesson hCG Urine Cassette	18	18	-
McKesson urine hCG-all 20 mIU kits	9	9	-
NDC Pro Advantage	13	13	-
PEP (Lab Supply) HCG	3	3	-
Polymedco Poly stat hCG	11	11	-
PSS Select hCG Cassette	4	4	-
PSS Select hCG Combo	1	1	-

URINALYSIS –URINE hCG cont'd

Specimen UA-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Quidel QuickVue One-Step Combo	32	31	1
Quidel QuickVue One-Step Urine	88	88	-
Quidel QuickVue+ One-Step Combo	20	20	-
Quidel RapidVue	1	1	-
Stanbio QuPID	6	6	-
Stanbio QuPID One-Step Preg.	1	1	-
Stanbio QuPID Plus	2	2	-
Stanbio QuStick	1	1	-
Stanbio TRUE hCG	8	8	-
Sure-Vue hCG - 25mIU	5	5	-
Sure-Vue hCG-STAT	3	3	-

FECAL OCCULT BLOOD

<u>Method</u>	Specimen OC-5			Specimen OC-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	505	499	6	506	7	499
Alfa Scientific Instant View	1	1	-	1	-	1
Beckman Coulter Hemoccult ICT	39	39	-	40	-	40
Guaiac (slide) Test	335	331	4	335	6	329
Hemosure iFOB	47	46	1	47	-	47
Inverness Clearview iFOBT Complete	2	2	-	2	-	2
Other Immunochemical FOB kit	21	21	-	21	-	21
Polymedco OC Auto Micro 80	7	7	-	7	-	7
Polymedco OC-Light iFOB	30	29	1	30	1	29
Quidel QuickVue iFOB	8	8	-	8	-	8
Wampole Clearview Ultra FOBT	1	1	-	1	-	1

2012 M3 URINE SEDIMENT IDENTIFICATION

CASE HISTORY US-5 and US-6:

A 34-year-old female presented with frequent painful urination, back pain, nausea, fever and chills. She has a history of recurrent urinary tract infections and kidney stones. A urinalysis was performed, and the results appear below.

Color = Yellow
Appearance = Cloudy

Dipstick results:

Specific gravity = 1.010
pH = 8.0
Protein = 100 mg/dL
Glucose = Negative
Ketones = Negative
Bilirubin = Negative
Urobilinogen = 0.2 mg/dL
Blood = Small
Leukocyte Esterase = Moderate
Nitrite = Negative

This patient was diagnosed with chronic pyelonephritis.

Pyelonephritis is an infection of the kidney and the ureters (the ducts that carry urine away from the kidney.) Pyelonephritis usually occurs as a result of a bacterial infection that has ascended from the lower urinary tract.

Specimen US-5

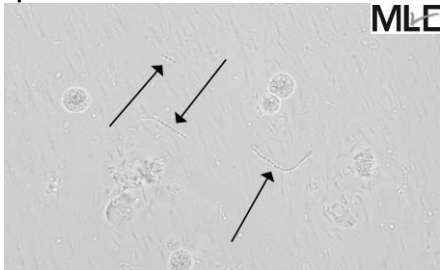


Identification	Labs	Percent	Performance
Granular cast	665	91.60%	Acceptable
Cellular (WBC) cast	35	4.82%	
RBC/blood/hgb cast	9	1.24%	
Hyaline cast	7	0.96%	

The arrow in this photograph points to a **granular cast**. Casts are cylindrical in shape and have nearly parallel sides. They are thick in the middle, and do not have dark edges. Granular casts are almost always indicators of significant renal disease. The renal tubules in the kidney secrete a mucoprotein called Tamm-Horsfall protein, which is believed to form the basic matrix of all casts. This type of protein does not affect the results of urine reagent strip tests for protein, which detect albumin. Granules may appear throughout the entire cast matrix or confined to one area of the cast. Granular casts are often further classified as either finely granular or coarsely granular, but the term “granular” is sufficient. Distinguishing the fineness or coarseness is of little clinical significance.

URINE SEDIMENT IDENTIFICATION cont'd

Specimen US-6



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Bacteria	656	90.36%	Acceptable
Yeast/fungi	45	6.20%	
Fiber/fecal contamination	10	1.38%	
Identification Unknown - Refer	8	1.10%	

The arrows in this photograph point to **bacteria**. These bacteria appear to be cocci in chains, indicating a streptococcal infection. A true urinary tract infection is usually associated with many white blood cells and a positive leukocyte esterase test, as well as measurable amounts of protein. The presence of large numbers of bacteria with only a few white blood cells indicates contamination due to improper collection or storage. A negative nitrite result does not rule out the possibility of a urinary tract infection. Some organisms (such as streptococci) do not convert nitrate to nitrite. In addition, urine must stay in the bladder at least 4 hours for the conversion to take place. Some participants identified these chains of bacteria as yeast. Yeasts tend to be much larger in size, and form irregular, branching chains of pseudohyphae, as well as singular budding forms. To view another photo of bacteria in chains, see 2006 M3 US-5. To view a photo of rod-shaped bacteria, see 2011 M1 Specimen US-2.

References:

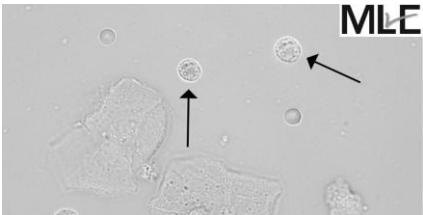
Mundt, L.A, Shanahan, K.: *Graff's Textbook of Routine Urinalysis and Body Fluids*, 2nd ed. Philadelphia, Lippincott Williams & Wilkins, 2011.

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

PROVIDER-PERFORMED MICROSCOPY (PPM)

Wet Mount Preparation

Specimen PPM-13



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
White Blood Cell (WBC)	571	94.22%	Acceptable
Red Blood Cell (RBC)	10	1.65%	
Trichomonas vaginalis	6	0.99%	
Clue cell	5	0.83%	

The arrows in this photograph of a vaginal wet mount point to **white blood cells**. Presence of a large number of white blood cells is associated with infections such as trichomonas, herpes, *Candidia*, gonorrhea, and Chlamydia.

KOH Preparation

Specimen PPM-14

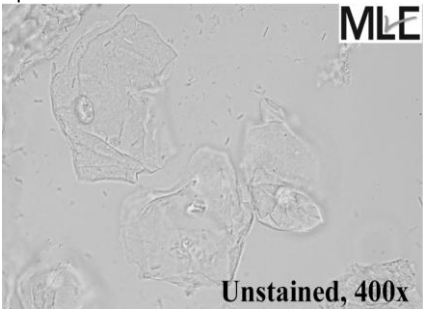


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Yeast/fungal elements present	589	99.49%	Acceptable
Yeast/fungal elements absent	3	0.51%	

Yeast and fungal elements are present in this photograph of a vaginal KOH prep.

PROVIDER-PERFORMED MICROSCOPY (PPM)

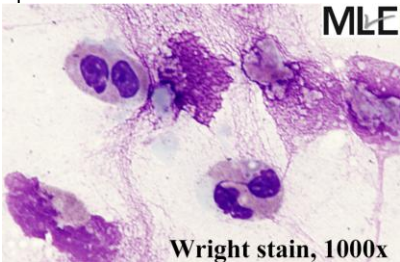
Sperm Identification
Specimen PPM-15



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Sperm absent	582	98.81%	Acceptable
Sperm present	7	1.19%	

Spermatozoa are absent in this photograph of a vaginal wet prep.

Nasal Smear
Specimen PPM-16

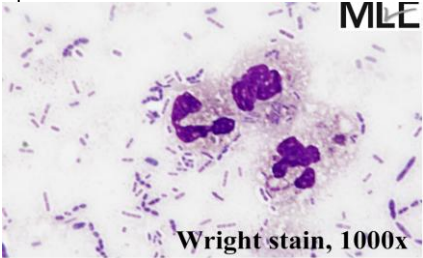


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Eosinophils absent	152	71.03%	Acceptable
Eosinophils present	62	28.97%	

Eosinophils are absent in this photograph of Wright-stained nasal mucus. The purpose of examining the leukocytes (white blood cells) in stained nasal secretions is to differentiate allergic conditions from infections. Eosinophils are a specific type of leukocyte that is increased in allergic conditions. The two nucleated cells shown in this photo are not eosinophils. They are neutrophils, which indicate infection rather than allergy. “Eos” have a unique red-orange color that makes them easy to spot and identify. The color comes from the dye eosin, which is a component of Wright stain. The cytoplasm of an eosinophil is filled with large, round, orange-staining granules that surround the purple nucleus but do not obscure it from view. To view a photo of eosinophils, see 2012 M2 Specimen PPM-10. This challenge was graded by 92% referee consensus.

PROVIDER-PERFORMED MICROSCOPY (PPM)

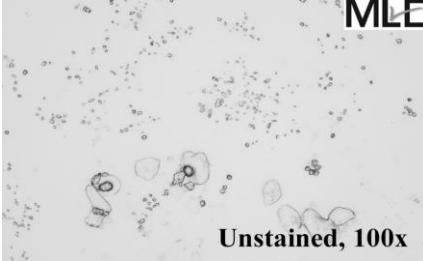
Fecal Leukocytes
Specimen PPM-17



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Leukocytes are present	216	98.63%	Acceptable
Leukocytes are absent	3	1.37%	

Leukocytes are present in this photograph of a Wright-stained stool preparation.

Vaginal Fluid Preparation
Specimen PPM-18



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Ferning absent	292	98.98%	Acceptable
Ferning present	3	1.02%	

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

References:

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

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