

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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2011 EVALUATION CRITERIA

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

Quantitative

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

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

Qualitative

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

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

HEMOCUE HEMATOLOGY–HEMOGLOBIN (g/dL)

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	66	13.60	0.31	2.3	13.6	12.6 - 14.6	66	16.97	0.35	2.1	16.9	15.9 - 18.1

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	71	111.4	8.3	7.5	111	86 - 137	70	316.5	13.1	4.1	317	277 - 356
HemoCue Glucose 201/+	64	112.0	8.0	7.1	111	88 - 137	62	317.1	11.4	3.6	317	282 - 352

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	217	49.8	14.1	28.3	46	7 - 93	224	6.6	2.4	36.6	7	0 - 14
HiChem Mini-Ves	14	83.4	17.1	20.5	91	32 - 135	16	5.6	3.4	61.6	5	0 - 16
Polymedco Sedimat	17	46.9	6.3	13.5	46	27 - 66	17	4.4	2.6	59.7	4	0 - 13
Streck ESR-Auto Plus	14	67.6	5.2	7.7	69	52 - 84	14	9.4	1.1	11.6	10	6 - 13
Vital Diagnostics Excyte M/10	18	64.8	8.1	12.5	64	40 - 90	18	6.9	1.1	16.0	7	3 - 11
Westergren - diluted	123	43.9	8.0	18.2	42	19 - 68	128	6.4	2.2	34.6	6	0 - 14
Westergren - undiluted	13	41.4	10.7	25.8	42	9 - 74	13	7.4	1.5	20.3	8	2 - 12
Wintrobe	11	39.6	11.9	29.9	39	4 - 76	11	9.0	2.9	32.6	8	0 - 18

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	20	60.5	6.8	11.3	59	40 - 81	20	1.6	0.5	31.4	2	0 - 4

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	37	7.93	0.28	3.5	7.9	6.7 - 9.2	37	3.11	0.13	4.2	3.1	2.6 - 3.6
All Abbott Cell-Dyn Instruments	36	7.91	0.27	3.4	7.9	6.7 - 9.2	36	3.10	0.12	4.0	3.1	2.6 - 3.6
Abbott Cell-Dyn 3200	18	8.00	0.24	3.0	8.0	6.8 - 9.2	18	3.14	0.10	3.3	3.1	2.6 - 3.7
Abbott Cell-Dyn Ruby	13	7.85	0.25	3.1	7.9	6.6 - 9.1	13	3.05	0.14	4.6	3.0	2.5 - 3.6
Specimen CL-13							Specimen CL-14					
All Method	35	20.40	0.62	3.0	20.4	17.3 - 23.5	37	8.00	0.26	3.2	8.0	6.8 - 9.2
All Abbott Cell-Dyn Instruments	35	20.40	0.62	3.0	20.4	17.3 - 23.5	36	7.98	0.24	3.0	8.0	6.7 - 9.2
Abbott Cell-Dyn 3200	18	20.41	0.67	3.3	20.4	17.3 - 23.5	18	8.08	0.20	2.5	8.1	6.8 - 9.3
Abbott Cell-Dyn Ruby	13	20.28	0.59	2.9	20.1	17.2 - 23.4	13	7.94	0.22	2.7	7.9	6.7 - 9.2
Specimen CL-15												
All Method	37	3.11	0.14	4.6	3.1	2.6 - 3.6						
All Abbott Cell-Dyn Instruments	36	3.10	0.13	4.2	3.1	2.6 - 3.6						
Abbott Cell-Dyn 3200	18	3.14	0.10	3.3	3.2	2.6 - 3.7						
Abbott Cell-Dyn Ruby	13	3.05	0.15	4.9	3.0	2.5 - 3.6						

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	36	4.772	0.108	2.3	4.76	4.48 - 5.06	36	2.196	0.042	1.9	2.21	2.06 - 2.33
All Abbott Cell-Dyn Instruments	35	4.771	0.110	2.3	4.76	4.48 - 5.06	35	2.195	0.042	1.9	2.20	2.06 - 2.33
Abbott Cell-Dyn 3200	18	4.737	0.093	2.0	4.75	4.45 - 5.03	18	2.198	0.044	2.0	2.21	2.06 - 2.33
Abbott Cell-Dyn Ruby	13	4.819	0.119	2.5	4.82	4.53 - 5.11	12	2.194	0.045	2.1	2.21	2.06 - 2.33
Specimen CL-13							Specimen CL-14					
All Method	36	5.206	0.105	2.0	5.18	4.89 - 5.52	37	4.756	0.105	2.2	4.77	4.47 - 5.05
All Abbott Cell-Dyn Instruments	35	5.204	0.106	2.0	5.16	4.89 - 5.52	36	4.755	0.107	2.2	4.77	4.46 - 5.05
Abbott Cell-Dyn 3200	18	5.208	0.102	2.0	5.16	4.89 - 5.53	18	4.742	0.108	2.3	4.70	4.45 - 5.03
Abbott Cell-Dyn Ruby	12	5.211	0.121	2.3	5.26	4.89 - 5.53	13	4.765	0.114	2.4	4.79	4.47 - 5.06
Specimen CL-15												
All Method	36	2.184	0.038	1.8	2.19	2.05 - 2.32						
All Abbott Cell-Dyn Instruments	35	2.183	0.039	1.8	2.19	2.05 - 2.32						
Abbott Cell-Dyn 3200	18	2.186	0.035	1.6	2.20	2.05 - 2.32						
Abbott Cell-Dyn Ruby	13	2.192	0.064	2.9	2.19	2.06 - 2.33						

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	37	13.69	0.33	2.4	13.7	12.7 - 14.7	36	5.61	0.15	2.7	5.6	5.2 - 6.1
All Abbott Cell-Dyn Instruments	36	13.69	0.34	2.5	13.7	12.7 - 14.7	35	5.61	0.15	2.7	5.6	5.2 - 6.0
Abbott Cell-Dyn 3200	18	13.65	0.27	2.0	13.7	12.6 - 14.7	17	5.65	0.12	2.2	5.7	5.2 - 6.1
Abbott Cell-Dyn Ruby	13	13.75	0.36	2.6	13.7	12.7 - 14.8	13	5.55	0.14	2.5	5.6	5.1 - 6.0
Specimen CL-13							Specimen CL-14					
All Method	36	16.37	0.35	2.2	16.3	15.2 - 17.6	37	13.67	0.34	2.5	13.7	12.7 - 14.7
All Abbott Cell-Dyn Instruments	35	16.36	0.35	2.2	16.3	15.2 - 17.6	36	13.66	0.34	2.5	13.7	12.7 - 14.7
Abbott Cell-Dyn 3200	18	16.41	0.38	2.3	16.4	15.2 - 17.6	18	13.66	0.31	2.3	13.7	12.7 - 14.7
Abbott Cell-Dyn Ruby	12	16.29	0.24	1.5	16.3	15.1 - 17.5	13	13.67	0.34	2.5	13.6	12.7 - 14.7
Specimen CL-15												
All Method	37	5.59	0.14	2.5	5.6	5.1 - 6.0						
All Abbott Cell-Dyn Instruments	36	5.58	0.14	2.4	5.6	5.1 - 6.0						
Abbott Cell-Dyn 3200	18	5.62	0.12	2.1	5.6	5.2 - 6.1						
Abbott Cell-Dyn Ruby	13	5.53	0.13	2.3	5.6	5.1 - 6.0						

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	37	38.55	2.10	5.5	38.1	36.2 - 40.9	37	15.53	0.90	5.8	15.3	14.5 - 16.5	
All Abbott Cell-Dyn Instruments	36	38.40	1.93	5.0	38.1	36.0 - 40.8	36	15.46	0.83	5.3	15.3	14.5 - 16.4	
Abbott Cell-Dyn 3200	18	37.43	0.70	1.9	37.5	35.1 - 39.7	18	15.19	0.41	2.7	15.3	14.2 - 16.2	
Abbott Cell-Dyn Ruby	13	38.38	1.34	3.5	38.5	36.0 - 40.7	13	15.16	0.48	3.2	15.1	14.2 - 16.1	
Specimen CL-13							Specimen CL-14						
All Method	36	44.15	2.63	6.0	43.3	41.5 - 46.9	37	38.65	2.21	5.7	38.2	36.3 - 41.0	
All Abbott Cell-Dyn Instruments	35	43.98	2.46	5.6	43.0	41.3 - 46.7	36	38.52	2.10	5.5	38.2	36.2 - 40.9	
Abbott Cell-Dyn 3200	18	42.92	1.04	2.4	42.8	40.3 - 45.5	18	37.64	0.98	2.6	37.6	35.3 - 39.9	
Abbott Cell-Dyn Ruby	12	43.42	1.45	3.3	43.5	40.8 - 46.1	13	37.98	1.05	2.8	38.2	35.7 - 40.3	
Specimen CL-15													
All Method	37	15.46	0.85	5.5	15.2	14.5 - 16.4							
All Abbott Cell-Dyn Instruments	36	15.40	0.78	5.1	15.2	14.4 - 16.4							
Abbott Cell-Dyn 3200	18	15.09	0.34	2.3	15.2	14.1 - 16.1							
Abbott Cell-Dyn Ruby	13	15.18	0.51	3.4	15.1	14.2 - 16.1							

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	35	302.0	23.1	7.7	306	226 - 378	35	78.9	5.2	6.6	79	59 - 99
All Abbott Cell-Dyn Instruments	34	302.5	23.3	7.7	307	226 - 379	34	78.6	4.7	6.0	79	58 - 99
Abbott Cell-Dyn 3200	18	303.3	13.6	4.5	306	227 - 380	17	75.6	3.1	4.1	76	56 - 95
Abbott Cell-Dyn Ruby	12	317.2	14.9	4.7	318	237 - 397	12	81.3	4.2	5.2	81	60 - 102
Specimen CL-13							Specimen CL-14					
All Method	32	554.1	22.6	4.1	562	415 - 693	35	299.0	18.0	6.0	301	224 - 374
All Abbott Cell-Dyn Instruments	31	554.9	22.4	4.0	562	416 - 694	34	299.6	17.9	6.0	302	224 - 375
Abbott Cell-Dyn 3200	16	558.3	15.7	2.8	564	418 - 698	18	301.4	12.9	4.3	300	226 - 377
Abbott Cell-Dyn Ruby	10	566.8	14.7	2.6	567	425 - 709	11	310.5	10.6	3.4	312	232 - 389
Specimen CL-15												
All Method	35	78.7	4.7	5.9	78	59 - 99						
All Abbott Cell-Dyn Instruments	34	78.3	4.2	5.4	78	58 - 98						
Abbott Cell-Dyn 3200	18	77.3	4.0	5.1	78	57 - 97						
Abbott Cell-Dyn Ruby	11	80.3	4.3	5.4	80	60 - 101						

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	36	63.58	0.54	0.8	63.6	61.9 - 65.2	37	51.28	1.35	2.6	51.5	47.2 - 55.4	
All Abbott Cell-Dyn Instruments	35	63.57	0.53	0.8	63.5	61.9 - 65.2	36	51.32	1.35	2.6	51.5	47.2 - 55.4	
Abbott Cell-Dyn 3200	18	63.28	0.60	0.9	63.4	61.4 - 65.1	18	50.85	1.34	2.6	50.6	46.8 - 54.9	
Abbott Cell-Dyn Ruby	13	63.73	0.58	0.9	63.6	61.9 - 65.5	13	51.98	1.04	2.0	52.1	48.8 - 55.1	
Specimen CL-13							Specimen CL-14						
All Method	36	77.44	0.74	1.0	77.4	75.2 - 79.7	37	63.55	0.74	1.2	63.6	61.3 - 65.8	
All Abbott Cell-Dyn Instruments	35	77.43	0.74	1.0	77.4	75.2 - 79.7	36	63.55	0.75	1.2	63.6	61.3 - 65.8	
Abbott Cell-Dyn 3200	18	77.33	0.67	0.9	77.3	75.3 - 79.4	18	63.14	0.68	1.1	63.3	61.1 - 65.2	
Abbott Cell-Dyn Ruby	13	77.40	0.79	1.0	77.5	75.0 - 79.8	13	63.90	0.61	1.0	63.8	62.0 - 65.8	
Specimen CL-15													
All Method	37	51.45	1.26	2.4	51.3	47.6 - 55.3							
All Abbott Cell-Dyn Instruments	36	51.48	1.27	2.5	51.3	47.6 - 55.3							
Abbott Cell-Dyn 3200	18	50.84	1.19	2.3	51.1	47.2 - 54.5							
Abbott Cell-Dyn Ruby	13	52.11	1.10	2.1	52.1	48.7 - 55.5							

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	36	26.84	0.67	2.5	27.0	24.8 - 28.9	37	37.40	1.42	3.8	37.3	33.1 - 41.7	
All Abbott Cell-Dyn Instruments	35	26.84	0.68	2.5	26.9	24.7 - 28.9	36	37.38	1.44	3.8	37.3	33.0 - 41.7	
Abbott Cell-Dyn 3200	19	26.96	0.73	2.7	27.0	24.7 - 29.2	19	37.51	1.62	4.3	37.5	32.6 - 42.4	
Abbott Cell-Dyn Ruby	12	26.29	0.86	3.3	26.5	23.7 - 28.9	12	36.78	0.91	2.5	36.6	34.0 - 39.5	
Specimen CL-13							Specimen CL-14						
All Method	36	16.16	1.07	6.6	16.0	12.9 - 19.4	37	26.86	0.87	3.3	27.0	24.2 - 29.5	
All Abbott Cell-Dyn Instruments	35	16.20	1.07	6.6	16.0	12.9 - 19.5	36	26.86	0.89	3.3	27.0	24.1 - 29.6	
Abbott Cell-Dyn 3200	19	16.40	1.08	6.6	16.2	13.1 - 19.7	19	26.93	0.90	3.3	27.2	24.2 - 29.7	
Abbott Cell-Dyn Ruby	12	15.79	1.10	7.0	15.6	12.4 - 19.1	12	26.82	0.99	3.7	26.6	23.8 - 29.8	
Specimen CL-15													
All Method	37	37.71	1.53	4.1	37.7	33.1 - 42.3							
All Abbott Cell-Dyn Instruments	36	37.66	1.53	4.1	37.7	33.0 - 42.3							
Abbott Cell-Dyn 3200	19	37.77	1.90	5.0	37.9	32.0 - 43.5							
Abbott Cell-Dyn Ruby	12	37.43	0.99	2.7	37.4	34.4 - 40.5							

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	37	4.97	0.55	11.1	5.0	3.3 - 6.7	37	5.65	0.91	16.2	5.6	2.9 - 8.4	
All Abbott Cell-Dyn Instruments	36	4.98	0.55	11.1	5.0	3.3 - 6.7	36	5.64	0.93	16.4	5.6	2.8 - 8.5	
Abbott Cell-Dyn 3200	18	4.93	0.51	10.4	5.0	3.3 - 6.5	18	5.75	1.07	18.5	5.6	2.5 - 9.0	
Abbott Cell-Dyn Ruby	13	5.18	0.60	11.6	5.2	3.3 - 7.0	13	5.77	0.78	13.4	5.9	3.4 - 8.1	
Specimen CL-13							Specimen CL-14						
All Method	37	2.60	0.64	24.7	2.8	0.6 - 4.6	37	4.96	0.67	13.6	5.0	2.9 - 7.0	
All Abbott Cell-Dyn Instruments	36	2.58	0.64	24.9	2.8	0.6 - 4.6	36	4.96	0.68	13.8	5.0	2.9 - 7.1	
Abbott Cell-Dyn 3200	18	2.48	0.60	24.1	2.5	0.6 - 4.3	18	5.13	0.71	13.8	5.2	3.0 - 7.3	
Abbott Cell-Dyn Ruby	13	2.88	0.64	22.3	3.1	0.9 - 4.9	13	4.73	0.72	15.2	4.8	2.5 - 6.9	
Specimen CL-15													
All Method	36	5.29	0.80	15.0	5.2	2.9 - 7.7							
All Abbott Cell-Dyn Instruments	36	5.39	0.91	16.9	5.2	2.6 - 8.2							
Abbott Cell-Dyn 3200	18	5.68	1.10	19.4	5.6	2.3 - 9.0							
Abbott Cell-Dyn Ruby	13	5.12	0.58	11.4	5.2	3.3 - 6.9							

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	36	4.26	0.26	6.2	4.2	3.4 - 5.1	37	4.92	0.40	8.2	5.0	3.7 - 6.2	
All Abbott Cell-Dyn Instruments	35	4.25	0.26	6.2	4.2	3.4 - 5.1	36	4.91	0.41	8.3	5.0	3.6 - 6.2	
Abbott Cell-Dyn 3200	17	4.23	0.21	5.0	4.3	3.5 - 4.9	18	4.93	0.39	8.0	5.0	3.7 - 6.2	
Abbott Cell-Dyn Ruby	13	4.26	0.28	6.6	4.2	3.4 - 5.2	13	4.78	0.44	9.2	4.8	3.4 - 6.1	
Specimen CL-13							Specimen CL-14						
All Method	36	3.26	0.18	5.6	3.3	2.7 - 3.9	36	4.16	0.20	4.8	4.1	3.5 - 4.8	
All Abbott Cell-Dyn Instruments	35	3.26	0.19	5.7	3.3	2.7 - 3.9	35	4.15	0.19	4.6	4.1	3.5 - 4.8	
Abbott Cell-Dyn 3200	18	3.21	0.21	6.7	3.2	2.5 - 3.9	17	4.16	0.17	4.0	4.1	3.6 - 4.7	
Abbott Cell-Dyn Ruby	13	3.30	0.12	3.7	3.3	2.9 - 3.7	13	4.15	0.24	5.9	4.1	3.4 - 4.9	
Specimen CL-15													
All Method	37	4.84	0.37	7.7	4.9	3.7 - 6.0							
All Abbott Cell-Dyn Instruments	36	4.82	0.37	7.6	4.9	3.7 - 6.0							
Abbott Cell-Dyn 3200	18	4.85	0.42	8.8	5.0	3.5 - 6.2							
Abbott Cell-Dyn Ruby	13	4.75	0.33	6.9	4.7	3.7 - 5.8							

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	37	0.51	0.23	45.7	0.5	0.0 - 1.2	37	0.79	0.31	39.7	0.8	0.0 - 1.8
All Abbott Cell-Dyn Instruments	36	0.51	0.23	45.3	0.5	0.0 - 1.3	36	0.78	0.32	40.3	0.8	0.0 - 1.8
Abbott Cell-Dyn 3200	18	0.57	0.22	39.2	0.6	0.0 - 1.3	18	0.96	0.30	31.3	0.9	0.0 - 1.9
Abbott Cell-Dyn Ruby	13	0.54	0.20	37.6	0.5	0.0 - 1.2	13	0.59	0.16	27.1	0.6	0.1 - 1.1
Specimen CL-13							Specimen CL-14					
All Method	36	0.48	0.24	50.3	0.6	0.0 - 1.3	37	0.51	0.25	49.0	0.5	0.0 - 1.3
All Abbott Cell-Dyn Instruments	35	0.47	0.23	49.0	0.5	0.0 - 1.2	36	0.51	0.26	49.7	0.5	0.0 - 1.3
Abbott Cell-Dyn 3200	17	0.47	0.21	44.3	0.5	0.0 - 1.1	18	0.62	0.25	41.0	0.7	0.0 - 1.4
Abbott Cell-Dyn Ruby	12	0.63	0.08	12.1	0.6	0.3 - 0.9	13	0.42	0.21	50.3	0.4	0.0 - 1.1
Specimen CL-15												
All Method	37	0.66	0.32	48.8	0.6	0.0 - 1.7						
All Abbott Cell-Dyn Instruments	36	0.67	0.32	47.8	0.7	0.0 - 1.7						
Abbott Cell-Dyn 3200	18	0.80	0.33	40.7	0.9	0.0 - 1.8						
Abbott Cell-Dyn Ruby	13	0.61	0.16	25.5	0.6	0.1 - 1.1						

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	55	8.33	0.25	3.0	8.3	7.0 - 9.6	55	2.97	0.10	3.3	3.0	2.5 - 3.5
All Sysmex Instruments	55	8.33	0.25	3.0	8.3	7.0 - 9.6	55	2.97	0.10	3.3	3.0	2.5 - 3.5
Sysmex K - 800,1000,4500,KX-21	33	8.19	0.15	1.9	8.2	6.9 - 9.5	33	2.93	0.08	2.8	2.9	2.4 - 3.4
Sysmex pocH-100i	22	8.55	0.20	2.4	8.6	7.2 - 9.9	22	3.04	0.09	3.0	3.1	2.5 - 3.5
Specimen SYX-13							Specimen SYX-14					
All Method	54	20.33	0.50	2.5	20.4	17.2 - 23.4	55	8.32	0.24	2.8	8.3	7.0 - 9.6
All Sysmex Instruments	54	20.33	0.50	2.5	20.4	17.2 - 23.4	55	8.32	0.24	2.8	8.3	7.0 - 9.6
Sysmex K - 800,1000,4500,KX-21	33	20.12	0.45	2.3	20.3	17.1 - 23.2	33	8.20	0.19	2.4	8.2	6.9 - 9.5
Sysmex pocH-100i	21	20.66	0.39	1.9	20.7	17.5 - 23.8	22	8.51	0.16	1.9	8.5	7.2 - 9.8
Specimen SYX-15												
All Method	55	2.97	0.11	3.6	3.0	2.5 - 3.5						
All Sysmex Instruments	55	2.97	0.11	3.6	3.0	2.5 - 3.5						
Sysmex K - 800,1000,4500,KX-21	33	2.95	0.11	3.8	3.0	2.5 - 3.4						
Sysmex pocH-100i	22	3.01	0.09	3.1	3.0	2.5 - 3.5						

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	54	4.161	0.058	1.4	4.17	3.91 - 4.42	54	2.548	0.036	1.4	2.55	2.39 - 2.71
All Sysmex Instruments	54	4.161	0.058	1.4	4.17	3.91 - 4.42	54	2.548	0.036	1.4	2.55	2.39 - 2.71
Sysmex K - 800,1000,4500,KX-21	33	4.149	0.049	1.2	4.15	3.90 - 4.40	33	2.539	0.024	1.0	2.54	2.38 - 2.70
Sysmex pocH-100i	22	4.189	0.081	1.9	4.19	3.93 - 4.44	22	2.567	0.050	2.0	2.57	2.41 - 2.73
Specimen SYX-13							Specimen SYX-14					
All Method	53	5.807	0.083	1.4	5.79	5.45 - 6.16	54	4.160	0.061	1.5	4.15	3.91 - 4.41
All Sysmex Instruments	53	5.807	0.083	1.4	5.79	5.45 - 6.16	54	4.160	0.061	1.5	4.15	3.91 - 4.41
Sysmex K - 800,1000,4500,KX-21	33	5.787	0.064	1.1	5.78	5.44 - 6.14	33	4.138	0.041	1.0	4.14	3.88 - 4.39
Sysmex pocH-100i	21	5.856	0.121	2.1	5.81	5.50 - 6.21	22	4.203	0.080	1.9	4.19	3.95 - 4.46
Specimen SYX-15												
All Method	54	2.542	0.039	1.5	2.54	2.38 - 2.70						
All Sysmex Instruments	54	2.542	0.039	1.5	2.54	2.38 - 2.70						
Sysmex K - 800,1000,4500,KX-21	33	2.538	0.026	1.0	2.54	2.38 - 2.70						
Sysmex pocH-100i	22	2.554	0.061	2.4	2.55	2.40 - 2.71						

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	53	12.09	0.15	1.2	12.1	11.2 - 13.0	55	6.27	0.10	1.5	6.3	5.8 - 6.8
All Sysmex Instruments	53	12.09	0.15	1.2	12.1	11.2 - 13.0	55	6.27	0.10	1.5	6.3	5.8 - 6.8
Sysmex K - 800,1000,4500,KX-21	32	12.06	0.13	1.1	12.1	11.2 - 13.0	33	6.28	0.09	1.4	6.3	5.8 - 6.8
Sysmex pocH-100i	21	12.13	0.16	1.3	12.1	11.2 - 13.0	22	6.25	0.11	1.7	6.3	5.8 - 6.7
Specimen SYX-13							Specimen SYX-14					
All Method	53	18.39	0.16	0.9	18.4	17.1 - 19.7	55	12.09	0.14	1.1	12.1	11.2 - 13.0
All Sysmex Instruments	53	18.39	0.16	0.9	18.4	17.1 - 19.7	55	12.09	0.14	1.1	12.1	11.2 - 13.0
Sysmex K - 800,1000,4500,KX-21	33	18.39	0.16	0.9	18.4	17.1 - 19.7	32	12.13	0.10	0.9	12.2	11.2 - 13.0
Sysmex pocH-100i	20	18.39	0.17	0.9	18.4	17.0 - 19.7	22	12.05	0.15	1.2	12.0	11.2 - 12.9
Specimen SYX-15												
All Method	55	6.27	0.09	1.4	6.3	5.8 - 6.8						
All Sysmex Instruments	55	6.27	0.09	1.4	6.3	5.8 - 6.8						
Sysmex K - 800,1000,4500,KX-21	33	6.28	0.09	1.5	6.3	5.8 - 6.8						
Sysmex pocH-100i	22	6.25	0.08	1.3	6.3	5.8 - 6.7						

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	32.72	1.06	3.3	32.4	30.7 - 34.7	55	17.57	0.63	3.6	17.3	16.5 - 18.7	
All Sysmex Instruments	55	32.72	1.06	3.3	32.4	30.7 - 34.7	55	17.57	0.63	3.6	17.3	16.5 - 18.7	
Sysmex K - 800,1000,4500,KX-21	33	32.03	0.41	1.3	32.0	30.1 - 34.0	33	17.14	0.22	1.3	17.1	16.1 - 18.2	
Sysmex pocH-100i	22	33.75	0.89	2.6	33.8	31.7 - 35.8	22	18.22	0.47	2.6	18.2	17.1 - 19.4	
Specimen SYX-13							Specimen SYX-14						
All Method	54	49.77	1.47	3.0	49.6	46.7 - 52.8	55	32.71	1.12	3.4	32.4	30.7 - 34.7	
All Sysmex Instruments	54	49.77	1.47	3.0	49.6	46.7 - 52.8	55	32.71	1.12	3.4	32.4	30.7 - 34.7	
Sysmex K - 800,1000,4500,KX-21	33	48.88	0.74	1.5	48.8	45.9 - 51.9	33	31.95	0.41	1.3	31.9	30.0 - 33.9	
Sysmex pocH-100i	21	51.16	1.23	2.4	51.2	48.0 - 54.3	22	33.85	0.85	2.5	33.9	31.8 - 35.9	
Specimen SYX-15													
All Method	55	17.52	0.60	3.4	17.3	16.4 - 18.6							
All Sysmex Instruments	55	17.52	0.60	3.4	17.3	16.4 - 18.6							
Sysmex K - 800,1000,4500,KX-21	33	17.13	0.23	1.3	17.1	16.1 - 18.2							
Sysmex pocH-100i	22	18.10	0.50	2.7	18.0	17.0 - 19.2							

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	178.9	9.4	5.3	179	134 - 224	55	59.8	4.8	8.1	59	44 - 75
All Sysmex Instruments	55	178.9	9.4	5.3	179	134 - 224	55	59.8	4.8	8.1	59	44 - 75
Sysmex K - 800,1000,4500,KX-21	33	183.1	7.7	4.2	183	137 - 229	33	59.4	4.6	7.7	59	44 - 75
Sysmex pocH-100i	22	172.6	8.1	4.7	173	129 - 216	22	60.4	5.3	8.7	60	45 - 76
Specimen SYX-13							Specimen SYX-14					
All Method	54	363.1	21.1	5.8	364	272 - 454	54	181.7	9.4	5.2	181	136 - 228
All Sysmex Instruments	54	363.1	21.1	5.8	364	272 - 454	54	181.7	9.4	5.2	181	136 - 228
Sysmex K - 800,1000,4500,KX-21	33	376.0	13.9	3.7	376	281 - 470	33	186.0	8.5	4.6	186	139 - 233
Sysmex pocH-100i	21	342.8	13.0	3.8	344	257 - 429	21	175.0	6.4	3.7	175	131 - 219
Specimen SYX-15												
All Method	54	59.8	4.0	6.7	60	44 - 75						
All Sysmex Instruments	54	59.8	4.0	6.7	60	44 - 75						
Sysmex K - 800,1000,4500,KX-21	33	59.9	3.6	6.1	60	44 - 75						
Sysmex pocH-100i	21	59.6	4.6	7.8	59	44 - 75						

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	53	30.96	1.09	3.5	30.9	27.6 - 34.3	53	9.61	1.08	11.2	9.6	6.3 - 12.9	
All Sysmex Instruments	53	30.96	1.09	3.5	30.9	27.6 - 34.3	53	9.61	1.08	11.2	9.6	6.3 - 12.9	
Sysmex K - 800,1000,4500,KX-21	32	31.58	0.75	2.4	31.7	29.3 - 33.9	32	10.08	0.91	9.0	10.1	7.3 - 12.9	
Sysmex pocH-100i	21	30.02	0.84	2.8	30.1	27.4 - 32.6	21	8.89	0.91	10.2	8.8	6.1 - 11.7	
Specimen SYX-13							Specimen SYX-14						
All Method	53	61.63	0.88	1.4	61.8	58.9 - 64.3	53	30.85	1.10	3.6	30.8	27.5 - 34.2	
All Sysmex Instruments	53	61.63	0.88	1.4	61.8	58.9 - 64.3	53	30.85	1.10	3.6	30.8	27.5 - 34.2	
Sysmex K - 800,1000,4500,KX-21	31	62.18	0.57	0.9	62.2	60.4 - 63.9	32	31.46	0.83	2.6	31.5	28.9 - 34.0	
Sysmex pocH-100i	21	60.90	0.61	1.0	60.8	59.0 - 62.8	21	29.91	0.76	2.5	30.1	27.6 - 32.2	
Specimen SYX-15													
All Method	53	9.20	0.89	9.6	9.4	6.5 - 11.9							
All Sysmex Instruments	53	9.20	0.89	9.6	9.4	6.5 - 11.9							
Sysmex K - 800,1000,4500,KX-21	32	9.54	0.76	8.0	9.6	7.2 - 11.9							
Sysmex pocH-100i	21	8.69	0.83	9.6	8.8	6.1 - 11.2							

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	52	15.61	0.91	5.9	15.7	12.8 - 18.4	52	17.01	1.61	9.5	17.0	12.1 - 21.9
All Sysmex Instruments	52	15.61	0.91	5.9	15.7	12.8 - 18.4	52	17.01	1.61	9.5	17.0	12.1 - 21.9
Sysmex K - 800,1000,4500,KX-21	31	15.99	0.68	4.2	16.0	13.9 - 18.1	31	17.63	1.61	9.1	17.8	12.8 - 22.5
Sysmex pocH-100i	21	15.05	0.94	6.3	15.3	12.2 - 17.9	21	16.10	1.13	7.0	16.0	12.6 - 19.6
Specimen SYX-13							Specimen SYX-14					
All Method	52	13.27	0.82	6.2	13.3	10.8 - 15.8	52	15.71	1.23	7.8	15.7	12.0 - 19.4
All Sysmex Instruments	52	13.27	0.82	6.2	13.3	10.8 - 15.8	52	15.71	1.23	7.8	15.7	12.0 - 19.4
Sysmex K - 800,1000,4500,KX-21	31	13.72	0.54	3.9	13.7	12.0 - 15.4	31	16.37	0.80	4.9	16.5	13.9 - 18.8
Sysmex pocH-100i	21	12.61	0.71	5.6	12.8	10.4 - 14.8	21	14.72	1.09	7.4	14.8	11.4 - 18.0
Specimen SYX-15												
All Method	52	17.16	1.50	8.8	17.1	12.6 - 21.7						
All Sysmex Instruments	52	17.16	1.50	8.8	17.1	12.6 - 21.7						
Sysmex K - 800,1000,4500,KX-21	31	17.91	1.28	7.1	17.8	14.0 - 21.8						
Sysmex pocH-100i	21	16.05	1.06	6.6	16.3	12.8 - 19.3						

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	52	53.43	1.61	3.0	53.0	48.5 - 58.3	52	73.40	2.04	2.8	73.9	67.2 - 79.6
All Sysmex Instruments	52	53.43	1.61	3.0	53.0	48.5 - 58.3	52	73.40	2.04	2.8	73.9	67.2 - 79.6
Sysmex K - 800,1000,4500,KX-21	31	52.40	0.96	1.8	52.4	49.5 - 55.3	31	72.30	1.80	2.5	72.8	66.9 - 77.8
Sysmex pocH-100i	21	54.93	1.11	2.0	54.6	51.5 - 58.3	21	75.01	1.09	1.5	75.2	71.7 - 78.3
Specimen SYX-13							Specimen SYX-14					
All Method	52	25.11	1.32	5.2	24.7	21.1 - 29.1	52	53.44	1.96	3.7	53.2	47.5 - 59.4
All Sysmex Instruments	52	25.11	1.32	5.2	24.7	21.1 - 29.1	52	53.44	1.96	3.7	53.2	47.5 - 59.4
Sysmex K - 800,1000,4500,KX-21	31	24.17	0.64	2.6	24.3	22.2 - 26.1	31	52.16	1.01	1.9	52.3	49.1 - 55.2
Sysmex pocH-100i	21	26.50	0.65	2.4	26.4	24.5 - 28.5	21	55.34	1.38	2.5	55.1	51.1 - 59.5
Specimen SYX-15												
All Method	52	73.67	1.79	2.4	73.8	68.2 - 79.1						
All Sysmex Instruments	52	73.67	1.79	2.4	73.8	68.2 - 79.1						
Sysmex K - 800,1000,4500,KX-21	31	72.59	1.32	1.8	72.3	68.6 - 76.6						
Sysmex pocH-100i	21	75.26	1.08	1.4	75.2	72.0 - 78.6						

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	945	20.10	0.76	3.8	20.2	17.0 - 23.2	933	4.20	0.39	9.2	4.1	3.5 - 4.9	
All Abbott Cell-Dyn Instruments	406	20.07	0.98	4.9	20.2	17.0 - 23.1	398	4.27	0.45	10.5	4.1	3.6 - 5.0	
All ABX Instruments	120	20.14	0.56	2.8	20.2	17.1 - 23.2	120	4.61	0.48	10.4	4.5	3.9 - 5.3	
All COULTER Instruments	368	20.09	0.50	2.5	20.1	17.0 - 23.2	362	4.08	0.18	4.5	4.1	3.4 - 4.7	
All Danam/Drew Scientific Instruments	12	19.79	0.77	3.9	20.0	16.8 - 22.8	12	4.32	0.34	8.0	4.3	3.6 - 5.0	
Abbott Cell-Dyn 1700	97	20.76	0.61	2.9	20.8	17.6 - 23.9	92	4.16	0.26	6.3	4.1	3.5 - 4.8	
Abbott Cell-Dyn 1800	227	20.23	0.73	3.6	20.3	17.1 - 23.3	223	4.07	0.21	5.2	4.1	3.4 - 4.7	
Abbott Cell-Dyn Emerald	72	18.71	0.77	4.1	18.8	15.9 - 21.6	74	5.06	0.42	8.3	5.0	4.3 - 5.9	
ABX Diagnostics Micros/45/60	120	20.14	0.56	2.8	20.2	17.1 - 23.2	120	4.61	0.48	10.4	4.5	3.9 - 5.3	
Boule Medonic CA 620	15	20.91	0.52	2.5	20.9	17.7 - 24.1	15	4.01	0.17	4.3	4.0	3.4 - 4.7	
Boule Medonic M series	25	18.84	0.86	4.6	18.7	16.0 - 21.7	26	3.58	0.19	5.3	3.6	3.0 - 4.2	
COULTER AcT 8/10	23	20.34	0.62	3.0	20.4	17.2 - 23.4	23	4.24	0.19	4.5	4.2	3.6 - 4.9	
COULTER AcT diff/diff 2	341	20.07	0.49	2.4	20.1	17.0 - 23.1	331	4.07	0.17	4.1	4.1	3.4 - 4.7	

Specimen HD-13							Specimen HD-14						
All Method	932	8.25	0.43	5.2	8.2	7.0 - 9.5	945	19.53	0.69	3.6	19.6	16.5 - 22.5	
All Abbott Cell-Dyn Instruments	397	8.35	0.43	5.2	8.3	7.0 - 9.7	404	19.55	0.76	3.9	19.7	16.6 - 22.5	
All ABX Instruments	120	8.70	0.58	6.6	8.6	7.3 - 10.1	119	19.82	0.55	2.8	19.9	16.8 - 22.8	
All COULTER Instruments	361	8.12	0.24	3.0	8.1	6.9 - 9.4	365	19.46	0.51	2.6	19.4	16.5 - 22.4	
All Danam/Drew Scientific Instruments	12	8.39	0.33	3.9	8.4	7.1 - 9.7	12	19.19	0.55	2.9	19.3	16.3 - 22.1	
Abbott Cell-Dyn 1700	94	8.38	0.35	4.2	8.4	7.1 - 9.7	96	19.81	0.59	3.0	19.8	16.8 - 22.8	
Abbott Cell-Dyn 1800	223	8.18	0.32	3.9	8.2	6.9 - 9.5	226	19.70	0.66	3.4	19.8	16.7 - 22.7	
Abbott Cell-Dyn Emerald	74	8.85	0.53	5.9	8.9	7.5 - 10.2	74	18.72	0.85	4.5	18.8	15.9 - 21.6	
ABX Diagnostics Micros/45/60	120	8.70	0.58	6.6	8.6	7.3 - 10.1	119	19.82	0.55	2.8	19.9	16.8 - 22.8	
Boule Medonic CA 620	15	8.20	0.32	3.9	8.2	6.9 - 9.5	15	20.08	0.57	2.9	20.2	17.0 - 23.1	
Boule Medonic M series	26	7.29	0.37	5.1	7.3	6.1 - 8.4	26	17.97	1.07	6.0	17.9	15.2 - 20.7	
COULTER AcT 8/10	23	8.32	0.30	3.7	8.4	7.0 - 9.6	23	19.74	0.67	3.4	19.7	16.7 - 22.7	
COULTER AcT diff/diff 2	335	8.11	0.23	2.9	8.1	6.8 - 9.4	336	19.43	0.48	2.5	19.4	16.5 - 22.4	

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–WHITE BLOOD CELL 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	949	8.28	0.30	3.6	8.3	7.0 - 9.6
All Abbott Cell-Dyn Instruments	402	8.35	0.33	3.9	8.4	7.1 - 9.7
All ABX Instruments	119	8.24	0.24	2.9	8.2	7.0 - 9.5
All COULTER Instruments	367	8.25	0.23	2.8	8.2	7.0 - 9.5
All Danam/Drew Scientific Instruments	12	8.15	0.23	2.8	8.2	6.9 - 9.4
Abbott Cell-Dyn 1700	96	8.55	0.26	3.0	8.5	7.2 - 9.9
Abbott Cell-Dyn 1800	226	8.35	0.29	3.5	8.4	7.0 - 9.7
Abbott Cell-Dyn Emerald	73	8.08	0.36	4.5	8.0	6.8 - 9.3
ABX Diagnostics Micros/45/60	119	8.24	0.24	2.9	8.2	7.0 - 9.5
Boule Medonic CA 620	15	8.51	0.28	3.3	8.5	7.2 - 9.8
Boule Medonic M series	26	7.82	0.31	4.0	7.8	6.6 - 9.0
COULTER AcT 8/10	23	8.37	0.26	3.1	8.4	7.1 - 9.7
COULTER AcT diff/diff 2	339	8.24	0.22	2.7	8.2	7.0 - 9.5

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

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	952	4.261	0.148	3.5	4.25	4.00 - 4.52
All Abbott Cell-Dyn Instruments	405	4.381	0.102	2.3	4.38	4.11 - 4.65
All ABX Instruments	119	4.211	0.091	2.2	4.20	3.95 - 4.47
All COULTER Instruments	363	4.148	0.099	2.4	4.14	3.89 - 4.40
All Danam/Drew Scientific Instruments	12	4.317	0.131	3.0	4.38	4.05 - 4.58
Abbott Cell-Dyn 1700	99	4.407	0.102	2.3	4.40	4.14 - 4.68
Abbott Cell-Dyn 1800	224	4.388	0.085	1.9	4.39	4.12 - 4.66
Abbott Cell-Dyn Emerald	73	4.311	0.124	2.9	4.32	4.05 - 4.57
ABX Diagnostics Micros/45/60	119	4.211	0.091	2.2	4.20	3.95 - 4.47
Boule Medonic CA 620	14	4.184	0.059	1.4	4.17	3.93 - 4.44
Boule Medonic M series	26	4.216	0.070	1.7	4.22	3.96 - 4.47
COULTER AcT 8/10	23	4.178	0.081	1.9	4.17	3.92 - 4.43
COULTER AcT diff/diff 2	335	4.145	0.102	2.5	4.14	3.89 - 4.40

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
958	2.858	0.126	4.4	2.84	2.68 - 3.03
401	2.977	0.074	2.5	2.98	2.79 - 3.16
119	2.791	0.062	2.2	2.79	2.62 - 2.96
367	2.764	0.069	2.5	2.76	2.59 - 2.94
12	2.882	0.087	3.0	2.91	2.70 - 3.06
97	2.959	0.063	2.1	2.96	2.78 - 3.14
227	3.002	0.067	2.2	3.00	2.82 - 3.19
73	2.908	0.090	3.1	2.91	2.73 - 3.09
119	2.791	0.062	2.2	2.79	2.62 - 2.96
15	2.802	0.048	1.7	2.80	2.63 - 2.98
25	2.790	0.036	1.3	2.79	2.62 - 2.96
23	2.798	0.065	2.3	2.79	2.63 - 2.97
337	2.761	0.067	2.4	2.76	2.59 - 2.93

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL-RED BLOOD CELL COUNT (x 10¹²/L) 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	957	2.842	0.121	4.3	2.83	2.67 - 3.02	953	4.246	0.144	3.4	4.24	3.99 - 4.51
All Abbott Cell-Dyn Instruments	401	2.957	0.072	2.4	2.96	2.77 - 3.14	403	4.366	0.094	2.1	4.37	4.10 - 4.63
All ABX Instruments	117	2.777	0.052	1.9	2.78	2.61 - 2.95	119	4.209	0.086	2.0	4.20	3.95 - 4.47
All COULTER Instruments	365	2.750	0.064	2.3	2.75	2.58 - 2.92	364	4.131	0.096	2.3	4.13	3.88 - 4.38
All Danam/Drew Scientific Instruments	12	2.868	0.057	2.0	2.87	2.69 - 3.05	12	4.295	0.104	2.4	4.34	4.03 - 4.56
Abbott Cell-Dyn 1700	97	2.944	0.063	2.1	2.94	2.76 - 3.13	98	4.387	0.079	1.8	4.39	4.12 - 4.65
Abbott Cell-Dyn 1800	227	2.981	0.062	2.1	2.98	2.80 - 3.17	225	4.371	0.089	2.0	4.37	4.10 - 4.64
Abbott Cell-Dyn Emerald	72	2.892	0.081	2.8	2.90	2.71 - 3.07	74	4.312	0.120	2.8	4.33	4.05 - 4.58
ABX Diagnostics Micros/45/60	117	2.777	0.052	1.9	2.78	2.61 - 2.95	119	4.209	0.086	2.0	4.20	3.95 - 4.47
Boule Medonic CA 620	15	2.769	0.080	2.9	2.76	2.60 - 2.94	15	4.159	0.057	1.4	4.16	3.90 - 4.41
Boule Medonic M series	26	2.788	0.047	1.7	2.79	2.62 - 2.96	26	4.215	0.078	1.8	4.21	3.96 - 4.47
COULTER AcT 8/10	23	2.772	0.056	2.0	2.76	2.60 - 2.94	23	4.171	0.098	2.3	4.17	3.92 - 4.43
COULTER AcT diff/diff 2	337	2.747	0.065	2.4	2.75	2.58 - 2.92	335	4.128	0.095	2.3	4.13	3.87 - 4.38
Specimen HD-15												
All Method	952	3.067	0.126	4.1	3.05	2.88 - 3.26						
All Abbott Cell-Dyn Instruments	405	3.180	0.085	2.7	3.19	2.98 - 3.38						
All ABX Instruments	120	2.992	0.063	2.1	2.99	2.81 - 3.18						
All COULTER Instruments	365	2.975	0.073	2.4	2.98	2.79 - 3.16						
All Danam/Drew Scientific Instruments	12	3.098	0.065	2.1	3.11	2.91 - 3.29						
Abbott Cell-Dyn 1700	96	3.182	0.063	2.0	3.19	2.99 - 3.38						
Abbott Cell-Dyn 1800	228	3.212	0.067	2.1	3.21	3.01 - 3.41						
Abbott Cell-Dyn Emerald	72	3.081	0.087	2.8	3.09	2.89 - 3.27						
ABX Diagnostics Micros/45/60	120	2.992	0.063	2.1	2.99	2.81 - 3.18						
Boule Medonic CA 620	14	2.991	0.029	1.0	2.99	2.81 - 3.18						
Boule Medonic M series	26	2.970	0.049	1.6	2.97	2.79 - 3.15						
COULTER AcT 8/10	23	2.997	0.067	2.2	3.00	2.81 - 3.18						
COULTER AcT diff/diff 2	336	2.973	0.073	2.4	2.97	2.79 - 3.16						

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	959	12.88	0.38	3.0	12.9	11.9 - 13.8	962	8.83	0.28	3.2	8.8	8.2 - 9.5
All Abbott Cell-Dyn Instruments	404	13.19	0.26	1.9	13.2	12.2 - 14.2	405	9.04	0.21	2.3	9.1	8.4 - 9.7
All ABX Instruments	120	12.63	0.22	1.8	12.6	11.7 - 13.6	119	8.62	0.16	1.8	8.6	8.0 - 9.3
All COULTER Instruments	368	12.66	0.29	2.3	12.7	11.7 - 13.6	369	8.65	0.20	2.3	8.7	8.0 - 9.3
All Danam/Drew Scientific Instruments	12	12.84	0.40	3.1	13.0	11.9 - 13.8	12	8.77	0.21	2.4	8.8	8.1 - 9.4
Abbott Cell-Dyn 1700	98	13.17	0.23	1.7	13.2	12.2 - 14.1	97	9.01	0.16	1.8	9.0	8.3 - 9.7
Abbott Cell-Dyn 1800	227	13.28	0.22	1.7	13.3	12.3 - 14.3	228	9.12	0.16	1.8	9.1	8.4 - 9.8
Abbott Cell-Dyn Emerald	73	12.93	0.26	2.0	13.0	12.0 - 13.9	72	8.79	0.18	2.0	8.8	8.1 - 9.5
ABX Diagnostics Micros/45/60	120	12.63	0.22	1.8	12.6	11.7 - 13.6	119	8.62	0.16	1.8	8.6	8.0 - 9.3
Boule Medonic CA 620	15	12.41	0.20	1.6	12.4	11.5 - 13.3	15	8.76	0.15	1.7	8.7	8.1 - 9.4
Boule Medonic M series	26	12.83	0.28	2.2	12.9	11.9 - 13.8	26	8.97	0.18	2.0	9.0	8.3 - 9.7
COULTER AcT 8/10	23	12.77	0.30	2.3	12.8	11.8 - 13.7	23	8.81	0.13	1.4	8.8	8.1 - 9.5
COULTER AcT diff/diff 2	339	12.64	0.28	2.2	12.7	11.7 - 13.6	337	8.64	0.18	2.1	8.6	8.0 - 9.3

Specimen HD-13							Specimen HD-14					
All Method	959	8.82	0.28	3.1	8.8	8.2 - 9.5	960	13.31	0.40	3.0	13.3	12.3 - 14.3
All Abbott Cell-Dyn Instruments	401	9.05	0.20	2.2	9.1	8.4 - 9.7	404	13.65	0.27	2.0	13.6	12.6 - 14.7
All ABX Instruments	120	8.61	0.14	1.7	8.6	8.0 - 9.3	121	13.01	0.21	1.6	13.0	12.0 - 14.0
All COULTER Instruments	370	8.64	0.19	2.2	8.7	8.0 - 9.3	363	13.07	0.27	2.0	13.1	12.1 - 14.0
All Danam/Drew Scientific Instruments	12	8.82	0.19	2.2	8.9	8.1 - 9.5	12	13.19	0.30	2.3	13.2	12.2 - 14.2
Abbott Cell-Dyn 1700	98	9.02	0.16	1.8	9.0	8.3 - 9.7	98	13.58	0.20	1.4	13.6	12.6 - 14.6
Abbott Cell-Dyn 1800	226	9.13	0.15	1.6	9.1	8.4 - 9.8	227	13.77	0.21	1.5	13.8	12.8 - 14.8
Abbott Cell-Dyn Emerald	71	8.78	0.17	2.0	8.8	8.1 - 9.4	74	13.31	0.28	2.1	13.4	12.3 - 14.3
ABX Diagnostics Micros/45/60	120	8.61	0.14	1.7	8.6	8.0 - 9.3	121	13.01	0.21	1.6	13.0	12.0 - 14.0
Boule Medonic CA 620	15	8.67	0.22	2.5	8.6	8.0 - 9.3	15	12.80	0.24	1.9	12.8	11.9 - 13.7
Boule Medonic M series	26	8.96	0.16	1.7	8.9	8.3 - 9.6	26	13.27	0.25	1.9	13.3	12.3 - 14.2
COULTER AcT 8/10	23	8.77	0.18	2.0	8.8	8.1 - 9.4	23	13.18	0.30	2.3	13.2	12.2 - 14.2
COULTER AcT diff/diff 2	341	8.63	0.18	2.1	8.6	8.0 - 9.3	334	13.06	0.26	2.0	13.1	12.1 - 14.0

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	958	9.34	0.29	3.2	9.3	8.6 - 10.0
All Abbott Cell-Dyn Instruments	403	9.59	0.22	2.3	9.6	8.9 - 10.3
All ABX Instruments	118	9.11	0.15	1.6	9.1	8.4 - 9.8
All COULTER Instruments	369	9.17	0.20	2.2	9.2	8.5 - 9.9
All Danam/Drew Scientific Instruments	12	9.33	0.20	2.1	9.3	8.6 - 10.0
Abbott Cell-Dyn 1700	96	9.56	0.16	1.7	9.6	8.8 - 10.3
Abbott Cell-Dyn 1800	224	9.68	0.16	1.7	9.7	9.0 - 10.4
Abbott Cell-Dyn Emerald	74	9.30	0.20	2.1	9.3	8.6 - 10.0
ABX Diagnostics Micros/45/60	118	9.11	0.15	1.6	9.1	8.4 - 9.8
Boule Medonic CA 620	15	9.15	0.14	1.5	9.1	8.5 - 9.8
Boule Medonic M series	26	9.27	0.15	1.6	9.2	8.6 - 10.0
COULTER AcT 8/10	23	9.30	0.19	2.0	9.3	8.6 - 10.0
COULTER AcT diff/diff 2	340	9.16	0.20	2.1	9.2	8.5 - 9.9

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	955	48.24	3.07	6.4	48.0	45.3 - 51.2
All Abbott Cell-Dyn Instruments	404	51.04	1.55	3.0	51.1	47.9 - 54.2
All ABX Instruments	118	43.56	0.98	2.2	43.5	40.9 - 46.2
All COULTER Instruments	364	46.76	1.42	3.0	46.8	43.9 - 49.6
All Danam/Drew Scientific Instruments	12	48.33	1.71	3.5	48.8	45.4 - 51.3
Abbott Cell-Dyn 1700	99	50.74	1.45	2.9	50.8	47.6 - 53.8
Abbott Cell-Dyn 1800	223	51.49	1.40	2.7	51.5	48.3 - 54.6
Abbott Cell-Dyn Emerald	73	50.16	1.60	3.2	50.2	47.1 - 53.2
ABX Diagnostics Micros/45/60	118	43.56	0.98	2.2	43.5	40.9 - 46.2
Boule Medonic CA 620	14	46.40	0.91	2.0	46.5	43.6 - 49.2
Boule Medonic M series	26	47.66	1.36	2.8	47.6	44.7 - 50.6
COULTER AcT 8/10	23	46.31	0.94	2.0	46.4	43.5 - 49.1
COULTER AcT diff/diff 2	336	46.81	1.45	3.1	46.8	43.9 - 49.7

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
958	32.19	2.25	7.0	32.1	30.2 - 34.2
407	34.24	1.18	3.5	34.3	32.1 - 36.3
119	28.55	0.70	2.5	28.6	26.8 - 30.3
365	31.29	0.97	3.1	31.3	29.4 - 33.2
12	32.41	1.09	3.4	32.6	30.4 - 34.4
97	33.70	0.92	2.7	33.6	31.6 - 35.8
227	34.75	1.04	3.0	34.7	32.6 - 36.9
74	33.49	1.17	3.5	33.6	31.4 - 35.6
119	28.55	0.70	2.5	28.6	26.8 - 30.3
15	31.04	0.63	2.0	31.2	29.1 - 33.0
26	31.47	0.85	2.7	31.5	29.5 - 33.4
23	31.05	0.85	2.7	31.0	29.1 - 33.0
336	31.32	0.97	3.1	31.3	29.4 - 33.2

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	959	32.01	2.19	6.8	31.9	30.0 - 34.0	959	49.55	3.22	6.5	49.4	46.5 - 52.6	
All Abbott Cell-Dyn Instruments	404	34.01	1.09	3.2	34.0	31.9 - 36.1	405	52.58	1.42	2.7	52.6	49.4 - 55.8	
All ABX Instruments	118	28.41	0.62	2.2	28.4	26.7 - 30.2	120	44.49	1.06	2.4	44.5	41.8 - 47.2	
All COULTER Instruments	366	31.14	0.93	3.0	31.1	29.2 - 33.1	362	48.05	1.36	2.8	48.1	45.1 - 51.0	
All Danam/Drew Scientific Instruments	12	32.29	0.61	1.9	32.2	30.3 - 34.3	12	49.78	1.19	2.4	50.0	46.7 - 52.8	
Abbott Cell-Dyn 1700	97	33.50	0.91	2.7	33.5	31.4 - 35.6	97	52.36	1.22	2.3	52.4	49.2 - 55.6	
Abbott Cell-Dyn 1800	224	34.46	0.93	2.7	34.4	32.3 - 36.6	226	52.88	1.38	2.6	52.9	49.7 - 56.1	
Abbott Cell-Dyn Emerald	73	33.46	1.06	3.2	33.5	31.4 - 35.5	74	51.80	1.51	2.9	52.0	48.6 - 55.0	
ABX Diagnostics Micros/45/60	118	28.41	0.62	2.2	28.4	26.7 - 30.2	120	44.49	1.06	2.4	44.5	41.8 - 47.2	
Boule Medonic CA 620	15	30.26	1.27	4.2	30.6	28.4 - 32.1	15	47.18	1.03	2.2	47.1	44.3 - 50.1	
Boule Medonic M series	26	31.38	0.75	2.4	31.4	29.4 - 33.3	26	49.27	1.28	2.6	49.0	46.3 - 52.3	
COULTER AcT 8/10	23	30.69	0.71	2.3	30.6	28.8 - 32.6	23	47.76	1.11	2.3	47.7	44.8 - 50.7	
COULTER AcT diff/diff 2	337	31.18	0.93	3.0	31.2	29.3 - 33.1	334	48.08	1.39	2.9	48.1	45.1 - 51.0	

Specimen HD-15						
All Method	957	29.13	1.69	5.8	28.9	27.3 - 30.9
All Abbott Cell-Dyn Instruments	404	30.77	0.82	2.7	30.8	28.9 - 32.7
All ABX Instruments	119	27.01	0.61	2.3	27.0	25.3 - 28.7
All COULTER Instruments	365	28.11	0.80	2.8	28.1	26.4 - 29.8
All Danam/Drew Scientific Instruments	12	29.89	0.59	2.0	29.9	28.0 - 31.7
Abbott Cell-Dyn 1700	96	30.40	0.73	2.4	30.5	28.5 - 32.3
Abbott Cell-Dyn 1800	226	30.96	0.74	2.4	30.9	29.1 - 32.9
Abbott Cell-Dyn Emerald	73	30.72	0.96	3.1	30.8	28.8 - 32.6
ABX Diagnostics Micros/45/60	119	27.01	0.61	2.3	27.0	25.3 - 28.7
Boule Medonic CA 620	15	27.47	0.65	2.4	27.4	25.8 - 29.2
Boule Medonic M series	26	28.41	0.73	2.6	28.5	26.7 - 30.2
COULTER AcT 8/10	23	28.46	0.67	2.4	28.6	26.7 - 30.2
COULTER AcT diff/diff 2	336	28.08	0.80	2.8	28.1	26.3 - 29.8

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	947	119.1	15.7	13.2	119	89 - 149	951	521.2	48.0	9.2	527	390 - 652	
All Abbott Cell-Dyn Instruments	403	117.5	11.0	9.4	117	88 - 147	405	536.1	27.9	5.2	536	402 - 671	
All ABX Instruments	120	123.4	12.3	10.0	122	92 - 155	119	573.8	29.9	5.2	570	430 - 718	
All COULTER Instruments	365	119.5	20.9	17.5	121	89 - 150	365	485.4	45.1	9.3	490	364 - 607	
All Danam/Drew Scientific Instruments	12	118.5	13.2	11.1	117	88 - 149	12	524.3	37.7	7.2	539	393 - 656	
Abbott Cell-Dyn 1700	98	115.7	12.0	10.3	115	86 - 145	98	537.6	32.7	6.1	540	403 - 673	
Abbott Cell-Dyn 1800	226	118.0	10.4	8.8	117	88 - 148	221	537.4	21.4	4.0	537	403 - 672	
Abbott Cell-Dyn Emerald	71	117.2	11.3	9.7	116	87 - 147	73	532.4	32.2	6.0	527	399 - 666	
ABX Diagnostics Micros/45/60	120	123.4	12.3	10.0	122	92 - 155	119	573.8	29.9	5.2	570	430 - 718	
Boule Medonic CA 620	13	114.7	14.9	13.0	111	86 - 144	15	512.1	36.8	7.2	527	384 - 641	
Boule Medonic M series	25	120.1	8.8	7.3	121	90 - 151	26	552.7	27.9	5.1	552	414 - 691	
COULTER AcT 8/10	23	100.4	10.1	10.1	99	75 - 126	22	445.4	31.0	7.0	438	334 - 557	
COULTER AcT diff/diff 2	336	120.9	20.9	17.3	123	90 - 152	337	487.7	44.9	9.2	492	365 - 610	

Specimen HD-13							Specimen HD-14						
All Method	957	515.9	48.7	9.4	522	386 - 645	941	294.9	36.8	12.5	290	221 - 369	
All Abbott Cell-Dyn Instruments	406	530.3	28.0	5.3	530	397 - 663	402	284.4	21.1	7.4	284	213 - 356	
All ABX Instruments	118	567.7	28.1	4.9	566	425 - 710	116	299.0	21.0	7.0	298	224 - 374	
All COULTER Instruments	367	479.5	45.2	9.4	483	359 - 600	366	306.1	51.6	16.9	317	229 - 383	
All Danam/Drew Scientific Instruments	12	532.3	32.0	6.0	542	399 - 666	12	276.4	19.3	7.0	278	207 - 346	
Abbott Cell-Dyn 1700	99	533.4	31.8	6.0	533	400 - 667	98	297.2	21.3	7.2	297	222 - 372	
Abbott Cell-Dyn 1800	225	529.0	24.5	4.6	529	396 - 662	221	283.0	17.4	6.2	283	212 - 354	
Abbott Cell-Dyn Emerald	73	530.2	31.2	5.9	527	397 - 663	72	271.1	19.1	7.0	272	203 - 339	
ABX Diagnostics Micros/45/60	118	567.7	28.1	4.9	566	425 - 710	116	299.0	21.0	7.0	298	224 - 374	
Boule Medonic CA 620	14	507.5	40.5	8.0	505	380 - 635	15	296.3	31.1	10.5	290	222 - 371	
Boule Medonic M series	25	549.5	24.4	4.4	542	412 - 687	25	309.0	21.5	7.0	310	231 - 387	
COULTER AcT 8/10	23	432.1	29.9	6.9	428	324 - 541	22	249.6	16.5	6.6	257	187 - 313	
COULTER AcT diff/diff 2	338	482.5	44.6	9.2	486	361 - 604	338	310.2	51.3	16.5	325	232 - 388	

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	950	133.8	19.7	14.7	132	100 - 168
All Abbott Cell-Dyn Instruments	402	126.9	13.3	10.5	126	95 - 159
All ABX Instruments	119	140.2	15.2	10.8	139	105 - 176
All COULTER Instruments	368	138.7	24.4	17.6	143	103 - 174
All Danam/Drew Scientific Instruments	12	127.8	7.4	5.8	128	95 - 160
Abbott Cell-Dyn 1700	97	126.8	12.6	9.9	127	95 - 159
Abbott Cell-Dyn 1800	224	124.6	11.6	9.3	125	93 - 156
Abbott Cell-Dyn Emerald	71	134.2	15.0	11.2	136	100 - 168
ABX Diagnostics Micros/45/60	119	140.2	15.2	10.8	139	105 - 176
Boule Medonic CA 620	15	129.5	14.1	10.9	128	97 - 162
Boule Medonic M series	25	142.5	14.4	10.1	143	106 - 179
COULTER AcT 8/10	23	112.9	15.2	13.4	114	84 - 142
COULTER AcT diff/diff 2	339	140.5	24.1	17.2	144	105 - 176

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	886	56.13	1.60	2.8	56.1	51.3 - 61.0
All Abbott Cell-Dyn Instruments	378	54.98	1.02	1.9	55.0	51.9 - 58.1
All ABX Instruments	115	55.62	0.76	1.4	55.7	53.3 - 58.0
All COULTER Instruments	323	57.39	0.56	1.0	57.4	55.7 - 59.1
All Danam/Drew Scientific Instruments	12	56.97	1.36	2.4	56.5	52.9 - 61.1
Abbott Cell-Dyn 1700	86	55.92	0.93	1.7	55.9	53.1 - 58.8
Abbott Cell-Dyn 1800	214	54.46	0.85	1.6	54.5	51.9 - 57.1
Abbott Cell-Dyn Emerald	70	55.35	0.56	1.0	55.4	53.6 - 57.1
ABX Diagnostics Micros/45/60	115	55.62	0.76	1.4	55.7	53.3 - 58.0
Boule Medonic CA 620	15	60.15	0.73	1.2	60.1	57.9 - 62.4
Boule Medonic M series	25	58.17	1.38	2.4	58.5	54.0 - 62.4
COULTER AcT 8/10	17	51.69	2.31	4.5	51.3	44.7 - 58.7
COULTER AcT diff/diff 2	318	57.40	0.52	0.9	57.4	55.8 - 59.0

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
889	40.48	5.60	13.8	38.5	23.6 - 57.3
379	41.39	6.75	16.3	38.7	21.1 - 61.7
118	46.84	5.71	12.2	46.6	29.7 - 64.0
335	38.09	1.37	3.6	38.0	33.9 - 42.3
12	44.02	3.58	8.1	44.0	33.2 - 54.8
83	40.65	3.53	8.7	39.8	30.0 - 51.3
209	37.40	2.15	5.8	37.0	30.9 - 43.9
68	53.02	2.69	5.1	53.3	44.9 - 61.1
118	46.84	5.71	12.2	46.6	29.7 - 64.0
15	38.00	1.91	5.0	38.1	32.2 - 43.8
25	33.52	1.27	3.8	33.7	29.7 - 37.4
17	38.94	1.51	3.9	38.4	34.3 - 43.5
315	38.05	1.35	3.5	37.9	34.0 - 42.2

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	889	49.78	2.62	5.3	49.5	41.9 - 57.7	893	50.53	1.79	3.5	51.0	45.1 - 55.9
All Abbott Cell-Dyn Instruments	379	49.54	3.29	6.6	48.4	39.6 - 59.5	378	49.46	1.70	3.4	49.0	44.3 - 54.6
All ABX Instruments	118	52.11	3.07	5.9	51.7	42.9 - 61.4	117	50.87	1.31	2.6	50.7	46.9 - 54.9
All COULTER Instruments	333	49.49	0.99	2.0	49.5	46.5 - 52.5	327	51.57	0.67	1.3	51.6	49.5 - 53.6
All Danam/Drew Scientific Instruments	12	51.40	1.47	2.9	50.8	46.9 - 55.9	12	51.90	1.47	2.8	52.1	47.4 - 56.4
Abbott Cell-Dyn 1700	84	50.15	1.89	3.8	49.8	44.4 - 55.9	82	50.43	1.09	2.2	50.3	47.1 - 53.7
Abbott Cell-Dyn 1800	212	47.36	1.17	2.5	47.2	43.8 - 50.9	216	48.28	0.79	1.6	48.3	45.8 - 50.7
Abbott Cell-Dyn Emerald	69	54.96	1.65	3.0	55.0	50.0 - 59.9	70	51.70	0.93	1.8	51.7	48.9 - 54.5
ABX Diagnostics Micros/45/60	118	52.11	3.07	5.9	51.7	42.9 - 61.4	117	50.87	1.31	2.6	50.7	46.9 - 54.9
Boule Medonic CA 620	14	50.36	2.25	4.5	51.0	43.5 - 57.2	15	53.59	0.99	1.9	53.7	50.6 - 56.6
Boule Medonic M series	25	48.52	1.28	2.6	48.3	44.6 - 52.4	24	50.71	0.98	1.9	50.6	47.7 - 53.7
COULTER AcT 8/10	17	46.81	1.67	3.6	46.2	41.7 - 51.9	17	45.97	2.07	4.5	45.5	39.7 - 52.2
COULTER AcT diff/diff 2	317	49.57	0.84	1.7	49.5	47.0 - 52.2	321	51.61	0.57	1.1	51.6	49.8 - 53.4
Specimen HD-15												
All Method	886	28.21	1.61	5.7	28.2	23.3 - 33.1						
All Abbott Cell-Dyn Instruments	376	27.96	1.94	6.9	27.3	22.1 - 33.8						
All ABX Instruments	117	29.00	1.78	6.1	28.7	23.6 - 34.4						
All COULTER Instruments	337	28.46	0.71	2.5	28.5	26.3 - 30.6						
All Danam/Drew Scientific Instruments	12	29.48	1.16	3.9	29.6	25.9 - 33.0						
Abbott Cell-Dyn 1700	82	27.76	1.01	3.6	27.7	24.7 - 30.8						
Abbott Cell-Dyn 1800	214	26.91	0.78	2.9	26.8	24.5 - 29.3						
Abbott Cell-Dyn Emerald	69	31.32	1.22	3.9	31.2	27.6 - 35.0						
ABX Diagnostics Micros/45/60	117	29.00	1.78	6.1	28.7	23.6 - 34.4						
Boule Medonic CA 620	15	28.33	1.26	4.5	28.3	24.5 - 32.2						
Boule Medonic M series	25	25.08	1.23	4.9	25.1	21.4 - 28.8						
COULTER AcT 8/10	17	26.88	0.75	2.8	26.7	24.6 - 29.2						
COULTER AcT diff/diff 2	317	28.52	0.61	2.1	28.5	26.6 - 30.4						

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	876	8.73	2.31	26.4	9.7	1.8 - 15.7	872	6.41	1.78	27.8	7.0	1.0 - 11.8
All Abbott Cell-Dyn Instruments	378	8.68	1.76	20.3	9.4	3.4 - 14.0	377	6.16	1.42	23.0	6.6	1.9 - 10.5
All ABX Instruments	115	4.61	0.63	13.7	4.5	2.7 - 6.6	114	3.35	0.45	13.4	3.3	1.9 - 4.7
All COULTER Instruments	319	10.61	0.31	2.9	10.6	9.6 - 11.6	318	7.71	0.63	8.1	7.7	5.8 - 9.6
All Danam/Drew Scientific Instruments	12	7.73	0.83	10.8	7.9	5.2 - 10.3	12	4.68	0.37	8.0	4.9	3.5 - 5.8
Abbott Cell-Dyn 1700	88	8.83	0.36	4.1	8.8	7.7 - 10.0	90	5.84	0.68	11.7	5.8	3.7 - 7.9
Abbott Cell-Dyn 1800	211	9.79	0.39	4.0	9.8	8.6 - 11.0	211	7.10	0.63	8.9	7.1	5.2 - 9.0
Abbott Cell-Dyn Emerald	68	5.28	0.41	7.7	5.3	4.0 - 6.6	67	3.78	0.39	10.3	3.8	2.6 - 5.0
ABX Diagnostics Micros/45/60	115	4.61	0.63	13.7	4.5	2.7 - 6.6	114	3.35	0.45	13.4	3.3	1.9 - 4.7
Boule Medonic CA 620	15	7.91	0.98	12.3	7.8	4.9 - 10.9	15	7.97	1.73	21.7	8.2	2.7 - 13.2
Boule Medonic M series	25	6.72	0.73	10.9	6.6	4.5 - 9.0	25	7.69	1.05	13.7	7.6	4.5 - 10.9
COULTER AcT diff/diff 2	316	10.61	0.31	2.9	10.6	9.6 - 11.6	315	7.71	0.62	8.1	7.7	5.8 - 9.6

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	875	9.08	2.73	30.1	9.9	0.8 - 17.3	875	7.81	2.09	26.7	8.6	1.5 - 14.1
All Abbott Cell-Dyn Instruments	377	8.69	1.92	22.1	9.4	2.9 - 14.5	377	7.64	1.55	20.2	8.3	3.0 - 12.3
All ABX Instruments	115	4.25	0.61	14.3	4.1	2.4 - 6.1	113	3.98	0.45	11.4	3.9	2.6 - 5.4
All COULTER Instruments	320	11.50	0.58	5.0	11.6	9.7 - 13.3	319	9.54	0.33	3.5	9.5	8.5 - 10.6
All Danam/Drew Scientific Instruments	12	7.38	0.71	9.7	7.7	5.2 - 9.6	12	6.87	0.79	11.6	7.2	4.4 - 9.3
Abbott Cell-Dyn 1700	89	8.88	0.61	6.9	8.8	7.0 - 10.8	87	7.72	0.36	4.7	7.7	6.6 - 8.9
Abbott Cell-Dyn 1800	207	9.88	0.49	4.9	9.9	8.4 - 11.4	210	8.63	0.35	4.0	8.6	7.5 - 9.7
Abbott Cell-Dyn Emerald	67	5.03	0.39	7.7	5.0	3.8 - 6.2	68	4.68	0.37	7.9	4.7	3.5 - 5.8
ABX Diagnostics Micros/45/60	115	4.25	0.61	14.3	4.1	2.4 - 6.1	113	3.98	0.45	11.4	3.9	2.6 - 5.4
Boule Medonic CA 620	15	8.53	1.57	18.5	8.5	3.8 - 13.3	15	7.88	0.88	11.2	7.7	5.2 - 10.6
Boule Medonic M series	25	8.56	0.67	7.8	8.5	6.5 - 10.6	25	6.60	0.80	12.1	6.6	4.1 - 9.0
COULTER AcT diff/diff 2	317	11.50	0.58	5.1	11.6	9.7 - 13.3	316	9.54	0.33	3.5	9.5	8.5 - 10.6

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	872	3.84	0.93	24.2	4.1	1.0 - 6.7
All Abbott Cell-Dyn Instruments	377	3.88	0.81	20.8	4.0	1.4 - 6.4
All ABX Instruments	117	2.18	0.28	12.7	2.1	1.3 - 3.1
All COULTER Instruments	320	4.32	0.34	7.8	4.3	3.3 - 5.4
All Danam/Drew Scientific Instruments	12	2.91	0.21	7.1	2.9	2.2 - 3.6
Abbott Cell-Dyn 1700	87	3.68	0.31	8.4	3.7	2.7 - 4.7
Abbott Cell-Dyn 1800	211	4.40	0.42	9.6	4.4	3.1 - 5.7
Abbott Cell-Dyn Emerald	68	2.61	0.28	10.9	2.6	1.7 - 3.5
ABX Diagnostics Micros/45/60	117	2.18	0.28	12.7	2.1	1.3 - 3.1
Boule Medonic CA 620	15	4.56	0.45	9.9	4.5	3.2 - 6.0
Boule Medonic M series	24	4.79	0.41	8.6	4.8	3.5 - 6.1
COULTER AcT diff/diff 2	317	4.31	0.33	7.7	4.3	3.3 - 5.4

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	877	35.05	3.00	8.6	35.2	26.0 - 44.1	864	53.10	4.33	8.1	54.3	40.1 - 66.1
All Abbott Cell-Dyn Instruments	383	36.33	1.76	4.8	36.0	31.0 - 41.7	376	52.62	5.34	10.2	54.7	36.5 - 68.7
All ABX Instruments	114	39.74	1.05	2.6	39.9	36.5 - 42.9	118	49.75	5.47	11.0	50.2	33.3 - 66.2
All COULTER Instruments	320	31.97	0.54	1.7	32.0	30.3 - 33.6	315	54.22	1.17	2.2	54.4	50.7 - 57.8
All Danam/Drew Scientific Instruments	12	35.30	1.10	3.1	35.3	32.0 - 38.6	12	51.29	3.31	6.4	52.3	41.3 - 61.3
Abbott Cell-Dyn 1700	88	35.19	1.16	3.3	35.2	31.7 - 38.7	85	53.50	3.25	6.1	54.3	43.7 - 63.3
Abbott Cell-Dyn 1800	214	35.77	0.76	2.1	35.8	33.4 - 38.1	210	55.50	2.04	3.7	55.8	49.3 - 61.7
Abbott Cell-Dyn Emerald	71	39.37	0.70	1.8	39.2	37.2 - 41.5	68	43.20	2.59	6.0	43.1	35.4 - 51.0
ABX Diagnostics Micros/45/60	114	39.74	1.05	2.6	39.9	36.5 - 42.9	118	49.75	5.47	11.0	50.2	33.3 - 66.2
Boule Medonic CA 620	15	32.07	1.26	3.9	31.9	28.2 - 35.9	15	54.03	2.54	4.7	53.5	46.4 - 61.7
Boule Medonic M series	25	35.14	1.45	4.1	34.9	30.7 - 39.5	26	58.58	2.01	3.4	58.7	52.5 - 64.7
COULTER AcT diff/diff 2	317	31.97	0.54	1.7	32.0	30.3 - 33.6	313	54.21	1.19	2.2	54.4	50.6 - 57.8

BASIC HEMATOLOGY W/ 3-PART DIFFERENTIAL–GRANULOCYTES/NEUT (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	865	40.97	2.44	6.0	40.5	33.6 - 48.3	875	41.59	2.59	6.2	42.2	33.8 - 49.4	
All Abbott Cell-Dyn Instruments	374	41.88	1.80	4.3	42.1	36.4 - 47.3	375	42.94	1.11	2.6	43.0	39.5 - 46.3	
All ABX Instruments	118	43.55	2.99	6.9	44.1	34.5 - 52.6	118	45.08	1.54	3.4	45.1	40.4 - 49.7	
All COULTER Instruments	318	38.88	0.76	1.9	38.9	36.6 - 41.2	320	38.85	0.58	1.5	38.9	37.1 - 40.6	
All Danam/Drew Scientific Instruments	12	41.23	1.68	4.1	41.5	36.1 - 46.3	12	41.23	0.97	2.4	41.6	38.3 - 44.2	
Abbott Cell-Dyn 1700	85	41.06	1.67	4.1	41.1	36.0 - 46.1	82	41.88	1.08	2.6	42.0	38.6 - 45.2	
Abbott Cell-Dyn 1800	210	42.80	1.10	2.6	43.0	39.4 - 46.2	214	43.11	0.70	1.6	43.2	41.0 - 45.3	
Abbott Cell-Dyn Emerald	68	40.04	1.54	3.9	39.9	35.4 - 44.7	68	43.63	0.98	2.2	43.5	40.7 - 46.6	
ABX Diagnostics Micros/45/60	118	43.55	2.99	6.9	44.1	34.5 - 52.6	118	45.08	1.54	3.4	45.1	40.4 - 49.7	
Boule Medonic CA 620	14	40.85	3.25	8.0	40.8	31.1 - 50.6	15	38.53	1.37	3.5	38.9	34.4 - 42.7	
Boule Medonic M series	25	42.90	1.27	3.0	43.1	39.0 - 46.8	25	42.54	1.35	3.2	42.7	38.4 - 46.6	
COULTER AcT diff/diff 2	315	38.89	0.75	1.9	38.9	36.6 - 41.2	317	38.84	0.58	1.5	38.9	37.1 - 40.6	
Specimen HD-15													
All Method	867	67.91	1.43	2.1	67.9	63.6 - 72.2							
All Abbott Cell-Dyn Instruments	375	68.15	1.42	2.1	68.5	63.8 - 72.5							
All ABX Instruments	117	68.81	1.82	2.6	69.1	63.3 - 74.3							
All COULTER Instruments	319	67.16	0.64	0.9	67.2	65.2 - 69.1							
All Danam/Drew Scientific Instruments	12	67.59	1.07	1.6	67.8	64.3 - 70.8							
Abbott Cell-Dyn 1700	84	68.56	1.00	1.5	68.7	65.5 - 71.6							
Abbott Cell-Dyn 1800	214	68.69	0.73	1.1	68.7	66.5 - 70.9							
Abbott Cell-Dyn Emerald	69	66.00	1.26	1.9	66.0	62.2 - 69.8							
ABX Diagnostics Micros/45/60	117	68.81	1.82	2.6	69.1	63.3 - 74.3							
Boule Medonic CA 620	15	67.11	1.46	2.2	67.0	62.7 - 71.5							
Boule Medonic M series	26	70.25	1.57	2.2	70.4	65.5 - 75.0							
COULTER AcT diff/diff 2	316	67.17	0.63	0.9	67.2	65.2 - 69.1							

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

<u>Instrument</u>	Specimen DIF-11						Specimen DIF-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	27	9.38	0.32	3.4	9.3	7.9 - 10.8	27	3.94	0.17	4.2	3.9	3.3 - 4.6
All COULTER Instruments	27	9.38	0.32	3.4	9.3	7.9 - 10.8	27	3.94	0.17	4.2	3.9	3.3 - 4.6
COULTER HmX	12	9.38	0.30	3.2	9.4	7.9 - 10.8	12	3.97	0.14	3.6	4.0	3.3 - 4.6
	Specimen DIF-13						Specimen DIF-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	26	22.05	0.74	3.4	22.1	18.7 - 25.4	27	9.51	0.35	3.7	9.5	8.0 - 11.0
All COULTER Instruments	26	22.05	0.74	3.4	22.1	18.7 - 25.4	27	9.51	0.35	3.7	9.5	8.0 - 11.0
COULTER HmX	12	22.11	0.84	3.8	22.2	18.7 - 25.5	12	9.47	0.37	3.9	9.6	8.0 - 10.9
	Specimen DIF-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	27	3.93	0.16	4.2	3.9	3.3 - 4.6						
All COULTER Instruments	27	3.93	0.16	4.2	3.9	3.3 - 4.6						
COULTER HmX	12	3.93	0.16	4.1	4.0	3.3 - 4.6						

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

<u>Instrument</u>	Specimen DIF-11						Specimen DIF-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	27	3.991	0.060	1.5	4.00	3.75 - 4.24	26	2.544	0.055	2.2	2.53	2.39 - 2.70
All COULTER Instruments	27	3.991	0.060	1.5	4.00	3.75 - 4.24	26	2.544	0.055	2.2	2.53	2.39 - 2.70
COULTER HmX	12	4.006	0.054	1.4	4.00	3.76 - 4.25	12	2.573	0.041	1.6	2.59	2.41 - 2.73
	Specimen DIF-13						Specimen DIF-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	27	5.302	0.114	2.2	5.30	4.98 - 5.63	27	3.992	0.078	1.9	3.99	3.75 - 4.24
All COULTER Instruments	27	5.302	0.114	2.2	5.30	4.98 - 5.63	27	3.992	0.078	1.9	3.99	3.75 - 4.24
COULTER HmX	12	5.328	0.133	2.5	5.35	5.00 - 5.65	12	3.983	0.069	1.7	4.00	3.74 - 4.23
	Specimen DIF-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	27	2.547	0.065	2.6	2.53	2.39 - 2.70						
All COULTER Instruments	27	2.547	0.065	2.6	2.53	2.39 - 2.70						
COULTER HmX	12	2.578	0.052	2.0	2.57	2.42 - 2.74						

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	27	12.24	0.20	1.7	12.2	11.3 - 13.1	27	6.43	0.11	1.7	6.4	5.9 - 6.9
All COULTER Instruments	27	12.24	0.20	1.7	12.2	11.3 - 13.1	27	6.43	0.11	1.7	6.4	5.9 - 6.9
COULTER HmX	12	12.19	0.17	1.4	12.2	11.3 - 13.1	12	6.41	0.11	1.7	6.4	5.9 - 6.9
Specimen DIF-13							Specimen DIF-14					
All Method	27	17.56	0.30	1.7	17.5	16.3 - 18.8	27	12.26	0.19	1.5	12.2	11.4 - 13.2
All COULTER Instruments	27	17.56	0.30	1.7	17.5	16.3 - 18.8	27	12.26	0.19	1.5	12.2	11.4 - 13.2
COULTER HmX	12	17.51	0.19	1.1	17.5	16.2 - 18.8	12	12.21	0.17	1.4	12.3	11.3 - 13.1
Specimen DIF-15												
All Method	27	6.45	0.11	1.6	6.4	6.0 - 7.0						
All COULTER Instruments	27	6.45	0.11	1.6	6.4	6.0 - 7.0						
COULTER HmX	12	6.43	0.09	1.3	6.4	5.9 - 6.9						

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	27	37.59	0.74	2.0	37.5	35.3 - 39.9	27	19.76	0.41	2.1	19.8	18.5 - 21.0
All COULTER Instruments	27	37.59	0.74	2.0	37.5	35.3 - 39.9	27	19.76	0.41	2.1	19.8	18.5 - 21.0
COULTER HmX	12	37.64	0.64	1.7	37.6	35.3 - 40.0	12	19.98	0.35	1.7	19.8	18.7 - 21.2
Specimen DIF-13							Specimen DIF-14					
All Method	27	54.47	1.27	2.3	54.5	51.2 - 57.8	27	37.60	0.86	2.3	37.5	35.3 - 39.9
All COULTER Instruments	27	54.47	1.27	2.3	54.5	51.2 - 57.8	27	37.60	0.86	2.3	37.5	35.3 - 39.9
COULTER HmX	12	54.36	1.47	2.7	54.5	51.0 - 57.7	12	37.44	0.81	2.2	37.5	35.1 - 39.7
Specimen DIF-15												
All Method	27	19.75	0.48	2.4	19.7	18.5 - 21.0						
All COULTER Instruments	27	19.75	0.48	2.4	19.7	18.5 - 21.0						
COULTER HmX	12	20.01	0.41	2.1	20.0	18.8 - 21.3						

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

<u>Instrument</u>	Specimen DIF-11						Specimen DIF-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	27	238.0	9.4	3.9	237	178 - 298	27	79.6	5.1	6.5	79	59 - 100
All COULTER Instruments	27	238.0	9.4	3.9	237	178 - 298	27	79.6	5.1	6.5	79	59 - 100
COULTER HmX	12	234.5	10.0	4.3	233	175 - 294	12	79.5	4.9	6.1	80	59 - 100
	Specimen DIF-13						Specimen DIF-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	26	424.3	16.8	4.0	426	318 - 531	27	234.0	10.6	4.5	235	175 - 293
All COULTER Instruments	26	424.3	16.8	4.0	426	318 - 531	27	234.0	10.6	4.5	235	175 - 293
COULTER HmX	12	417.8	15.7	3.8	417	313 - 523	12	230.3	9.5	4.1	233	172 - 288
	Specimen DIF-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	27	80.3	5.9	7.3	80	60 - 101						
All COULTER Instruments	27	80.3	5.9	7.3	80	60 - 101						
COULTER HmX	12	79.3	5.1	6.5	81	59 - 100						

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

<u>Instrument</u>	Specimen DIF-11						Specimen DIF-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	26	60.15	2.29	3.8	59.3	53.2 - 67.1	26	54.27	2.69	5.0	53.5	46.2 - 62.4
All COULTER Instruments	26	60.15	2.29	3.8	59.3	53.2 - 67.1	26	54.27	2.69	5.0	53.5	46.2 - 62.4
COULTER HmX	12	59.61	1.32	2.2	59.2	55.6 - 63.6	12	54.78	2.72	5.0	54.0	46.6 - 63.0
	Specimen DIF-13						Specimen DIF-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	25	68.94	1.88	2.7	68.3	63.2 - 74.6	25	60.13	2.44	4.1	59.8	52.7 - 67.5
All COULTER Instruments	25	68.94	1.88	2.7	68.3	63.2 - 74.6	25	60.13	2.44	4.1	59.8	52.7 - 67.5
COULTER HmX	12	68.19	0.83	1.2	68.2	65.6 - 70.7	11	59.47	1.10	1.8	59.4	56.1 - 62.8
	Specimen DIF-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	26	54.13	1.77	3.3	54.3	48.8 - 59.5						
All COULTER Instruments	26	54.13	1.77	3.3	54.3	48.8 - 59.5						
COULTER HmX	12	53.88	1.22	2.3	54.4	50.2 - 57.6						

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	26	27.09	2.37	8.7	27.5	19.9 - 34.2	26	37.17	2.70	7.3	38.2	29.0 - 45.3
All COULTER Instruments	26	27.09	2.37	8.7	27.5	19.9 - 34.2	26	37.17	2.70	7.3	38.2	29.0 - 45.3
COULTER HmX	12	27.52	1.39	5.1	28.0	23.3 - 31.7	12	36.55	3.05	8.4	38.2	27.3 - 45.8
Specimen DIF-13							Specimen DIF-14					
All Method	24	20.13	1.34	6.7	20.1	16.1 - 24.2	24	27.43	1.96	7.1	27.9	21.5 - 33.3
All COULTER Instruments	24	20.13	1.34	6.7	20.1	16.1 - 24.2	24	27.43	1.96	7.1	27.9	21.5 - 33.3
COULTER HmX	12	20.52	1.24	6.0	20.4	16.7 - 24.3	11	27.44	1.69	6.2	27.0	22.3 - 32.6
Specimen DIF-15												
All Method	26	37.41	1.71	4.6	37.1	32.2 - 42.6						
All COULTER Instruments	26	37.41	1.71	4.6	37.1	32.2 - 42.6						
COULTER HmX	12	37.42	1.20	3.2	37.2	33.8 - 41.1						

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	26	5.90	1.01	17.2	6.0	2.8 - 9.0	25	0.35	0.16	45.7	0.4	0.0 - 0.9
All COULTER Instruments	26	5.90	1.01	17.2	6.0	2.8 - 9.0	25	0.35	0.16	45.7	0.4	0.0 - 0.9
COULTER HmX	12	6.01	0.58	9.6	6.1	4.2 - 7.8	12	0.43	0.14	31.9	0.5	0.0 - 0.9
Specimen DIF-13							Specimen DIF-14					
All Method	25	6.35	1.07	16.8	6.4	3.1 - 9.6	25	5.92	1.24	20.9	5.5	2.2 - 9.7
All COULTER Instruments	25	6.35	1.07	16.8	6.4	3.1 - 9.6	25	5.92	1.24	20.9	5.5	2.2 - 9.7
COULTER HmX	12	6.34	1.02	16.0	6.9	3.2 - 9.4	11	5.92	0.77	13.1	5.8	3.5 - 8.3
Specimen DIF-15												
All Method	25	0.35	0.21	59.2	0.3	0.0 - 1.0						
All COULTER Instruments	25	0.35	0.21	59.2	0.3	0.0 - 1.0						
COULTER HmX	12	0.44	0.16	36.7	0.4	0.0 - 1.0						

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

<i><u>Instrument</u></i>	Specimen DIF-11						Specimen DIF-12					
	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>
All Method	26	6.18	0.35	5.7	6.2	5.1 - 7.3	25	7.63	0.43	5.6	7.5	6.3 - 9.0
All COULTER Instruments	26	6.18	0.35	5.7	6.2	5.1 - 7.3	25	7.63	0.43	5.6	7.5	6.3 - 9.0
COULTER HmX	12	6.25	0.42	6.7	6.4	4.9 - 7.6	12	7.84	0.43	5.4	7.8	6.5 - 9.2
	Specimen DIF-13						Specimen DIF-14					
	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>
All Method	26	4.13	0.29	7.0	4.1	3.2 - 5.0	26	6.02	0.45	7.4	6.0	4.6 - 7.4
All COULTER Instruments	26	4.13	0.29	7.0	4.1	3.2 - 5.0	26	6.02	0.45	7.4	6.0	4.6 - 7.4
COULTER HmX	12	4.13	0.36	8.6	4.1	3.0 - 5.2	12	6.22	0.32	5.2	6.2	5.2 - 7.2
	Specimen DIF-15											
	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>						
All Method	25	7.47	0.52	7.0	7.4	5.9 - 9.1						
All COULTER Instruments	25	7.47	0.52	7.0	7.4	5.9 - 9.1						
COULTER HmX	12	7.71	0.58	7.5	7.8	5.9 - 9.5						

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

<i><u>Instrument</u></i>	Specimen DIF-11						Specimen DIF-12					
	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>
All Method	25	0.39	0.41	103.3	0.2	0.0 - 1.7	26	0.48	0.73	150.5	0.2	0.0 - 2.7
All COULTER Instruments	25	0.39	0.41	103.3	0.2	0.0 - 1.7	26	0.48	0.73	150.5	0.2	0.0 - 2.7
COULTER HmX	12	0.63	0.47	73.9	0.7	0.0 - 2.1	12	0.35	0.33	94.8	0.4	0.0 - 1.4
	Specimen DIF-13						Specimen DIF-14					
	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>
All Method	25	0.61	0.56	92.0	0.3	0.0 - 2.4	25	0.54	0.68	126.1	0.2	0.0 - 2.6
All COULTER Instruments	25	0.61	0.56	92.0	0.3	0.0 - 2.4	25	0.54	0.68	126.1	0.2	0.0 - 2.6
COULTER HmX	12	0.85	0.60	70.7	1.0	0.0 - 2.7	12	0.88	0.79	89.2	0.7	0.0 - 3.3
	Specimen DIF-15											
	<i><u>Labs</u></i>	<i><u>Mean</u></i>	<i><u>SD</u></i>	<i><u>CV</u></i>	<i><u>Median</u></i>	<i><u>Range</u></i>						
All Method	26	0.58	0.74	128.2	0.3	0.0 - 2.8						
All COULTER Instruments	26	0.58	0.74	128.2	0.3	0.0 - 2.8						
COULTER HmX	12	0.53	0.37	69.9	0.5	0.0 - 1.7						

QBC HEMATOLOGY–HEMATOCRIT (percent)

Specimen QBC-11							Specimen QBC-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	29.76	1.59	5.3	29.3	27.9 - 31.6	16	30.65	1.14	3.7	30.2	28.8 - 32.5	
QBC Autoread-Cap. Std. Tube	5	30.94	1.86	6.0	30.8	29.0 - 32.8	5	31.00	0.95	3.1	30.7	29.1 - 32.9	
QBC STAR - QBC STAR Tubes	5	29.76	0.87	2.9	29.3	27.9 - 31.6	5	30.84	1.12	3.6	30.1	28.9 - 32.7	
Specimen QBC-13							Specimen QBC-14						
All Method	16	30.70	1.13	3.7	30.8	28.8 - 32.6	16	30.71	1.21	3.9	30.6	28.8 - 32.6	
QBC Autoread-Cap. Std. Tube	5	31.04	0.53	1.7	30.9	29.1 - 33.0	5	31.30	0.94	3.0	31.7	29.4 - 33.2	
QBC STAR - QBC STAR Tubes	5	31.30	1.03	3.3	31.1	29.4 - 33.2	5	31.16	0.92	2.9	31.3	29.2 - 33.1	
Specimen QBC-15													
All Method	16	33.58	1.64	4.9	34.2	31.5 - 35.6							
QBC Autoread-Cap. Std. Tube	5	33.70	2.43	7.2	34.9	31.6 - 35.8							
QBC STAR - QBC STAR Tubes	5	34.24	0.76	2.2	33.8	32.1 - 36.3							

QBC HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen QBC-11							Specimen QBC-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	10.17	0.61	6.0	10.1	9.4 - 10.9	16	10.56	0.44	4.2	10.6	9.8 - 11.3	
QBC Autoread-Cap. Std. Tube	5	10.76	0.67	6.2	10.4	10.0 - 11.6	5	10.94	0.11	1.0	10.9	10.1 - 11.8	
QBC STAR - QBC STAR Tubes	5	9.98	0.33	3.4	9.9	9.2 - 10.7	5	10.32	0.31	3.0	10.3	9.5 - 11.1	
Specimen QBC-13							Specimen QBC-14						
All Method	16	10.51	0.39	3.7	10.6	9.7 - 11.3	16	10.57	0.50	4.7	10.6	9.8 - 11.4	
QBC Autoread-Cap. Std. Tube	5	10.84	0.15	1.4	10.8	10.0 - 11.6	5	11.10	0.23	2.1	11.2	10.3 - 11.9	
QBC STAR - QBC STAR Tubes	5	10.46	0.34	3.2	10.4	9.7 - 11.2	5	10.42	0.35	3.4	10.4	9.6 - 11.2	
Specimen QBC-15													
All Method	16	11.54	0.55	4.7	11.7	10.7 - 12.4							
QBC Autoread-Cap. Std. Tube	5	11.80	0.79	6.7	12.1	10.9 - 12.7							
QBC STAR - QBC STAR Tubes	5	11.60	0.22	1.9	11.6	10.7 - 12.5							

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

Specimen QBC-11							Specimen QBC-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	9	13.29	2.14	16.1	14.1	11.2 - 15.3	9	7.19	0.70	9.7	7.8	6.1 - 8.3
QBC Autoread-Cap. Std. Tube	5	12.22	1.62	13.3	13.0	10.3 - 14.1	5	6.92	0.56	8.1	6.9	5.8 - 8.0
QBC STAR - QBC STAR Tubes	5	15.82	2.01	12.7	15.5	13.4 - 18.2	5	8.42	0.97	11.6	8.4	7.1 - 9.7
Specimen QBC-13							Specimen QBC-14					
All Method	9	7.47	0.75	10.0	7.9	6.3 - 8.6	9	7.13	0.72	10.1	7.9	6.0 - 8.3
QBC Autoread-Cap. Std. Tube	5	7.18	0.38	5.2	7.1	6.1 - 8.3	5	6.94	0.59	8.6	7.1	5.8 - 8.0
QBC STAR - QBC STAR Tubes	5	8.58	0.92	10.7	8.4	7.2 - 9.9	5	8.82	0.80	9.0	8.6	7.4 - 10.2
Specimen QBC-15												
All Method	9	12.37	1.14	9.2	13.5	10.5 - 14.3						
QBC Autoread-Cap. Std. Tube	5	12.08	1.11	9.2	11.6	10.2 - 13.9						
QBC STAR - QBC STAR Tubes	5	13.76	0.55	4.0	13.6	11.6 - 15.9						

QBC HEMATOLOGY–PLATELET COUNT (x 10⁹/L)

Specimen QBC-11							Specimen QBC-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	9	148.9	37.0	24.8	171	111 - 187	9	293.8	47.2	16.1	356	220 - 368
QBC Autoread-Cap. Std. Tube	5	133.6	20.0	15.0	134	100 - 167	5	263.0	12.8	4.9	260	197 - 329
QBC STAR - QBC STAR Tubes	5	192.0	48.8	25.4	193	144 - 240	5	362.8	92.0	25.4	413	272 - 454
Specimen QBC-13							Specimen QBC-14					
All Method	9	308.1	71.9	23.3	379	231 - 386	9	306.2	56.5	18.5	365	229 - 383
QBC Autoread-Cap. Std. Tube	5	269.8	19.5	7.2	269	202 - 338	5	273.0	26.8	9.8	270	204 - 342
QBC STAR - QBC STAR Tubes	5	378.2	86.1	22.8	409	283 - 473	5	378.4	81.2	21.5	391	283 - 473
Specimen QBC-15												
All Method	9	145.9	47.0	32.2	159	109 - 183						
QBC Autoread-Cap. Std. Tube	5	120.2	10.0	8.3	123	90 - 151						
QBC STAR - QBC STAR Tubes	5	164.6	40.6	24.7	181	123 - 206						

QBC HEMATOLOGY–GRANULOCYTES (x 10⁹/L)

Specimen QBC-11							Specimen QBC-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	6.83	2.73	39.9	5.4	0.0 - 15.1	16	4.87	1.08	22.1	4.6	1.6 - 8.1
QBC Autoread-Cap. Std. Tube	5	4.50	0.78	17.4	5.0	2.1 - 6.9	5	4.60	0.53	11.6	4.6	2.9 - 6.3
QBC STAR - QBC STAR Tubes	5	8.46	2.26	26.7	8.6	1.6 - 15.3	5	5.16	0.59	11.4	5.0	3.4 - 7.0
Specimen QBC-13							Specimen QBC-14					
All Method	16	4.82	1.14	23.6	4.8	1.4 - 8.3	16	4.95	1.22	24.7	5.0	1.2 - 8.7
QBC Autoread-Cap. Std. Tube	5	4.30	0.66	15.4	4.5	2.3 - 6.3	5	4.56	0.69	15.2	4.7	2.4 - 6.7
QBC STAR - QBC STAR Tubes	5	5.12	0.77	15.0	5.1	2.8 - 7.5	5	5.46	0.73	13.4	5.6	3.2 - 7.7
Specimen QBC-15												
All Method	16	7.07	2.70	38.2	7.0	0.0 - 15.2						
QBC Autoread-Cap. Std. Tube	5	4.36	0.53	12.1	4.6	2.7 - 6.0						
QBC STAR - QBC STAR Tubes	5	7.94	1.62	20.4	8.7	3.0 - 12.9						

QBC HEMATOLOGY–LYMPHS/MONO (x 10⁹/L)

Specimen QBC-11							Specimen QBC-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	8.23	1.84	22.4	8.4	2.7 - 13.8	16	2.98	0.71	23.9	3.1	0.8 - 5.2
QBC Autoread-Cap. Std. Tube	5	8.12	2.16	26.6	8.5	1.6 - 14.7	5	2.32	0.29	12.3	2.3	1.4 - 3.2
QBC STAR - QBC STAR Tubes	5	8.36	2.53	30.2	8.0	0.7 - 16.0	5	3.26	0.54	16.6	3.5	1.6 - 4.9
Specimen QBC-13							Specimen QBC-14					
All Method	16	3.27	0.65	19.9	3.6	1.3 - 5.3	16	2.99	0.73	24.3	3.3	0.8 - 5.2
QBC Autoread-Cap. Std. Tube	5	2.88	0.80	27.9	2.4	0.4 - 5.3	5	2.38	0.54	22.5	2.2	0.7 - 4.0
QBC STAR - QBC STAR Tubes	5	3.44	0.59	17.3	3.7	1.6 - 5.3	5	3.34	0.61	18.3	3.6	1.5 - 5.2
Specimen QBC-15												
All Method	16	6.34	1.56	24.6	6.2	1.6 - 11.1						
QBC Autoread-Cap. Std. Tube	5	7.72	1.10	14.3	7.6	4.4 - 11.1						
QBC STAR - QBC STAR Tubes	5	5.84	1.50	25.6	5.7	1.3 - 10.4						

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	40	3.41	1.09	32.0	3.6	0.1 - 6.7	41	0.92	0.33	36.3	0.9	0.0 - 2.0
All Automated Methods	19	2.84	1.03	36.3	2.8	0.0 - 6.0	19	0.79	0.23	28.9	0.7	0.1 - 1.5
All Manual Methods	21	3.93	0.88	22.4	4.0	1.2 - 6.6	22	1.02	0.38	36.7	1.0	0.0 - 2.2
Manual-New Methylen Blue Stain	13	4.18	1.01	24.1	4.4	1.1 - 7.3	14	1.05	0.46	44.0	1.1	0.0 - 2.5

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

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	50	19.93	0.58	2.9	19.9	16.9 - 23.0	50	9.32	0.27	2.9	9.3	7.9 - 10.8
All ABX Instruments	26	20.06	0.45	2.2	20.0	17.0 - 23.1	26	9.37	0.23	2.4	9.3	7.9 - 10.8
All COULTER Instruments	21	19.89	0.62	3.1	19.8	16.9 - 22.9	21	9.31	0.28	3.0	9.3	7.9 - 10.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	19.99	0.37	1.8	20.0	16.9 - 23.0	14	9.39	0.22	2.3	9.3	7.9 - 10.9
ABX Diagnostics Pentra 80 / XL 80	10	20.09	0.52	2.6	20.2	17.0 - 23.2	10	9.33	0.26	2.8	9.2	7.9 - 10.8
COULTER AcT 5diff (1.9 and below)	10	19.57	0.48	2.4	19.6	16.6 - 22.6	10	9.22	0.27	2.9	9.3	7.8 - 10.7
COULTER AcT 5diff (version 2.01)	11	20.17	0.62	3.1	19.9	17.1 - 23.2	11	9.39	0.28	3.0	9.3	7.9 - 10.8
Specimen BCX-13							Specimen BCX-14					
All Method	50	24.53	0.75	3.1	24.5	20.8 - 28.3	50	4.93	0.15	3.0	4.9	4.1 - 5.7
All ABX Instruments	26	24.77	0.63	2.5	24.6	21.0 - 28.5	26	4.95	0.12	2.4	4.9	4.2 - 5.7
All COULTER Instruments	21	24.33	0.79	3.3	24.3	20.6 - 28.0	21	4.94	0.13	2.7	5.0	4.2 - 5.7
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	24.88	0.53	2.1	24.7	21.1 - 28.7	14	4.94	0.11	2.2	4.9	4.2 - 5.7
ABX Diagnostics Pentra 80 / XL 80	10	24.61	0.80	3.3	24.5	20.9 - 28.4	10	4.96	0.14	2.9	4.9	4.2 - 5.8
COULTER AcT 5diff (1.9 and below)	10	24.13	0.66	2.7	24.2	20.5 - 27.8	10	4.91	0.14	3.0	4.9	4.1 - 5.7
COULTER AcT 5diff (version 2.01)	11	24.51	0.88	3.6	24.3	20.8 - 28.2	11	4.97	0.12	2.4	5.0	4.2 - 5.8
Specimen BCX-15												
All Method	49	7.80	0.20	2.6	7.8	6.6 - 9.0						
All ABX Instruments	26	7.82	0.21	2.6	7.8	6.6 - 9.0						
All COULTER Instruments	21	7.78	0.20	2.6	7.7	6.6 - 9.0						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	7.79	0.18	2.3	7.8	6.6 - 9.0						
ABX Diagnostics Pentra 80 / XL 80	10	7.86	0.25	3.2	7.8	6.6 - 9.1						
COULTER AcT 5diff (1.9 and below)	10	7.73	0.18	2.3	7.7	6.5 - 8.9						
COULTER AcT 5diff (version 2.01)	11	7.83	0.22	2.9	7.8	6.6 - 9.1						

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	50	4.059	0.084	2.1	4.06	3.81 - 4.31	50	5.589	0.103	1.8	5.58	5.25 - 5.93
All ABX Instruments	26	4.049	0.083	2.1	4.03	3.80 - 4.30	26	5.572	0.107	1.9	5.57	5.23 - 5.91
All COULTER Instruments	20	4.089	0.065	1.6	4.08	3.84 - 4.34	21	5.614	0.102	1.8	5.61	5.27 - 5.96
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	4.042	0.050	1.2	4.05	3.79 - 4.29	14	5.544	0.090	1.6	5.56	5.21 - 5.88
ABX Diagnostics Pentra 80 / XL 80	10	4.077	0.112	2.7	4.09	3.83 - 4.33	10	5.623	0.125	2.2	5.64	5.28 - 5.97
COULTER AcT 5diff (1.9 and below)	10	4.041	0.102	2.5	4.08	3.79 - 4.29	10	5.593	0.114	2.0	5.61	5.25 - 5.93
COULTER AcT 5diff (version 2.01)	11	4.106	0.062	1.5	4.08	3.85 - 4.36	11	5.633	0.092	1.6	5.61	5.29 - 5.98
Specimen BCX-13							Specimen BCX-14					
All Method	49	4.715	0.080	1.7	4.71	4.43 - 5.00	50	4.892	0.097	2.0	4.89	4.59 - 5.19
All ABX Instruments	26	4.707	0.083	1.8	4.70	4.42 - 4.99	26	4.868	0.092	1.9	4.86	4.57 - 5.16
All COULTER Instruments	20	4.729	0.082	1.7	4.74	4.44 - 5.02	21	4.915	0.102	2.1	4.91	4.61 - 5.21
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	4.705	0.055	1.2	4.70	4.42 - 4.99	14	4.865	0.071	1.5	4.86	4.57 - 5.16
ABX Diagnostics Pentra 80 / XL 80	10	4.717	0.118	2.5	4.73	4.43 - 5.01	10	4.884	0.122	2.5	4.94	4.59 - 5.18
COULTER AcT 5diff (1.9 and below)	10	4.693	0.093	2.0	4.68	4.41 - 4.98	10	4.895	0.121	2.5	4.92	4.60 - 5.19
COULTER AcT 5diff (version 2.01)	11	4.812	0.166	3.5	4.75	4.52 - 5.11	11	4.933	0.082	1.7	4.91	4.63 - 5.23
Specimen BCX-15												
All Method	50	2.020	0.046	2.3	2.03	1.89 - 2.15						
All ABX Instruments	26	2.015	0.041	2.1	2.03	1.89 - 2.14						
All COULTER Instruments	21	2.025	0.053	2.6	2.03	1.90 - 2.15						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	2.036	0.023	1.1	2.05	1.91 - 2.16						
ABX Diagnostics Pentra 80 / XL 80	10	1.985	0.048	2.4	2.00	1.86 - 2.11						
COULTER AcT 5diff (1.9 and below)	10	1.998	0.058	2.9	2.00	1.87 - 2.12						
COULTER AcT 5diff (version 2.01)	11	2.049	0.036	1.7	2.04	1.92 - 2.18						

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	50	12.68	0.22	1.7	12.7	11.7 - 13.6	50	17.50	0.31	1.8	17.5	16.2 - 18.8
All ABX Instruments	26	12.62	0.25	2.0	12.6	11.7 - 13.6	26	17.53	0.32	1.8	17.6	16.3 - 18.8
All COULTER Instruments	21	12.74	0.17	1.3	12.7	11.8 - 13.7	21	17.44	0.31	1.8	17.4	16.2 - 18.7
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	12.59	0.21	1.6	12.7	11.7 - 13.5	14	17.49	0.30	1.7	17.5	16.2 - 18.8
ABX Diagnostics Pentra 80 / XL 80	10	12.71	0.28	2.2	12.9	11.8 - 13.6	10	17.63	0.34	1.9	17.9	16.3 - 18.9
COULTER AcT 5diff (1.9 and below)	10	12.66	0.15	1.2	12.7	11.7 - 13.6	10	17.33	0.28	1.6	17.4	16.1 - 18.6
COULTER AcT 5diff (version 2.01)	11	12.81	0.15	1.2	12.8	11.9 - 13.8	11	17.55	0.32	1.8	17.6	16.3 - 18.8
Specimen BCX-13							Specimen BCX-14					
All Method	49	13.66	0.22	1.6	13.7	12.6 - 14.7	50	14.23	0.26	1.8	14.3	13.2 - 15.3
All ABX Instruments	26	13.65	0.25	1.8	13.7	12.6 - 14.7	26	14.18	0.25	1.8	14.2	13.1 - 15.2
All COULTER Instruments	20	13.65	0.18	1.3	13.6	12.6 - 14.7	21	14.26	0.22	1.6	14.3	13.2 - 15.3
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	13.60	0.18	1.4	13.7	12.6 - 14.6	14	14.14	0.21	1.5	14.2	13.1 - 15.2
ABX Diagnostics Pentra 80 / XL 80	10	13.75	0.30	2.2	13.8	12.7 - 14.8	10	14.27	0.26	1.8	14.4	13.2 - 15.3
COULTER AcT 5diff (1.9 and below)	10	13.57	0.17	1.3	13.5	12.6 - 14.6	10	14.18	0.20	1.4	14.2	13.1 - 15.2
COULTER AcT 5diff (version 2.01)	11	13.88	0.56	4.0	13.8	12.9 - 14.9	11	14.33	0.23	1.6	14.3	13.3 - 15.4
Specimen BCX-15												
All Method	50	5.16	0.12	2.4	5.1	4.7 - 5.6						
All ABX Instruments	26	5.08	0.08	1.7	5.1	4.7 - 5.5						
All COULTER Instruments	21	5.26	0.09	1.7	5.3	4.8 - 5.7						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	5.09	0.09	1.7	5.1	4.7 - 5.5						
ABX Diagnostics Pentra 80 / XL 80	10	5.09	0.07	1.4	5.1	4.7 - 5.5						
COULTER AcT 5diff (1.9 and below)	10	5.22	0.08	1.5	5.2	4.8 - 5.6						
COULTER AcT 5diff (version 2.01)	11	5.30	0.09	1.7	5.3	4.9 - 5.7						

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	50	36.11	0.85	2.3	36.0	33.9 - 38.3	50	49.81	1.05	2.1	50.0	46.8 - 52.9	
All ABX Instruments	26	35.95	0.92	2.6	35.8	33.7 - 38.2	26	49.69	1.12	2.3	49.7	46.7 - 52.7	
All COULTER Instruments	21	36.31	0.77	2.1	36.5	34.1 - 38.5	21	49.89	1.02	2.0	50.0	46.8 - 52.9	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	35.61	0.46	1.3	35.6	33.4 - 37.8	14	49.43	1.01	2.0	49.5	46.4 - 52.4	
ABX Diagnostics Pentra 80 / XL 80	10	36.61	1.00	2.7	36.8	34.4 - 38.9	10	50.07	1.28	2.6	50.1	47.0 - 53.1	
COULTER AcT 5diff (1.9 and below)	10	36.38	0.97	2.7	36.7	34.1 - 38.6	10	49.73	1.31	2.6	50.1	46.7 - 52.8	
COULTER AcT 5diff (version 2.01)	11	36.25	0.56	1.5	36.3	34.0 - 38.5	11	50.04	0.69	1.4	50.0	47.0 - 53.1	
Specimen BCX-13							Specimen BCX-14						
All Method	49	39.08	0.83	2.1	39.0	36.7 - 41.5	50	40.35	0.89	2.2	40.4	37.9 - 42.8	
All ABX Instruments	26	38.96	0.85	2.2	38.9	36.6 - 41.3	26	40.11	0.86	2.1	39.9	37.7 - 42.6	
All COULTER Instruments	20	39.23	0.84	2.1	39.5	36.8 - 41.6	21	40.53	0.86	2.1	40.5	38.0 - 43.0	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	38.79	0.50	1.3	38.9	36.4 - 41.2	14	39.94	0.60	1.5	39.9	37.5 - 42.4	
ABX Diagnostics Pentra 80 / XL 80	10	39.30	1.13	2.9	39.3	36.9 - 41.7	10	40.47	1.05	2.6	40.7	38.0 - 42.9	
COULTER AcT 5diff (1.9 and below)	10	39.18	1.02	2.6	39.4	36.8 - 41.6	10	40.58	1.10	2.7	40.8	38.1 - 43.1	
COULTER AcT 5diff (version 2.01)	11	39.62	1.29	3.2	39.6	37.2 - 42.0	11	40.48	0.62	1.5	40.5	38.0 - 43.0	
Specimen BCX-15													
All Method	50	15.09	0.35	2.3	15.1	14.1 - 16.0							
All ABX Instruments	26	15.03	0.37	2.5	15.0	14.1 - 16.0							
All COULTER Instruments	21	15.17	0.33	2.2	15.2	14.2 - 16.1							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	14.85	0.25	1.7	14.9	13.9 - 15.8							
ABX Diagnostics Pentra 80 / XL 80	10	15.32	0.36	2.3	15.4	14.4 - 16.3							
COULTER AcT 5diff (1.9 and below)	10	15.30	0.40	2.6	15.5	14.3 - 16.3							
COULTER AcT 5diff (version 2.01)	11	15.05	0.21	1.4	15.0	14.1 - 16.0							

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	49	503.2	15.5	3.1	501	377 - 630	49	249.5	10.8	4.3	250	187 - 312	
All ABX Instruments	25	504.2	13.6	2.7	504	378 - 631	25	253.3	8.2	3.2	255	189 - 317	
All COULTER Instruments	21	502.4	18.7	3.7	497	376 - 629	21	244.7	12.4	5.1	243	183 - 306	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	13	504.1	14.2	2.8	507	378 - 631	13	252.6	8.6	3.4	253	189 - 316	
ABX Diagnostics Pentra 80 / XL 80	10	504.7	14.9	2.9	498	378 - 631	10	254.4	7.2	2.8	257	190 - 318	
COULTER AcT 5diff (1.9 and below)	10	500.7	24.0	4.8	495	375 - 626	10	245.8	11.9	4.8	245	184 - 308	
COULTER AcT 5diff (version 2.01)	11	504.0	13.4	2.7	502	378 - 630	11	243.7	13.4	5.5	242	182 - 305	
Specimen BCX-13							Specimen BCX-14						
All Method	48	485.4	15.1	3.1	485	364 - 607	48	154.4	8.6	5.6	153	115 - 193	
All ABX Instruments	24	487.8	14.8	3.0	487	365 - 610	26	157.9	13.0	8.3	154	118 - 198	
All COULTER Instruments	21	483.0	16.2	3.3	482	362 - 604	21	153.3	9.4	6.1	153	114 - 192	
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	496.4	35.1	7.1	487	372 - 621	14	160.6	16.1	10.0	154	120 - 201	
ABX Diagnostics Pentra 80 / XL 80	10	490.3	16.9	3.4	494	367 - 613	10	153.7	7.1	4.6	156	115 - 193	
COULTER AcT 5diff (1.9 and below)	10	482.4	20.7	4.3	479	361 - 603	10	152.4	12.1	8.0	156	114 - 191	
COULTER AcT 5diff (version 2.01)	11	483.5	11.6	2.4	485	362 - 605	11	154.2	6.6	4.3	153	115 - 193	
Specimen BCX-15													
All Method	50	96.7	5.3	5.5	97	72 - 121							
All ABX Instruments	26	96.4	6.4	6.7	97	72 - 121							
All COULTER Instruments	21	97.5	3.7	3.8	99	73 - 122							
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	98.4	6.1	6.2	97	73 - 123							
ABX Diagnostics Pentra 80 / XL 80	10	93.2	6.4	6.9	97	69 - 117							
COULTER AcT 5diff (1.9 and below)	10	97.5	4.9	5.0	99	73 - 122							
COULTER AcT 5diff (version 2.01)	11	97.5	2.5	2.6	97	73 - 122							

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	49	73.40	6.66	9.1	73.2	53.4 - 93.4	50	66.98	6.42	9.6	68.2	47.7 - 86.3
All ABX Instruments	25	77.99	3.52	4.5	78.4	67.4 - 88.6	25	71.28	3.21	4.5	71.4	61.6 - 81.0
All COULTER Instruments	20	67.51	3.84	5.7	69.0	56.0 - 79.1	21	61.71	4.78	7.7	63.0	47.3 - 76.1
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	79.84	2.21	2.8	80.2	73.2 - 86.5	14	72.56	2.32	3.2	72.4	65.5 - 79.6
ABX Diagnostics Pentra 80 / XL 80	10	73.85	6.39	8.7	75.2	54.6 - 93.1	10	68.30	5.99	8.8	69.7	50.3 - 86.3
COULTER AcT 5diff (1.9 and below)	10	64.57	7.15	11.1	65.8	43.1 - 86.1	10	60.93	6.60	10.8	63.1	41.1 - 80.8
COULTER AcT 5diff (version 2.01)	11	68.49	2.62	3.8	69.0	60.6 - 76.4	11	62.43	2.31	3.7	63.0	55.4 - 69.4
Specimen BCX-13							Specimen BCX-14					
All Method	48	45.52	3.90	8.6	46.0	33.8 - 57.3	50	44.66	4.06	9.1	45.8	32.4 - 56.9
All ABX Instruments	25	47.33	2.94	6.2	48.1	38.5 - 56.2	25	47.25	2.35	5.0	47.5	40.2 - 54.3
All COULTER Instruments	20	42.83	3.55	8.3	42.9	32.1 - 53.5	21	41.81	3.54	8.5	42.6	31.1 - 52.5
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	48.92	1.79	3.7	48.5	43.5 - 54.3	14	47.75	1.96	4.1	47.8	41.8 - 53.7
ABX Diagnostics Pentra 80 / XL 80	10	43.47	5.06	11.6	44.5	28.2 - 58.7	10	45.55	4.28	9.4	47.0	32.7 - 58.4
COULTER AcT 5diff (1.9 and below)	10	40.05	5.48	13.7	40.8	23.6 - 56.5	10	42.21	4.18	9.9	43.4	29.6 - 54.8
COULTER AcT 5diff (version 2.01)	11	43.95	3.42	7.8	43.1	33.6 - 54.3	11	41.45	3.01	7.3	40.4	32.4 - 50.5
Specimen BCX-15												
All Method	49	63.63	3.73	5.9	64.6	52.4 - 74.9						
All ABX Instruments	25	66.06	1.91	2.9	65.9	60.3 - 71.8						
All COULTER Instruments	21	60.12	3.68	6.1	59.6	49.0 - 71.2						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	65.86	2.10	3.2	65.4	59.5 - 72.2						
ABX Diagnostics Pentra 80 / XL 80	10	65.18	3.44	5.3	66.0	54.8 - 75.5						
COULTER AcT 5diff (1.9 and below)	10	60.00	4.65	7.7	62.1	46.0 - 74.0						
COULTER AcT 5diff (version 2.01)	11	60.24	2.75	4.6	59.6	51.9 - 68.5						

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	47	15.06	2.98	19.8	14.6	6.1 - 24.0	46	21.62	2.26	10.5	21.8	14.8 - 28.5
All ABX Instruments	25	14.87	3.12	21.0	14.9	5.5 - 24.3	24	21.84	2.26	10.3	22.0	15.0 - 28.7
All COULTER Instruments	19	15.38	3.05	19.8	14.3	6.2 - 24.6	19	21.30	2.43	11.4	21.0	14.0 - 28.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	13.44	1.79	13.3	13.5	8.0 - 18.8	14	20.90	1.66	8.0	20.8	15.9 - 25.9
COULTER AcT 5diff (version 2.01)	11	14.46	2.57	17.8	13.8	6.7 - 22.2	11	21.09	2.18	10.3	20.7	14.5 - 27.7
Specimen BCX-13							Specimen BCX-14					
All Method	47	44.69	3.22	7.2	44.4	35.0 - 54.4	47	42.20	2.92	6.9	42.7	33.4 - 51.0
All ABX Instruments	25	45.02	3.24	7.2	44.9	35.3 - 54.8	25	43.62	2.63	6.0	43.6	35.7 - 51.6
All COULTER Instruments	19	44.23	3.40	7.7	44.1	34.0 - 54.5	19	40.13	2.06	5.1	39.9	33.9 - 46.4
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	43.76	2.06	4.7	43.5	37.5 - 50.0	14	42.91	1.79	4.2	43.5	37.5 - 48.3
COULTER AcT 5diff (version 2.01)	11	43.28	3.26	7.5	43.2	33.4 - 53.1	11	40.29	1.92	4.8	40.0	34.5 - 46.1
Specimen BCX-15												
All Method	47	24.24	2.14	8.8	24.0	17.8 - 30.7						
All ABX Instruments	25	24.69	2.23	9.0	24.3	18.0 - 31.4						
All COULTER Instruments	19	23.53	1.96	8.3	23.7	17.6 - 29.5						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	24.64	2.22	9.0	24.3	17.9 - 31.3						
COULTER AcT 5diff (version 2.01)	11	23.45	2.19	9.3	23.7	16.8 - 30.1						

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	47	1.01	0.68	67.8	0.8	0.0 - 3.1	47	1.03	0.73	71.0	0.8	0.0 - 3.3
All ABX Instruments	26	1.28	0.75	58.3	1.0	0.0 - 3.6	26	1.27	0.87	68.7	1.0	0.0 - 3.9
All COULTER Instruments	18	0.67	0.40	59.2	0.6	0.0 - 1.9	18	0.75	0.32	43.0	0.8	0.0 - 1.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	1.24	0.80	64.2	1.0	0.0 - 3.7	14	1.34	0.95	70.9	1.0	0.0 - 4.2
ABX Diagnostics Pentra 80 / XL 80	10	1.42	0.76	53.8	1.2	0.0 - 3.8	10	1.23	0.87	71.1	1.2	0.0 - 3.9
Specimen BCX-13							Specimen BCX-14					
All Method	46	1.27	0.48	38.2	1.2	0.0 - 2.8	47	0.73	0.39	53.4	0.7	0.0 - 2.0
All ABX Instruments	25	1.35	0.46	34.2	1.5	0.0 - 2.8	26	0.80	0.40	49.8	0.8	0.0 - 2.1
All COULTER Instruments	18	1.18	0.55	46.4	1.1	0.0 - 2.9	18	0.62	0.38	61.7	0.5	0.0 - 1.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	1.41	0.50	35.7	1.5	0.0 - 3.0	14	0.88	0.42	47.5	1.1	0.0 - 2.2
ABX Diagnostics Pentra 80 / XL 80	9	-	-	-	1.5	0.0 - 2.8	10	0.71	0.42	58.8	0.7	0.0 - 2.0
Specimen BCX-15												
All Method	46	0.48	0.28	58.0	0.4	0.0 - 1.4						
All ABX Instruments	26	0.57	0.38	66.9	0.4	0.0 - 1.8						
All COULTER Instruments	18	0.46	0.22	47.7	0.5	0.0 - 1.2						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	0.66	0.41	62.8	0.6	0.0 - 1.9						
ABX Diagnostics Pentra 80 / XL 80	10	0.42	0.32	75.1	0.4	0.0 - 1.4						

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	49	4.81	0.60	12.5	4.7	2.9 - 6.7	50	4.71	0.85	18.0	4.7	2.1 - 7.3
All ABX Instruments	26	4.87	0.66	13.6	4.8	2.8 - 6.9	26	4.83	0.92	19.0	4.8	2.0 - 7.6
All COULTER Instruments	20	4.74	0.58	12.2	4.7	3.0 - 6.5	21	4.56	0.80	17.6	4.5	2.1 - 7.0
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	4.93	0.56	11.4	4.7	3.2 - 6.7	14	4.69	0.96	20.6	4.6	1.7 - 7.6
ABX Diagnostics Pentra 80 / XL 80	10	4.86	0.84	17.4	5.1	2.3 - 7.4	10	5.15	0.88	17.0	5.5	2.5 - 7.8
COULTER AcT 5diff (1.9 and below)	10	4.63	0.49	10.5	4.7	3.1 - 6.1	10	4.38	0.87	19.9	4.5	1.7 - 7.0
COULTER AcT 5diff (version 2.01)	10	4.84	0.66	13.7	4.8	2.8 - 6.9	11	4.73	0.74	15.6	4.7	2.5 - 7.0
Specimen BCX-13							Specimen BCX-14					
All Method	50	5.28	0.72	13.7	5.2	3.1 - 7.5	49	7.13	1.35	18.9	7.0	3.0 - 11.2
All ABX Instruments	26	5.39	0.79	14.6	5.4	3.0 - 7.8	26	7.45	1.15	15.4	7.4	4.0 - 10.9
All COULTER Instruments	20	5.05	0.48	9.6	5.1	3.5 - 6.6	20	6.39	1.13	17.8	6.4	2.9 - 9.8
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	5.61	0.75	13.4	5.4	3.3 - 7.9	14	7.95	1.26	15.9	7.9	4.1 - 11.8
ABX Diagnostics Pentra 80 / XL 80	10	5.22	0.82	15.7	5.4	2.7 - 7.7	10	6.95	0.64	9.2	7.1	5.0 - 8.9
COULTER AcT 5diff (1.9 and below)	10	5.38	0.79	14.7	5.3	3.0 - 7.8	10	6.17	1.01	16.4	6.4	3.1 - 9.3
COULTER AcT 5diff (version 2.01)	11	4.95	0.47	9.5	5.0	3.5 - 6.4	10	6.60	1.26	19.1	6.5	2.8 - 10.4
Specimen BCX-15												
All Method	47	7.01	1.90	27.0	7.1	1.3 - 12.7						
All ABX Instruments	24	7.63	1.73	22.7	7.8	2.4 - 12.9						
All COULTER Instruments	20	6.09	1.81	29.8	5.7	0.6 - 11.6						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	8.41	1.43	17.0	8.6	4.1 - 12.8						
ABX Diagnostics Pentra 80 / XL 80	8	-	-	-	5.8	2.4 - 12.9						
COULTER AcT 5diff (1.9 and below)	9	-	-	-	5.0	0.6 - 11.6						
COULTER AcT 5diff (version 2.01)	11	7.05	1.78	25.2	7.2	1.7 - 12.4						

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	48	5.05	5.18	102.7	0.6	0.0 - 20.7	49	4.54	4.84	106.6	0.6	0.0 - 19.1
All ABX Instruments	24	0.54	0.05	9.2	0.5	0.3 - 0.7	25	0.52	0.11	20.8	0.6	0.1 - 0.9
All COULTER Instruments	21	10.85	0.64	5.9	11.1	8.9 - 12.8	21	9.88	1.90	19.3	10.1	4.1 - 15.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	13	0.55	0.05	9.4	0.6	0.3 - 0.8	14	0.51	0.10	20.0	0.5	0.2 - 0.9
ABX Diagnostics Pentra 80 / XL 80	10	0.52	0.04	8.1	0.5	0.3 - 0.7	10	0.53	0.13	23.6	0.6	0.1 - 1.0
COULTER AcT 5diff (1.9 and below)	10	10.47	0.71	6.8	10.8	8.3 - 12.7	10	9.21	2.14	23.3	9.4	2.7 - 15.7
Specimen BCX-13							Specimen BCX-14					
All Method	48	2.84	2.92	102.8	0.3	0.0 - 11.7	49	4.71	4.91	104.3	0.5	0.0 - 19.5
All ABX Instruments	24	0.30	0.00	0.0	0.3	0.3 - 0.3	23	0.50	0.00	0.0	0.5	0.5 - 0.5
All COULTER Instruments	21	6.11	0.35	5.8	6.1	5.0 - 7.2	21	10.32	0.42	4.1	10.4	9.0 - 11.6
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	0.30	0.00	0.0	0.3	0.3 - 0.3	13	0.50	0.00	0.0	0.5	0.5 - 0.5
ABX Diagnostics Pentra 80 / XL 80	9	-	-	-	0.3	0.3 - 0.3	10	0.51	0.03	6.2	0.5	0.4 - 0.7
COULTER AcT 5diff (1.9 and below)	10	5.88	0.34	5.8	5.8	4.8 - 6.9	10	10.14	0.49	4.9	10.0	8.6 - 11.7
Specimen BCX-15												
All Method	49	3.86	4.03	104.4	0.5	0.0 - 16.0						
All ABX Instruments	25	0.42	0.04	9.0	0.4	0.3 - 0.6						
All COULTER Instruments	21	8.46	0.50	5.9	8.5	6.9 - 10.0						
ABX Diagnostics Pentra 60C+ (version 2.21 and up)	14	0.43	0.05	10.9	0.4	0.2 - 0.6						
ABX Diagnostics Pentra 80 / XL 80	10	0.40	0.00	0.0	0.4	0.4 - 0.4						
COULTER AcT 5diff (1.9 and below)	10	8.29	0.50	6.0	8.3	6.7 - 9.8						

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	30	7.43	0.58	7.8	7.7	6.3 - 8.6	31	4.06	0.33	8.1	4.0	3.4 - 4.7
All Sysmex Instruments	29	7.46	0.57	7.6	7.7	6.3 - 8.6	30	4.08	0.32	7.8	4.0	3.4 - 4.7
Sysmex XS-1000i	15	7.04	0.93	13.3	6.9	5.9 - 8.1	15	4.13	0.42	10.1	4.3	3.5 - 4.8
Specimen MX-13							Specimen MX-14					
All Method	31	19.96	0.85	4.2	19.8	16.9 - 23.0	31	7.43	0.58	7.7	7.6	6.3 - 8.6
All Sysmex Instruments	30	19.98	0.86	4.3	20.0	16.9 - 23.0	30	7.47	0.55	7.4	7.6	6.3 - 8.6
Sysmex XS-1000i	15	20.37	0.81	4.0	20.4	17.3 - 23.5	15	7.31	0.71	9.8	7.0	6.2 - 8.5
Specimen MX-15												
All Method	31	4.03	0.33	8.1	4.0	3.4 - 4.7						
All Sysmex Instruments	30	4.05	0.32	8.0	4.0	3.4 - 4.7						
Sysmex XS-1000i	15	4.11	0.42	10.2	4.4	3.4 - 4.8						

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	31	4.768	0.062	1.3	4.77	4.48 - 5.06	31	2.454	0.044	1.8	2.46	2.30 - 2.61
All Sysmex Instruments	30	4.767	0.063	1.3	4.77	4.48 - 5.06	30	2.454	0.045	1.8	2.47	2.30 - 2.61
Sysmex XS-1000i	15	4.748	0.063	1.3	4.72	4.46 - 5.04	15	2.421	0.034	1.4	2.42	2.27 - 2.57
Specimen MX-13							Specimen MX-14					
All Method	31	5.605	0.075	1.3	5.60	5.26 - 5.95	31	4.769	0.059	1.2	4.75	4.48 - 5.06
All Sysmex Instruments	30	5.603	0.075	1.3	5.60	5.26 - 5.94	30	4.768	0.059	1.2	4.75	4.48 - 5.06
Sysmex XS-1000i	15	5.634	0.060	1.1	5.62	5.29 - 5.98	15	4.747	0.058	1.2	4.74	4.46 - 5.04
Specimen MX-15												
All Method	31	2.452	0.048	2.0	2.45	2.30 - 2.60						
All Sysmex Instruments	30	2.452	0.049	2.0	2.45	2.30 - 2.60						
Sysmex XS-1000i	15	2.415	0.035	1.4	2.42	2.27 - 2.57						

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

<u>Instrument</u>	Specimen MX-11						Specimen MX-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	30	13.55	0.12	0.9	13.6	12.6 - 14.6	31	5.98	0.08	1.4	6.0	5.5 - 6.5
All Sysmex Instruments	29	13.55	0.12	0.9	13.6	12.6 - 14.6	30	5.98	0.08	1.4	6.0	5.5 - 6.5
Sysmex XS-1000i	15	13.50	0.19	1.4	13.5	12.5 - 14.5	15	5.95	0.08	1.4	5.9	5.5 - 6.4
	Specimen MX-13						Specimen MX-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	31	17.53	0.24	1.4	17.5	16.3 - 18.8	31	13.54	0.14	1.0	13.5	12.5 - 14.5
All Sysmex Instruments	30	17.52	0.24	1.3	17.5	16.2 - 18.8	30	13.54	0.14	1.1	13.6	12.5 - 14.5
Sysmex XS-1000i	15	17.62	0.21	1.2	17.7	16.3 - 18.9	15	13.55	0.14	1.0	13.6	12.5 - 14.5
	Specimen MX-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	5.98	0.08	1.4	6.0	5.5 - 6.5						
All Sysmex Instruments	30	5.98	0.08	1.4	6.0	5.5 - 6.5						
Sysmex XS-1000i	15	5.96	0.09	1.5	5.9	5.5 - 6.4						

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

<u>Instrument</u>	Specimen MX-11						Specimen MX-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	31	39.96	0.70	1.8	39.8	37.5 - 42.4	31	18.41	0.38	2.1	18.3	17.3 - 19.6
All Sysmex Instruments	30	39.96	0.71	1.8	39.8	37.5 - 42.4	30	18.42	0.39	2.1	18.3	17.3 - 19.6
Sysmex XS-1000i	15	39.71	0.67	1.7	39.7	37.3 - 42.1	15	18.17	0.28	1.5	18.1	17.0 - 19.3
	Specimen MX-13						Specimen MX-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	31	51.43	0.94	1.8	51.4	48.3 - 54.6	31	39.93	0.70	1.7	39.9	37.5 - 42.4
All Sysmex Instruments	30	51.41	0.95	1.8	51.4	48.3 - 54.5	30	39.92	0.71	1.8	39.9	37.5 - 42.4
Sysmex XS-1000i	15	51.35	0.97	1.9	51.4	48.2 - 54.5	15	39.65	0.65	1.6	39.5	37.2 - 42.1
	Specimen MX-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	31	18.39	0.39	2.1	18.4	17.2 - 19.5						
All Sysmex Instruments	30	18.40	0.40	2.2	18.5	17.2 - 19.6						
Sysmex XS-1000i	15	18.12	0.31	1.7	18.1	17.0 - 19.3						

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	31	208.3	10.6	5.1	208	156 - 261	31	58.8	4.4	7.5	59	44 - 74
All Sysmex Instruments	30	208.3	10.8	5.2	208	156 - 261	30	58.7	4.5	7.6	59	44 - 74
Sysmex XS-1000i	15	208.2	9.2	4.4	208	156 - 261	15	58.1	3.7	6.4	58	43 - 73
Specimen MX-13							Specimen MX-14					
All Method	31	405.3	16.3	4.0	405	303 - 507	30	206.2	10.3	5.0	208	154 - 258
All Sysmex Instruments	30	404.6	16.2	4.0	405	303 - 506	29	205.8	10.2	5.0	207	154 - 258
Sysmex XS-1000i	15	409.9	11.1	2.7	410	307 - 513	15	206.5	7.7	3.7	206	154 - 259
Specimen MX-15												
All Method	31	59.3	5.2	8.7	59	44 - 75						
All Sysmex Instruments	30	59.1	5.1	8.7	59	44 - 74						
Sysmex XS-1000i	15	58.4	3.1	5.2	58	43 - 73						

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	31	56.35	4.57	8.1	58.6	42.6 - 70.1	31	65.05	2.92	4.5	65.7	56.2 - 73.9
All Sysmex Instruments	30	56.66	4.30	7.6	58.9	43.7 - 69.6	30	65.24	2.77	4.2	65.8	56.9 - 73.6
Sysmex XS-1000i	15	53.85	4.56	8.5	53.3	40.1 - 67.6	15	63.63	2.84	4.5	64.6	55.0 - 72.2
Specimen MX-13							Specimen MX-14					
All Method	31	58.82	4.46	7.6	57.5	45.4 - 72.3	31	55.87	4.78	8.6	58.2	41.5 - 70.3
All Sysmex Instruments	30	58.91	4.51	7.7	57.7	45.3 - 72.5	30	56.12	4.65	8.3	59.1	42.1 - 70.1
Sysmex XS-1000i	15	60.68	5.77	9.5	57.8	43.3 - 78.0	15	53.09	4.86	9.2	50.4	38.5 - 67.7
Specimen MX-15												
All Method	31	64.47	3.14	4.9	65.3	55.0 - 74.0						
All Sysmex Instruments	30	64.71	2.90	4.5	65.8	56.0 - 73.4						
Sysmex XS-1000i	15	63.35	3.25	5.1	63.2	53.6 - 73.1						

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	31	23.10	3.86	16.7	22.1	11.5 - 34.7	31	13.21	3.18	24.1	14.1	3.6 - 22.8	
All Sysmex Instruments	30	22.93	3.81	16.6	22.1	11.5 - 34.4	30	13.18	3.23	24.5	14.5	3.4 - 22.9	
Sysmex XS-1000i	15	23.33	5.21	22.3	22.3	7.6 - 39.0	15	11.02	2.86	25.9	10.2	2.4 - 19.6	
Specimen MX-13							Specimen MX-14						
All Method	31	21.68	4.33	20.0	20.1	8.6 - 34.7	31	23.45	3.98	17.0	22.6	11.4 - 35.5	
All Sysmex Instruments	30	21.81	4.35	19.9	20.6	8.7 - 34.9	30	23.27	3.92	16.8	22.6	11.5 - 35.1	
Sysmex XS-1000i	15	17.96	1.61	9.0	18.1	13.1 - 22.8	15	23.76	5.24	22.1	26.9	8.0 - 39.5	
Specimen MX-15													
All Method	31	13.96	3.23	23.1	14.4	4.2 - 23.7							
All Sysmex Instruments	30	13.94	3.28	23.5	14.4	4.1 - 23.8							
Sysmex XS-1000i	15	11.69	2.65	22.7	11.1	3.7 - 19.7							

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	31	3.84	1.74	45.3	3.9	0.0 - 9.1	31	2.21	1.35	61.3	1.9	0.0 - 6.3
All Sysmex Instruments	30	3.88	1.75	45.2	4.0	0.0 - 9.2	30	2.25	1.36	60.6	2.0	0.0 - 6.4
Sysmex XS-1000i	15	3.75	2.31	61.7	2.1	0.0 - 10.7	15	2.33	1.87	80.5	1.7	0.0 - 8.0
Specimen MX-13							Specimen MX-14					
All Method	31	3.91	2.12	54.3	4.0	0.0 - 10.3	31	3.80	1.51	39.8	3.7	0.0 - 8.4
All Sysmex Instruments	30	3.96	2.14	54.0	4.2	0.0 - 10.4	30	3.85	1.52	39.4	3.8	0.0 - 8.4
Sysmex XS-1000i	15	3.61	2.86	79.3	1.8	0.0 - 12.3	15	3.73	2.02	54.1	2.4	0.0 - 9.8
Specimen MX-15												
All Method	31	2.17	1.24	57.3	2.2	0.0 - 6.0						
All Sysmex Instruments	30	2.18	1.27	58.0	2.2	0.0 - 6.0						
Sysmex XS-1000i	15	2.12	1.79	84.6	1.1	0.0 - 7.5						

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	31	14.19	1.60	11.3	14.0	9.3 - 19.0	31	16.34	2.23	13.7	15.8	9.6 - 23.1
All Sysmex Instruments	30	14.23	1.62	11.4	14.0	9.3 - 19.1	30	16.40	2.25	13.7	15.9	9.6 - 23.2
Sysmex XS-1000i	15	14.46	2.28	15.7	13.4	7.6 - 21.3	15	17.15	2.98	17.4	15.9	8.2 - 26.1
Specimen MX-13							Specimen MX-14					
All Method	31	12.62	1.87	14.8	13.2	6.9 - 18.3	31	14.19	1.84	13.0	14.2	8.6 - 19.8
All Sysmex Instruments	30	12.56	1.87	14.9	13.2	6.9 - 18.2	30	14.23	1.86	13.1	14.2	8.6 - 19.9
Sysmex XS-1000i	15	12.35	2.55	20.6	13.4	4.7 - 20.1	15	14.36	2.60	18.1	13.1	6.5 - 22.2
Specimen MX-15												
All Method	31	16.26	1.94	11.9	15.8	10.4 - 22.1						
All Sysmex Instruments	30	16.28	1.97	12.1	15.9	10.3 - 22.2						
Sysmex XS-1000i	15	17.05	2.53	14.8	16.5	9.4 - 24.7						

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	15	76.17	1.48	1.9	74.2	71.7 - 80.6	15	96.52	4.15	4.3	85.3	84.0 - 109.0
All Sysmex Instruments	15	76.17	1.48	1.9	76.0	71.7 - 80.6	15	96.52	4.15	4.3	99.0	84.0 - 109.0
Sysmex XS-1000i	15	4.60	3.81	82.8	6.8	0.0 - 16.1	15	5.87	5.02	85.5	8.4	0.0 - 21.0
Specimen MX-13							Specimen MX-14					
All Method	15	81.79	4.10	5.0	77.5	69.4 - 94.1	15	75.92	1.06	1.4	74.4	72.7 - 79.2
All Sysmex Instruments	15	81.79	4.10	5.0	79.8	69.4 - 94.1	15	75.92	1.06	1.4	75.7	72.7 - 79.2
Sysmex XS-1000i	15	5.39	4.58	84.9	8.1	0.0 - 19.2	15	5.05	4.16	82.3	7.9	0.0 - 17.6
Specimen MX-15												
All Method	15	96.46	3.89	4.0	86.0	84.7 - 108.2						
All Sysmex Instruments	15	96.46	3.89	4.0	99.0	84.7 - 108.2						
Sysmex XS-1000i	15	5.79	4.92	85.0	8.5	0.0 - 20.6						

BLOOD CELL IDENTIFICATION, 2011-M3
Specimens BC-13 through BC-18

CASE HISTORY

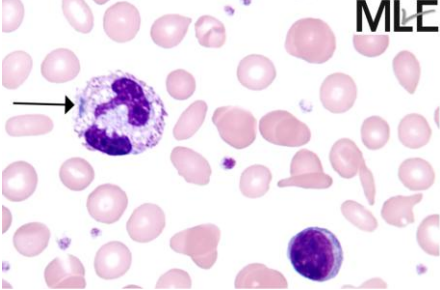
A 28-year-old female in the second trimester of pregnancy presented to her OB/GYN for a prenatal visit. She complained of extreme fatigue, and lightheadedness and shortness of breath upon exertion, which she never experienced during her first pregnancy. Upon physical examination, the patient had pale skin, gums, and nail beds. She was also found to have tachycardia. Blood tests were performed, and significant results appear below:

Test	Results	Normal Range
WBC	$5.9 \times 10^9/\text{L}$	$4 - 11 \times 10^9/\text{L}$
RBC	$3.73 \times 10^{12}/\text{L}$	$4.20 - 5.40 \times 10^{12}/\text{L}$
Hgb	8.7 g/dL	10.2 - 15.2 g/dL
Hct	28.0 %	35 - 49 %
Plt	$383 \times 10^9/\text{L}$	$150 - 450 \times 10^9/\text{L}$
MCV	75 fL	80 - 94 fL
MCH	24 pg	26 - 32 pg
MCHC	31 %	32 - 36 %
RDW	19 %	11 - 15 %
Reticulocyte Count	3 %	0.5 - 1.5 %
Ferritin	6 ng/mL	10 - 106 ng/mL
Iron	35 mcg/dL	80 - 150 mcg/dL
TIBC	709 $\mu\text{g}/\text{dL}$	250 - 410 $\mu\text{g}/\text{dL}$

This patient was diagnosed with iron deficiency anemia. Iron is an essential nutrient that plays a role in oxygen transport and basic metabolic reactions. Most of the iron in the body is bound in red blood cells in the form of hemoglobin. A reserve supply of iron is primarily stored in the liver in the form of ferritin. Pregnant women need twice as much dietary iron as usual for increased blood volume and fetal growth. About one-half of all pregnant women develop iron deficiency anemia (IDA). The most common symptom is excessive tiredness. Symptoms of severe anemia include dizziness, fainting, pale skin, brittle fingernails, shortness of breath, and fast or irregular heartbeat. Pagophagia, the urge to eat ice, is a highly specific symptom of IDA that usually disappears soon after iron therapy has begun. IDA is a microcytic, hypochromic anemia that develops slowly over time. It is a risk factor for preterm delivery, but is easily prevented or treated with oral iron supplements.

BLOOD CELL IDENTIFICATION

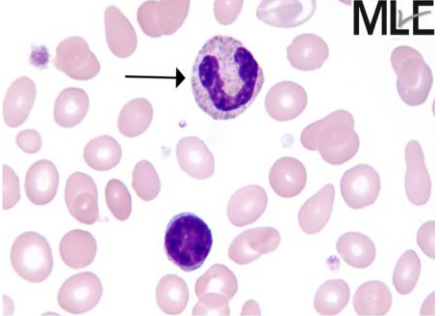
Specimen BC-13



Identification	Labs	Percent	Performance
Döhle body	280	90.03%	Acceptable
Immature/abnormal cell - refer	1	0.32%	Acceptable
Neutrophil-Segmented or band	13	4.18%	
Neutrophil-seg/band w/toxic gran	8	2.57%	
Auer rod	5	1.61%	

The arrow in this photograph points to a **Döhle body** within a segmented neutrophil. Döhle bodies appear as blue inclusions in the cytoplasm of some granulocytes. They are associated with pregnancy, infection, burns, and cytotoxic agents. They often appear with signs of toxicity such as toxic granulation, shift to the left, and elevated WBC. To view another photo of Döhle bodies, see 2007 M1 Specimen BC-3.

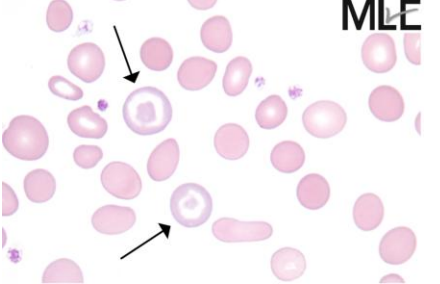
Specimen BC-14



Identification	Labs	Percent	Performance
Neutrophil-Segmented or band	300	96.15%	Acceptable
Neutrophil-seg/band w/toxic gran	11	3.53%	

The arrow in this photograph points to a **band neutrophil**. The nucleus is indented greater than 50% of its width, resulting in a U-shaped nucleus. Bands can also be C- or S-shaped. The sides of the nucleus are parallel, and have a visible band of chromatin in between. The band neutrophil is a less mature stage of development than the segmented neutrophil. This cell contains some small purple granules in the cytoplasm, but not enough to be considered toxic. To view another photo of a band, see 2010 M1 Specimen BC-5. To view a photo of toxic granulation, see 2011 M1 Specimen BC-2.

Specimen BC-15

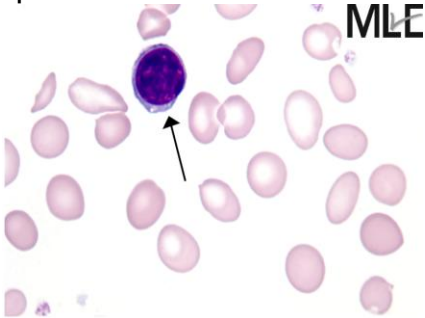


Identification	Labs	Percent	Performance
Target cell	311	99.68%	Acceptable

The arrows in this photograph point to **target cells**, also known as codocytes. These cells have a bull's-eye appearance, with a dark center and periphery, and a clear ring in between. They are characteristically seen in iron deficiency and liver disease. To view another photo of target cells, see 2008 M2 Specimen BC-10.

BLOOD CELL IDENTIFICATION

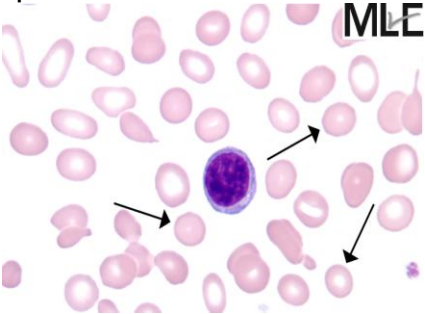
Specimen BC-16



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Lymphocyte	302	96.79%	Acceptable
Nucleated red cell	6	1.92%	

The arrow in this photograph points to a normal **lymphocyte**. Its nucleus is round, eccentric (off-center), and about the same size as a red blood cell. The nuclear chromatin is dense, coarse, and clumped. The cytoplasm is scant. To view another normal lymphocyte, see 2010 M2 Specimen BC-9.

Specimen BC-17

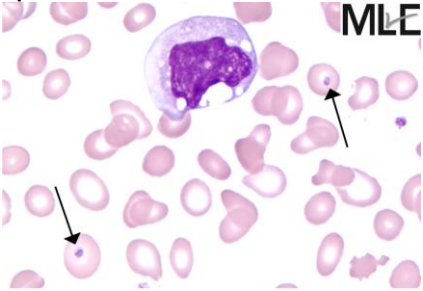


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Microcyte	264	84.62%	Acceptable
Erythrocyte, normal	25	8.01%	
Spherocyte	19	6.09%	

The arrows in this photograph point to **microcytes**. They have the same color, morphology, and central pallor as the normal RBCs in the field, but are simply smaller in size. The nucleus of a mature lymphocyte, such as the one in this photo, is a good reference to use for estimating the size of red blood cells. A normal RBC will be approximately the same size as the lymph's nucleus. To view another photo of microcytes, see 2010 BC-10.

BLOOD CELL IDENTIFICATION

Specimen BC-18



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Erythrocyte w/overlay platelet	197	63.14%	Not graded
Platelet, normal	87	27.88%	
Howell-Jolly body	17	5.45%	

The arrows in this educational challenge point to **red blood cells with overlying platelets**. A platelet lying on top of a RBC is a blood smear artifact that can be confused with a malaria parasite. If this were an actual slide on your microscope, you could focus up and down and see that the platelet is in a different plane of focus from the RBC underneath. If the object were within the cell, the inclusion and the cell would both be in focus at the same time. These objects can be identified as platelets by comparing their morphology to the normal platelets in this field and in the other photos. To view another photo of RBC with overlying platelet, see 2001 M3 Specimen BC-15.

REFERENCES:

Brittenham, G.M. "Red Blood Cell Function and Disorders of Iron Metabolism." *ACP Medicine*. Ed. D. C. Dale. New York: WebMD, Inc., 2004. 1068-1069.

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

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

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

BLOOD BANK

ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-11	Group B	10	100%	Acceptable
BB-12	Group O	10	100%	Acceptable
BB-13	Group A	10	100%	Acceptable
BB-14	Group B	10	100%	Acceptable
BB-15	Group AB	10	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	14	100%	Acceptable
BB-12	Rh Negative	14	100%	Acceptable
BB-13	Rh Negative	14	100%	Acceptable
BB-14	Rh Negative	14	100%	Acceptable
BB-15	Rh Positive	14	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	9	100%	Acceptable
AB-12	No unexpected antibody detected	9	90.00%	Not graded
	Unexpected antibody detected	1	10.00%	
AB-13	No unexpected antibody detected	9	100%	Acceptable
AB-14	Unexpected antibody detected	9	90.00%	Not graded
	No unexpected antibody detected	1	10.00%	
AB-15	Unexpected antibody detected	9	100%	Acceptable

Specimens AB-12 and AB-14 are ungraded challenges due to less than 95% referee consensus.

BLOOD BANK

ANTIBODY IDENTIFICATION

No labs reported Antibody Identification. The vendor assay values for specimens AB-11 through AB-15 are: Anti-K, No antibody detected, No antibody detected, Anti-c, and Anti-S, respectively.

COMPATIBILITY TESTING

<u><i>Specimen</i></u>	<u><i>Results</i></u>	<u><i>Labs</i></u>	<u><i>Percent</i></u>	<u><i>Performance</i></u>
AB-11	Compatible	7	100%	Acceptable
AB-12	Compatible	6	85.71%	Not graded
	Not Compatible	1	14.29%	
AB-13	Compatible	7	100%	Acceptable
AB-14	Not Compatible	6	85.71%	Not graded
	Compatible	1	14.29%	
AB-15	Not Compatible	7	100%	Acceptable

Specimens AB-12 and AB-14 are ungraded challenges due to less than 95% participant consensus.

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	80	11.36	0.63	5.6	11.2	9.6 - 13.1	79	14.21	0.86	6.1	14.0	12.0 - 16.4
Dade Innovin												
Sysmex CA-500	26	11.13	0.20	1.8	11.1	9.4 - 12.8	25	13.96	0.24	1.7	13.9	11.8 - 16.1
All Coagulation Instruments	27	11.12	0.20	1.8	11.1	9.4 - 12.8	27	13.94	0.25	1.8	13.9	11.8 - 16.1
IL TEST PT Fibrinogen												
IL ACL, all models	23	11.76	0.42	3.6	11.8	9.9 - 13.6	23	14.80	0.56	3.8	14.8	12.5 - 17.1
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	10.82	0.42	3.9	10.7	9.1 - 12.5	5	13.58	0.70	5.2	13.3	11.5 - 15.7
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	10	11.11	0.34	3.0	11.0	9.4 - 12.8	10	13.45	0.31	2.3	13.4	11.4 - 15.5
All Coagulation Instruments	13	11.20	0.44	4.0	11.0	9.5 - 12.9	13	13.55	0.40	2.9	13.4	11.5 - 15.6
Specimen CG-13							Specimen CG-14					
All Method	82	25.10	4.06	16.2	24.0	21.3 - 28.9	83	34.86	7.49	21.5	32.0	29.6 - 40.1
Dade Innovin												
Sysmex CA-500	26	27.93	1.07	3.8	28.0	23.7 - 32.2	26	39.26	1.53	3.9	39.4	33.3 - 45.2
All Coagulation Instruments	28	27.98	1.06	3.8	28.0	23.7 - 32.2	28	39.51	1.79	4.5	39.5	33.5 - 45.5
IL TEST PT Fibrinogen												
IL ACL, all models	23	22.36	1.01	4.5	22.3	19.0 - 25.8	23	29.69	1.57	5.3	29.3	25.2 - 34.2
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	21.52	0.54	2.5	21.4	18.2 - 24.8	5	29.02	0.88	3.0	29.0	24.6 - 33.4
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	10	21.35	0.80	3.7	21.3	18.1 - 24.6	10	28.10	1.23	4.4	28.2	23.8 - 32.4
All Coagulation Instruments	13	21.38	0.72	3.4	21.3	18.1 - 24.6	13	27.83	1.31	4.7	28.1	23.6 - 32.1
Specimen CG-15												
All Method	80	11.46	0.70	6.1	11.4	9.7 - 13.2						
Dade Innovin												
Sysmex CA-500	25	11.27	0.30	2.7	11.2	9.5 - 13.0						
All Coagulation Instruments	27	11.20	0.40	3.6	11.2	9.5 - 12.9						
IL TEST PT Fibrinogen												
IL ACL, all models	23	11.74	0.37	3.2	11.8	9.9 - 13.6						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	10.74	0.54	5.0	10.7	9.1 - 12.4						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	10	11.00	0.16	1.5	11.0	9.3 - 12.7						
All Coagulation Instruments	13	11.03	0.26	2.4	11.0	9.3 - 12.7						

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	85	1.01	0.08	7.5	1.0	0.7 - 1.3	84	1.39	0.10	7.5	1.4	1.0 - 1.8
Dade Innovin												
Sysmex CA-500	27	1.09	0.05	4.2	1.1	0.9 - 1.3	26	1.37	0.05	3.6	1.4	1.2 - 1.6
All Coagulation Instruments	29	1.09	0.04	4.1	1.1	0.9 - 1.3	28	1.37	0.05	3.5	1.4	1.2 - 1.6
IL TEST PT Fibrinogen												
IL ACL, all models	23	0.97	0.05	5.6	1.0	0.8 - 1.2	23	1.47	0.10	6.7	1.5	1.1 - 1.8
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	1.00	0.00	0.0	1.0	1.0 - 1.0	6	1.47	0.14	9.3	1.5	1.0 - 1.9
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	10	0.97	0.05	5.0	1.0	0.8 - 1.2	10	1.30	0.07	5.1	1.3	1.1 - 1.5
All Coagulation Instruments	13	0.97	0.06	6.5	1.0	0.7 - 1.2	13	1.30	0.06	4.4	1.3	1.1 - 1.5
Specimen CG-13							Specimen CG-14					
All Method	83	2.94	0.26	9.0	2.9	2.1 - 3.8	83	4.61	0.71	15.5	4.6	2.4 - 6.8
Dade Innovin												
Sysmex CA-500	26	2.75	0.13	4.7	2.8	2.3 - 3.2	26	3.90	0.19	4.8	3.9	3.3 - 4.5
All Coagulation Instruments	28	2.75	0.13	4.9	2.8	2.3 - 3.2	28	3.93	0.21	5.4	3.9	3.2 - 4.6
IL TEST PT Fibrinogen												
IL ACL, all models	23	3.03	0.18	5.9	3.0	2.4 - 3.6	23	4.97	0.37	7.4	5.0	3.8 - 6.1
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	3.46	0.30	8.6	3.5	2.5 - 4.4	5	6.16	0.54	8.7	6.1	4.5 - 7.8
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	10	2.91	0.27	9.2	2.9	2.1 - 3.8	10	4.61	0.43	9.3	4.8	3.3 - 5.9
All Coagulation Instruments	13	2.90	0.25	8.6	2.9	2.1 - 3.7	13	4.55	0.43	9.4	4.6	3.2 - 5.9
Specimen CG-15												
All Method	85	1.02	0.08	8.3	1.0	0.7 - 1.3						
Dade Innovin												
Sysmex CA-500	27	1.10	0.05	4.4	1.1	0.9 - 1.3						
All Coagulation Instruments	29	1.10	0.05	4.2	1.1	0.9 - 1.3						
IL TEST PT Fibrinogen												
IL ACL, all models	23	0.97	0.06	6.4	1.0	0.7 - 1.2						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	6	0.97	0.05	5.3	1.0	0.8 - 1.2						
TriniCLOT PT Excel												
OTC Coag-A-Mate XM	10	0.93	0.05	5.2	0.9	0.7 - 1.1						
All Coagulation Instruments	13	0.92	0.04	4.8	0.9	0.7 - 1.1						

ACTIVATED PARTIAL THROMBOPLASTIN (seconds)

<u>Reagent/Instrument</u>	Specimen CG-11						Specimen CG-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	34	26.9	2.0	7.5	28	22 - 31	35	36.9	4.5	12.3	35	31 - 43
Dade Actin FSL												
Sysmex CA-500	17	28.7	0.6	2.0	29	24 - 34	17	33.1	1.2	3.5	33	28 - 39
IL TEST APTT-SP												
IL ACL, all models	11	24.9	0.7	2.8	25	21 - 29	11	40.4	2.4	5.9	39	34 - 47
	Specimen CG-13						Specimen CG-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	34	55.4	3.9	7.1	54	47 - 64	34	71.4	5.5	7.7	70	60 - 83
Dade Actin FSL												
Sysmex CA-500	17	55.4	3.1	5.6	55	47 - 64	17	71.2	4.1	5.8	71	60 - 82
IL TEST APTT-SP												
IL ACL, all models	11	52.8	1.3	2.5	53	44 - 61	11	68.0	2.1	3.1	69	57 - 79
	Specimen CG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</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	32.5	1.7	5.2	32	27 - 38						
Dade Actin FSL												
Sysmex CA-500	17	33.2	1.0	3.1	33	28 - 39						
IL TEST APTT-SP												
IL ACL, all models	11	31.5	0.7	2.2	32	26 - 37						

Fibrinogen (mg/dL)

One participant reported Fibrinogen. The vendor assay values for specimens CG-11 through CG-15 are: 347 mg/dL, 94 mg/dL, 284 mg/dL, 289 mg/dL and 622 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 Negative	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 Positive	3	100%	Acceptable

COAGUCHEK XS PLUS PROTHROMBIN TIME (seconds)

Specimen XS-11							Specimen XS-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>
Roche CoaguChek XS Plus	15	34.16	1.62	4.8	34.2	29.0 - 39.3	15	34.75	2.10	6.0	35.6	29.5 - 40.0
Specimen XS-13							Specimen XS-14					
Roche CoaguChek XS Plus	14	24.97	0.79	3.2	25.0	21.2 - 28.8	15	34.69	1.80	5.2	34.7	29.4 - 39.9
Specimen XS-15												
Roche CoaguChek XS Plus	14	24.89	1.24	5.0	25.3	21.1 - 28.7						

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

Specimen XS-11							Specimen XS-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>
Roche CoaguChek XS Plus	18	2.83	0.18	6.4	2.9	2.2 - 3.4	18	2.87	0.22	7.7	3.0	2.2 - 3.6
Specimen XS-13							Specimen XS-14					
Roche CoaguChek XS Plus	17	2.09	0.07	3.3	2.1	1.8 - 2.3	18	2.88	0.16	5.5	2.9	2.4 - 3.4
Specimen XS-15												
Roche CoaguChek XS Plus	17	2.08	0.11	5.3	2.1	1.7 - 2.5						

ITC PROTIME MICROCOAGULATION SYSTEM PROTHROMBIN TIME (seconds)

Specimen IT-5							Specimen IT-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	16	35.55	3.91	11.0	36.5	23.8 - 47.3	14	18.11	2.83	15.6	18.3	9.6 - 26.7
ITC ProTime System - 3 Channel	10	35.88	3.73	10.4	36.5	24.6 - 47.1	9	-	-	-	19.6	9.6 - 26.7

ITC PROTIME MICROCOAGULATION SYSTEM -INTERNATIONAL NORMALIZED RATIO (INR)

Specimen IT-5							Specimen IT-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	24	2.75	0.26	9.3	2.8	1.9 - 3.6	20	1.40	0.21	14.8	1.4	0.7 - 2.1
ITC ProTime System - 3 Channel	12	2.78	0.26	9.5	2.8	1.9 - 3.6	11	1.50	0.20	13.7	1.6	0.8 - 2.2

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	12.90	1.17	9.1	12.6	10.9 - 14.9	12	30.96	2.35	7.6	31.0	26.3 - 35.7
i-Stat Prothrombin Time	10	12.50	0.75	6.0	12.5	10.6 - 14.4	10	30.88	2.59	8.4	30.4	26.2 - 35.6
			Specimen PTI-13						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	12	31.43	1.31	4.2	31.2	26.7 - 36.2	12	12.90	1.12	8.7	12.3	10.9 - 14.9
i-Stat Prothrombin Time	10	31.40	1.40	4.5	31.2	26.6 - 36.2	10	12.51	0.68	5.4	12.3	10.6 - 14.4
			Specimen PTI-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	31.22	1.26	4.0	30.9	26.5 - 35.9						
i-Stat Prothrombin Time	10	31.34	1.21	3.9	30.9	26.6 - 36.1						

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	1.08	0.11	10.3	1.0	0.7 - 1.5	12	2.73	0.23	8.3	2.7	2.0 - 3.5
i-Stat Prothrombin Time	10	1.05	0.08	8.1	1.0	0.7 - 1.4	10	2.71	0.24	8.9	2.7	1.9 - 3.5
			Specimen PTI-13						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	12	2.76	0.14	5.0	2.7	2.3 - 3.2	12	1.07	0.11	10.1	1.0	0.7 - 1.4
i-Stat Prothrombin Time	10	2.74	0.13	4.6	2.7	2.3 - 3.2	10	1.03	0.07	6.6	1.0	0.8 - 1.3
			Specimen PTI-15									
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	2.74	0.12	4.5	2.7	2.3 - 3.2						
i-Stat Prothrombin Time	10	2.74	0.12	4.3	2.7	2.3 - 3.1						

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

<u>Instrument</u>	Specimen BF-5						Specimen BF-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	457.7	60.2	13.1	430	277 - 639	9	1.2	2.4	199.5	0	0 - 9

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

<u>Instrument</u>	Specimen BF-5						Specimen BF-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	414.0	83.7	20.2	400	162 - 666	10	0.5	1.6	316.2	0	0 - 6

FLUID CELL COUNT/CRYSTALS – CRYSTAL IDENTIFICATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BF-5	MSU (Monosodium Urate)	12	92.31%	Acceptable
	Other, not listed	1	7.69%	
BF-6	Calcium Oxalate crystals	9	69.23%	Not graded
	Cholesterol crystals	1	7.69%	
	CPPD crystals	1	7.69%	

Specimen BF-6 is an ungraded challenge due to less than 80% referee consensus.

MICROALBUMIN, DIPSTICK

Specimen UM-3

<u>Method</u>	Participant Results							
	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L(Pos)</u>	<u>20/30 mg/L</u>	<u>50 mg/L (+)</u>	<u>80 mg/L</u>	<u>100 mg/L (++)</u>	<u>150 mg/L</u>
ALL METHODS	44	-	-	1	2	12	4	25
Bayer Clinitek Microalbumin	36	-	-	1	-	10	-	25
Roche Micral - 1 minute	8	-	-	-	2	2	4	-

CREATININE, DIPSTICK

Specimen UM-3

<u>Method</u>	Participant Results							
	<u>Labs</u>	<u>Negative</u>	<u>10 mg/dL</u>	<u>30 mg/dL</u>	<u>50 mg/dL</u>	<u>100 mg/dL</u>	<u>200 mg/dL</u>	<u>300 mg/dL</u>
ALL METHODS	37	-	-	-	-	14	19	4
Bayer Clinitek Microalbumin	34	-	-	-	-	12	18	4
Bayer Multistix Pro	3	-	-	-	-	2	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	104	131.6	10.3	7.8	132	100 - 163
Axis-Shield Afinion AS100	10	124.3	18.2	14.6	120	69 - 179
Bayer DCA 2000(+)	15	131.4	8.0	6.1	130	107 - 156
Dade Dimension/AR/ES/RxL/Xpand	22	132.7	12.8	9.6	135	94 - 171
Roche Integra	11	129.5	7.0	5.4	133	108 - 151
Siemens DCA Vantage	18	134.4	5.4	4.0	134	118 - 151

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	95	72.3	4.6	6.3	72	58 - 86
Axis-Shield Afinion AS100	11	70.3	2.2	3.1	71	63 - 77
Bayer DCA 2000(+)	15	75.3	2.4	3.2	76	68 - 83
Dade Dimension/AR/ES/RxL/Xpand	18	67.1	2.1	3.2	66	60 - 74
Roche Integra	10	70.5	3.4	4.8	72	60 - 81
Siemens DCA Vantage	18	75.5	3.0	4.0	76	66 - 85

CREATININE, URINE (mmol/L)

Three participants reported Creatinine. The Vendor Assay for specimen UM-3 is 7.1 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	12.74	0.39	3.0	12.8	11.5 - 14.0
HemoCue	62	12.74	0.32	2.5	12.8	11.7 - 13.7

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
78	8.82	0.43	4.8	8.8	7.5 - 10.2
61	8.76	0.30	3.5	8.8	7.8 - 9.7

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	20	39.05	4.62	11.8	38.0	25.1 - 53.0
All Microhematocrit Methods	20	39.05	4.62	11.8	38.0	25.1 - 53.0

Specimen HD-12

<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
19	25.73	3.28	12.7	24.0	15.9 - 35.6
19	25.73	3.28	12.7	24.0	15.9 - 35.6

KOH SKIN PREPARATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
K-5	Yeast/fungal elements present	176	91.19%	Acceptable
	Yeast/fungal elements absent	17	8.81%	

Organism present in specimen K-5: *Microsporum gypseum*.

K-6	Yeast/fungal elements present	176	91.19%	Acceptable
	Yeast/fungal elements absent	17	8.81%	

Organism present in specimen K-6: *Trichophyton mentagrophytes*.

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	1078	1.0230	0.0071	0.7	1.025	1.012 - 1.033
All PSS Select Methods	13	1.0262	0.0042	0.4	1.025	1.016 - 1.037
All Refractive Index Methods	10	1.0310	0.0016	0.2	1.031	1.021 - 1.041
Bayer Clinitek 10 / 100	23	1.0272	0.0039	0.4	1.030	1.017 - 1.038
Bayer Clinitek 50	116	1.0277	0.0031	0.3	1.030	1.017 - 1.038
Bayer Clinitek 500	22	1.0255	0.0026	0.3	1.025	1.015 - 1.036
Bayer Clinitek Advantus	18	1.0258	0.0020	0.2	1.025	1.015 - 1.036
Bayer Clinitek Status / Status+	333	1.0284	0.0025	0.2	1.030	1.018 - 1.039
Bayer Reagent Strips	305	1.0199	0.0051	0.5	1.020	1.009 - 1.030
CTMI CT-120 Urine Analyzer	10	1.0255	0.0037	0.4	1.025	1.015 - 1.036
Diagnostic Test Group Clarity Urocheck	12	1.0217	0.0025	0.2	1.020	1.011 - 1.032
Hypoguard DiaScreen	16	1.0181	0.0041	0.4	1.020	1.008 - 1.029
McKesson 10SG Reagent Strips	21	1.0248	0.0019	0.2	1.025	1.014 - 1.035
Roche Chemstrip 101	10	1.0140	0.0032	0.3	1.015	1.004 - 1.024
Roche Chemstrips	62	1.0055	0.0032	0.3	1.005	0.995 - 1.016
Roche Criterion Analyzer	22	1.0132	0.0024	0.2	1.015	1.003 - 1.024
Roche Urisys	45	1.0148	0.0024	0.2	1.015	1.004 - 1.025

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	1123	-	-	-	1	-	5	6	19	101	421	471	99
Arkray PocketChem UA	1	-	-	-	-	-	-	-	-	-	-	1	-
Bayer Clinitek 10 / 100	23	-	-	-	-	-	-	1	-	1	14	7	-
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	-	-	-	1	-	-
Bayer Clinitek 50	119	-	-	-	-	-	-	-	1	37	77	4	-
Bayer Clinitek 500	23	-	-	-	-	-	-	-	-	-	5	18	-
Bayer Clinitek Advantus	18	-	-	-	-	-	-	-	-	-	1	17	-
Bayer Clinitek Atlas	4	-	-	-	-	-	-	-	-	-	1	3	-
Bayer Clinitek Status / Status+	334	-	-	-	-	-	1	2	6	28	10	285	2
Bayer Hemacombistix	1	-	-	-	-	-	-	-	-	-	1	-	-
Bayer Multistix Pro	1	-	-	-	-	-	-	-	-	-	-	1	-
Bayer Reagent Strips	320	-	-	-	1	-	2	1	2	13	197	104	-
Consult Diagnostics Urine Analyzer	10	-	-	-	-	-	1	1	-	1	7	-	-
CTMI CT-120 Urine Analyzer	13	-	-	-	-	-	-	-	-	2	8	3	-
Diagnostic Test Group Clarity Urocheck	16	-	-	-	-	-	-	-	2	3	7	4	-
Germaine Laboratories AimStrip	2	-	-	-	-	-	-	-	-	1	1	-	-
Hypoguard DiaScreen	10	-	-	-	-	-	-	-	1	-	6	2	1
Iris Diagnostics vChem Urine Strips	2	-	-	-	-	-	-	-	-	-	1	1	-
McKesson 10SG Reagent Strips	21	-	-	-	-	-	-	1	2	5	10	3	-
Other Analyzer Method	3	-	-	-	-	-	-	-	1	-	2	-	-
Other Dipstick Method	5	-	-	-	-	-	-	-	-	2	3	-	-
pH Paper	1	-	-	-	-	-	-	-	-	1	-	-	-
PSS Select Reagent Strips	8	-	-	-	-	-	-	-	1	1	6	-	-
PSS Select Urine Analyzer	6	-	-	-	-	-	-	-	-	3	3	-	-
Roche Chemstrip 101	10	-	-	-	-	-	-	-	-	-	4	-	6
Roche Chemstrips	71	-	-	-	-	-	-	-	2	1	25	9	34
Roche Criterion Analyzer	22	-	-	-	-	-	-	-	-	-	2	-	20
Roche SuperUA/ChemstripUA	1	-	-	-	-	-	-	-	-	-	-	-	1
Roche Urisys	49	-	-	-	-	-	-	-	-	-	14	2	33
Schein Urispec	8	-	-	-	-	-	-	-	1	-	7	-	-
UriScan Reagent Strips	4	-	-	-	-	-	-	-	-	-	3	-	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 mg/dL (1+)</u>	<u>100 mg/dL (2+)</u>	<u>300-500 mg/dL (3+)</u>	<u>≥300 mg/dL</u>	<u>≥1000 mg/dL (4+)</u>
ALL METHODS	1143	3	3	14	317	431	327	48
Arkray PocketChem UA	1	-	-	-	-	-	1	-
Bayer Albustix	1	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	23	-	-	-	8	4	10	1
Bayer Clinitek 200/200+	1	-	-	-	1	-	-	-
Bayer Clinitek 50	118	-	-	-	1	37	80	-
Bayer Clinitek 500	23	-	-	-	22	1	-	-
Bayer Clinitek Advantus	16	-	-	-	14	1	1	-
Bayer Clinitek Atlas	4	-	-	-	2	2	-	-
Bayer Clinitek Status / Status+	332	1	-	1	4	131	195	-
Bayer Hemacombistix	1	-	-	-	-	-	-	1
Bayer Multistix Pro	1	-	-	-	-	1	-	-
Bayer Reagent Strips	322	2	2	2	88	155	36	37
Bayer Uristix	4	-	-	-	1	3	-	-
Behring Reagent Strips	1	-	-	-	1	-	-	-
Consult Diagnostics Urine Analyzer	10	-	1	2	3	4	-	-
CTMI CT-120 Urine Analyzer	13	-	-	-	9	4	-	-
Diagnostic Test Group Clarity Urocheck	15	-	-	-	5	10	-	-
Germaine Laboratories AimStrip	2	-	-	-	1	1	-	-
Hypoguard DiaScreen	12	-	-	1	6	4	1	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	1	-	-	-
McKesson 10SG Reagent Strips	21	-	-	-	5	14	1	1
Other Analyzer Method	3	-	-	-	3	-	-	-
Other Dipstick Method	5	-	-	-	2	3	-	-
PSS Select Reagent Strips	8	-	-	1	1	4	1	1
PSS Select Urine Analyzer	6	-	-	3	3	-	-	-
Roche Chemstrip 101	10	-	-	-	4	6	-	-
Roche Chemstrips	85	-	-	3	62	18	-	2
Roche Criterion Analyzer	22	-	-	-	20	2	-	-
Roche SuperUA/ChemstripUA	1	-	-	-	1	-	-	-
Roche Urisys	48	-	-	-	36	11	-	1
Schein Urispec	8	-	-	-	4	4	-	-
Sulfosalicylic Acid	3	-	-	-	2	1	-	-
UriScan Reagent Strips	4	-	-	-	-	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	1141	8	13	13	147	647	160	109	44
Arkray PocketChem UA	1	-	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	23	-	-	1	3	17	1	1	-
Bayer Clinitek 200/200+	1	-	-	-	-	-	-	-	1
Bayer Clinitek 50	119	1	1	-	11	69	8	27	2
Bayer Clinitek 500	22	-	-	2	10	10	-	-	-
Bayer Clinitek Advantus	17	-	-	-	3	10	4	-	-
Bayer Clinitek Atlas	4	-	-	-	1	3	-	-	-
Bayer Clinitek Status / Status+	332	2	-	3	42	273	3	2	7
Bayer Clinitest, 5 drop	2	-	-	-	-	1	1	-	-
Bayer Hemacombistix	1	-	-	-	-	-	-	1	-
Bayer Multistix Pro	1	-	-	-	-	-	1	-	-
Bayer Reagent Strips	321	3	4	4	53	176	47	13	21
Bayer Uristix	4	-	-	-	-	3	-	-	1
Behring Reagent Strips	1	-	-	1	-	-	-	-	-
Consult Diagnostics Urine Analyzer	10	-	-	-	1	2	6	-	1
CTMI CT-120 Urine Analyzer	13	-	-	-	-	8	5	-	-
Diagnostic Test Group Clarity Urocheck	16	-	-	-	4	8	1	3	-
Germaine Laboratories AimStrip	2	-	-	1	-	1	-	-	-
Hypoguard DiaScreen	12	-	1	-	3	8	-	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	1	-	-	-	-
McKesson 10SG Reagent Strips	21	-	3	-	7	11	-	-	-
Other Analyzer Method	3	-	-	-	2	1	-	-	-
Other Dipstick Method	5	-	1	-	-	2	2	-	-
PSS Select Reagent Strips	8	-	-	-	-	2	3	2	1
PSS Select Urine Analyzer	6	-	-	-	-	-	2	-	4
Roche Chemstrip 101	10	-	-	-	-	4	2	4	-
Roche Chemstrips	84	-	1	-	1	15	47	17	3
Roche Criterion Analyzer	22	-	-	-	1	3	15	3	-
Roche SuperUA/ChemstripUA	1	-	-	-	-	-	-	-	1
Roche Urisys	49	-	-	-	2	11	5	31	-
Schein Urispec	8	-	-	1	-	2	2	2	1
UriScan Reagent Strips	4	-	1	-	-	1	1	-	1

URINALYSIS DIPSTICK–KETONES

Specimen UA-3

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<i>Participant Results</i>					
			<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	1119	5	1	12	410	646	7	38
Arkray PocketChem UA	1	-	-	-	-	1	-	-
Bayer Acetest	1	-	-	-	1	-	-	-
Bayer Clinitek 10 / 100	23	-	-	1	12	7	-	3
Bayer Clinitek 200/200+	1	-	-	-	-	1	-	-
Bayer Clinitek 50	119	-	1	-	80	38	-	-
Bayer Clinitek 500	22	-	-	1	18	3	-	-
Bayer Clinitek Advantus	18	-	-	-	16	2	-	-
Bayer Clinitek Atlas	4	-	-	-	3	1	-	-
Bayer Clinitek Status / Status+	334	1	-	-	84	236	1	12
Bayer Ketostix	1	-	-	-	1	-	-	-
Bayer Multistix Pro	1	-	-	-	-	1	-	-
Bayer Reagent Strips	321	2	-	-	39	257	2	21
Consult Diagnostics Urine Analyzer	10	-	-	1	6	3	-	-
CTMI CT-120 Urine Analyzer	13	-	-	1	5	7	-	-
Diagnostic Test Group Clarity Urocheck	16	-	-	-	9	7	-	-
Germaine Laboratories AimStrip	2	-	-	-	1	1	-	-
Hypoguard DiaScreen	10	1	-	-	4	5	-	-
Iris Diagnostics vChem Urine Strips	1	-	-	-	1	-	-	-
McKesson 10SG Reagent Strips	21	-	-	-	6	15	-	-
Other Analyzer Method	3	-	-	-	3	-	-	-
Other Dipstick Method	5	-	-	-	3	2	-	-
PSS Select Reagent Strips	7	-	-	-	3	4	-	-
PSS Select Urine Analyzer	6	-	-	-	3	3	-	-
Roche Chemstrip 101	10	-	-	-	9	1	-	-
Roche Chemstrips	71	-	-	1	43	27	-	-
Roche Criterion Analyzer	22	-	-	-	14	4	4	-
Roche SuperUA/ChemstripUA	1	-	-	-	1	-	-	-
Roche Urisys	49	-	-	5	35	9	-	-
Schein Urispec	8	-	-	2	4	2	-	-
UriScan Reagent Strips	3	-	-	-	1	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	1081	132	538	280	131
Arkray PocketChem UA	1	-	1	-	-
Bayer Clinitek 10 / 100	23	2	15	6	-
Bayer Clinitek 200/200+	1	-	1	-	-
Bayer Clinitek 50	116	6	59	51	-
Bayer Clinitek 500	20	-	8	12	-
Bayer Clinitek Advantus	15	-	5	10	-
Bayer Clinitek Atlas	4	2	2	-	-
Bayer Clinitek Status / Status+	322	53	235	33	1
Bayer Ictotest	6	-	4	-	2
Bayer Multistix Pro	1	-	1	-	-
Bayer Reagent Strips	306	32	151	76	47
Consult Diagnostics Urine Analyzer	10	2	2	5	1
CTMI CT-120 Urine Analyzer	13	2	10	1	-
Diagnostic Test Group Clarity Urocheck	15	-	10	3	2
Germaine Laboratories AimStrip	2	-	1	-	1
Hypoguard DiaScreen	9	5	3	-	1
Iris Diagnostics vChem Urine Strips	1	-	1	-	-
McKesson 10SG Reagent Strips	21	12	6	2	1
Other Analyzer Method	3	2	1	-	-
Other Dipstick Method	5	3	1	-	1
PSS Select Reagent Strips	7	3	3	1	-
PSS Select Urine Analyzer	6	-	4	2	-
Roche Chemstrip 101	10	-	-	9	1
Roche Chemstrips	69	1	4	22	42
Roche Criterion Analyzer	22	-	-	16	6
Roche SuperUA/ChemstripUA	1	-	-	1	-
Roche Urisys	48	-	-	28	20
Schein Urispec	8	6	1	-	1
UriScan Reagent Strips	3	-	1	-	2

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	1038	50	121	290	495	82
Arkray PocketChem UA	1	-	-	-	1	-
Bayer Clinitek 10 / 100	22	-	6	10	6	-
Bayer Clinitek 200/200+	1	-	1	-	-	-
Bayer Clinitek 50	115	3	41	68	3	-
Bayer Clinitek 500	15	-	8	7	-	-
Bayer Clinitek Advantus	16	-	4	12	-	-
Bayer Clinitek Atlas	3	-	-	3	-	-
Bayer Clinitek Status / Status+	322	3	6	29	282	2
Bayer Multistix Pro	1	-	-	1	-	-
Bayer Reagent Strips	288	7	23	126	87	45
Consult Diagnostics Urine Analyzer	10	-	-	-	1	9
CTMI CT-120 Urine Analyzer	13	12	1	-	-	-
Diagnostic Test Group Clarity Urocheck	15	5	6	4	-	-
Germaine Laboratories AimStrip	2	1	-	1	-	-
Hypoguard DiaScreen	9	7	-	-	1	1
Iris Diagnostics vChem Urine Strips	1	1	-	-	-	-
McKesson 10SG Reagent Strips	10	1	-	5	2	2
Other Analyzer Method	3	2	1	-	-	-
Other Dipstick Method	4	-	-	2	-	2
PSS Select Reagent Strips	7	-	-	-	-	7
PSS Select Urine Analyzer	6	-	-	-	-	6
Roche Chemstrip 101	10	-	-	3	7	-
Roche Chemstrips	68	1	17	4	42	4
Roche Criterion Analyzer	22	-	1	-	21	-
Roche SuperUA/ChemstripUA	1	-	-	-	1	-
Roche Urisys	48	-	5	7	36	-
Schein Urispec	8	6	-	-	1	1
UriScan Reagent Strips	3	-	-	-	1	2

URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN

Specimen UA-3

<i>Method</i>	<i>Participant Results</i>					
	<i>Labs</i>	<i>Negative</i>	<i>Trace</i>	<i>Small (5-10 RBC/μL, 1+)</i>	<i>Moderate (50 RBC/μL, 2+)</i>	<i>Large (250 RBC/μL, 3+)</i>
ALL METHODS	1133	3	4	2	42	1082
Arkray PocketChem UA	1	-	-	-	-	1
Bayer Clinitek 10 / 100	23	-	-	-	-	23
Bayer Clinitek 200/200+	1	-	-	-	-	1
Bayer Clinitek 50	119	-	4	-	4	111
Bayer Clinitek 500	23	-	-	-	-	23
Bayer Clinitek Advantus	18	-	-	-	-	18
Bayer Clinitek Atlas	4	-	-	-	-	4
Bayer Clinitek Status / Status+	334	1	-	1	3	329
Bayer Hemacombistix	1	-	-	-	-	1
Bayer Multistix Pro	1	-	-	-	-	1
Bayer Reagent Strips	320	2	-	1	2	315
Consult Diagnostics Urine Analyzer	10	-	-	-	2	8
CTMI CT-120 Urine Analyzer	13	-	-	-	-	13
Diagnostic Test Group Clarity Urocheck	16	-	-	-	-	16
Germaine Laboratories AimStrip	2	-	-	-	-	2
Hypoguard DiaScreen	11	-	-	-	-	11
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	1
McKesson 10SG Reagent Strips	21	-	-	-	1	20
Other Analyzer Method	3	-	-	-	-	3
Other Dipstick Method	5	-	-	-	-	5
PSS Select Reagent Strips	8	-	-	-	-	8
PSS Select Urine Analyzer	6	-	-	-	-	6
Roche Chemstrip 101	10	-	-	-	2	8
Roche Chemstrips	80	-	-	-	8	72
Roche Criterion Analyzer	22	-	-	-	-	22
Roche SuperUA/ChemstripUA	1	-	-	-	-	1
Roche Urisys	48	-	-	-	18	30
Schein Urispec	8	-	-	-	-	8
UriScan Reagent Strips	4	-	-	-	1	3

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	1123	4	21	454	511	133
Arkray PocketChem UA	1	-	-	1	-	-
Bayer Clinitek 10 / 100	23	-	-	11	11	1
Bayer Clinitek 200/200+	1	-	-	1	-	-
Bayer Clinitek 50	119	-	-	94	22	3
Bayer Clinitek 500	23	-	1	21	1	-
Bayer Clinitek Advantus	18	-	-	12	5	1
Bayer Clinitek Atlas	5	-	-	1	4	-
Bayer Clinitek Status / Status+	335	1	7	196	117	14
Bayer Multistix Pro	1	-	-	1	-	-
Bayer Reagent Strips	312	3	3	83	205	18
Bayer Uristix	2	-	-	2	-	-
Consult Diagnostics Urine Analyzer	10	-	-	-	-	10
CTMI CT-120 Urine Analyzer	13	-	4	8	1	-
Diagnostic Test Group Clarity Urocheck	16	-	2	11	3	-
Germaine Laboratories AimStrip	2	-	1	1	-	-
Hypoguard DiaScreen	8	-	1	1	-	6
Iris Diagnostics vChem Urine Strips	1	-	-	-	-	1
McKesson 10SG Reagent Strips	21	-	1	6	14	-
Other Analyzer Method	3	-	-	-	-	3
Other Dipstick Method	5	-	-	-	3	2
PSS Select Reagent Strips	8	-	-	-	-	8
PSS Select Urine Analyzer	6	-	-	-	-	6
Roche Chemstrip 101	10	-	-	-	10	-
Roche Chemstrips	80	-	-	-	58	22
Roche Criterion Analyzer	22	-	-	-	15	7
Roche SuperUA/ChemstripUA	1	-	-	-	1	-
Roche Urisys	49	-	-	-	29	20
Schein Urispec	7	-	-	-	1	6
UriScan Reagent Strips	3	-	-	-	-	3

URINALYSIS DIPSTICK–NITRITE

Specimen UA-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	1115	1090	25
Arkray PocketChem UA	1	1	-
Bayer Clinitek 10 / 100	21	21	-
Bayer Clinitek 200/200+	1	1	-
Bayer Clinitek 50	116	116	-
Bayer Clinitek 500	22	22	-
Bayer Clinitek Advantus	17	17	-
Bayer Clinitek Atlas	4	4	-
Bayer Clinitek Status / Status+	332	331	1
Bayer Multistix Pro	1	1	-
Bayer Reagent Strips	307	305	2
Bayer Uristix	2	2	-
Consult Diagnostics Urine Analyzer	10	10	-
CTMI CT-120 Urine Analyzer	13	-	13
Diagnostic Test Group Clarity Urocheck	16	11	5
Germaine Laboratories AimStrip	2	2	-
Hypoguard DiaScreen	8	7	1
Iris Diagnostics vChem Urine Strips	1	1	-
McKesson 10SG Reagent Strips	20	20	-
Other Analyzer Method	3	3	-
Other Dipstick Method	5	5	-
PSS Select Reagent Strips	8	8	-
PSS Select Urine Analyzer	6	6	-
Roche Chemstrip 101	10	10	-
Roche Chemstrips	81	81	-
Roche Criterion Analyzer	21	20	1
Roche SuperUA/ChemstripUA	1	1	-
Roche Urisys	48	48	-
Schein Urispec	8	8	-
UriScan Reagent Strips	4	4	-

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	102	1	4	-	3	2	39	53
Bayer Clinitek Microalbumin	55	-	2	-	-	1	-	52
DCL ImmunoDip	1	-	1	-	-	-	-	-
Micro-Bumintest	6	-	-	-	-	-	6	-
Roche Micral - 1 minute	38	1	-	-	3	1	33	-

URINALYSIS –URINE hCG

Specimen UA-3

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	600	593	7
Alfa Scientific Instant View	5	5	-
Bayer Clinitek Status / Status+	4	4	-
Beckman Coulter ICON 25 hCG	44	42	2
Cardinal Health SP Brand combo	28	28	-
Cardinal Hlth SPBrand-cassette	5	5	-
CONSULT diagnostics hCG Cassette	42	42	-
CONSULT diagnostics hCG Combo	12	12	-
CONSULT diagnostics hCG Dipstick	16	16	-
Diagnostic Test Group Clarity hCG Combo	3	3	-
Diagnostic Test Group Clarity hCG strip/cassette	5	5	-
Genzyme OSOM - Urine Test	10	9	1
Genzyme OSOM Card Pregnancy	21	21	-
Genzyme OSOM hCG Combo Test	13	13	-
Germaine Laboratories AimStrip	1	1	-
Henry Schein One Step	41	41	-
Immunostics Detector Combi	1	1	-
Immunostics hCG Detector-urine	14	13	1
Inverness Acceava hCG Combo / II	2	2	-
Inverness Acceva hCG-Urine	6	6	-
Inverness Clearview 25 hCG Combo	9	9	-
Inverness Clearview hCG Cassette	13	13	-
Inverness Clearview hCG Combo II	9	9	-
LifeSign Status hCG	1	1	-
McKesson hCG Combo Cassette	17	17	-
McKesson hCG Urine Cassette	18	18	-
McKesson urine hCG - all 20 mIU kits	8	8	-
Meridian ImmunoCard STAT!	1	1	-
NDC Pro Advantage	20	20	-
PEP (Lab Supply) HCG	4	4	-
Permaxim Rediscreen	1	1	-
Polymedco Poly stat hCG	12	12	-
PSS Select hCG Cassette	7	7	-
PSS Select hCG Combo	1	1	-
PSS Select hCG Dipstick	1	1	-
Quidel QuickVue One-Step Combo	45	44	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 Urine	91	89	2
Quidel QuickVue+ One-Step Combo	25	25	-
Quidel RapidVue	1	1	-
Stanbio QuPID	9	9	-
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	531	15	516	525	519	6
Alfa Scientific Instant View	1	-	1	1	1	-
Beckman Coulter Hemocult ICT	46	4	42	42	42	-
Guiac (slide) Test	353	11	342	351	348	3
Hemosure iFOB	44	-	44	44	42	2
Inverness Clearview iFOBT Complete	2	-	2	2	2	-
Other Immunochemical FOB kit	20	-	20	20	20	-
Polymedco OC Auto Micro 80	7	-	7	7	7	-
Polymedco OC-Light iFOB	25	-	25	25	24	1
Quidel QuickVue iFOB	10	-	10	10	10	-
Wampole Clearview Ultra FOBT	2	-	2	2	2	-

URINE SEDIMENT IDENTIFICATION

2011 M3
Urine Sediment ID
Specimens US-5 and US-6

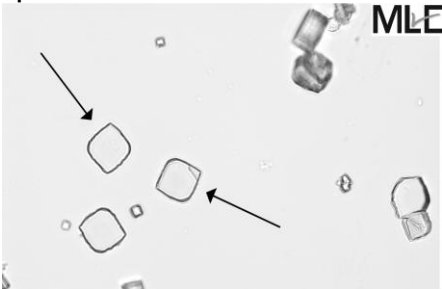
CASE HISTORY US-5 and US-6:
A 36-year-old female presented to her new primary care physician for a routine physical. She stated that she felt fine, but decided she should have a complete physical exam since she had never had one before, and was now insured for the first time in her adult life. A panel of screening tests was performed, and the urinalysis results appear below.

Color = Yellow
Appearance = Clear

Dipstick results:
Specific gravity = 1.015
pH = 5.5
Protein, glucose, ketones, bilirubin, urobilinogen, blood, leukocyte esterase, and nitrite = Negative

This patient’s results are normal.

Specimen US-5



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Uric acid crystal	678	87.82%	Acceptable
Calcium oxalate crystal	27	3.50%	
Starch (Talc) granules	25	3.24%	
Cystine crystal	20	2.59%	
Identification unknown – Refer	12	1.55%	

The arrows in this photograph point to **uric acid crystals**. Uric acid crystals are the most common crystals seen in urine sediment, as well as the most varied in size and shape. The most characteristic forms are the diamond or rhombic prism (seen here) and the rosette. The variety of forms can also include six-sided plates, cubes, prisms, lemon-shaped, barrel-shaped, spears, and stars. Some participants misidentified these crystals as cystine. Cystine crystals are rare, hexagonal (six-sided) plates with pathological significance. Uric acid is a normal crystal found in acid urines (pH < 6). Uric acid crystals rarely have pathologic significance unless the specimen is freshly voided. Uric acid crystals may be seen in fresh specimens from patients with gout, purine metabolism, acute febrile conditions, chronic nephritis, and Lesch-Nyhan syndrome. To view another photo of uric acid crystals, see 2008 M2 Specimen US-4.

URINE SEDIMENT IDENTIFICATION cont'd

Specimen US-6



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Squamous epithelial cell	752	97.41%	Acceptable
Transitional epithelial cell	13	1.68%	

The arrow in this photograph points to a **squamous epithelial cell**. Squamous epithelial cells line the lower urinary tract. They are routinely seen in normal urine sediments. Their presence in large numbers can indicate contamination from external skin or vaginal secretions during specimen collection. Contamination is minimized by use of the proper midstream collection technique. To view another photo of squamous epithelial cells, see 2009 M1 Specimen US-1.

References:

Haber, M.H.: *Urinary Sediment: A Textbook Atlas*. Chicago, American Society of Clinical Pathologists, 1981.

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

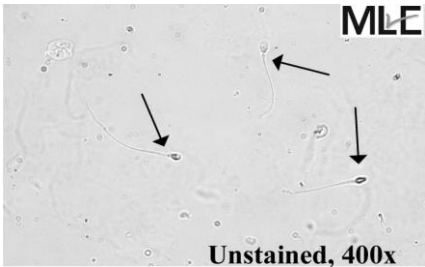
Mundt, L.A, Shanahan, K.: *Graff's Textbook of Routine Urinalysis and Body Fluids*, 2nd ed. Philadelphia: Lippincott Williams & Wilkins, 2011.

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

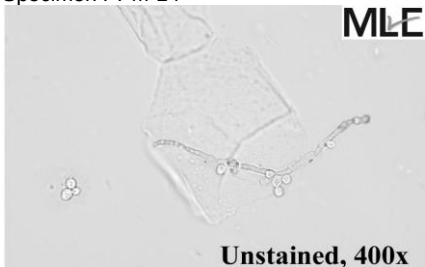


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Spermatozoa	621	99.04%	Acceptable

The arrows in this photograph of a wet mount preparation point to **spermatozoa**. Some labs consider sperm to be contaminants and choose not to report their presence at all. However, sperm found in a child or mentally incapacitated woman may indicate sexual abuse, and the laboratory may not have sufficient information to determine the significance.

KOH Preparation

Specimen PPM-14

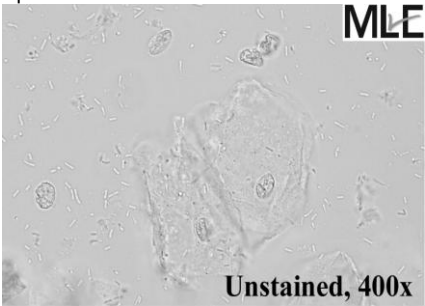


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Yeast/fungal elements present	613	99.51%	Acceptable
Yeast/fungal elements absent	3	0.49%	

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

PROVIDER-PERFORMED MICROSCOPY (PPM)

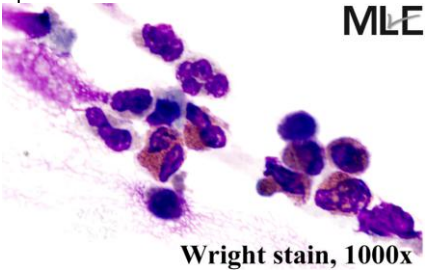
Sperm Identification
Specimen PPM-15



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Sperm absent	615	98.72%	Acceptable
Sperm present	8	1.28%	

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 present	219	97.77%	Acceptable
Eosinophils absent	5	2.23%	

Eosinophils are present in this photograph of Wright-stained nasal mucus.

PROVIDER-PERFORMED MICROSCOPY (PPM)

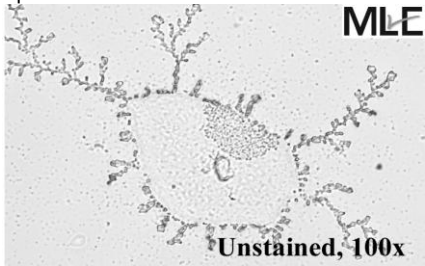
Fecal Leukocytes
Specimen PPM-17



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Leukocytes are absent	222	96.52%	Acceptable
Leukocytes are present	8	3.48%	

Leukocytes are absent in this photograph of a Wright-stained stool prep.

Vaginal Fluid Preparation
Specimen PPM-18



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Ferning present	301	91.77%	Acceptable
Ferning absent	27	8.23%	

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

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