

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Hematology, Coagulation,
Blood Bank, Urinalysis, PPM
2017 MLE-M1



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

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EVALUATION CRITERIA

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

Qualitative

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

ABO Group	95% Participant or 100% Referee Consensus
Antibody Identification	95% Consensus
Blood Cell Identification	80% Consensus
Compatibility Testing	95% Participant or 100% Referee Consensus
Crystal Identification	80% Consensus
Fecal Occult Blood	80% Consensus
KOH Skin Preparation	80% Consensus
Microalbumin (Semi-Quantitative)	80% Consensus
Provider-Performed Microscopy	80% Consensus
Rh Factor (D Type)	95% Participant or 100% Referee Consensus
Unexpected Antibody Detection	95% Consensus
Urine Dipstick	80% Consensus
Urine hCG	80% Consensus
Urine Sediment Identification	80% Consensus

Quantitative

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

Activated Partial Thromboplastin Time	$\pm 15\%$
Automated Differential	± 3 SD
Blood Lead	$\pm 4 \mu\text{g/dL}$ or $\pm 10\%^*$
Body Fluid - Red Cell Count	± 2 SD
Body Fluid - White Cell Count	± 2 SD
Creatinine, Urine (Quantitative)	$\pm 17\%$
Fibrinogen	$\pm 20\%$
Hematocrit	$\pm 6\%$
Hematocrit, Waived	$\pm 6\%$ or ± 2 SD*
Hemoglobin	$\pm 7\%$
Hemoglobin, Waived	$\pm 7\%$ or ± 2 SD*
International Normalized Ratio (INR)	$\pm 20\%$
Microalbumin (Quantitative)	$\pm 30\%$
Platelet Count	$\pm 25\%$
Prothrombin Time	$\pm 15\%$
Red Blood Cell Count	$\pm 6\%$
Reticulocyte Count	$\pm 30\%$ or ± 2 SD*
Sedimentation Rate	± 2 SD
Specific Gravity	± 0.010
White Blood Cell Count	$\pm 15\%$
Whole Blood Glucose – HemoCue	$\pm 12 \text{ mg/dL}$ or $\pm 20\%^*$

*Whichever is greater

HEMOCUE HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen HQ-1							Specimen HQ-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
HemoCue	35	4.92	0.18	3.7	4.9	4.5 - 5.3	34	12.69	0.36	2.8	12.7	11.7 - 13.6

HEMOCUE HEMATOLOGY–GLUCOSE (mg/dL)

Specimen HQ-1							Specimen HQ-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	54.5	3.4	6.3	55	42 - 67	30	111.0	8.5	7.6	111	88 - 134
All HemoCue Methods	27	54.8	3.2	5.9	55	42 - 67	29	111.3	8.4	7.5	111	89 - 134
HemoCue Glucose 201/+	27	54.8	3.2	5.9	55	42 - 67	29	111.3	8.4	7.5	111	89 - 134

SEDIMENTATION RATE (MM/HR)

Specimen ES-1							Specimen ES-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	7.6	2.7	35.7	8	2 - 14	146	58.0	14.1	24.3	56	29 - 87
All Automated Methods	42	7.4	2.9	39.1	7	1 - 14	41	70.0	10.4	14.9	71	49 - 91
All Diesse Methods	10	6.8	5.6	81.7	5	0 - 18	10	86.1	19.5	22.6	78	47 - 126
All Manual Methods	100	7.8	2.8	36.4	8	2 - 14	104	53.2	12.4	23.3	51	28 - 78
All Vital Diagnostics Methods	20	7.0	1.4	19.7	7	4 - 10	20	70.0	9.6	13.7	70	50 - 90
Vital Diagnostics Excyte M/10	18	7.1	1.2	17.3	7	4 - 10	18	70.5	10.0	14.2	72	50 - 91
Westergren - diluted	82	7.3	2.4	32.7	8	2 - 13	85	52.1	10.9	21.0	51	30 - 75
Westergren - undiluted	10	10.0	4.2	42.2	10	1 - 19	10	61.6	15.9	25.8	62	29 - 94

SEDIMAT SEDIMENTATION RATE (MM/HR)

Specimen MAT-1							Specimen MAT-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Polymedco Sedimat 15	15	1.9	0.7	39.8	2	0 - 4	14	64.5	4.5	6.9	65	55 - 74

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	3.48	0.11	3.3	3.5	2.9 - 4.1	13	8.42	0.27	3.2	8.4	7.1 - 9.7
All Abbott Cell-Dyn Instruments	12	3.49	0.12	3.3	3.5	2.9 - 4.1	12	8.43	0.27	3.2	8.5	7.1 - 9.7
Specimen CL-3							Specimen CL-4					
All Method	13	21.78	0.80	3.7	21.8	18.5 - 25.1	13	3.55	0.19	5.2	3.6	3.0 - 4.1
All Abbott Cell-Dyn Instruments	12	21.66	0.71	3.3	21.8	18.4 - 25.0	12	3.56	0.19	5.3	3.6	3.0 - 4.1
Specimen CL-5												
All Method	13	8.36	0.29	3.4	8.5	7.1 - 9.7						
All Abbott Cell-Dyn Instruments	12	8.37	0.30	3.6	8.5	7.1 - 9.7						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	2.188	0.047	2.2	2.20	2.05 - 2.32	13	4.616	0.143	3.1	4.64	4.33 - 4.90
All Abbott Cell-Dyn Instruments	12	2.186	0.049	2.2	2.19	2.05 - 2.32	12	4.614	0.149	3.2	4.64	4.33 - 4.90
Specimen CL-3							Specimen CL-4					
All Method	13	5.135	0.139	2.7	5.14	4.82 - 5.45	13	2.176	0.067	3.1	2.20	2.04 - 2.31
All Abbott Cell-Dyn Instruments	12	5.123	0.138	2.7	5.14	4.81 - 5.44	12	2.171	0.067	3.1	2.20	2.04 - 2.31
Specimen CL-5												
All Method	13	4.605	0.141	3.1	4.64	4.32 - 4.89						
All Abbott Cell-Dyn Instruments	12	4.603	0.147	3.2	4.65	4.32 - 4.88						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	16.58	0.36	2.2	16.5	15.4 - 17.8	13	13.66	0.27	2.0	13.8	12.7 - 14.7
All Abbott Cell-Dyn Instruments	14	16.61	0.35	2.1	16.5	15.4 - 17.8	12	13.63	0.26	1.9	13.8	12.6 - 14.6
Specimen CL-3							Specimen CL-4					
All Method	13	16.80	0.47	2.8	16.8	15.6 - 18.0	13	5.62	0.09	1.6	5.6	5.2 - 6.1
All Abbott Cell-Dyn Instruments	12	16.73	0.40	2.4	16.8	15.5 - 17.9	12	5.63	0.10	1.7	5.6	5.2 - 6.1
Specimen CL-5												
All Method	13	13.65	0.32	2.3	13.8	12.6 - 14.7						
All Abbott Cell-Dyn Instruments	12	13.61	0.30	2.2	13.8	12.6 - 14.6						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	16.27	0.89	5.5	16.1	15.2 - 17.3	13	38.72	1.65	4.3	38.3	36.3 - 41.1
All Abbott Cell-Dyn Instruments	12	16.12	0.73	4.5	16.0	15.1 - 17.1	12	38.37	1.08	2.8	38.2	36.0 - 40.7
Specimen CL-3							Specimen CL-4					
All Method	13	44.88	2.70	6.0	44.1	42.1 - 47.6	13	16.25	0.95	5.9	15.9	15.2 - 17.3
All Abbott Cell-Dyn Instruments	12	44.29	1.73	3.9	44.1	41.6 - 47.0	12	16.06	0.70	4.4	15.9	15.0 - 17.1
Specimen CL-5												
All Method	13	38.68	1.65	4.3	38.3	36.3 - 41.1						
All Abbott Cell-Dyn Instruments	12	38.32	1.02	2.7	38.2	36.0 - 40.7						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	73.5	5.9	8.1	73	55 - 92	13	265.4	15.5	5.8	264	199 - 332
All Abbott Cell-Dyn Instruments	12	73.0	5.8	8.0	73	54 - 92	12	267.1	14.8	5.6	267	200 - 334
Specimen CL-3							Specimen CL-4					
All Method	13	512.1	37.0	7.2	521	384 - 641	13	74.5	7.5	10.1	74	55 - 94
All Abbott Cell-Dyn Instruments	12	515.8	36.1	7.0	522	386 - 645	12	73.3	6.6	9.0	74	54 - 92
Specimen CL-5												
All Method	13	269.4	18.9	7.0	270	202 - 337						
All Abbott Cell-Dyn Instruments	12	270.1	19.6	7.3	274	202 - 338						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	48.03	1.44	3.0	47.7	43.7 - 52.4	13	64.78	1.65	2.5	64.5	59.8 - 69.8
All Abbott Cell-Dyn Instruments	11	47.72	0.99	2.1	47.7	44.7 - 50.7	11	64.17	0.56	0.9	64.4	62.4 - 65.9
Specimen CL-3							Specimen CL-4					
All Method	13	75.13	1.22	1.6	75.1	71.4 - 78.8	13	49.70	3.41	6.9	48.9	39.4 - 60.0
All Abbott Cell-Dyn Instruments	11	74.94	0.52	0.7	75.1	73.3 - 76.5	11	48.51	1.61	3.3	48.8	43.6 - 53.4
Specimen CL-5												
All Method	13	65.01	1.79	2.7	64.4	59.6 - 70.4						
All Abbott Cell-Dyn Instruments	11	64.36	0.67	1.0	64.4	62.3 - 66.4						

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

Specimen CL-1							Specimen CL-2					
<i><u>Instrument</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>	<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	12	38.18	1.27	3.3	38.6	34.3 - 42.0	12	25.03	0.80	3.2	25.2	22.6 - 27.5
All Abbott Cell-Dyn Instruments	11	38.45	0.92	2.4	38.6	35.6 - 41.3	11	25.16	0.69	2.7	25.2	23.0 - 27.3
Specimen CL-3							Specimen CL-4					
All Method	13	16.46	0.88	5.3	16.6	13.8 - 19.1	13	36.12	4.76	13.2	38.0	21.8 - 50.5
All Abbott Cell-Dyn Instruments	12	16.62	0.70	4.2	16.6	14.5 - 18.8	12	36.28	4.94	13.6	38.1	21.4 - 51.1
Specimen CL-5												
All Method	12	24.98	0.82	3.3	24.9	22.5 - 27.5						
All Abbott Cell-Dyn Instruments	11	25.14	0.63	2.5	24.9	23.2 - 27.1						

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

Specimen CL-1							Specimen CL-2					
<i><u>Instrument</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>	<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	11	7.70	0.75	9.8	7.5	5.4 - 10.0	12	4.31	0.30	7.0	4.4	3.3 - 5.3
All Abbott Cell-Dyn Instruments	10	7.59	0.70	9.2	7.4	5.5 - 9.7	11	4.30	0.32	7.4	4.3	3.3 - 5.3
Specimen CL-3							Specimen CL-4					
All Method	12	4.03	0.31	7.6	4.0	3.1 - 5.0	12	7.57	1.11	14.7	7.6	4.2 - 10.9
All Abbott Cell-Dyn Instruments	11	4.04	0.32	7.9	4.0	3.0 - 5.0	11	7.55	1.16	15.4	7.6	4.0 - 11.1
Specimen CL-5												
All Method	12	4.31	0.44	10.2	4.4	2.9 - 5.7						
All Abbott Cell-Dyn Instruments	11	4.28	0.45	10.5	4.3	2.9 - 5.7						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	4.72	0.80	16.9	4.7	2.3 - 7.2	11	5.87	0.26	4.4	5.9	5.1 - 6.7
All Abbott Cell-Dyn Instruments	11	4.90	0.50	10.3	4.7	3.3 - 6.5	11	5.87	0.26	4.4	5.9	5.1 - 6.7
Specimen CL-3							Specimen CL-4					
All Method	12	3.66	0.57	15.5	3.8	1.9 - 5.4	12	4.84	0.57	11.9	5.0	3.1 - 6.6
All Abbott Cell-Dyn Instruments	11	3.81	0.23	6.0	3.8	3.1 - 4.5	11	4.97	0.37	7.4	5.0	3.8 - 6.1
Specimen CL-5												
All Method	12	5.61	0.68	12.2	5.9	3.5 - 7.7						
All Abbott Cell-Dyn Instruments	11	5.79	0.27	4.7	5.9	4.9 - 6.7						

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

Specimen CL-1							Specimen CL-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	1.21	0.58	47.7	1.0	0.0 - 3.0	12	0.57	0.39	68.7	0.5	0.0 - 1.8
All Abbott Cell-Dyn Instruments	11	1.16	0.58	50.0	0.9	0.0 - 3.0	11	0.47	0.22	47.4	0.5	0.0 - 1.2
Specimen CL-3							Specimen CL-4					
All Method	12	0.64	0.18	28.5	0.6	0.0 - 1.2	12	1.22	0.71	58.7	1.1	0.0 - 3.4
All Abbott Cell-Dyn Instruments	11	0.64	0.19	30.0	0.6	0.0 - 1.3	11	1.25	0.74	58.7	1.2	0.0 - 3.5
Specimen CL-5												
All Method	12	0.50	0.36	72.9	0.4	0.0 - 1.6						
All Abbott Cell-Dyn Instruments	11	0.41	0.19	47.0	0.4	0.0 - 1.0						

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

Specimen SYX-1							Specimen SYX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	2.77	0.11	4.0	2.8	2.3 - 3.2	75	8.41	0.25	3.0	8.4	7.1 - 9.7
All Sysmex Instruments	74	2.77	0.11	4.0	2.8	2.3 - 3.2	75	8.41	0.25	3.0	8.4	7.1 - 9.7
Sysmex KX-21N & K-800, 1000, 4500	39	2.76	0.10	3.6	2.8	2.3 - 3.2	39	8.36	0.17	2.0	8.3	7.1 - 9.7
Sysmex pocH-100i	15	2.68	0.07	2.5	2.7	2.2 - 3.1	15	8.23	0.24	2.9	8.2	6.9 - 9.5
Sysmex XP-300	20	2.87	0.09	3.3	2.8	2.4 - 3.3	21	8.63	0.25	2.9	8.6	7.3 - 10.0
Specimen SYX-3							Specimen SYX-4					
All Method	75	20.82	0.57	2.8	20.8	17.6 - 24.0	72	2.78	0.10	3.4	2.8	2.3 - 3.2
All Sysmex Instruments	75	20.82	0.57	2.8	20.8	17.6 - 24.0	72	2.78	0.10	3.4	2.8	2.3 - 3.2
Sysmex KX-21N & K-800, 1000, 4500	39	20.72	0.42	2.0	20.6	17.6 - 23.9	39	2.78	0.08	2.9	2.8	2.3 - 3.2
Sysmex pocH-100i	15	20.39	0.49	2.4	20.3	17.3 - 23.5	15	2.73	0.09	3.2	2.7	2.3 - 3.2
Sysmex XP-300	20	21.40	0.41	1.9	21.3	18.1 - 24.7	21	2.90	0.19	6.6	2.9	2.4 - 3.4
Specimen SYX-5												
All Method	74	8.43	0.25	3.0	8.4	7.1 - 9.7						
All Sysmex Instruments	74	8.43	0.25	3.0	8.4	7.1 - 9.7						
Sysmex KX-21N & K-800, 1000, 4500	39	8.38	0.17	2.1	8.3	7.1 - 9.7						
Sysmex pocH-100i	15	8.23	0.16	2.0	8.3	6.9 - 9.5						
Sysmex XP-300	21	8.70	0.30	3.4	8.7	7.3 - 10.0						

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

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	2.448	0.037	1.5	2.45	2.30 - 2.60	73	4.148	0.052	1.2	4.14	3.89 - 4.40
All Sysmex Instruments	74	2.448	0.037	1.5	2.45	2.30 - 2.60	73	4.148	0.052	1.2	4.14	3.89 - 4.40
Sysmex KX-21N & K-800, 1000, 4500	39	2.442	0.033	1.3	2.45	2.29 - 2.59	38	4.143	0.036	0.9	4.14	3.89 - 4.40
Sysmex pocH-100i	15	2.471	0.038	1.5	2.47	2.32 - 2.62	15	4.208	0.096	2.3	4.20	3.95 - 4.47
Sysmex XP-300	20	2.443	0.037	1.5	2.45	2.29 - 2.59	21	4.129	0.043	1.0	4.12	3.88 - 4.38
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	75	5.719	0.064	1.1	5.72	5.37 - 6.07	74	2.446	0.033	1.3	2.44	2.29 - 2.60
All Sysmex Instruments	75	5.719	0.064	1.1	5.72	5.37 - 6.07	74	2.446	0.033	1.3	2.44	2.29 - 2.60
Sysmex KX-21N & K-800, 1000, 4500	39	5.725	0.046	0.8	5.73	5.38 - 6.07	39	2.444	0.025	1.0	2.44	2.29 - 2.60
Sysmex pocH-100i	15	5.741	0.102	1.8	5.75	5.39 - 6.09	15	2.462	0.051	2.1	2.46	2.31 - 2.61
Sysmex XP-300	21	5.691	0.052	0.9	5.70	5.34 - 6.04	20	2.438	0.026	1.1	2.44	2.29 - 2.59
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	72	4.167	0.041	1.0	4.17	3.91 - 4.42						
All Sysmex Instruments	72	4.167	0.041	1.0	4.17	3.91 - 4.42						
Sysmex KX-21N & K-800, 1000, 4500	39	4.161	0.035	0.8	4.16	3.91 - 4.42						
Sysmex pocH-100i	15	4.217	0.070	1.7	4.21	3.96 - 4.47						
Sysmex XP-300	20	4.160	0.039	0.9	4.17	3.90 - 4.41						

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

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	72	6.16	0.12	2.0	6.2	5.7 - 6.6	74	12.12	0.17	1.4	12.1	11.2 - 13.0
All Sysmex Instruments	72	6.16	0.12	2.0	6.2	5.7 - 6.6	74	12.12	0.17	1.4	12.1	11.2 - 13.0
Sysmex KX-21N & K-800, 1000, 4500	38	6.16	0.09	1.5	6.2	5.7 - 6.6	39	12.13	0.16	1.3	12.1	11.2 - 13.0
Sysmex pocH-100i	15	6.27	0.18	2.8	6.2	5.8 - 6.8	15	12.13	0.25	2.0	12.0	11.2 - 13.0
Sysmex XP-300	20	6.11	0.13	2.0	6.1	5.6 - 6.6	21	12.12	0.17	1.4	12.1	11.2 - 13.0
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	18.29	0.26	1.4	18.3	17.0 - 19.6	73	6.19	0.12	1.9	6.2	5.7 - 6.7
All Sysmex Instruments	74	18.29	0.26	1.4	18.3	17.0 - 19.6	73	6.19	0.12	1.9	6.2	5.7 - 6.7
Sysmex KX-21N & K-800, 1000, 4500	39	18.34	0.25	1.4	18.3	17.0 - 19.7	38	6.21	0.11	1.8	6.2	5.7 - 6.7
Sysmex pocH-100i	15	18.24	0.42	2.3	18.1	16.9 - 19.6	15	6.19	0.13	2.1	6.2	5.7 - 6.7
Sysmex XP-300	21	18.26	0.21	1.1	18.3	16.9 - 19.6	20	6.14	0.10	1.7	6.1	5.7 - 6.6
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	75	12.18	0.18	1.5	12.2	11.3 - 13.1						
All Sysmex Instruments	75	12.18	0.18	1.5	12.2	11.3 - 13.1						
Sysmex KX-21N & K-800, 1000, 4500	39	12.19	0.15	1.3	12.2	11.3 - 13.1						
Sysmex pocH-100i	15	12.09	0.22	1.8	12.0	11.2 - 13.0						
Sysmex XP-300	21	12.24	0.18	1.5	12.2	11.3 - 13.1						

SYSMEX HEMATOLOGY W/ AUTOMATED DIFFERENTIAL–HEMATOCRIT (percent)

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	17.46	0.52	3.0	17.4	16.4 - 18.6	73	32.72	0.94	2.9	32.5	30.7 - 34.7
All Sysmex Instruments	74	17.46	0.52	3.0	17.4	16.4 - 18.6	73	32.72	0.94	2.9	32.5	30.7 - 34.7
Sysmex KX-21N & K-800, 1000, 4500	37	17.27	0.21	1.2	17.3	16.2 - 18.4	37	32.35	0.41	1.3	32.4	30.4 - 34.3
Sysmex pocH-100i	15	18.29	0.35	1.9	18.2	17.1 - 19.4	15	34.44	0.88	2.6	34.5	32.3 - 36.6
Sysmex XP-300	20	17.32	0.28	1.6	17.3	16.2 - 18.4	21	32.39	0.42	1.3	32.5	30.4 - 34.4
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	75	49.15	1.17	2.4	49.0	46.2 - 52.1	73	17.45	0.47	2.7	17.3	16.4 - 18.5
All Sysmex Instruments	75	49.15	1.17	2.4	49.0	46.2 - 52.1	73	17.45	0.47	2.7	17.3	16.4 - 18.5
Sysmex KX-21N & K-800, 1000, 4500	39	48.73	0.72	1.5	48.8	45.8 - 51.7	37	17.24	0.21	1.2	17.2	16.2 - 18.3
Sysmex pocH-100i	15	50.97	0.92	1.8	50.9	47.9 - 54.1	15	18.21	0.38	2.1	18.2	17.1 - 19.4
Sysmex XP-300	21	48.62	0.59	1.2	48.7	45.7 - 51.6	20	17.32	0.23	1.4	17.4	16.2 - 18.4
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	75	32.92	0.93	2.8	32.7	30.9 - 34.9						
All Sysmex Instruments	75	32.92	0.93	2.8	32.7	30.9 - 34.9						
Sysmex KX-21N & K-800, 1000, 4500	38	32.49	0.41	1.3	32.5	30.5 - 34.5						
Sysmex pocH-100i	15	34.48	0.54	1.6	34.5	32.4 - 36.6						
Sysmex XP-300	21	32.68	0.55	1.7	32.7	30.7 - 34.7						

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

Specimen SYX-1							Specimen SYX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	75	62.6	4.1	6.5	63	46 - 79	74	189.6	9.8	5.2	190	142 - 238
All Sysmex Instruments	75	62.6	4.1	6.5	63	46 - 79	74	189.6	9.8	5.2	190	142 - 238
Sysmex KX-21N & K-800, 1000, 4500	39	62.6	4.3	6.9	62	46 - 79	38	188.6	10.1	5.3	188	141 - 236
Sysmex pocH-100i	15	61.7	4.0	6.5	61	46 - 78	15	186.4	8.2	4.4	186	139 - 233
Sysmex XP-300	21	63.4	3.7	5.9	63	47 - 80	20	195.3	7.0	3.6	198	146 - 245
Specimen SYX-3							Specimen SYX-4					
All Method	75	383.0	17.6	4.6	386	287 - 479	74	62.3	3.8	6.1	63	46 - 78
All Sysmex Instruments	75	383.0	17.6	4.6	386	287 - 479	74	62.3	3.8	6.1	63	46 - 78
Sysmex KX-21N & K-800, 1000, 4500	39	386.9	15.7	4.1	388	290 - 484	39	62.9	4.3	6.9	63	47 - 79
Sysmex pocH-100i	15	363.5	15.8	4.3	364	272 - 455	15	62.1	3.9	6.3	61	46 - 78
Sysmex XP-300	21	389.8	11.6	3.0	392	292 - 488	21	62.1	3.6	5.8	63	46 - 78
Specimen SYX-5												
All Method	74	188.8	9.6	5.1	190	141 - 236						
All Sysmex Instruments	74	188.8	9.6	5.1	190	141 - 236						
Sysmex KX-21N & K-800, 1000, 4500	38	189.4	8.6	4.5	190	142 - 237						
Sysmex pocH-100i	15	182.1	7.5	4.1	183	136 - 228						
Sysmex XP-300	21	192.5	10.6	5.5	194	144 - 241						

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

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	12.69	1.37	10.8	13.0	8.5 - 16.8	67	28.46	1.00	3.5	28.4	25.4 - 31.5
All Sysmex Instruments	67	12.69	1.37	10.8	13.0	8.5 - 16.8	67	28.46	1.00	3.5	28.4	25.4 - 31.5
Sysmex KX-21N & K-800, 1000, 4500	37	12.85	1.28	9.9	13.0	9.0 - 16.7	37	28.80	0.94	3.2	28.9	25.9 - 31.7
Sysmex pocH-100i	13	11.22	0.91	8.1	11.1	8.4 - 14.0	14	27.53	0.74	2.7	27.6	25.3 - 29.8
Sysmex XP-300	17	13.46	0.98	7.3	13.9	10.5 - 16.4	16	28.49	0.87	3.0	28.3	25.8 - 31.1
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	68	58.49	0.58	1.0	58.5	56.7 - 60.3	69	12.52	1.43	11.4	12.6	8.2 - 16.9
All Sysmex Instruments	68	58.49	0.58	1.0	58.5	56.7 - 60.3	69	12.52	1.43	11.4	12.6	8.2 - 16.9
Sysmex KX-21N & K-800, 1000, 4500	37	58.27	0.59	1.0	58.2	56.5 - 60.1	37	12.83	1.28	10.0	13.1	8.9 - 16.7
Sysmex pocH-100i	14	58.91	0.61	1.0	58.9	57.0 - 60.8	14	11.02	0.99	9.0	10.9	8.0 - 14.0
Sysmex XP-300	18	58.50	0.53	0.9	58.5	56.9 - 60.1	18	13.06	1.27	9.7	13.3	9.2 - 16.9
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	69	28.34	0.83	2.9	28.4	25.8 - 30.9						
All Sysmex Instruments	69	28.34	0.83	2.9	28.4	25.8 - 30.9						
Sysmex KX-21N & K-800, 1000, 4500	37	28.64	0.80	2.8	28.6	26.2 - 31.1						
Sysmex pocH-100i	14	27.81	0.53	1.9	27.8	26.2 - 29.4						
Sysmex XP-300	18	28.14	0.87	3.1	28.3	25.5 - 30.8						

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

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	18.26	1.57	8.6	18.2	13.5 - 23.0	68	16.44	1.06	6.4	16.5	13.2 - 19.7
All Sysmex Instruments	67	18.26	1.57	8.6	18.2	13.5 - 23.0	68	16.44	1.06	6.4	16.5	13.2 - 19.7
Sysmex KX-21N & K-800, 1000, 4500	36	18.37	1.28	6.9	18.3	14.5 - 22.2	37	16.63	0.88	5.3	16.4	13.9 - 19.3
Sysmex pocH-100i	14	17.72	1.96	11.0	17.5	11.8 - 23.6	14	15.56	1.11	7.1	15.7	12.2 - 18.9
Sysmex XP-300	16	18.78	1.28	6.8	18.3	14.9 - 22.7	17	16.76	1.04	6.2	16.5	13.6 - 19.9
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	12.84	0.70	5.5	12.8	10.7 - 15.0	67	18.22	1.26	6.9	18.2	14.4 - 22.1
All Sysmex Instruments	67	12.84	0.70	5.5	12.8	10.7 - 15.0	67	18.22	1.26	6.9	18.2	14.4 - 22.1
Sysmex KX-21N & K-800, 1000, 4500	36	13.09	0.57	4.4	13.2	11.3 - 14.9	37	18.32	1.09	6.0	18.5	15.0 - 21.6
Sysmex pocH-100i	14	12.14	0.60	4.9	12.2	10.3 - 14.0	14	17.64	1.48	8.4	17.4	13.1 - 22.1
Sysmex XP-300	17	12.88	0.67	5.2	12.7	10.8 - 14.9	17	18.76	1.72	9.2	18.5	13.5 - 24.0
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	68	16.59	1.13	6.8	16.6	13.2 - 20.0						
All Sysmex Instruments	68	16.59	1.13	6.8	16.6	13.2 - 20.0						
Sysmex KX-21N & K-800, 1000, 4500	37	16.79	1.04	6.2	16.8	13.6 - 20.0						
Sysmex pocH-100i	14	15.54	1.01	6.5	15.4	12.5 - 18.6						
Sysmex XP-300	17	17.03	0.91	5.3	16.8	14.3 - 19.8						

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

<u>Instrument</u>	Specimen SYX-1						Specimen SYX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	69.14	2.25	3.3	68.8	62.3 - 76.0	68	55.11	1.42	2.6	55.1	50.8 - 59.4
All Sysmex Instruments	67	69.14	2.25	3.3	68.8	62.3 - 76.0	68	55.11	1.42	2.6	55.1	50.8 - 59.4
Sysmex KX-21N & K-800, 1000, 4500	37	68.98	2.02	2.9	68.6	62.9 - 75.1	37	54.60	1.02	1.9	54.6	51.5 - 57.7
Sysmex pocH-100i	14	71.21	2.09	2.9	71.2	64.9 - 77.5	14	56.91	1.13	2.0	56.9	53.5 - 60.3
Sysmex XP-300	16	67.71	1.59	2.4	68.4	62.9 - 72.5	17	54.71	1.22	2.2	54.8	51.0 - 58.4
	Specimen SYX-3						Specimen SYX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	68	28.67	0.68	2.4	28.7	26.6 - 30.8	67	69.28	1.92	2.8	69.1	63.5 - 75.1
All Sysmex Instruments	68	28.67	0.68	2.4	28.7	26.6 - 30.8	67	69.28	1.92	2.8	69.1	63.5 - 75.1
Sysmex KX-21N & K-800, 1000, 4500	37	28.56	0.63	2.2	28.7	26.6 - 30.5	37	68.80	1.55	2.3	68.7	64.1 - 73.5
Sysmex pocH-100i	14	28.95	0.77	2.7	28.8	26.6 - 31.3	14	71.34	1.50	2.1	71.6	66.8 - 75.9
Sysmex XP-300	17	28.66	0.70	2.4	28.7	26.5 - 30.8	17	68.21	2.37	3.5	68.4	61.1 - 75.4
	Specimen SYX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	67	55.13	1.21	2.2	55.1	51.4 - 58.8						
All Sysmex Instruments	67	55.13	1.21	2.2	55.1	51.4 - 58.8						
Sysmex KX-21N & K-800, 1000, 4500	37	54.58	0.92	1.7	54.6	51.8 - 57.4						
Sysmex pocH-100i	14	56.65	1.04	1.8	56.6	53.5 - 59.8						
Sysmex XP-300	16	55.08	0.77	1.4	55.2	52.7 - 57.4						

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

<u>Instrument</u>	Specimen HD-1						Specimen HD-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	603	1.97	0.19	9.6	2.0	1.6 - 2.3	601	7.96	0.41	5.1	8.0	6.7 - 9.2
All Abbott Cell-Dyn Instruments	187	1.99	0.13	6.4	2.0	1.6 - 2.3	187	7.94	0.34	4.2	7.9	6.7 - 9.2
All ABX Instruments	94	1.93	0.08	4.1	1.9	1.6 - 2.3	94	7.80	0.22	2.9	7.8	6.6 - 9.0
All Boule (CDS) Instruments	117	1.70	0.09	5.4	1.7	1.4 - 2.0	118	7.53	0.27	3.6	7.5	6.3 - 8.7
All COULTER Instruments	186	2.12	0.11	5.3	2.1	1.8 - 2.5	186	8.32	0.24	2.9	8.3	7.0 - 9.6
All Danam/Drew Scientific Instruments	11	2.06	0.11	5.4	2.1	1.7 - 2.4	11	8.04	0.34	4.2	7.9	6.8 - 9.3
Abbott Cell-Dyn 1700	18	2.08	0.08	3.8	2.1	1.7 - 2.4	18	8.43	0.26	3.1	8.6	7.1 - 9.7
Abbott Cell-Dyn 1800	65	1.89	0.11	5.7	1.9	1.6 - 2.2	65	7.75	0.32	4.2	7.8	6.5 - 9.0
Abbott Cell-Dyn Emerald	102	2.03	0.10	4.8	2.0	1.7 - 2.4	102	7.95	0.24	3.1	8.0	6.7 - 9.2
ABX Diagnostics Micros/45/60	94	1.93	0.08	4.1	1.9	1.6 - 2.3	94	7.80	0.22	2.9	7.8	6.6 - 9.0
Boule (CDS) Medonic M series	111	1.69	0.08	4.9	1.7	1.4 - 2.0	111	7.49	0.25	3.3	7.5	6.3 - 8.7
COULTER AcT diff/diff 2	180	2.12	0.11	5.2	2.1	1.8 - 2.5	181	8.32	0.24	2.9	8.3	7.0 - 9.6
Drew Scientific D3	11	2.06	0.11	5.4	2.1	1.7 - 2.4	11	8.04	0.34	4.2	7.9	6.8 - 9.3

<u>Instrument</u>	Specimen HD-3						Specimen HD-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	604	20.78	0.93	4.5	20.7	17.6 - 23.9	605	2.01	0.21	10.5	2.0	1.7 - 2.4
All Abbott Cell-Dyn Instruments	186	20.22	0.76	3.8	20.2	17.1 - 23.3	188	2.04	0.14	7.0	2.0	1.7 - 2.4
All ABX Instruments	94	20.41	0.51	2.5	20.4	17.3 - 23.5	93	1.91	0.07	3.4	1.9	1.6 - 2.2
All Boule (CDS) Instruments	119	20.41	0.59	2.9	20.4	17.3 - 23.5	118	1.73	0.10	6.1	1.7	1.4 - 2.0
All COULTER Instruments	186	21.77	0.49	2.3	21.8	18.5 - 25.1	186	2.21	0.11	5.1	2.2	1.8 - 2.6
All Danam/Drew Scientific Instruments	11	20.07	0.62	3.1	20.0	17.0 - 23.1	11	2.04	0.09	4.5	2.0	1.7 - 2.4
Abbott Cell-Dyn 1700	18	21.43	0.84	3.9	21.5	18.2 - 24.7	18	2.14	0.11	5.1	2.2	1.8 - 2.5
Abbott Cell-Dyn 1800	63	20.52	0.61	3.0	20.5	17.4 - 23.6	64	1.92	0.11	5.8	1.9	1.6 - 2.3
Abbott Cell-Dyn Emerald	103	19.82	0.51	2.6	19.8	16.8 - 22.8	103	2.08	0.11	5.2	2.1	1.7 - 2.4
ABX Diagnostics Micros/45/60	94	20.41	0.51	2.5	20.4	17.3 - 23.5	93	1.91	0.07	3.4	1.9	1.6 - 2.2
Boule (CDS) Medonic M series	111	20.36	0.57	2.8	20.3	17.3 - 23.5	111	1.71	0.09	5.0	1.7	1.4 - 2.0
COULTER AcT diff/diff 2	180	21.79	0.47	2.2	21.8	18.5 - 25.1	180	2.21	0.11	5.1	2.2	1.8 - 2.6
Drew Scientific D3	11	20.07	0.62	3.1	20.0	17.0 - 23.1	11	2.04	0.09	4.5	2.0	1.7 - 2.4

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

Specimen HD-5						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	599	7.97	0.42	5.2	8.0	6.7 - 9.2
All Abbott Cell-Dyn Instruments	188	7.93	0.35	4.4	7.9	6.7 - 9.2
All ABX Instruments	94	7.81	0.22	2.8	7.8	6.6 - 9.0
All Boule (CDS) Instruments	118	7.54	0.29	3.9	7.5	6.4 - 8.7
All COULTER Instruments	181	8.37	0.19	2.2	8.4	7.1 - 9.7
All Danam/Drew Scientific Instruments	11	8.05	0.44	5.5	8.0	6.8 - 9.3
Abbott Cell-Dyn 1700	18	8.48	0.29	3.4	8.5	7.2 - 9.8
Abbott Cell-Dyn 1800	65	7.77	0.34	4.4	7.8	6.6 - 9.0
Abbott Cell-Dyn Emerald	103	7.92	0.25	3.1	7.9	6.7 - 9.2
ABX Diagnostics Micros/45/60	94	7.81	0.22	2.8	7.8	6.6 - 9.0
Boule (CDS) Medonic M series	110	7.50	0.24	3.2	7.5	6.3 - 8.7
COULTER AcT diff/diff 2	176	8.37	0.19	2.2	8.4	7.1 - 9.7
Drew Scientific D3	11	8.05	0.44	5.5	8.0	6.8 - 9.3

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

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	599	2.373	0.072	3.0	2.37	2.23 - 2.52	593	4.618	0.130	2.8	4.63	4.34 - 4.90
All Abbott Cell-Dyn Instruments	188	2.366	0.087	3.7	2.36	2.22 - 2.51	187	4.515	0.123	2.7	4.52	4.24 - 4.79
All ABX Instruments	96	2.343	0.051	2.2	2.35	2.20 - 2.49	93	4.607	0.081	1.8	4.61	4.33 - 4.89
All Boule (CDS) Instruments	116	2.347	0.037	1.6	2.35	2.20 - 2.49	115	4.659	0.064	1.4	4.66	4.37 - 4.94
All COULTER Instruments	187	2.415	0.063	2.6	2.41	2.27 - 2.57	185	4.706	0.112	2.4	4.70	4.42 - 4.99
All Danam/Drew Scientific Instruments	11	2.378	0.052	2.2	2.38	2.23 - 2.53	11	4.583	0.085	1.9	4.58	4.30 - 4.86
Abbott Cell-Dyn 1700	18	2.406	0.053	2.2	2.40	2.26 - 2.55	18	4.653	0.100	2.2	4.66	4.37 - 4.94
Abbott Cell-Dyn 1800	65	2.435	0.071	2.9	2.44	2.28 - 2.59	65	4.551	0.109	2.4	4.55	4.27 - 4.83
Abbott Cell-Dyn Emerald	102	2.317	0.061	2.6	2.32	2.17 - 2.46	102	4.465	0.108	2.4	4.46	4.19 - 4.74
ABX Diagnostics Micros/45/60	96	2.343	0.051	2.2	2.35	2.20 - 2.49	93	4.607	0.081	1.8	4.61	4.33 - 4.89
Boule (CDS) Medonic M series	108	2.348	0.038	1.6	2.35	2.20 - 2.49	107	4.661	0.065	1.4	4.67	4.38 - 4.95
COULTER AcT diff/diff 2	181	2.417	0.063	2.6	2.41	2.27 - 2.57	179	4.705	0.112	2.4	4.70	4.42 - 4.99
Drew Scientific D3	11	2.378	0.052	2.2	2.38	2.23 - 2.53	11	4.583	0.085	1.9	4.58	4.30 - 4.86

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

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	596	5.610	0.187	3.3	5.64	5.27 - 5.95	595	2.374	0.069	2.9	2.37	2.23 - 2.52
All Abbott Cell-Dyn Instruments	188	5.415	0.147	2.7	5.42	5.08 - 5.74	188	2.360	0.081	3.4	2.37	2.21 - 2.51
All ABX Instruments	94	5.630	0.124	2.2	5.64	5.29 - 5.97	94	2.336	0.045	1.9	2.33	2.19 - 2.48
All Boule (CDS) Instruments	116	5.729	0.091	1.6	5.75	5.38 - 6.08	117	2.342	0.039	1.7	2.34	2.20 - 2.49
All COULTER Instruments	186	5.727	0.132	2.3	5.73	5.38 - 6.08	187	2.421	0.061	2.5	2.42	2.27 - 2.57
All Danam/Drew Scientific Instruments	11	5.522	0.094	1.7	5.53	5.19 - 5.86	11	2.376	0.040	1.7	2.38	2.23 - 2.52
Abbott Cell-Dyn 1700	18	5.577	0.109	1.9	5.57	5.24 - 5.92	18	2.406	0.064	2.7	2.40	2.26 - 2.56
Abbott Cell-Dyn 1800	65	5.428	0.129	2.4	5.44	5.10 - 5.76	63	2.420	0.057	2.3	2.42	2.27 - 2.57
Abbott Cell-Dyn Emerald	103	5.373	0.139	2.6	5.37	5.05 - 5.70	104	2.318	0.066	2.9	2.33	2.17 - 2.46
ABX Diagnostics Micros/45/60	94	5.630	0.124	2.2	5.64	5.29 - 5.97	94	2.336	0.045	1.9	2.33	2.19 - 2.48
Boule (CDS) Medonic M series	107	5.739	0.085	1.5	5.75	5.39 - 6.09	109	2.342	0.039	1.7	2.34	2.20 - 2.49
COULTER AcT diff/diff 2	180	5.729	0.132	2.3	5.74	5.38 - 6.08	181	2.422	0.061	2.5	2.42	2.27 - 2.57
Drew Scientific D3	11	5.522	0.094	1.7	5.53	5.19 - 5.86	11	2.376	0.040	1.7	2.38	2.23 - 2.52

Specimen HD-5						
All Method	594	4.616	0.129	2.8	4.63	4.33 - 4.90
All Abbott Cell-Dyn Instruments	185	4.506	0.114	2.5	4.51	4.23 - 4.78
All ABX Instruments	94	4.597	0.084	1.8	4.60	4.32 - 4.88
All Boule (CDS) Instruments	115	4.657	0.072	1.5	4.66	4.37 - 4.94
All COULTER Instruments	187	4.703	0.109	2.3	4.71	4.42 - 4.99
All Danam/Drew Scientific Instruments	11	4.535	0.097	2.1	4.52	4.26 - 4.81
Abbott Cell-Dyn 1700	18	4.633	0.078	1.7	4.63	4.35 - 4.92
Abbott Cell-Dyn 1800	64	4.544	0.088	1.9	4.54	4.27 - 4.82
Abbott Cell-Dyn Emerald	103	4.456	0.116	2.6	4.45	4.18 - 4.73
ABX Diagnostics Micros/45/60	94	4.597	0.084	1.8	4.60	4.32 - 4.88
Boule (CDS) Medonic M series	107	4.656	0.071	1.5	4.66	4.37 - 4.94
COULTER AcT diff/diff 2	181	4.701	0.109	2.3	4.71	4.41 - 4.99
Drew Scientific D3	11	4.535	0.097	2.1	4.52	4.26 - 4.81

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

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	605	6.08	0.17	2.8	6.1	5.6 - 6.6	598	13.49	0.27	2.0	13.5	12.5 - 14.5
All Abbott Cell-Dyn Instruments	187	6.14	0.20	3.3	6.1	5.7 - 6.6	188	13.60	0.31	2.3	13.6	12.6 - 14.6
All ABX Instruments	94	6.06	0.12	2.0	6.1	5.6 - 6.5	94	13.44	0.23	1.7	13.5	12.4 - 14.4
All Boule (CDS) Instruments	118	6.09	0.09	1.5	6.1	5.6 - 6.6	118	13.48	0.18	1.4	13.5	12.5 - 14.5
All COULTER Instruments	187	6.01	0.15	2.5	6.0	5.5 - 6.5	182	13.42	0.26	1.9	13.5	12.4 - 14.4
All Danam/Drew Scientific Instruments	11	6.19	0.17	2.7	6.2	5.7 - 6.7	11	13.59	0.18	1.3	13.6	12.6 - 14.6
Abbott Cell-Dyn 1700	18	6.38	0.12	2.0	6.4	5.9 - 6.9	18	13.79	0.28	2.0	13.9	12.8 - 14.8
Abbott Cell-Dyn 1800	64	6.23	0.16	2.6	6.2	5.7 - 6.7	65	13.63	0.32	2.3	13.7	12.6 - 14.6
Abbott Cell-Dyn Emerald	102	6.04	0.17	2.8	6.1	5.6 - 6.5	103	13.54	0.30	2.2	13.6	12.5 - 14.5
ABX Diagnostics Micros/45/60	94	6.06	0.12	2.0	6.1	5.6 - 6.5	94	13.44	0.23	1.7	13.5	12.4 - 14.4
Boule (CDS) Medonic M series	109	6.09	0.09	1.5	6.1	5.6 - 6.6	109	13.50	0.18	1.3	13.5	12.5 - 14.5
COULTER AcT diff/diff 2	181	6.01	0.15	2.5	6.0	5.5 - 6.5	178	13.41	0.27	2.0	13.4	12.4 - 14.4
Drew Scientific D3	11	6.19	0.17	2.7	6.2	5.7 - 6.7	11	13.59	0.18	1.3	13.6	12.6 - 14.6

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	601	18.20	0.37	2.0	18.2	16.9 - 19.5	603	6.11	0.16	2.6	6.1	5.6 - 6.6
All Abbott Cell-Dyn Instruments	186	18.36	0.37	2.0	18.4	17.0 - 19.7	189	6.17	0.20	3.3	6.2	5.7 - 6.7
All ABX Instruments	92	18.02	0.31	1.7	18.0	16.7 - 19.3	94	6.09	0.13	2.1	6.1	5.6 - 6.6
All Boule (CDS) Instruments	119	18.31	0.29	1.6	18.4	17.0 - 19.6	117	6.10	0.09	1.4	6.1	5.6 - 6.6
All COULTER Instruments	185	18.11	0.33	1.8	18.1	16.8 - 19.4	184	6.05	0.13	2.1	6.1	5.6 - 6.5
All Danam/Drew Scientific Instruments	11	18.09	0.29	1.6	18.1	16.8 - 19.4	11	6.18	0.11	1.7	6.2	5.7 - 6.7
Abbott Cell-Dyn 1700	18	18.46	0.38	2.1	18.5	17.1 - 19.8	18	6.47	0.10	1.6	6.5	6.0 - 7.0
Abbott Cell-Dyn 1800	65	18.48	0.35	1.9	18.5	17.1 - 19.8	65	6.26	0.16	2.6	6.3	5.8 - 6.7
Abbott Cell-Dyn Emerald	103	18.25	0.38	2.1	18.3	16.9 - 19.6	104	6.06	0.16	2.6	6.1	5.6 - 6.5
ABX Diagnostics Micros/45/60	92	18.02	0.31	1.7	18.0	16.7 - 19.3	94	6.09	0.13	2.1	6.1	5.6 - 6.6
Boule (CDS) Medonic M series	109	18.35	0.26	1.4	18.4	17.0 - 19.7	109	6.11	0.08	1.4	6.1	5.6 - 6.6
COULTER AcT diff/diff 2	179	18.10	0.33	1.8	18.1	16.8 - 19.4	178	6.05	0.13	2.1	6.1	5.6 - 6.5
Drew Scientific D3	11	18.09	0.29	1.6	18.1	16.8 - 19.4	11	6.18	0.11	1.7	6.2	5.7 - 6.7

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

Specimen HD-5						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	597	13.51	0.24	1.8	13.5	12.5 - 14.5
All Abbott Cell-Dyn Instruments	188	13.61	0.27	2.0	13.6	12.6 - 14.6
All ABX Instruments	94	13.45	0.21	1.5	13.5	12.5 - 14.4
All Boule (CDS) Instruments	117	13.48	0.19	1.4	13.5	12.5 - 14.5
All COULTER Instruments	184	13.45	0.24	1.8	13.4	12.5 - 14.4
All Danam/Drew Scientific Instruments	11	13.51	0.29	2.2	13.5	12.5 - 14.5
Abbott Cell-Dyn 1700	18	13.76	0.25	1.8	13.8	12.7 - 14.8
Abbott Cell-Dyn 1800	65	13.67	0.27	2.0	13.7	12.7 - 14.7
Abbott Cell-Dyn Emerald	103	13.54	0.25	1.9	13.6	12.5 - 14.5
ABX Diagnostics Micros/45/60	94	13.45	0.21	1.5	13.5	12.5 - 14.4
Boule (CDS) Medonic M series	108	13.49	0.18	1.3	13.5	12.5 - 14.5
COULTER AcT diff/diff 2	178	13.45	0.24	1.8	13.4	12.5 - 14.4
Drew Scientific D3	11	13.51	0.29	2.2	13.5	12.5 - 14.5

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

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	600	17.47	0.98	5.6	17.6	16.4 - 18.6	598	38.40	1.46	3.8	38.5	36.0 - 40.7
All Abbott Cell-Dyn Instruments	187	18.33	0.59	3.2	18.3	17.2 - 19.5	187	39.56	1.03	2.6	39.5	37.1 - 42.0
All ABX Instruments	94	16.20	0.35	2.2	16.2	15.2 - 17.2	94	36.71	0.67	1.8	36.8	34.5 - 39.0
All Boule (CDS) Instruments	117	16.54	0.41	2.5	16.5	15.5 - 17.6	117	37.14	0.85	2.3	37.2	34.9 - 39.4
All COULTER Instruments	186	17.77	0.47	2.6	17.8	16.7 - 18.9	184	38.81	0.89	2.3	38.8	36.4 - 41.2
All Danam/Drew Scientific Instruments	11	18.13	0.48	2.6	18.2	17.0 - 19.3	11	38.95	0.84	2.1	39.1	36.6 - 41.3
Abbott Cell-Dyn 1700	18	17.79	0.43	2.4	17.9	16.7 - 18.9	18	39.18	0.95	2.4	39.3	36.8 - 41.6
Abbott Cell-Dyn 1800	65	18.58	0.63	3.4	18.6	17.4 - 19.7	65	39.67	1.12	2.8	39.8	37.2 - 42.1
Abbott Cell-Dyn Emerald	103	18.30	0.54	2.9	18.3	17.2 - 19.5	102	39.57	0.99	2.5	39.5	37.1 - 42.0
ABX Diagnostics Micros/45/60	94	16.20	0.35	2.2	16.2	15.2 - 17.2	94	36.71	0.67	1.8	36.8	34.5 - 39.0
Boule (CDS) Medonic M series	109	16.57	0.41	2.5	16.6	15.5 - 17.6	109	37.23	0.81	2.2	37.2	34.9 - 39.5
COULTER AcT diff/diff 2	179	17.78	0.47	2.6	17.8	16.7 - 18.9	177	38.80	0.89	2.3	38.7	36.4 - 41.2
Drew Scientific D3	11	18.13	0.48	2.6	18.2	17.0 - 19.3	11	38.95	0.84	2.1	39.1	36.6 - 41.3

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

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	596	51.40	1.56	3.0	51.5	48.3 - 54.5	598	17.43	0.98	5.6	17.6	16.3 - 18.5
All Abbott Cell-Dyn Instruments	189	52.16	1.39	2.7	52.2	49.0 - 55.3	185	18.27	0.54	3.0	18.3	17.1 - 19.4
All ABX Instruments	92	49.57	0.97	2.0	49.7	46.5 - 52.6	93	16.11	0.32	2.0	16.1	15.1 - 17.1
All Boule (CDS) Instruments	118	51.01	1.42	2.8	51.3	47.9 - 54.1	118	16.50	0.44	2.7	16.5	15.5 - 17.5
All COULTER Instruments	184	51.75	1.17	2.3	51.7	48.6 - 54.9	187	17.79	0.47	2.6	17.8	16.7 - 18.9
All Danam/Drew Scientific Instruments	11	51.48	1.19	2.3	51.7	48.3 - 54.6	11	18.11	0.40	2.2	18.1	17.0 - 19.2
Abbott Cell-Dyn 1700	18	51.60	1.05	2.0	51.8	48.5 - 54.7	18	17.85	0.49	2.7	17.8	16.7 - 19.0
Abbott Cell-Dyn 1800	65	52.15	1.41	2.7	52.2	49.0 - 55.3	64	18.42	0.61	3.3	18.4	17.3 - 19.6
Abbott Cell-Dyn Emerald	104	52.25	1.41	2.7	52.4	49.1 - 55.4	102	18.28	0.50	2.7	18.3	17.1 - 19.4
ABX Diagnostics Micros/45/60	92	49.57	0.97	2.0	49.7	46.5 - 52.6	93	16.11	0.32	2.0	16.1	15.1 - 17.1
Boule (CDS) Medonic M series	109	51.23	1.20	2.3	51.4	48.1 - 54.4	110	16.52	0.43	2.6	16.6	15.5 - 17.6
COULTER AcT diff/diff 2	177	51.76	1.17	2.3	51.7	48.6 - 54.9	180	17.80	0.47	2.6	17.8	16.7 - 18.9
Drew Scientific D3	11	51.48	1.19	2.3	51.7	48.3 - 54.6	11	18.11	0.40	2.2	18.1	17.0 - 19.2

Specimen HD-5						
All Method	599	38.36	1.43	3.7	38.4	36.0 - 40.7
All Abbott Cell-Dyn Instruments	188	39.47	1.02	2.6	39.5	37.1 - 41.9
All ABX Instruments	92	36.63	0.63	1.7	36.7	34.4 - 38.9
All Boule (CDS) Instruments	117	37.25	0.97	2.6	37.3	35.0 - 39.5
All COULTER Instruments	187	38.80	0.91	2.4	38.7	36.4 - 41.2
All Danam/Drew Scientific Instruments	11	38.59	0.99	2.6	38.4	36.2 - 41.0
Abbott Cell-Dyn 1700	18	39.08	0.84	2.1	39.0	36.7 - 41.5
Abbott Cell-Dyn 1800	64	39.58	0.99	2.5	39.5	37.2 - 42.0
Abbott Cell-Dyn Emerald	104	39.45	1.05	2.7	39.5	37.0 - 41.9
ABX Diagnostics Micros/45/60	92	36.63	0.63	1.7	36.7	34.4 - 38.9
Boule (CDS) Medonic M series	109	37.32	0.94	2.5	37.4	35.0 - 39.6
COULTER AcT diff/diff 2	180	38.80	0.90	2.3	38.7	36.4 - 41.2
Drew Scientific D3	11	38.59	0.99	2.6	38.4	36.2 - 41.0

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

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	587	56.0	7.1	12.8	56	41 - 70	597	251.1	16.5	6.6	252	188 - 314
All Abbott Cell-Dyn Instruments	180	54.1	7.3	13.4	54	40 - 68	186	256.5	16.8	6.6	256	192 - 321
All ABX Instruments	94	63.2	6.7	10.6	63	47 - 80	94	261.7	11.8	4.5	262	196 - 328
All Boule (CDS) Instruments	119	51.6	4.8	9.2	52	38 - 65	118	232.8	11.2	4.8	233	174 - 291
All COULTER Instruments	185	56.7	5.6	9.9	57	42 - 71	186	252.8	11.1	4.4	252	189 - 316
All Danam/Drew Scientific Instruments	11	64.5	8.2	12.7	64	48 - 81	11	257.5	17.1	6.6	254	193 - 322
Abbott Cell-Dyn 1700	18	52.1	4.5	8.6	52	39 - 66	18	257.1	19.8	7.7	262	192 - 322
Abbott Cell-Dyn 1800	65	54.9	4.5	8.2	55	41 - 69	64	258.3	15.6	6.0	258	193 - 323
Abbott Cell-Dyn Emerald	99	55.0	10.5	19.1	54	41 - 69	102	254.8	16.7	6.5	254	191 - 319
ABX Diagnostics Micros/45/60	94	63.2	6.7	10.6	63	47 - 80	94	261.7	11.8	4.5	262	196 - 328
Boule (CDS) Medonic M series	111	51.6	4.7	9.0	51	38 - 65	110	232.5	10.7	4.6	233	174 - 291
COULTER AcT diff/diff 2	179	56.8	5.6	9.9	57	42 - 72	181	252.7	11.3	4.5	252	189 - 316
Drew Scientific D3	11	64.5	8.2	12.7	64	48 - 81	11	257.5	17.1	6.6	254	193 - 322

Specimen HD-3							Specimen HD-4					
All Method	601	550.1	39.6	7.2	552	412 - 688	590	56.4	6.9	12.2	56	42 - 71
All Abbott Cell-Dyn Instruments	189	562.8	43.1	7.7	558	422 - 704	179	56.4	7.2	12.8	56	42 - 71
All ABX Instruments	94	551.2	23.0	4.2	550	413 - 690	94	62.0	6.4	10.3	62	46 - 78
All Boule (CDS) Instruments	118	501.3	21.9	4.4	502	375 - 627	116	50.6	3.9	7.7	51	37 - 64
All COULTER Instruments	186	567.8	22.8	4.0	567	425 - 710	184	56.2	4.7	8.3	56	42 - 71
All Danam/Drew Scientific Instruments	11	562.4	27.8	4.9	559	421 - 703	11	63.8	5.8	9.0	65	47 - 80
Abbott Cell-Dyn 1700	18	587.1	45.0	7.7	576	440 - 734	18	55.6	6.9	12.4	56	41 - 70
Abbott Cell-Dyn 1800	65	595.6	28.9	4.8	599	446 - 745	63	55.9	4.3	7.8	56	41 - 70
Abbott Cell-Dyn Emerald	104	537.1	32.1	6.0	535	402 - 672	98	57.5	9.5	16.5	56	43 - 72
ABX Diagnostics Micros/45/60	94	551.2	23.0	4.2	550	413 - 690	94	62.0	6.4	10.3	62	46 - 78
Boule (CDS) Medonic M series	110	500.6	21.4	4.3	501	375 - 626	110	50.7	3.8	7.5	51	38 - 64
COULTER AcT diff/diff 2	181	567.7	22.4	3.9	567	425 - 710	178	56.3	4.6	8.1	56	42 - 71
Drew Scientific D3	11	562.4	27.8	4.9	559	421 - 703	11	63.8	5.8	9.0	65	47 - 80

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

Specimen HD-5						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	597	250.7	15.8	6.3	251	188 - 314
All Abbott Cell-Dyn Instruments	186	255.7	15.0	5.9	256	191 - 320
All ABX Instruments	95	258.2	12.1	4.7	257	193 - 323
All Boule (CDS) Instruments	119	233.3	13.0	5.6	233	174 - 292
All COULTER Instruments	185	252.4	11.2	4.5	251	189 - 316
All Danam/Drew Scientific Instruments	11	253.9	23.5	9.3	259	190 - 318
Abbott Cell-Dyn 1700	18	257.8	17.7	6.9	257	193 - 323
Abbott Cell-Dyn 1800	64	255.1	14.1	5.5	255	191 - 319
Abbott Cell-Dyn Emerald	102	255.6	15.2	6.0	256	191 - 320
ABX Diagnostics Micros/45/60	95	258.2	12.1	4.7	257	193 - 323
Boule (CDS) Medonic M series	111	232.7	12.5	5.4	233	174 - 291
COULTER AcT diff/diff 2	180	252.5	11.2	4.4	251	189 - 316
Drew Scientific D3	11	253.9	23.5	9.3	259	190 - 318

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

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	577	56.77	4.14	7.3	57.7	44.3 - 69.2	577	30.33	2.44	8.0	30.6	23.0 - 37.7
All Abbott Cell-Dyn Instruments	181	54.83	3.64	6.6	55.9	43.8 - 65.8	181	29.70	2.39	8.1	30.4	22.5 - 36.9
All ABX Instruments	91	51.94	3.28	6.3	51.5	42.1 - 61.8	89	28.18	1.39	4.9	28.2	24.0 - 32.4
All Boule (CDS) Instruments	113	57.74	2.50	4.3	58.1	50.2 - 65.3	114	29.02	1.65	5.7	28.9	24.0 - 34.0
All COULTER Instruments	179	60.38	1.56	2.6	60.3	55.6 - 65.1	178	32.74	0.92	2.8	32.8	29.9 - 35.5
All Danam/Drew Scientific Instruments	11	59.32	1.84	3.1	59.3	53.7 - 64.9	11	32.13	2.15	6.7	31.7	25.6 - 38.6
Abbott Cell-Dyn 1700	19	53.76	1.90	3.5	53.6	48.0 - 59.5	19	29.15	0.74	2.5	29.0	26.9 - 31.4
Abbott Cell-Dyn 1800	63	50.82	1.97	3.9	50.8	44.9 - 56.8	62	26.91	1.01	3.7	26.7	23.8 - 30.0
Abbott Cell-Dyn Emerald	96	57.62	1.66	2.9	57.4	52.6 - 62.7	95	31.49	1.01	3.2	31.3	28.4 - 34.6
ABX Diagnostics Micros/45/60	91	51.94	3.28	6.3	51.5	42.1 - 61.8	89	28.18	1.39	4.9	28.2	24.0 - 32.4
Boule (CDS) Medonic M series	106	57.47	2.26	3.9	57.8	50.6 - 64.3	106	28.73	1.31	4.6	28.7	24.7 - 32.7
COULTER AcT diff/diff 2	177	60.35	1.55	2.6	60.3	55.7 - 65.1	176	32.73	0.92	2.8	32.8	29.9 - 35.5
Drew Scientific D3	11	59.32	1.84	3.1	59.3	53.7 - 64.9	11	32.13	2.15	6.7	31.7	25.6 - 38.6

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

Specimen HD-3							Specimen HD-4					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	571	13.38	1.14	8.6	13.6	9.9 - 16.9	581	56.31	4.20	7.5	57.2	43.7 - 69.0
All Abbott Cell-Dyn Instruments	179	13.19	1.51	11.5	13.4	8.6 - 17.8	182	54.41	3.88	7.1	55.5	42.7 - 66.1
All ABX Instruments	90	12.69	0.75	5.9	12.6	10.4 - 15.0	91	51.35	2.92	5.7	51.1	42.5 - 60.2
All Boule (CDS) Instruments	113	12.80	0.65	5.1	12.8	10.8 - 14.8	116	57.06	2.34	4.1	57.0	50.0 - 64.1
All COULTER Instruments	175	14.35	0.44	3.1	14.4	13.0 - 15.7	177	60.14	1.47	2.4	60.1	55.7 - 64.6
All Danam/Drew Scientific Instruments	11	13.95	1.36	9.8	13.5	9.8 - 18.1	11	58.25	1.31	2.3	57.9	54.3 - 62.2
Abbott Cell-Dyn 1700	18	12.38	0.46	3.7	12.4	11.0 - 13.8	19	53.12	2.40	4.5	53.8	45.9 - 60.4
Abbott Cell-Dyn 1800	61	11.57	0.43	3.7	11.5	10.2 - 12.9	61	49.99	1.76	3.5	49.9	44.7 - 55.3
Abbott Cell-Dyn Emerald	93	14.31	0.81	5.6	14.2	11.8 - 16.8	97	57.42	1.72	3.0	57.2	52.2 - 62.6
ABX Diagnostics Micros/45/60	90	12.69	0.75	5.9	12.6	10.4 - 15.0	91	51.35	2.92	5.7	51.1	42.5 - 60.2
Boule (CDS) Medonic M series	106	12.72	0.57	4.5	12.7	11.0 - 14.5	106	56.75	2.05	3.6	56.7	50.6 - 62.9
COULTER AcT diff/diff 2	173	14.36	0.43	3.0	14.4	13.0 - 15.7	175	60.11	1.44	2.4	60.0	55.7 - 64.5
Drew Scientific D3	11	13.95	1.36	9.8	13.5	9.8 - 18.1	11	58.25	1.31	2.3	57.9	54.3 - 62.2

Specimen HD-5						
All Method	577	30.37	2.45	8.1	30.6	23.0 - 37.8
All Abbott Cell-Dyn Instruments	181	29.71	2.42	8.1	30.5	22.4 - 37.0
All ABX Instruments	89	28.19	1.38	4.9	28.0	24.0 - 32.4
All Boule (CDS) Instruments	113	29.10	1.39	4.8	28.8	24.9 - 33.3
All COULTER Instruments	176	32.78	0.89	2.7	32.8	30.1 - 35.5
All Danam/Drew Scientific Instruments	11	32.32	2.62	8.1	31.7	24.4 - 40.2
Abbott Cell-Dyn 1700	18	29.16	1.03	3.5	29.2	26.0 - 32.3
Abbott Cell-Dyn 1800	64	27.02	1.28	4.8	26.8	23.1 - 30.9
Abbott Cell-Dyn Emerald	95	31.45	0.90	2.9	31.4	28.7 - 34.2
ABX Diagnostics Micros/45/60	89	28.19	1.38	4.9	28.0	24.0 - 32.4
Boule (CDS) Medonic M series	106	28.87	1.10	3.8	28.8	25.5 - 32.2
COULTER AcT diff/diff 2	174	32.77	0.88	2.7	32.7	30.1 - 35.5
Drew Scientific D3	11	32.32	2.62	8.1	31.7	24.4 - 40.2

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

<u>Instrument</u>	Specimen HD-1						Specimen HD-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	580	9.98	3.22	32.3	8.9	0.3 - 19.7	580	7.51	2.45	32.7	7.3	0.1 - 14.9
All Abbott Cell-Dyn Instruments	180	9.93	3.83	38.6	7.9	0.0 - 21.5	180	6.41	2.82	44.0	4.4	0.0 - 14.9
All ABX Instruments	91	12.55	2.07	16.5	12.8	6.3 - 18.8	91	6.13	0.64	10.4	6.1	4.2 - 8.1
All Boule (CDS) Instruments	116	11.88	2.50	21.1	12.2	4.3 - 19.4	116	10.88	1.17	10.7	10.8	7.3 - 14.4
All COULTER Instruments	180	7.72	1.06	13.8	7.8	4.5 - 11.0	181	7.31	0.56	7.6	7.3	5.6 - 9.0
All Danam/Drew Scientific Instruments	11	6.85	0.72	10.4	6.8	4.7 - 9.1	11	4.75	0.42	8.8	4.8	3.4 - 6.0
Abbott Cell-Dyn 1700	19	11.42	1.12	9.8	11.8	8.0 - 14.8	19	8.18	0.45	5.6	8.3	6.8 - 9.6
Abbott Cell-Dyn 1800	60	14.56	1.29	8.8	14.6	10.6 - 18.5	61	9.86	0.51	5.1	9.8	8.3 - 11.4
Abbott Cell-Dyn Emerald	95	6.85	0.82	12.0	6.8	4.3 - 9.4	94	3.88	0.31	8.1	3.9	2.9 - 4.9
ABX Diagnostics Micros/45/60	91	12.55	2.07	16.5	12.8	6.3 - 18.8	91	6.13	0.64	10.4	6.1	4.2 - 8.1
Boule (CDS) Medonic M series	107	11.87	2.49	21.0	12.2	4.3 - 19.4	107	10.78	1.12	10.4	10.7	7.4 - 14.2
COULTER AcT diff/diff 2	177	7.74	1.06	13.7	7.8	4.5 - 11.0	178	7.32	0.55	7.5	7.3	5.6 - 9.0
Drew Scientific D3	11	6.85	0.72	10.4	6.8	4.7 - 9.1	11	4.75	0.42	8.8	4.8	3.4 - 6.0

<u>Instrument</u>	Specimen HD-3						Specimen HD-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	579	4.49	1.83	40.8	5.1	0.0 - 10.0	578	10.03	3.20	31.9	8.9	0.4 - 19.7
All Abbott Cell-Dyn Instruments	180	3.63	2.07	57.1	2.0	0.0 - 9.9	178	9.80	3.65	37.2	8.1	0.0 - 20.8
All ABX Instruments	90	2.67	0.25	9.3	2.6	1.9 - 3.5	92	12.78	2.08	16.3	12.7	6.5 - 19.1
All Boule (CDS) Instruments	109	6.60	0.80	12.1	6.7	4.2 - 9.0	116	12.06	2.55	21.1	12.4	4.4 - 19.8
All COULTER Instruments	179	5.18	0.38	7.3	5.2	4.0 - 6.4	178	7.72	0.96	12.5	7.7	4.8 - 10.6
All Danam/Drew Scientific Instruments	11	2.35	0.28	12.0	2.4	1.5 - 3.2	11	6.84	0.62	9.1	6.6	4.9 - 8.7
Abbott Cell-Dyn 1700	19	5.21	0.62	11.9	5.2	3.3 - 7.1	19	11.12	1.16	10.4	10.9	7.6 - 14.6
Abbott Cell-Dyn 1800	59	5.95	0.37	6.2	5.9	4.8 - 7.1	58	14.44	1.18	8.2	14.6	10.8 - 18.0
Abbott Cell-Dyn Emerald	96	1.80	0.15	8.2	1.8	1.3 - 2.3	96	6.86	0.78	11.3	6.8	4.5 - 9.2
ABX Diagnostics Micros/45/60	90	2.67	0.25	9.3	2.6	1.9 - 3.5	92	12.78	2.08	16.3	12.7	6.5 - 19.1
Boule (CDS) Medonic M series	107	6.59	0.80	12.1	6.7	4.1 - 9.0	107	12.06	2.59	21.5	12.4	4.2 - 19.9
COULTER AcT diff/diff 2	176	5.18	0.38	7.3	5.2	4.0 - 6.4	175	7.73	0.94	12.2	7.7	4.9 - 10.6
Drew Scientific D3	11	2.35	0.28	12.0	2.4	1.5 - 3.2	11	6.84	0.62	9.1	6.6	4.9 - 8.7

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

Specimen HD-5						
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	580	7.48	2.49	33.3	7.3	0.0 - 15.0
All Abbott Cell-Dyn Instruments	180	6.38	2.86	44.9	4.4	0.0 - 15.0
All ABX Instruments	91	6.09	0.56	9.2	6.0	4.4 - 7.8
All Boule (CDS) Instruments	116	10.80	1.39	12.9	10.7	6.6 - 15.0
All COULTER Instruments	180	7.34	0.60	8.2	7.3	5.5 - 9.2
All Danam/Drew Scientific Instruments	11	4.77	0.36	7.5	4.9	3.6 - 5.9
Abbott Cell-Dyn 1700	19	8.06	0.50	6.2	8.1	6.5 - 9.6
Abbott Cell-Dyn 1800	61	9.89	0.55	5.6	9.9	8.2 - 11.6
Abbott Cell-Dyn Emerald	94	3.89	0.32	8.2	3.8	2.9 - 4.9
ABX Diagnostics Micros/45/60	91	6.09	0.56	9.2	6.0	4.4 - 7.8
Boule (CDS) Medonic M series	107	10.68	1.35	12.7	10.6	6.6 - 14.8
COULTER AcT diff/diff 2	177	7.35	0.59	8.0	7.3	5.5 - 9.2
Drew Scientific D3	11	4.77	0.36	7.5	4.9	3.6 - 5.9

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

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	579	33.21	2.91	8.8	33.3	24.4 - 42.0	578	62.18	2.70	4.3	62.0	54.0 - 70.3
All Abbott Cell-Dyn Instruments	180	35.09	1.58	4.5	35.2	30.3 - 39.9	180	63.94	1.28	2.0	63.9	60.0 - 67.8
All ABX Instruments	90	35.58	1.84	5.2	35.9	30.0 - 41.1	89	65.68	1.23	1.9	65.8	62.0 - 69.4
All Boule (CDS) Instruments	116	30.26	3.58	11.8	30.1	19.5 - 41.1	114	60.19	2.04	3.4	60.6	54.0 - 66.4
All COULTER Instruments	179	31.82	1.27	4.0	31.9	28.0 - 35.7	179	59.94	0.98	1.6	59.9	56.9 - 62.9
All Danam/Drew Scientific Instruments	11	33.83	2.24	6.6	34.4	27.1 - 40.6	11	63.13	2.32	3.7	63.7	56.1 - 70.1
Abbott Cell-Dyn 1700	18	35.22	1.13	3.2	35.1	31.8 - 38.6	19	62.67	0.66	1.0	62.7	60.6 - 64.7
Abbott Cell-Dyn 1800	64	34.50	1.50	4.3	34.5	30.0 - 39.0	63	63.27	0.98	1.6	63.3	60.3 - 66.3
Abbott Cell-Dyn Emerald	96	35.53	1.52	4.3	35.8	30.9 - 40.1	96	64.63	1.13	1.8	64.9	61.2 - 68.1
ABX Diagnostics Micros/45/60	90	35.58	1.84	5.2	35.9	30.0 - 41.1	89	65.68	1.23	1.9	65.8	62.0 - 69.4
Boule (CDS) Medonic M series	108	30.62	3.37	11.0	30.2	20.5 - 40.8	107	60.50	1.68	2.8	60.7	55.4 - 65.6
COULTER AcT diff/diff 2	176	31.83	1.27	4.0	31.9	28.0 - 35.7	176	59.93	0.99	1.6	59.9	56.9 - 62.9
Drew Scientific D3	11	33.83	2.24	6.6	34.4	27.1 - 40.6	11	63.13	2.32	3.7	63.7	56.1 - 70.1

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

<u>Instrument</u>	Specimen HD-3						Specimen HD-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	580	82.07	1.91	2.3	81.8	76.3 - 87.8	579	33.66	2.92	8.7	33.7	24.8 - 42.5
All Abbott Cell-Dyn Instruments	181	83.13	1.25	1.5	83.2	79.3 - 86.9	180	35.74	1.81	5.1	35.9	30.3 - 41.2
All ABX Instruments	89	84.66	0.89	1.1	84.9	81.9 - 87.4	91	35.82	1.69	4.7	36.0	30.7 - 41.0
All Boule (CDS) Instruments	113	80.78	1.05	1.3	80.6	77.6 - 84.0	116	30.88	3.58	11.6	30.2	20.1 - 41.7
All COULTER Instruments	176	80.46	0.61	0.8	80.4	78.6 - 82.3	180	32.13	1.41	4.4	32.2	27.9 - 36.4
All Danam/Drew Scientific Instruments	11	83.71	1.45	1.7	84.1	79.3 - 88.1	11	34.91	1.36	3.9	35.3	30.8 - 39.0
Abbott Cell-Dyn 1700	18	82.35	0.81	1.0	82.5	79.9 - 84.8	19	35.54	2.92	8.2	35.4	26.7 - 44.3
Abbott Cell-Dyn 1800	61	82.44	0.72	0.9	82.4	80.2 - 84.7	63	35.50	1.71	4.8	35.7	30.3 - 40.7
Abbott Cell-Dyn Emerald	94	83.90	0.87	1.0	84.1	81.2 - 86.6	97	35.80	1.68	4.7	36.0	30.7 - 40.9
ABX Diagnostics Micros/45/60	89	84.66	0.89	1.1	84.9	81.9 - 87.4	91	35.82	1.69	4.7	36.0	30.7 - 41.0
Boule (CDS) Medonic M series	107	80.71	0.98	1.2	80.6	77.7 - 83.7	108	31.06	3.46	11.1	30.3	20.6 - 41.5
COULTER AcT diff/diff 2	173	80.45	0.60	0.7	80.4	78.6 - 82.3	177	32.14	1.41	4.4	32.2	27.9 - 36.4
Drew Scientific D3	11	83.71	1.45	1.7	84.1	79.3 - 88.1	11	34.91	1.36	3.9	35.3	30.8 - 39.0

Specimen HD-5						
All Method	580	62.13	2.76	4.4	62.0	53.8 - 70.5
All Abbott Cell-Dyn Instruments	179	63.96	1.27	2.0	64.0	60.1 - 67.8
All ABX Instruments	89	65.70	1.28	2.0	65.8	61.8 - 69.6
All Boule (CDS) Instruments	115	60.06	2.29	3.8	60.3	53.2 - 67.0
All COULTER Instruments	179	59.86	0.93	1.5	59.9	57.0 - 62.7
All Danam/Drew Scientific Instruments	11	62.91	2.75	4.4	63.7	54.6 - 71.2
Abbott Cell-Dyn 1700	19	62.56	1.35	2.2	62.7	58.5 - 66.7
Abbott Cell-Dyn 1800	62	63.31	1.00	1.6	63.4	60.3 - 66.4
Abbott Cell-Dyn Emerald	95	64.68	0.90	1.4	64.7	61.9 - 67.4
ABX Diagnostics Micros/45/60	89	65.70	1.28	2.0	65.8	61.8 - 69.6
Boule (CDS) Medonic M series	107	60.43	1.88	3.1	60.4	54.7 - 66.1
COULTER AcT diff/diff 2	176	59.86	0.92	1.5	59.9	57.0 - 62.7
Drew Scientific D3	11	62.91	2.75	4.4	63.7	54.6 - 71.2

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

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	3.73	0.21	5.7	3.8	3.1 - 4.3	12	9.60	0.24	2.6	9.7	8.1 - 11.1
All COULTER Instruments	12	3.73	0.21	5.7	3.8	3.1 - 4.3	12	9.60	0.24	2.6	9.7	8.1 - 11.1
COULTER UniCel DxH 600	10	3.72	0.08	2.2	3.7	3.1 - 4.3	10	9.80	0.01	0.0	9.8	8.3 - 11.3
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	21.61	0.51	2.4	21.8	18.3 - 24.9	12	3.80	0.24	6.4	3.8	3.2 - 4.4
All COULTER Instruments	12	21.61	0.51	2.4	21.8	18.3 - 24.9	12	3.80	0.24	6.4	3.8	3.2 - 4.4
COULTER UniCel DxH 600	10	21.72	0.26	1.2	21.8	18.4 - 25.0	10	3.80	0.16	4.2	3.8	3.2 - 4.4
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	9.63	0.32	3.3	9.6	8.1 - 11.1						
All COULTER Instruments	12	9.63	0.32	3.3	9.6	8.1 - 11.1						
COULTER UniCel DxH 600	10	9.88	0.19	1.9	9.9	8.3 - 11.4						

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

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	2.567	0.047	1.8	2.56	2.41 - 2.73	12	4.196	0.080	1.9	4.18	3.94 - 4.45
All COULTER Instruments	12	2.567	0.047	1.8	2.56	2.41 - 2.73	12	4.196	0.080	1.9	4.18	3.94 - 4.45
COULTER UniCel DxH 600	10	2.528	0.024	0.9	2.52	2.37 - 2.68	10	4.156	0.058	1.4	4.17	3.90 - 4.41
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	5.529	0.119	2.1	5.54	5.19 - 5.87	12	2.566	0.050	1.9	2.55	2.41 - 2.72
All COULTER Instruments	12	5.529	0.119	2.1	5.54	5.19 - 5.87	12	2.566	0.050	1.9	2.55	2.41 - 2.72
COULTER UniCel DxH 600	10	5.438	0.107	2.0	5.41	5.11 - 5.77	10	2.536	0.049	1.9	2.53	2.38 - 2.69
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	4.188	0.072	1.7	4.19	3.93 - 4.44						
All COULTER Instruments	12	4.188	0.072	1.7	4.19	3.93 - 4.44						
COULTER UniCel DxH 600	10	4.130	0.045	1.1	4.14	3.88 - 4.38						

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

Specimen DIF-1							Specimen DIF-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	6.02	0.14	2.3	6.0	5.5 - 6.5	12	11.48	0.17	1.5	11.5	10.6 - 12.3
All COULTER Instruments	12	6.02	0.14	2.3	6.0	5.5 - 6.5	12	11.48	0.17	1.5	11.5	10.6 - 12.3
COULTER UniCel DxH 600	10	5.92	0.04	0.8	5.9	5.5 - 6.4	10	11.42	0.08	0.7	11.4	10.6 - 12.3
Specimen DIF-3							Specimen DIF-4					
All Method	12	17.08	0.30	1.8	17.1	15.8 - 18.3	12	6.03	0.14	2.4	6.0	5.6 - 6.5
All COULTER Instruments	12	17.08	0.30	1.8	17.1	15.8 - 18.3	12	6.03	0.14	2.4	6.0	5.6 - 6.5
COULTER UniCel DxH 600	10	16.90	0.19	1.1	16.9	15.7 - 18.1	10	5.92	0.04	0.8	5.9	5.5 - 6.4
Specimen DIF-5												
All Method	12	11.48	0.18	1.6	11.5	10.6 - 12.3						
All COULTER Instruments	12	11.48	0.18	1.6	11.5	10.6 - 12.3						
COULTER UniCel DxH 600	10	11.40	0.10	0.9	11.4	10.6 - 12.2						

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

Specimen DIF-1							Specimen DIF-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	18.88	0.35	1.8	18.9	17.7 - 20.1	12	36.23	0.88	2.4	36.2	34.0 - 38.5
All COULTER Instruments	12	18.88	0.35	1.8	18.9	17.7 - 20.1	12	36.23	0.88	2.4	36.2	34.0 - 38.5
COULTER UniCel DxH 600	10	19.08	0.19	1.0	19.1	17.9 - 20.3	10	36.74	0.63	1.7	36.8	34.5 - 39.0
Specimen DIF-3							Specimen DIF-4					
All Method	12	55.86	0.91	1.6	55.7	52.5 - 59.3	12	18.93	0.35	1.9	19.0	17.7 - 20.1
All COULTER Instruments	12	55.86	0.91	1.6	55.7	52.5 - 59.3	12	18.93	0.35	1.9	19.0	17.7 - 20.1
COULTER UniCel DxH 600	10	56.18	1.02	1.8	55.7	52.8 - 59.6	10	19.16	0.25	1.3	19.1	18.0 - 20.4
Specimen DIF-5												
All Method	12	36.41	0.83	2.3	36.5	34.2 - 38.6						
All COULTER Instruments	12	36.41	0.83	2.3	36.5	34.2 - 38.6						
COULTER UniCel DxH 600	10	36.94	0.90	2.4	36.5	34.7 - 39.2						

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

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	78.1	6.9	8.8	77	58 - 98	12	247.8	10.4	4.2	247	185 - 310
All COULTER Instruments	12	78.1	6.9	8.8	77	58 - 98	12	247.8	10.4	4.2	247	185 - 310
COULTER UniCel DxH 600	10	72.6	2.7	3.7	73	54 - 91	10	241.2	6.5	2.7	242	180 - 302
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	418.3	37.6	9.0	404	313 - 523	12	76.7	5.2	6.8	76	57 - 96
All COULTER Instruments	12	418.3	37.6	9.0	404	313 - 523	12	76.7	5.2	6.8	76	57 - 96
COULTER UniCel DxH 600	10	384.6	7.3	1.9	387	288 - 481	10	73.2	1.8	2.4	73	54 - 92
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	251.1	11.4	4.5	248	188 - 314						
All COULTER Instruments	12	251.1	11.4	4.5	248	188 - 314						
COULTER UniCel DxH 600	10	243.8	4.0	1.7	246	182 - 305						

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

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	54.34	2.88	5.3	54.9	45.7 - 63.0	11	61.45	2.76	4.5	61.5	53.1 - 69.8
All COULTER Instruments	12	54.34	2.88	5.3	54.9	45.7 - 63.0	11	61.45	2.76	4.5	61.5	53.1 - 69.8
COULTER UniCel DxH 600	10	56.20	0.84	1.5	56.1	53.6 - 58.8	10	62.94	2.04	3.2	63.4	56.8 - 69.1
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	72.48	1.48	2.0	72.6	68.0 - 77.0	12	54.38	4.09	7.5	52.8	42.1 - 66.7
All COULTER Instruments	12	72.48	1.48	2.0	72.6	68.0 - 77.0	12	54.38	4.09	7.5	52.8	42.1 - 66.7
COULTER UniCel DxH 600	10	71.60	1.00	1.4	71.9	68.6 - 74.6	10	57.16	2.94	5.2	57.6	48.3 - 66.0
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	61.06	2.21	3.6	61.0	54.4 - 67.7						
All COULTER Instruments	11	61.06	2.21	3.6	61.0	54.4 - 67.7						
COULTER UniCel DxH 600	10	62.20	1.51	2.4	62.6	57.6 - 66.8						

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

Specimen DIF-1							Specimen DIF-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	35.03	4.52	12.9	35.4	21.4 - 48.6	12	28.18	2.53	9.0	28.6	20.5 - 35.8
All COULTER Instruments	12	35.03	4.52	12.9	35.4	21.4 - 48.6	12	28.18	2.53	9.0	28.6	20.5 - 35.8
COULTER UniCel DxH 600	10	31.70	3.04	9.6	33.1	22.5 - 40.9	10	26.88	3.06	11.4	28.3	17.6 - 36.1
Specimen DIF-3							Specimen DIF-4					
All Method	12	19.90	1.35	6.8	19.8	15.8 - 24.0	12	34.74	5.17	14.9	36.4	19.2 - 50.3
All COULTER Instruments	12	19.90	1.35	6.8	19.8	15.8 - 24.0	12	34.74	5.17	14.9	36.4	19.2 - 50.3
COULTER UniCel DxH 600	10	21.00	1.21	5.7	21.1	17.3 - 24.7	10	31.16	3.98	12.8	30.5	19.2 - 43.2
Specimen DIF-5												
All Method	12	27.84	3.01	10.8	28.3	18.7 - 36.9						
All COULTER Instruments	12	27.84	3.01	10.8	28.3	18.7 - 36.9						
COULTER UniCel DxH 600	10	27.78	3.30	11.9	28.0	17.8 - 37.7						

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

Specimen DIF-1							Specimen DIF-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	3.58	1.41	39.4	3.2	0.0 - 7.9	11	3.98	1.94	48.7	4.3	0.0 - 9.8
All COULTER Instruments	12	3.58	1.41	39.4	3.2	0.0 - 7.9	11	3.98	1.94	48.7	4.3	0.0 - 9.8
COULTER UniCel DxH 600	10	4.06	2.17	53.5	3.1	0.0 - 10.6	10	3.28	2.07	63.2	2.1	0.0 - 9.5
Specimen DIF-3							Specimen DIF-4					
All Method	12	2.41	1.38	57.3	2.1	0.0 - 6.6	12	3.16	0.58	18.3	3.2	1.4 - 4.9
All COULTER Instruments	12	2.41	1.38	57.3	2.1	0.0 - 6.6	12	3.16	0.58	18.3	3.2	1.4 - 4.9
COULTER UniCel DxH 600	10	2.36	1.35	57.4	2.6	0.0 - 6.5	10	3.26	0.73	22.3	3.2	1.0 - 5.5
Specimen DIF-5												
All Method	11	4.22	1.67	39.7	4.5	0.0 - 9.3						
All COULTER Instruments	11	4.22	1.67	39.7	4.5	0.0 - 9.3						
COULTER UniCel DxH 600	10	3.44	2.16	62.8	2.1	0.0 - 10.0						

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

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	6.78	1.18	17.4	6.8	3.2 - 10.4	12	5.62	1.70	30.2	6.2	0.5 - 10.8
All COULTER Instruments	12	6.78	1.18	17.4	6.8	3.2 - 10.4	12	5.62	1.70	30.2	6.2	0.5 - 10.8
COULTER UniCel DxH 600	10	7.72	0.38	5.0	7.8	6.5 - 8.9	10	6.72	0.36	5.3	6.7	5.6 - 7.8
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	4.98	0.43	8.7	5.0	3.6 - 6.3	12	7.16	1.17	16.3	7.5	3.6 - 10.7
All COULTER Instruments	12	4.98	0.43	8.7	5.0	3.6 - 6.3	12	7.16	1.17	16.3	7.5	3.6 - 10.7
COULTER UniCel DxH 600	10	4.96	0.11	2.3	5.0	4.6 - 5.4	10	8.12	0.63	7.8	7.9	6.2 - 10.1
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	5.64	1.78	31.5	6.2	0.3 - 11.0						
All COULTER Instruments	12	5.64	1.78	31.5	6.2	0.3 - 11.0						
COULTER UniCel DxH 600	10	6.58	0.36	5.5	6.7	5.4 - 7.7						

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

<u>Instrument</u>	Specimen DIF-1						Specimen DIF-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	0.26	0.20	78.2	0.2	0.0 - 0.9	12	0.75	1.04	139.2	0.3	0.0 - 3.9
All COULTER Instruments	12	0.26	0.20	78.2	0.2	0.0 - 0.9	12	0.75	1.04	139.2	0.3	0.0 - 3.9
COULTER UniCel DxH 600	10	0.28	0.26	92.4	0.2	0.0 - 1.1	10	0.28	0.57	204.2	0.0	0.0 - 2.0
	Specimen DIF-3						Specimen DIF-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	0.23	0.27	114.6	0.1	0.0 - 1.1	12	0.56	0.81	144.6	0.3	0.0 - 3.0
All COULTER Instruments	12	0.23	0.27	114.6	0.1	0.0 - 1.1	12	0.56	0.81	144.6	0.3	0.0 - 3.0
COULTER UniCel DxH 600	10	0.08	0.13	163.0	0.0	0.0 - 0.5	10	0.30	0.45	150.9	0.1	0.0 - 1.7
	Specimen DIF-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	1.17	1.82	155.9	0.2	0.0 - 6.7						
All COULTER Instruments	12	1.17	1.82	155.9	0.2	0.0 - 6.7						
COULTER UniCel DxH 600	10	0.00	0.01	0.0	0.0	0.0 - 0.1						

BLOOD LEAD (µg/dL)

<u>Instrument</u>	Specimen LED-1						Specimen LED-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	42.33	3.61	8.5	42.5	38.0 - 46.6	22	5.27	1.05	20.0	5.5	1.2 - 9.3
All Magellan Diagnostics Methods	21	42.33	3.61	8.5	42.5	38.0 - 46.6	22	5.27	1.05	20.0	5.5	1.2 - 9.3
Magellan Diagnostics LeadCare II	21	42.33	3.61	8.5	42.5	38.0 - 46.6	22	5.27	1.05	20.0	5.5	1.2 - 9.3
	Specimen LED-3						Specimen LED-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	15.50	0.71	4.6	15.5	11.5 - 19.5	5	43.45	1.06	2.4	43.5	39.1 - 47.8
All Magellan Diagnostics Methods	5	15.50	0.71	4.6	15.5	11.5 - 19.5	5	43.45	1.06	2.4	43.5	39.1 - 47.8
	Specimen LED-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	5.75	1.34	23.4	5.8	1.7 - 9.8						
All Magellan Diagnostics Methods	5	5.75	1.34	23.4	5.8	1.7 - 9.8						

RETICULOCYTE COUNT (percent)

<u>Instrument</u>	Specimen RT-1						Specimen RT-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	8.45	1.69	20.0	8.4	5.0 - 11.9	32	3.83	0.83	21.6	3.6	2.1 - 5.5
All Automated Methods	18	7.71	1.07	13.9	7.9	5.3 - 10.1	18	3.54	0.48	13.6	3.5	2.4 - 4.7
All Manual Methods	14	9.40	1.89	20.1	9.8	5.6 - 13.2	14	4.21	1.03	24.5	4.0	2.1 - 6.3
Sysmex XN-1000	10	7.35	0.75	10.3	7.6	5.1 - 9.6	10	3.41	0.38	11.2	3.3	2.3 - 4.5

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

<u><i>Instrument</i></u>	Specimen BCX-1						Specimen BCX-2					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	121	9.54	0.21	2.2	9.5	8.1 - 11.0	121	19.62	0.47	2.4	19.6	16.6 - 22.6
All ABX Instruments	79	9.52	0.19	2.0	9.5	8.0 - 11.0	79	19.55	0.41	2.1	19.6	16.6 - 22.5
All COULTER Instruments	43	9.57	0.25	2.6	9.6	8.1 - 11.1	43	19.80	0.58	2.9	19.8	16.8 - 22.8
ABX Diagnostics Pentra 60C+	68	9.54	0.20	2.1	9.5	8.1 - 11.0	68	19.63	0.36	1.8	19.6	16.6 - 22.6
ABX Diagnostics Pentra 80 / XL 80	11	9.44	0.16	1.7	9.4	8.0 - 10.9	11	19.07	0.38	2.0	19.1	16.2 - 22.0
COULTER AcT 5diff	43	9.57	0.25	2.6	9.6	8.1 - 11.1	43	19.80	0.58	2.9	19.8	16.8 - 22.8
	Specimen BCX-3						Specimen BCX-4					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	121	4.84	0.13	2.6	4.8	4.1 - 5.6	123	7.23	0.18	2.5	7.2	6.1 - 8.4
All ABX Instruments	79	4.82	0.12	2.4	4.8	4.0 - 5.6	80	7.19	0.16	2.2	7.2	6.1 - 8.3
All COULTER Instruments	41	4.85	0.12	2.6	4.9	4.1 - 5.6	43	7.30	0.19	2.6	7.3	6.2 - 8.4
ABX Diagnostics Pentra 60C+	68	4.82	0.12	2.5	4.8	4.0 - 5.6	69	7.19	0.17	2.3	7.2	6.1 - 8.3
ABX Diagnostics Pentra 80 / XL 80	11	4.85	0.09	1.9	4.8	4.1 - 5.6	11	7.19	0.10	1.5	7.2	6.1 - 8.3
COULTER AcT 5diff	41	4.85	0.12	2.6	4.9	4.1 - 5.6	43	7.30	0.19	2.6	7.3	6.2 - 8.4
	Specimen BCX-5											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	123	15.90	0.42	2.6	15.9	13.5 - 18.3						
All ABX Instruments	80	15.82	0.39	2.5	15.8	13.4 - 18.2						
All COULTER Instruments	43	16.06	0.42	2.6	16.1	13.6 - 18.5						
ABX Diagnostics Pentra 60C+	69	15.89	0.35	2.2	15.8	13.5 - 18.3						
ABX Diagnostics Pentra 80 / XL 80	11	15.35	0.27	1.8	15.4	13.0 - 17.7						
COULTER AcT 5diff	43	16.06	0.42	2.6	16.1	13.6 - 18.5						

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

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	122	2.531	0.044	1.7	2.53	2.37 - 2.69	122	4.944	0.075	1.5	4.94	4.64 - 5.25
All ABX Instruments	79	2.526	0.045	1.8	2.52	2.37 - 2.68	79	4.943	0.078	1.6	4.94	4.64 - 5.24
All COULTER Instruments	42	2.544	0.036	1.4	2.54	2.39 - 2.70	43	4.947	0.071	1.4	4.94	4.64 - 5.25
ABX Diagnostics Pentra 60C+	68	2.533	0.044	1.7	2.53	2.38 - 2.69	68	4.943	0.079	1.6	4.94	4.64 - 5.24
ABX Diagnostics Pentra 80 / XL 80	11	2.485	0.032	1.3	2.49	2.33 - 2.64	11	4.940	0.069	1.4	4.93	4.64 - 5.24
COULTER AcT 5diff	42	2.544	0.036	1.4	2.54	2.39 - 2.70	43	4.947	0.071	1.4	4.94	4.64 - 5.25
	Specimen BCX-3						Specimen BCX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	121	4.863	0.073	1.5	4.86	4.57 - 5.16	121	5.999	0.088	1.5	5.99	5.63 - 6.36
All ABX Instruments	79	4.861	0.074	1.5	4.86	4.56 - 5.16	78	6.005	0.093	1.6	6.00	5.64 - 6.37
All COULTER Instruments	41	4.861	0.063	1.3	4.86	4.56 - 5.16	43	5.987	0.079	1.3	5.99	5.62 - 6.35
ABX Diagnostics Pentra 60C+	68	4.861	0.075	1.5	4.86	4.56 - 5.16	67	5.998	0.093	1.5	5.99	5.63 - 6.36
ABX Diagnostics Pentra 80 / XL 80	11	4.859	0.073	1.5	4.86	4.56 - 5.16	11	6.047	0.088	1.4	6.04	5.68 - 6.42
COULTER AcT 5diff	41	4.861	0.063	1.3	4.86	4.56 - 5.16	43	5.987	0.079	1.3	5.99	5.62 - 6.35
	Specimen BCX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	122	4.225	0.062	1.5	4.23	3.97 - 4.48						
All ABX Instruments	79	4.223	0.068	1.6	4.23	3.96 - 4.48						
All COULTER Instruments	43	4.227	0.050	1.2	4.24	3.97 - 4.49						
ABX Diagnostics Pentra 60C+	68	4.229	0.070	1.7	4.24	3.97 - 4.49						
ABX Diagnostics Pentra 80 / XL 80	11	4.190	0.046	1.1	4.19	3.93 - 4.45						
COULTER AcT 5diff	43	4.227	0.050	1.2	4.24	3.97 - 4.49						

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

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	121	7.47	0.13	1.8	7.5	6.9 - 8.0	122	15.83	0.22	1.4	15.8	14.7 - 17.0
All ABX Instruments	78	7.41	0.10	1.4	7.4	6.8 - 8.0	79	15.86	0.20	1.3	15.9	14.7 - 17.0
All COULTER Instruments	43	7.59	0.11	1.4	7.6	7.0 - 8.2	43	15.77	0.23	1.4	15.8	14.6 - 16.9
ABX Diagnostics Pentra 60C+	67	7.41	0.10	1.4	7.4	6.8 - 8.0	68	15.85	0.20	1.3	15.9	14.7 - 17.0
ABX Diagnostics Pentra 80 / XL 80	11	7.40	0.10	1.4	7.4	6.8 - 8.0	11	15.92	0.21	1.3	15.9	14.8 - 17.1
COULTER AcT 5diff	43	7.59	0.11	1.4	7.6	7.0 - 8.2	43	15.77	0.23	1.4	15.8	14.6 - 16.9
Specimen BCX-3							Specimen BCX-4					
All Method	121	14.45	0.17	1.1	14.5	13.4 - 15.5	121	19.45	0.29	1.5	19.4	18.0 - 20.9
All ABX Instruments	78	14.45	0.16	1.1	14.5	13.4 - 15.5	79	19.55	0.26	1.3	19.5	18.1 - 21.0
All COULTER Instruments	43	14.44	0.17	1.2	14.5	13.4 - 15.5	41	19.24	0.22	1.1	19.3	17.8 - 20.6
ABX Diagnostics Pentra 60C+	67	14.45	0.16	1.1	14.4	13.4 - 15.5	68	19.52	0.25	1.3	19.5	18.1 - 20.9
ABX Diagnostics Pentra 80 / XL 80	11	14.47	0.17	1.2	14.5	13.4 - 15.5	11	19.69	0.24	1.2	19.7	18.3 - 21.1
COULTER AcT 5diff	43	14.44	0.17	1.2	14.5	13.4 - 15.5	41	19.24	0.22	1.1	19.3	17.8 - 20.6
Specimen BCX-5												
All Method	120	11.08	0.13	1.1	11.1	10.3 - 11.9						
All ABX Instruments	79	11.05	0.13	1.2	11.1	10.2 - 11.9						
All COULTER Instruments	42	11.14	0.12	1.1	11.1	10.3 - 12.0						
ABX Diagnostics Pentra 60C+	68	11.05	0.13	1.2	11.1	10.2 - 11.9						
ABX Diagnostics Pentra 80 / XL 80	11	11.05	0.12	1.1	11.1	10.2 - 11.9						
COULTER AcT 5diff	42	11.14	0.12	1.1	11.1	10.3 - 12.0						

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

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	121	21.28	0.40	1.9	21.2	20.0 - 22.6	122	44.31	0.81	1.8	44.3	41.6 - 47.0
All ABX Instruments	78	21.31	0.41	1.9	21.2	20.0 - 22.6	78	44.38	0.73	1.6	44.4	41.7 - 47.1
All COULTER Instruments	43	21.22	0.39	1.8	21.1	19.9 - 22.5	43	44.23	0.89	2.0	44.1	41.5 - 46.9
ABX Diagnostics Pentra 60C+	67	21.28	0.39	1.8	21.2	20.0 - 22.6	68	44.40	0.71	1.6	44.3	41.7 - 47.1
ABX Diagnostics Pentra 80 / XL 80	11	21.51	0.45	2.1	21.4	20.2 - 22.8	11	44.08	1.07	2.4	44.4	41.4 - 46.8
COULTER AcT 5diff	43	21.22	0.39	1.8	21.1	19.9 - 22.5	43	44.23	0.89	2.0	44.1	41.5 - 46.9
	Specimen BCX-3						Specimen BCX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	120	40.91	0.67	1.6	40.9	38.4 - 43.4	122	54.21	0.96	1.8	54.1	50.9 - 57.5
All ABX Instruments	78	41.00	0.64	1.6	41.0	38.5 - 43.5	78	54.33	0.85	1.6	54.2	51.0 - 57.6
All COULTER Instruments	42	40.75	0.68	1.7	40.7	38.3 - 43.2	43	54.05	1.07	2.0	53.8	50.8 - 57.3
ABX Diagnostics Pentra 60C+	68	41.01	0.66	1.6	41.0	38.5 - 43.5	68	54.40	0.84	1.5	54.4	51.1 - 57.7
ABX Diagnostics Pentra 80 / XL 80	11	40.69	0.82	2.0	40.9	38.2 - 43.2	11	53.64	0.99	1.8	53.8	50.4 - 56.9
COULTER AcT 5diff	42	40.75	0.68	1.7	40.7	38.3 - 43.2	43	54.05	1.07	2.0	53.8	50.8 - 57.3
	Specimen BCX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	123	32.27	0.57	1.8	32.3	30.3 - 34.3						
All ABX Instruments	80	32.32	0.57	1.8	32.3	30.3 - 34.3						
All COULTER Instruments	43	32.17	0.56	1.7	32.0	30.2 - 34.1						
ABX Diagnostics Pentra 60C+	69	32.33	0.58	1.8	32.3	30.3 - 34.3						
ABX Diagnostics Pentra 80 / XL 80	11	32.25	0.56	1.8	32.4	30.3 - 34.2						
COULTER AcT 5diff	43	32.17	0.56	1.7	32.0	30.2 - 34.1						

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

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	122	77.7	4.8	6.2	78	58 - 98	121	465.2	16.3	3.5	465	348 - 582
All ABX Instruments	79	76.4	4.6	6.0	76	57 - 96	78	466.7	15.9	3.4	467	350 - 584
All COULTER Instruments	43	80.1	4.2	5.3	81	60 - 101	43	462.4	16.9	3.7	460	346 - 578
ABX Diagnostics Pentra 60C+	68	76.4	4.3	5.7	76	57 - 96	67	467.2	15.8	3.4	467	350 - 585
ABX Diagnostics Pentra 80 / XL 80	11	76.2	6.1	8.0	75	57 - 96	11	463.6	16.9	3.7	467	347 - 580
COULTER AcT 5diff	43	80.1	4.2	5.3	81	60 - 101	43	462.4	16.9	3.7	460	346 - 578
Specimen BCX-3							Specimen BCX-4					
All Method	122	153.2	7.5	4.9	153	114 - 192	121	302.8	12.4	4.1	303	227 - 379
All ABX Instruments	79	152.5	7.4	4.8	153	114 - 191	78	302.8	12.7	4.2	303	227 - 379
All COULTER Instruments	43	154.5	7.8	5.0	154	115 - 194	43	302.8	12.1	4.0	302	227 - 379
ABX Diagnostics Pentra 60C+	68	151.7	7.2	4.8	152	113 - 190	68	302.0	12.1	4.0	302	226 - 378
ABX Diagnostics Pentra 80 / XL 80	11	157.4	6.7	4.2	158	118 - 197	10	308.3	16.0	5.2	310	231 - 386
COULTER AcT 5diff	43	154.5	7.8	5.0	154	115 - 194	43	302.8	12.1	4.0	302	227 - 379
Specimen BCX-5												
All Method	122	218.7	8.4	3.8	219	164 - 274						
All ABX Instruments	79	218.6	8.1	3.7	219	163 - 274						
All COULTER Instruments	43	218.8	8.8	4.0	219	164 - 274						
ABX Diagnostics Pentra 60C+	68	218.5	8.3	3.8	219	163 - 274						
ABX Diagnostics Pentra 80 / XL 80	11	219.3	7.5	3.4	218	164 - 275						
COULTER AcT 5diff	43	218.8	8.8	4.0	219	164 - 274						

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

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	122	54.24	3.70	6.8	54.7	43.1 - 65.4	121	75.27	5.59	7.4	76.8	58.4 - 92.1
All ABX Instruments	78	55.41	3.25	5.9	56.0	45.6 - 65.2	76	78.88	2.69	3.4	79.1	70.8 - 87.0
All COULTER Instruments	43	52.35	3.41	6.5	53.0	42.1 - 62.6	43	69.24	3.60	5.2	69.7	58.4 - 80.1
ABX Diagnostics Pentra 60C+	68	56.06	2.66	4.7	56.3	48.0 - 64.1	68	79.14	2.59	3.3	79.3	71.3 - 87.0
ABX Diagnostics Pentra 80 / XL 80	11	50.43	3.97	7.9	49.7	38.5 - 62.4	10	74.87	4.39	5.9	75.3	61.7 - 88.1
COULTER AcT 5diff	43	52.35	3.41	6.5	53.0	42.1 - 62.6	43	69.24	3.60	5.2	69.7	58.4 - 80.1
	Specimen BCX-3						Specimen BCX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	123	46.26	2.86	6.2	46.6	37.6 - 54.9	123	56.92	4.38	7.7	56.8	43.7 - 70.1
All ABX Instruments	80	47.25	2.68	5.7	47.3	39.2 - 55.3	79	59.04	3.33	5.6	59.5	49.0 - 69.1
All COULTER Instruments	43	44.43	2.25	5.1	44.2	37.6 - 51.2	43	53.30	3.16	5.9	54.0	43.8 - 62.8
ABX Diagnostics Pentra 60C+	69	47.63	2.43	5.1	47.5	40.3 - 55.0	69	59.53	2.90	4.9	59.7	50.8 - 68.3
ABX Diagnostics Pentra 80 / XL 80	11	44.85	3.03	6.8	45.3	35.7 - 54.0	11	54.77	5.14	9.4	54.9	39.3 - 70.2
COULTER AcT 5diff	43	44.43	2.25	5.1	44.2	37.6 - 51.2	43	53.30	3.16	5.9	54.0	43.8 - 62.8
	Specimen BCX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	122	71.35	4.73	6.6	72.3	57.1 - 85.6						
All ABX Instruments	78	74.19	2.93	4.0	74.7	65.3 - 83.0						
All COULTER Instruments	42	66.45	2.63	4.0	66.9	58.5 - 74.4						
ABX Diagnostics Pentra 60C+	67	74.88	2.22	3.0	75.1	68.2 - 81.6						
ABX Diagnostics Pentra 80 / XL 80	11	69.36	4.12	5.9	69.2	57.0 - 81.8						
COULTER AcT 5diff	42	66.45	2.63	4.0	66.9	58.5 - 74.4						

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

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	121	34.60	3.98	11.5	34.5	22.6 - 46.6	118	17.59	2.61	14.8	17.5	9.7 - 25.5
All ABX Instruments	78	36.07	3.42	9.5	35.8	25.8 - 46.4	76	17.68	2.57	14.5	17.6	9.9 - 25.4
All COULTER Instruments	43	31.93	3.53	11.0	31.4	21.3 - 42.6	43	17.63	2.98	16.9	16.9	8.6 - 26.6
ABX Diagnostics Pentra 60C+	68	35.35	2.65	7.5	35.5	27.3 - 43.4	68	17.50	2.54	14.5	17.5	9.8 - 25.2
ABX Diagnostics Pentra 80 / XL 80	11	41.56	4.52	10.9	43.4	27.9 - 55.2	10	21.10	4.53	21.5	20.2	7.5 - 34.7
COULTER AcT 5diff	43	31.93	3.53	11.0	31.4	21.3 - 42.6	43	17.63	2.98	16.9	16.9	8.6 - 26.6
	Specimen BCX-3						Specimen BCX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	121	41.42	3.56	8.6	41.5	30.7 - 52.1	121	33.32	3.26	9.8	33.4	23.5 - 43.2
All ABX Instruments	79	43.03	3.01	7.0	42.8	34.0 - 52.1	78	33.51	3.37	10.1	33.8	23.4 - 43.7
All COULTER Instruments	42	38.39	2.33	6.1	38.1	31.3 - 45.4	42	32.75	2.74	8.4	32.5	24.5 - 41.0
ABX Diagnostics Pentra 60C+	68	42.55	2.66	6.2	42.3	34.5 - 50.6	69	33.18	3.28	9.9	33.6	23.3 - 43.1
ABX Diagnostics Pentra 80 / XL 80	11	46.00	3.44	7.5	44.8	35.6 - 56.4	11	38.10	5.41	14.2	38.3	21.8 - 54.4
COULTER AcT 5diff	42	38.39	2.33	6.1	38.1	31.3 - 45.4	42	32.75	2.74	8.4	32.5	24.5 - 41.0
	Specimen BCX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	118	18.45	2.63	14.3	18.1	10.5 - 26.4						
All ABX Instruments	77	18.58	2.59	13.9	18.4	10.8 - 26.4						
All COULTER Instruments	42	18.40	3.01	16.4	18.1	9.3 - 27.5						
ABX Diagnostics Pentra 60C+	68	18.17	2.21	12.2	18.0	11.5 - 24.8						
ABX Diagnostics Pentra 80 / XL 80	10	22.68	4.13	18.2	23.1	10.2 - 35.1						
COULTER AcT 5diff	42	18.40	3.01	16.4	18.1	9.3 - 27.5						

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

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	122	2.07	0.96	46.7	1.9	0.0 - 5.0	120	1.34	0.94	70.5	1.0	0.0 - 4.2
All ABX Instruments	77	1.56	0.59	37.9	1.5	0.0 - 3.4	77	0.87	0.44	50.0	0.8	0.0 - 2.2
All COULTER Instruments	43	2.87	0.85	29.6	2.7	0.3 - 5.5	42	2.25	1.17	52.0	2.2	0.0 - 5.8
ABX Diagnostics Pentra 60C+	66	1.55	0.53	34.2	1.5	0.0 - 3.2	67	0.87	0.42	48.1	0.8	0.0 - 2.2
ABX Diagnostics Pentra 80 / XL 80	11	1.65	0.91	55.3	1.5	0.0 - 4.4	11	1.05	0.83	79.6	0.8	0.0 - 3.6

COULTER AcT 5diff	43	2.87	0.85	29.6	2.7	0.3 - 5.5	42	2.25	1.17	52.0	2.2	0.0 - 5.8
Specimen BCX-3							Specimen BCX-4					
All Method	122	1.49	0.63	42.3	1.4	0.0 - 3.4	118	1.18	0.59	49.6	1.1	0.0 - 3.0
All ABX Instruments	79	1.24	0.54	43.7	1.2	0.0 - 2.9	76	1.00	0.47	46.6	0.9	0.0 - 2.4
All COULTER Instruments	43	1.94	0.52	26.7	2.0	0.3 - 3.5	42	1.55	0.72	46.4	1.5	0.0 - 3.7
ABX Diagnostics Pentra 60C+	69	1.30	0.54	41.4	1.2	0.0 - 3.0	66	1.01	0.47	46.8	1.0	0.0 - 2.5
ABX Diagnostics Pentra 80 / XL 80	11	1.05	0.92	87.3	1.0	0.0 - 3.9	11	1.16	0.88	75.4	0.9	0.0 - 3.8
COULTER AcT 5diff	43	1.94	0.52	26.7	2.0	0.3 - 3.5	42	1.55	0.72	46.4	1.5	0.0 - 3.7
Specimen BCX-5												
All Method	117	0.58	0.33	57.3	0.5	0.0 - 1.6						
All ABX Instruments	77	0.45	0.22	49.2	0.4	0.0 - 1.2						
All COULTER Instruments	43	0.97	0.59	61.2	0.8	0.0 - 2.8						
ABX Diagnostics Pentra 60C+	68	0.47	0.22	47.1	0.4	0.0 - 1.2						
ABX Diagnostics Pentra 80 / XL 80	11	0.55	0.51	93.3	0.3	0.0 - 2.1						
COULTER AcT 5diff	43	0.97	0.59	61.2	0.8	0.0 - 2.8						

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

Specimen BCX-1							Specimen BCX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	121	6.11	0.99	16.3	6.1	3.1 - 9.1	118	2.06	0.50	24.5	2.0	0.5 - 3.6
All ABX Instruments	78	6.31	1.00	15.9	6.3	3.2 - 9.4	77	1.91	0.50	26.4	1.8	0.3 - 3.5
All COULTER Instruments	43	5.76	0.88	15.3	5.6	3.1 - 8.4	41	2.33	0.37	16.0	2.4	1.2 - 3.5
ABX Diagnostics Pentra 60C+	68	6.40	0.97	15.2	6.5	3.4 - 9.4	68	1.88	0.50	26.3	1.7	0.3 - 3.4
ABX Diagnostics Pentra 80 / XL 80	10	5.65	1.01	17.8	5.8	2.6 - 8.7	11	2.49	0.96	38.5	2.2	0.0 - 5.4
COULTER AcT 5diff	43	5.76	0.88	15.3	5.6	3.1 - 8.4	41	2.33	0.37	16.0	2.4	1.2 - 3.5
Specimen BCX-3							Specimen BCX-4					
All Method	121	7.62	1.19	15.6	7.5	4.0 - 11.2	120	5.27	1.40	26.5	5.2	1.0 - 9.5
All ABX Instruments	79	8.01	1.18	14.8	8.0	4.4 - 11.6	78	5.59	1.21	21.7	5.5	1.9 - 9.3
All COULTER Instruments	42	6.90	0.80	11.6	7.1	4.4 - 9.4	42	4.69	1.54	32.8	4.0	0.0 - 9.4
ABX Diagnostics Pentra 60C+	68	8.06	1.13	14.0	8.1	4.6 - 11.5	68	5.66	1.20	21.2	5.6	2.0 - 9.3
ABX Diagnostics Pentra 80 / XL 80	11	7.67	1.49	19.4	7.0	3.2 - 12.2	10	5.10	1.26	24.8	4.9	1.3 - 8.9
COULTER AcT 5diff	42	6.90	0.80	11.6	7.1	4.4 - 9.4	42	4.69	1.54	32.8	4.0	0.0 - 9.4
Specimen BCX-5												
All Method	123	6.08	0.89	14.6	6.1	3.4 - 8.8						
All ABX Instruments	79	6.01	0.83	13.9	6.0	3.5 - 8.6						
All COULTER Instruments	43	6.17	0.90	14.5	6.2	3.4 - 8.9						
ABX Diagnostics Pentra 60C+	68	5.98	0.81	13.6	6.0	3.5 - 8.5						
ABX Diagnostics Pentra 80 / XL 80	11	6.16	0.98	15.9	6.3	3.2 - 9.2						
COULTER AcT 5diff	43	6.17	0.90	14.5	6.2	3.4 - 8.9						

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

<u>Instrument</u>	Specimen BCX-1						Specimen BCX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	79	0.35	0.05	14.1	0.4	0.2 - 0.6	78	0.43	0.05	10.7	0.5	0.2 - 0.6
All ABX Instruments	79	0.35	0.05	14.1	0.4	0.2 - 0.6	78	0.43	0.05	10.7	0.4	0.2 - 0.6
All COULTER Instruments	43	7.08	0.35	5.0	7.1	6.0 - 8.2	41	8.53	0.54	6.3	8.5	6.9 - 10.2
ABX Diagnostics Pentra 60C+	68	0.35	0.05	14.2	0.4	0.2 - 0.6	67	0.43	0.05	10.9	0.4	0.2 - 0.6
ABX Diagnostics Pentra 80 / XL 80	11	0.35	0.05	14.7	0.4	0.1 - 0.6	10	0.40	0.01	0.0	0.4	0.3 - 0.5
COULTER AcT 5diff	43	7.08	0.35	5.0	7.1	6.0 - 8.2	41	8.53	0.54	6.3	8.5	6.9 - 10.2
	Specimen BCX-3						Specimen BCX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	78	0.41	0.03	7.4	0.4	0.3 - 0.6	73	0.40	0.01	0.0	0.4	0.3 - 0.5
All ABX Instruments	78	0.41	0.03	7.4	0.4	0.3 - 0.6	73	0.40	0.01	0.0	0.4	0.3 - 0.5
All COULTER Instruments	43	8.39	0.44	5.2	8.4	7.0 - 9.8	43	7.42	0.50	6.8	7.4	5.9 - 9.0
ABX Diagnostics Pentra 60C+	67	0.41	0.03	7.0	0.4	0.3 - 0.5	64	0.40	0.01	0.0	0.4	0.3 - 0.5
ABX Diagnostics Pentra 80 / XL 80	11	0.42	0.04	9.7	0.4	0.2 - 0.6	10	0.39	0.03	8.1	0.4	0.2 - 0.5
COULTER AcT 5diff	43	8.39	0.44	5.2	8.4	7.0 - 9.8	43	7.42	0.50	6.8	7.4	5.9 - 9.0
	Specimen BCX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	79	0.42	0.04	10.1	0.5	0.2 - 0.6						
All ABX Instruments	79	0.42	0.04	10.1	0.4	0.2 - 0.6						
All COULTER Instruments	43	8.35	0.55	6.5	8.3	6.7 - 10.0						
ABX Diagnostics Pentra 60C+	68	0.43	0.05	10.6	0.4	0.2 - 0.6						
ABX Diagnostics Pentra 80 / XL 80	11	0.40	0.01	0.0	0.4	0.3 - 0.5						
COULTER AcT 5diff	43	8.35	0.55	6.5	8.3	6.7 - 10.0						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	4.04	0.11	2.8	4.0	3.4 - 4.7	67	7.78	0.28	3.6	7.9	6.6 - 9.0
All Sysmex XE/XT Instruments	9	3.97	0.09	2.2	4.0	3.3 - 4.6	9	7.61	0.33	4.4	7.5	6.4 - 8.8
All Sysmex XN/XS Instruments	58	4.05	0.11	2.8	4.0	3.4 - 4.7	58	7.81	0.26	3.3	7.9	6.6 - 9.0
Sysmex XN-1000	12	3.95	0.08	2.0	4.0	3.3 - 4.6	12	7.48	0.11	1.5	7.5	6.3 - 8.7
Sysmex XS-1000i	44	4.08	0.10	2.5	4.1	3.4 - 4.7	44	7.91	0.20	2.5	7.9	6.7 - 9.1
Specimen MX-3							Specimen MX-4					
All Method	66	21.15	0.74	3.5	21.3	17.9 - 24.4	66	4.03	0.13	3.2	4.0	3.4 - 4.7
All Sysmex XE/XT Instruments	9	19.88	0.84	4.2	19.9	16.8 - 22.9	9	3.96	0.15	3.8	3.9	3.3 - 4.6
All Sysmex XN/XS Instruments	57	21.33	0.56	2.6	21.5	18.1 - 24.6	57	4.04	0.12	3.0	4.0	3.4 - 4.7
Sysmex XN-1000	12	20.41	0.44	2.2	20.5	17.3 - 23.5	12	3.93	0.07	1.7	3.9	3.3 - 4.6
Sysmex XS-1000i	44	21.56	0.38	1.8	21.6	18.3 - 24.8	43	4.07	0.12	2.9	4.1	3.4 - 4.7
Specimen MX-5												
All Method	65	7.77	0.26	3.4	7.8	6.6 - 9.0						
All Sysmex XE/XT Instruments	9	7.54	0.25	3.3	7.6	6.4 - 8.7						
All Sysmex XN/XS Instruments	56	7.81	0.25	3.1	7.8	6.6 - 9.0						
Sysmex XN-1000	12	7.50	0.19	2.5	7.5	6.3 - 8.7						
Sysmex XS-1000i	42	7.91	0.16	2.0	7.9	6.7 - 9.2						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	2.310	0.048	2.1	2.30	2.17 - 2.45	66	4.635	0.052	1.1	4.64	4.35 - 4.92
All Sysmex XE/XT Instruments	9	2.403	0.026	1.1	2.40	2.25 - 2.55	9	4.707	0.055	1.2	4.69	4.42 - 4.99
All Sysmex XN/XS Instruments	58	2.295	0.031	1.3	2.30	2.15 - 2.44	58	4.627	0.048	1.0	4.62	4.34 - 4.91
Sysmex XN-1000	12	2.283	0.033	1.5	2.29	2.14 - 2.43	12	4.650	0.050	1.1	4.65	4.37 - 4.93
Sysmex XS-1000i	44	2.299	0.030	1.3	2.30	2.16 - 2.44	44	4.621	0.047	1.0	4.62	4.34 - 4.90
Specimen MX-3							Specimen MX-4					
All Method	65	5.536	0.052	0.9	5.54	5.20 - 5.87	66	2.311	0.045	2.0	2.31	2.17 - 2.45
All Sysmex XE/XT Instruments	9	5.537	0.066	1.2	5.53	5.20 - 5.87	9	2.390	0.032	1.3	2.38	2.24 - 2.54
All Sysmex XN/XS Instruments	56	5.536	0.051	0.9	5.54	5.20 - 5.87	57	2.298	0.033	1.4	2.30	2.16 - 2.44
Sysmex XN-1000	12	5.577	0.077	1.4	5.56	5.24 - 5.92	12	2.293	0.034	1.5	2.29	2.15 - 2.44
Sysmex XS-1000i	43	5.529	0.046	0.8	5.53	5.19 - 5.87	43	2.302	0.032	1.4	2.30	2.16 - 2.44
Specimen MX-5												
All Method	65	4.634	0.053	1.1	4.63	4.35 - 4.92						
All Sysmex XE/XT Instruments	9	4.718	0.056	1.2	4.70	4.43 - 5.01						
All Sysmex XN/XS Instruments	57	4.624	0.046	1.0	4.62	4.34 - 4.91						
Sysmex XN-1000	12	4.656	0.038	0.8	4.65	4.37 - 4.94						
Sysmex XS-1000i	43	4.617	0.043	0.9	4.62	4.34 - 4.90						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	5.78	0.10	1.8	5.8	5.3 - 6.2	66	13.29	0.11	0.9	13.3	12.3 - 14.3
All Sysmex XE/XT Instruments	9	5.88	0.07	1.1	5.9	5.4 - 6.3	9	13.38	0.08	0.6	13.4	12.4 - 14.4
All Sysmex XN/XS Instruments	58	5.77	0.10	1.8	5.8	5.3 - 6.2	57	13.27	0.11	0.8	13.3	12.3 - 14.3
Sysmex XN-1000	12	5.83	0.10	1.7	5.9	5.4 - 6.3	12	13.33	0.12	0.9	13.4	12.3 - 14.3
Sysmex XS-1000i	44	5.74	0.09	1.6	5.8	5.3 - 6.2	44	13.25	0.12	0.9	13.3	12.3 - 14.2
Specimen MX-3							Specimen MX-4					
All Method	66	17.32	0.18	1.0	17.3	16.1 - 18.6	66	5.81	0.08	1.4	5.8	5.4 - 6.3
All Sysmex XE/XT Instruments	9	17.18	0.25	1.5	17.1	15.9 - 18.4	9	5.83	0.05	0.9	5.8	5.4 - 6.3
All Sysmex XN/XS Instruments	57	17.35	0.15	0.9	17.4	16.1 - 18.6	57	5.80	0.09	1.5	5.8	5.3 - 6.3
Sysmex XN-1000	12	17.41	0.20	1.1	17.5	16.1 - 18.7	12	5.88	0.10	1.6	5.9	5.4 - 6.3
Sysmex XS-1000i	43	17.33	0.14	0.8	17.3	16.1 - 18.6	43	5.78	0.08	1.3	5.8	5.3 - 6.2
Specimen MX-5												
All Method	65	13.28	0.11	0.9	13.3	12.3 - 14.3						
All Sysmex XE/XT Instruments	9	13.39	0.06	0.4	13.4	12.4 - 14.4						
All Sysmex XN/XS Instruments	57	13.25	0.12	0.9	13.2	12.3 - 14.2						
Sysmex XN-1000	12	13.32	0.14	1.1	13.4	12.3 - 14.3						
Sysmex XS-1000i	42	13.25	0.10	0.8	13.2	12.3 - 14.2						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	18.00	0.47	2.6	18.0	16.9 - 19.1	67	39.82	0.65	1.6	39.8	37.4 - 42.3
All Sysmex XE/XT Instruments	9	18.62	0.26	1.4	18.6	17.5 - 19.8	9	40.31	0.54	1.3	40.3	37.8 - 42.8
All Sysmex XN/XS Instruments	58	17.91	0.42	2.4	18.0	16.8 - 19.0	58	39.75	0.63	1.6	39.7	37.3 - 42.2
Sysmex XN-1000	12	17.37	0.38	2.2	17.4	16.3 - 18.5	12	39.40	0.56	1.4	39.3	37.0 - 41.8
Sysmex XS-1000i	43	18.09	0.25	1.4	18.1	17.0 - 19.2	44	39.84	0.64	1.6	39.9	37.4 - 42.3
Specimen MX-3							Specimen MX-4					
All Method	67	51.86	1.05	2.0	51.9	48.7 - 55.0	66	18.00	0.43	2.4	18.0	16.9 - 19.1
All Sysmex XE/XT Instruments	9	52.12	0.73	1.4	52.0	48.9 - 55.3	9	18.50	0.36	2.0	18.5	17.3 - 19.7
All Sysmex XN/XS Instruments	58	51.82	1.09	2.1	51.8	48.7 - 55.0	57	17.92	0.39	2.2	17.9	16.8 - 19.0
Sysmex XN-1000	12	51.38	0.95	1.9	51.2	48.3 - 54.5	12	17.48	0.31	1.8	17.4	16.4 - 18.6
Sysmex XS-1000i	44	51.94	1.11	2.1	52.3	48.8 - 55.1	43	18.07	0.29	1.6	18.1	16.9 - 19.2
Specimen MX-5												
All Method	66	39.87	0.76	1.9	39.9	37.4 - 42.3						
All Sysmex XE/XT Instruments	9	40.57	0.74	1.8	40.6	38.1 - 43.1						

All Sysmex XN/XS Instruments	57	39.76	0.70	1.8	39.8	37.3 - 42.2
Sysmex XN-1000	12	39.55	0.61	1.5	39.4	37.1 - 42.0
Sysmex XS-1000i	43	39.83	0.73	1.8	39.9	37.4 - 42.3

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	65.9	6.4	9.7	67	49 - 83	65	225.6	7.4	3.3	226	169 - 282
All Sysmex XE/XT Instruments	9	70.2	8.7	12.3	68	52 - 88	9	220.9	15.7	7.1	225	165 - 277
All Sysmex XN/XS Instruments	58	65.2	5.8	8.9	66	48 - 82	57	225.8	6.3	2.8	226	169 - 283
Sysmex XN-1000	12	59.3	3.9	6.5	58	44 - 75	12	225.8	6.7	3.0	227	169 - 283
Sysmex XS-1000i	44	67.1	5.0	7.5	67	50 - 84	43	226.1	6.2	2.7	226	169 - 283
Specimen MX-3							Specimen MX-4					
All Method	66	434.9	15.1	3.5	434	326 - 544	66	65.8	6.0	9.1	66	49 - 83
All Sysmex XE/XT Instruments	9	427.2	26.0	6.1	423	320 - 535	9	70.2	8.5	12.1	74	52 - 88
All Sysmex XN/XS Instruments	57	436.1	12.6	2.9	435	327 - 546	57	65.1	5.3	8.1	65	48 - 82
Sysmex XN-1000	12	445.0	11.7	2.6	447	333 - 557	11	58.9	1.4	2.3	59	44 - 74
Sysmex XS-1000i	43	432.9	11.4	2.6	432	324 - 542	43	66.7	4.5	6.8	66	50 - 84
Specimen MX-5												
All Method	65	224.5	7.2	3.2	225	168 - 281						
All Sysmex XE/XT Instruments	9	223.3	11.7	5.3	225	167 - 280						
All Sysmex XN/XS Instruments	56	224.7	6.3	2.8	225	168 - 281						
Sysmex XN-1000	12	223.2	6.8	3.1	223	167 - 279						
Sysmex XS-1000i	42	225.1	6.4	2.8	225	168 - 282						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	64	60.90	3.36	5.5	60.1	50.8 - 71.0	66	50.72	4.27	8.4	49.0	37.9 - 63.6
All Sysmex XE/XT Instruments	9	64.94	1.52	2.3	65.0	60.3 - 69.6	9	56.17	0.82	1.5	56.0	53.7 - 58.7
All Sysmex XN/XS Instruments	54	60.00	2.60	4.3	59.4	52.2 - 67.8	54	49.13	2.47	5.0	48.5	41.7 - 56.6
Sysmex XN-1000	12	66.08	5.80	8.8	64.8	48.6 - 83.5	12	53.75	5.70	10.6	51.9	36.6 - 70.9
Sysmex XS-1000i	44	59.25	1.46	2.5	59.1	54.8 - 63.7	43	48.48	1.32	2.7	48.4	44.5 - 52.5
Specimen MX-3							Specimen MX-4					
All Method	60	57.34	4.65	8.1	55.9	43.3 - 71.3	66	60.74	4.12	6.8	59.5	48.3 - 73.2
All Sysmex XE/XT Instruments	9	60.42	2.08	3.4	60.0	54.1 - 66.7	9	64.50	1.70	2.6	64.7	59.4 - 69.6
All Sysmex XN/XS Instruments	51	56.79	4.78	8.4	54.6	42.4 - 71.2	55	59.69	3.35	5.6	59.2	49.6 - 69.8
Sysmex XN-1000	12	57.87	1.86	3.2	57.3	52.2 - 63.5	12	65.25	5.78	8.9	62.6	47.9 - 82.6
Sysmex XS-1000i	37	56.09	5.02	9.0	53.7	41.0 - 71.2	43	59.02	1.24	2.1	59.0	55.2 - 62.8
Specimen MX-5												
All Method	67	51.00	4.26	8.3	49.2	38.2 - 63.8						
All Sysmex XE/XT Instruments	9	55.73	0.48	0.9	55.8	54.2 - 57.2						
All Sysmex XN/XS Instruments	56	49.83	3.43	6.9	48.9	39.5 - 60.2						
Sysmex XN-1000	12	54.06	5.49	10.2	52.9	37.5 - 70.6						
Sysmex XS-1000i	43	48.67	1.43	2.9	48.6	44.3 - 53.0						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	15.21	2.62	17.2	15.1	7.3 - 23.1	67	27.03	3.11	11.5	28.5	17.7 - 36.4
All Sysmex XE/XT Instruments	9	19.33	2.15	11.1	19.4	12.8 - 25.8	9	27.19	1.45	5.3	26.8	22.8 - 31.6
All Sysmex XN/XS Instruments	58	14.57	2.05	14.1	15.1	8.4 - 20.8	58	27.01	3.30	12.2	28.8	17.1 - 36.9
Sysmex XN-1000	12	15.88	2.15	13.5	15.8	9.4 - 22.4	12	27.21	2.97	10.9	28.6	18.2 - 36.2
Sysmex XS-1000i	44	14.18	1.88	13.2	14.9	8.5 - 19.9	44	26.95	3.45	12.8	28.8	16.5 - 37.3
Specimen MX-3							Specimen MX-4					
All Method	63	20.40	2.84	13.9	21.5	11.8 - 29.0	65	15.24	2.81	18.4	15.3	6.8 - 23.7
All Sysmex XE/XT Instruments	9	22.61	2.67	11.8	23.7	14.6 - 30.7	9	18.98	1.40	7.4	18.5	14.7 - 23.2
All Sysmex XN/XS Instruments	54	20.03	2.72	13.6	21.5	11.8 - 28.2	56	14.64	2.50	17.1	14.8	7.1 - 22.2
Sysmex XN-1000	12	19.14	3.05	15.9	20.1	9.9 - 28.3	12	16.31	2.65	16.3	15.3	8.3 - 24.3
Sysmex XS-1000i	40	20.35	2.62	12.9	21.8	12.4 - 28.2	42	14.03	2.16	15.4	14.6	7.5 - 20.5
Specimen MX-5												
All Method	65	26.87	3.13	11.7	28.5	17.4 - 36.3						
All Sysmex XE/XT Instruments	9	27.41	1.00	3.6	27.6	24.4 - 30.5						
All Sysmex XN/XS Instruments	58	26.41	3.85	14.6	28.7	14.8 - 38.0						
Sysmex XN-1000	12	26.33	3.43	13.0	26.9	16.0 - 36.7						
Sysmex XS-1000i	44	26.47	4.03	15.2	28.9	14.3 - 38.6						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	65	1.43	1.26	87.7	0.7	0.0 - 5.3	67	4.32	2.32	53.6	3.0	0.0 - 11.3
All Sysmex XE/XT Instruments	9	1.21	0.91	75.3	1.0	0.0 - 4.0	9	3.89	1.08	27.6	4.3	0.6 - 7.2
All Sysmex XN/XS Instruments	58	1.63	1.54	94.7	0.7	0.0 - 6.3	58	4.39	2.45	55.8	3.0	0.0 - 11.8
Sysmex XN-1000	12	2.06	1.60	77.7	1.8	0.0 - 6.9	12	4.63	1.99	43.0	3.8	0.0 - 10.7
Sysmex XS-1000i	43	1.43	1.39	97.8	0.7	0.0 - 5.7	44	4.33	2.61	60.3	2.7	0.0 - 12.2
Specimen MX-3							Specimen MX-4					
All Method	60	2.92	2.10	71.8	2.1	0.0 - 9.3	65	1.51	1.25	82.8	0.7	0.0 - 5.3
All Sysmex XE/XT Instruments	9	2.51	0.40	15.7	2.7	1.3 - 3.7	9	1.56	0.93	59.7	2.0	0.0 - 4.4
All Sysmex XN/XS Instruments	52	3.13	2.44	78.0	2.0	0.0 - 10.5	56	1.51	1.30	86.6	0.7	0.0 - 5.5
Sysmex XN-1000	10	4.87	3.33	68.4	2.7	0.0 - 14.9	12	1.36	1.00	73.7	1.1	0.0 - 4.4
Sysmex XS-1000i	40	2.64	2.00	75.7	1.5	0.0 - 8.7	42	1.57	1.40	89.0	0.7	0.0 - 5.8
Specimen MX-5												
All Method	66	4.45	2.45	55.0	3.2	0.0 - 11.8						
All Sysmex XE/XT Instruments	9	4.08	1.23	30.3	4.6	0.3 - 7.8						
All Sysmex XN/XS Instruments	57	4.51	2.59	57.4	2.9	0.0 - 12.3						
Sysmex XN-1000	12	5.52	2.06	37.4	5.2	0.0 - 11.8						
Sysmex XS-1000i	43	4.19	2.66	63.6	2.6	0.0 - 12.2						

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

Specimen MX-1							Specimen MX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	16.91	5.26	31.1	15.6	1.1 - 32.7	66	13.74	3.53	25.7	13.1	3.1 - 24.4
All Sysmex XE/XT Instruments	9	14.51	0.64	4.4	14.3	12.6 - 16.5	9	12.76	0.35	2.7	12.7	11.7 - 13.9
All Sysmex XN/XS Instruments	58	17.29	5.56	32.2	15.6	0.6 - 34.0	57	13.90	3.78	27.2	13.1	2.5 - 25.3
Sysmex XN-1000	12	12.63	3.61	28.6	13.9	1.7 - 23.5	12	10.43	3.15	30.2	11.1	0.9 - 19.9
Sysmex XS-1000i	44	18.81	5.19	27.6	15.7	3.2 - 34.4	43	15.06	3.18	21.1	13.2	5.5 - 24.7
Specimen MX-3							Specimen MX-4					
All Method	56	14.12	1.26	8.9	14.5	10.3 - 18.0	67	17.26	5.34	31.0	15.6	1.2 - 33.3
All Sysmex XE/XT Instruments	9	14.46	0.35	2.4	14.4	13.3 - 15.6	9	14.97	0.37	2.5	15.0	13.8 - 16.1
All Sysmex XN/XS Instruments	51	13.54	2.22	16.4	14.5	6.8 - 20.3	58	17.62	5.66	32.2	15.9	0.6 - 34.7
Sysmex XN-1000	12	11.99	3.44	28.7	14.2	1.6 - 22.4	12	13.29	3.47	26.1	15.7	2.8 - 23.7
Sysmex XS-1000i	34	14.41	0.47	3.3	14.5	12.9 - 15.9	44	19.08	5.40	28.3	15.9	2.8 - 35.3
Specimen MX-5												
All Method	67	13.80	3.57	25.8	13.0	3.1 - 24.5						
All Sysmex XE/XT Instruments	9	12.78	0.43	3.4	12.7	11.4 - 14.1						
All Sysmex XN/XS Instruments	58	13.96	3.81	27.3	13.1	2.5 - 25.4						
Sysmex XN-1000	12	10.28	3.07	29.8	11.3	1.0 - 19.5						
Sysmex XS-1000i	44	15.15	3.18	21.0	13.1	5.5 - 24.7						

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

<u>Instrument</u>	Specimen MX-1						Specimen MX-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	84.23	0.98	1.2	8.1	81.2 - 87.2	9	72.68	1.50	2.1	7.0	68.1 - 77.2
All Sysmex XE/XT Instruments	9	84.23	0.98	1.2	84.4	81.2 - 87.2	9	72.68	1.50	2.1	72.1	68.1 - 77.2
All Sysmex XN/XS Instruments	58	5.34	4.18	78.2	8.0	0.0 - 17.9	58	4.54	3.63	79.9	6.5	0.0 - 15.5
Sysmex XN-1000	12	2.48	2.43	98.3	2.5	0.0 - 9.8	12	3.11	3.59	115.5	2.5	0.0 - 13.9
Sysmex XS-1000i	44	6.26	4.22	67.4	8.2	0.0 - 19.0	44	5.03	3.59	71.4	7.1	0.0 - 15.8
	Specimen MX-3						Specimen MX-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	80.91	1.70	2.1	7.9	75.8 - 86.1	8	84.48	1.24	1.5	8.4	80.7 - 88.2
All Sysmex XE/XT Instruments	9	80.91	1.70	2.1	81.6	75.8 - 86.1	8	84.48	1.24	1.5	84.2	80.7 - 88.2
All Sysmex XN/XS Instruments	54	5.32	3.85	72.3	7.6	0.0 - 16.9	58	5.28	4.12	78.0	6.0	0.0 - 17.7
Sysmex XN-1000	12	2.86	2.45	85.8	4.8	0.0 - 10.3	12	2.88	2.39	82.9	4.7	0.0 - 10.1
Sysmex XS-1000i	40	6.21	3.88	62.5	8.0	0.0 - 17.9	44	6.07	4.27	70.3	8.5	0.0 - 18.9
	Specimen MX-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	72.10	1.08	1.5	6.7	68.8 - 75.4						
All Sysmex XE/XT Instruments	9	72.10	1.08	1.5	72.4	68.8 - 75.4						
All Sysmex XN/XS Instruments	58	4.39	3.50	79.7	5.7	0.0 - 15.0						
Sysmex XN-1000	12	2.45	2.42	98.9	2.5	0.0 - 9.8						
Sysmex XS-1000i	44	5.02	3.59	71.6	6.9	0.0 - 15.8						

BLOOD CELL IDENTIFICATION

2017 M1

BC-1 through BC-6

CASE HISTORY:

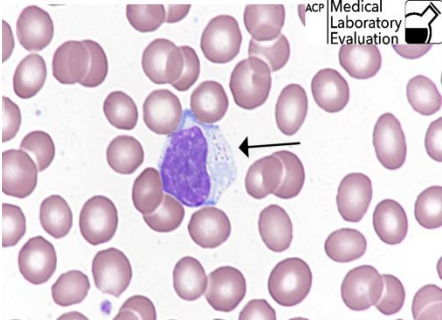
A 62 year old female presented to her primary care physician for her annual wellness visit. The patient, a formerly enthusiastic horseback rider, complained of feeling “depressed about getting old.” Specific symptoms included memory lapses, weight gain, thinning hair, and chronic fatigue despite plenty of sleep. Her skin appeared quite dry, and surgical history included a ruptured spleen several years prior due to an abdominal injury. A CBC was performed, and significant results appear below.

Test	Results	Reference Range
WBC	$6.7 \times 10^9/\text{L}$	$4.5 - 11.5 \times 10^9/\text{L}$
RBC	$4.5 \times 10^{12}/\text{L}$	$4.2 - 5.4 \times 10^{12}/\text{L}$
HGB	12.2 g/dL	12 - 15 g/dL
HCT	37.5 %	35 - 49 %
PLT	$135 \times 10^9/\text{L}$	$150 - 450 \times 10^9/\text{L}$
MCV	83 fL	80 - 94 fL
MCH	27 pg	26 - 32 pg
MCHC	33 %	32 - 36 %
RDW	14 %	11.5 - 14.5 %

This patient was diagnosed with hypothyroidism. Hypothyroidism is a common endocrine disorder resulting from deficiency of thyroid hormone. Levels of circulating thyroid hormones are regulated by a complex feedback system involving the thyroid gland, hypothalamus, and pituitary gland. As the thyroid gland’s function declines, thyroxine (T4) production decreases. This prompts an increase in thyroid stimulating hormone (TSH) produced by the pituitary gland. Signs and symptoms of hypothyroidism are often subtle and nonspecific, with anemia being one of the first signs. Thyroid hormones affect erythropoiesis, thus thyroid disorders are often accompanied by RBC abnormalities and anemia. The characteristic finding is a lump in the front of the neck, or goiter, due to an enlarged thyroid gland.

BLOOD CELL IDENTIFICATION

Specimen BC-1

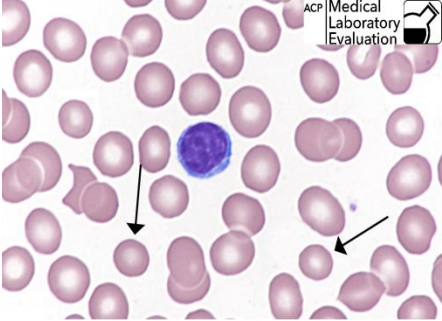


Identification	Labs	Percent	Performance
Lymphocyte, reactive	146	76.44%	Acceptable
Immature/abnormal cell – refer	24	12.57%	Acceptable
Monocyte	11	5.76%	
Lymphocyte	7	3.66%	

The arrow in this photograph points to a **reactive lymphocyte**. Reactive lymphocytes appear in a wide variety of forms, sizes and shapes. These large, atypical lymphocytes respond to immune stimuli in the body. The cytoplasm is light blue, with characteristic peripheral basophilia- a deeper blue color at the extreme border. The cytoplasmic edge of a reactive lymph tends to flow around adjacent red blood cells, and basophilia is especially prominent at those edges. The nucleus is large, and elongated or stretched, with coarse chromatin. Some participants incorrectly identified this cell as a monocyte. Monocytes tend to have folded nuclei, and grayer cytoplasm lacking the dark blue periphery typical of lymphocytes. To view another photo of a reactive lymphocyte, see 2016 M3 Specimen BC-16, or 2015 M2 Specimen BC-8. To view a monocyte, see 2016 M1 Specimen BC-5.

BLOOD CELL IDENTIFICATION

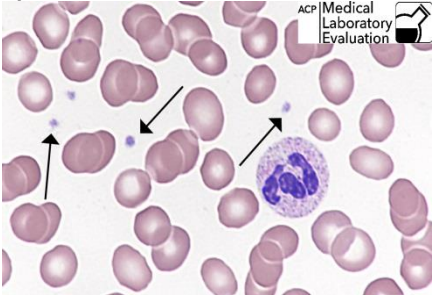
Specimen BC-2



Identification	Labs	Percent	Performance
Microcyte	160	83.77%	Acceptable
Erythrocyte, normal	26	13.61%	

The arrows in this photograph point to **microcytes**. These abnormally small red blood cells are similar to normal RBCs in color, morphology, and central pallor, but are simply smaller in size. The nucleus of a mature, resting lymphocyte such as the one in this photo is a good reference for gaging the relative size of red blood cells. A normal RBC will be approximately the same size as the lymph’s nucleus, or slightly smaller. The arrowed cells are noticeably smaller. To view another photo of microcytes, see 2014 M1 Specimen BC-5.

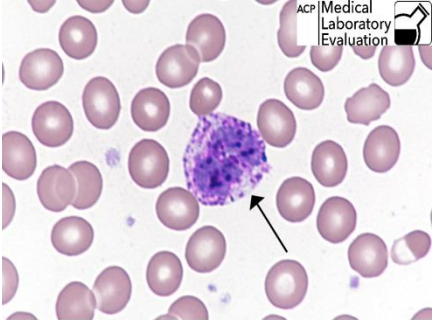
Specimen BC-3



The arrows in this photograph point to **normal platelets**. Platelets are very small and rounded, with irregular edges. They contain fine, red-violet granules surrounded by bluish cytoplasm. To view another photo of normal platelets, see 2016 M1 Specimen BC-4.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Platelet, normal	190	99.48%	Acceptable

Specimen BC-4

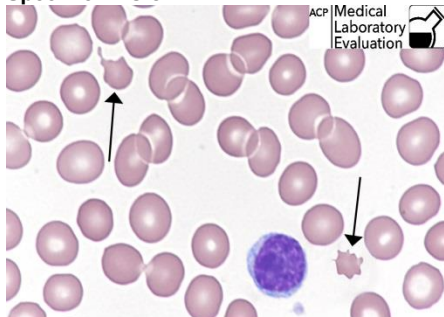


The arrow in this photograph points to a **basophil**. The basophil contains large dark granules that are predominantly blue-black but some may be red-purple. The granules cover the cytoplasm and the nucleus, which has two segments. Basophils normally make up less than two percent of the peripheral white blood cells. To view another basophil, see 2015 M2 Specimen BC-7.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Basophil, any stage	182	95.29%	Acceptable
Neutrophil-seg/band w/toxic granulation	5	2.62%	

BLOOD CELL IDENTIFICATION

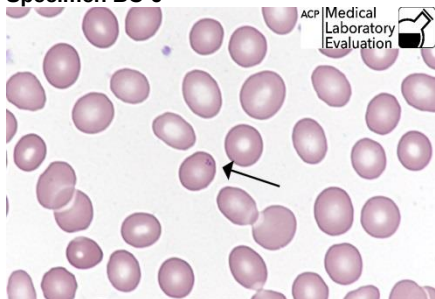
Specimen BC-5



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Acanthocyte	108	56.54%	Acceptable
Immature/abnormal cell – refer	1	0.52%	Acceptable
Fragmented cell	49	25.65%	
Echinocyte	33	17.28%	

The arrows in this photograph point to **acanthocytes**, also called spur cells. Acanthocytes are whole red blood cells that are contracted and dense, with irregularly spaced projections of varying length, width, and surface distribution. Evidence of acanthocytes in adults suggests hypothyroidism in up to 90% of cases, although they are associated with various other underlying conditions. In general, the formation of acanthocytes depends on alteration of the lipid composition and fluidity of the red cell membrane. Serum lipid abnormalities with hypothyroidism are common, and patients with acanthocytes may have more severely abnormal lipids than patients with normal-shaped red cells. Some participants identified these cells incorrectly as fragmented cells/schistocytes. Although fragmented cells also have pointed ends and irregular shapes, fragments usually do not have the mixture of rounded and pointed projections seen here. To view another photo of acanthocytes, see 2011 M1 BC-4. To view a photo of fragmented cells, see 2014 M3 Specimen BC-17. **Specimen BC-5 is graded by 80% referee consensus.**

Specimen BC-6



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Pappenheimer body	128	67.37%	Not graded – Educational Challenge
Immature/abnormal cell-refer	41	21.58%	
Howell-Jolly body	17	8.95%	
Heinz body	3	1.58%	
Erythrocyte w/overlay platelet	1	0.59%	

The arrow in this ungraded educational challenge points to an erythrocyte containing **Pappenheimer bodies**. Any condition that disturbs hemoglobin synthesis can cause the appearance of Pappenheimer bodies. In post splenectomy or hyposplenic patients, more red cell inclusions and abnormally shaped cells (poikilocytosis) are observed on the blood smear because there is no spleen to clear the abnormalities from circulation. Pappenheimer bodies are small, blue, angular, irregular in size and shape, and tend to aggregate in small clusters near the edge of the cell. These cells would be called siderocytes if viewed with Prussian Blue staining, which would confirm that these particles contain iron. In contrast, Howell-Jolly bodies are spherical and larger than Pappenheimer bodies, and Heinz bodies are not visible in Wright-stained smears. To view another photo of Pappenheimer bodies, see 2014 M1 Specimen BC-6.

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BLOOD BANK

ABO GROUP

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-1	Group O	8	100%	Acceptable
BB-2	Group AB	8	100%	Acceptable
BB-3	Group A	8	100%	Acceptable
BB-4	Group O	8	100%	Acceptable
BB-5	Group B	8	100%	Acceptable

RH FACTOR (D TYPE)

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
BB-1	Rh Positive	20	100%	Acceptable
BB-2	Rh Positive	19	95.00%	Acceptable
	Negative	1	5.00%	
BB-3	Rh Negative	20	100%	Acceptable
BB-4	Rh Positive	20	100%	Acceptable
BB-5	Rh Negative	20	100%	Acceptable

UNEXPECTED ANTIBODY DETECTION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-1	Unexpected antibody detected	8	100%	Acceptable
AB-2	No unexpected antibody detected	8	100%	Acceptable
AB-3	Unexpected antibody detected	8	100%	Acceptable
AB-4	No unexpected antibody detected	8	100%	Acceptable
AB-5	Unexpected antifbody detected	8	100%	Acceptable

BLOOD BANK

ANTIBODY IDENTIFICATION

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-1	Anti-Fy(a)	8	100%	Acceptable
AB-2	No antibody detected	8	100%	Acceptable
AB-3	Anti-K	8	100%	Acceptable
AB-4	No antibody detected	8	100%	Acceptable
AB-5	Anit-E	8	100%	Acceptable

COMPATIBILITY TESTING

<u>Specimen</u>	<u>Results</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
AB-1	Not Compatible	5	100%	Acceptable
AB-2	Compatible	5	100%	Acceptable
AB-3	Compatible	5	100%	Acceptable
AB-4	Compatible	5	100%	Acceptable
AB-5	Not Compatible	5	100%	Acceptable

PROTHROMBIN TIME (seconds)

<u>Reagent/Instrument</u>	Specimen CG-1						Specimen CG-2					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	25.24	3.55	14.1	25.7	21.4 - 29.1	37	19.67	1.77	9.0	19.6	16.7 - 22.7
Dade Innovin												
Dade Behring BFT II	5	27.88	1.52	5.5	27.9	23.6 - 32.1	5	19.36	0.76	3.9	19.6	16.4 - 22.3
Sysmex CA-500/600 series	19	25.89	0.85	3.3	25.8	22.0 - 29.8	19	19.21	1.45	7.6	19.4	16.3 - 22.1
All Coagulation Instruments	27	26.40	1.43	5.4	25.8	22.4 - 30.4	26	19.18	1.30	6.8	19.2	16.3 - 22.1
HemosIL RecombiPlasTin 2G												
IL ACL, all models	5	31.13	1.23	4.0	30.8	26.4 - 35.9	5	23.43	1.07	4.6	23.2	19.9 - 27.0
IL TEST PT Fibrinogen												
IL ACL, all models	6	20.30	1.28	6.3	19.9	17.2 - 23.4	5	19.96	2.01	10.1	19.3	16.9 - 23.0
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	18.25	1.91	10.5	18.3	15.5 - 21.0	5	19.20	1.41	7.4	19.2	16.3 - 22.1
<u>Reagent/Instrument</u>	Specimen CG-3						Specimen CG-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	38	10.99	0.76	6.9	11.0	9.3 - 12.7	38	18.94	1.79	9.4	19.0	16.0 - 21.8
Dade Innovin												
Dade Behring BFT II	5	9.90	0.21	2.1	9.9	8.4 - 11.4	5	20.12	0.62	3.1	20.2	17.1 - 23.2
Sysmex CA-500/600 series	20	11.04	0.50	4.5	11.1	9.3 - 12.7	19	19.06	0.57	3.0	19.0	16.1 - 22.0
All Coagulation Instruments	27	10.81	0.62	5.7	11.0	9.1 - 12.5	26	19.21	0.75	3.9	19.2	16.3 - 22.1
HemosIL RecombiPlasTin 2G												
IL ACL, all models	5	10.50	0.10	1.0	10.5	8.9 - 12.1	5	22.17	0.90	4.1	22.1	18.8 - 25.5
IL TEST PT Fibrinogen												
IL ACL, all models	6	12.75	2.52	19.8	11.8	10.8 - 14.7	5	16.42	1.22	7.4	15.9	13.9 - 18.9
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	11.55	1.48	12.9	11.6	9.8 - 13.3	5	16.20	1.56	9.6	16.2	13.7 - 18.7
<u>Reagent/Instrument</u>	Specimen CG-5											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	39	11.46	1.10	9.6	11.2	9.7 - 13.2						
Dade Innovin												
Dade Behring BFT II	5	10.04	0.21	2.1	10.0	8.5 - 11.6						
Sysmex CA-500/600 series	19	11.08	0.34	3.0	11.1	9.4 - 12.8						
All Coagulation Instruments	27	10.97	0.66	6.0	11.0	9.3 - 12.7						
HemosIL RecombiPlasTin 2G												
IL ACL, all models	5	12.07	0.15	1.3	12.1	10.2 - 13.9						
IL TEST PT Fibrinogen												
IL ACL, all models	6	12.77	1.30	10.1	12.2	10.8 - 14.7						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	12.10	1.70	14.0	12.1	10.2 - 14.0						

PROTHROMBIN TIME–INTERNATIONAL NORMALIZED RATIO (INR)

Specimen CG-1							Specimen CG-2					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	39	2.57	0.17	6.8	2.6	2.0 - 3.1	37	2.08	0.36	17.3	2.0	1.6 - 2.5
Dade Innovin												
Dade Behring BFT II	5	2.66	0.21	7.8	2.7	2.1 - 3.2	5	1.96	0.11	5.8	2.0	1.5 - 2.4
Sysmex CA-500/600 series	20	2.51	0.13	5.2	2.5	2.0 - 3.1	19	1.87	0.15	7.9	1.9	1.4 - 2.3
All Coagulation Instruments	27	2.54	0.15	5.9	2.5	2.0 - 3.1	26	1.89	0.14	7.5	1.9	1.5 - 2.3
HemosIL RecombiPlasTin 2G												
IL ACL, all models	5	2.87	0.12	4.0	2.8	2.2 - 3.5	5	2.17	0.15	7.1	2.2	1.7 - 2.7
IL TEST PT Fibrinogen												
IL ACL, all models	6	2.65	0.12	4.6	2.7	2.1 - 3.2	5	2.62	0.28	10.6	2.7	2.0 - 3.2
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	2.55	0.07	2.8	2.6	2.0 - 3.1	5	2.90	0.01	0.0	2.9	2.3 - 3.5
Specimen CG-3							Specimen CG-4					
All Method	38	1.06	0.08	7.4	1.1	0.8 - 1.3	38	1.89	0.12	6.5	1.9	1.5 - 2.3
Dade Innovin												
Dade Behring BFT II	5	1.10	0.07	6.4	1.1	0.8 - 1.4	5	2.02	0.13	6.5	2.1	1.6 - 2.5
Sysmex CA-500/600 series	20	1.08	0.06	5.1	1.1	0.8 - 1.3	20	1.87	0.09	5.0	1.9	1.4 - 2.3
All Coagulation Instruments	27	1.09	0.06	5.5	1.1	0.8 - 1.4	27	1.89	0.11	6.0	1.9	1.5 - 2.3
HemosIL RecombiPlasTin 2G												
IL ACL, all models	5	0.93	0.06	6.2	0.9	0.7 - 1.2	5	2.03	0.06	2.8	2.0	1.6 - 2.5
IL TEST PT Fibrinogen												
IL ACL, all models	6	1.18	0.35	30.0	1.1	0.9 - 1.5	6	1.72	0.31	18.2	1.9	1.3 - 2.1
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	1.10	0.14	12.9	1.1	0.8 - 1.4	5	2.00	0.01	0.0	2.0	1.6 - 2.4
Specimen CG-5												
All Method	39	1.12	0.07	6.0	1.1	0.8 - 1.4						
Dade Innovin												
Dade Behring BFT II	5	1.10	0.07	6.4	1.1	0.8 - 1.4						
Sysmex CA-500/600 series	20	1.09	0.06	5.1	1.1	0.8 - 1.4						
All Coagulation Instruments	27	1.10	0.06	5.6	1.1	0.8 - 1.4						
HemosIL RecombiPlasTin 2G												
IL ACL, all models	5	1.10	0.01	0.0	1.1	0.8 - 1.4						
IL TEST PT Fibrinogen												
IL ACL, all models	6	1.18	0.08	6.4	1.2	0.9 - 1.5						
PH/CMS Thromboplastin-D												
All Coagulation Instruments	5	1.15	0.07	6.1	1.2	0.9 - 1.4						

ACTIVATED PARTIAL THROMBOPLASTIN (seconds)

Specimen CG-1							Specimen CG-2					
<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	40.0	1.8	4.6	40	34 - 46	13	50.3	3.2	6.4	49	42 - 58
Dade Actin FSL												
Sysmex CA-500/600 series	9	38.9	0.9	2.4	39	33 - 45	9	49.1	2.6	5.3	48	41 - 57
Hemoliance SynthASil												
IL ACL, all models	5	42.5	0.7	1.7	43	36 - 49	5	51.0	2.8	5.5	51	43 - 59
IL TEST APTT-SP												
IL ACL, all models	5	41.0	1.4	3.4	41	34 - 48	4	-	-	-	54	42 - 58
Specimen CG-3							Specimen CG-4					
All Method	14	27.8	6.5	23.4	24	23 - 32	14	33.8	2.6	7.6	34	28 - 39
Dade Actin FSL												
Sysmex CA-500/600 series	9	23.9	0.3	1.4	24	20 - 28	9	33.3	0.7	2.1	33	28 - 39
Hemoliance SynthASil												
IL ACL, all models	5	40.0	2.8	7.1	40	34 - 46	5	36.5	0.7	1.9	37	31 - 42
IL TEST APTT-SP												
IL ACL, all models	5	33.0	7.1	21.4	33	28 - 38	5	31.0	5.7	18.2	31	26 - 36
Specimen CG-5												
All Method	14	26.4	2.3	8.9	25	22 - 31						
Dade Actin FSL												
Sysmex CA-500/600 series	9	24.8	0.4	1.8	25	21 - 29						
Hemoliance SynthASil												
IL ACL, all models	5	29.0	0.1	0.0	29	24 - 34						
IL TEST APTT-SP												
IL ACL, all models	5	29.5	0.7	2.4	30	25 - 34						

Fibrinogen (mg/dL)

One participant reported Fibrinogen. The vendor assay values for specimens CG-1 through CG-5 are: 236 mg/dL, 86 mg/dL, 361 mg/dL, 234 mg/dL and 248 mg/dL, respectively.

RH FACTOR (Slide Method)

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

COAGUCHEK XS PLUS PROTHROMBIN TIME (seconds)

Specimen XS-1							Specimen XS-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	29.84	2.63	8.8	28.8	25.3 - 34.4	20	22.10	2.21	10.0	21.3	18.7 - 25.5
All Roche CoaguChek XS Plus Instruments	20	29.55	2.38	8.1	28.8	25.1 - 34.0	20	21.51	1.52	7.1	20.9	18.2 - 24.8
Roche CoaguChek XS Plus - Waived	10	29.88	2.73	9.1	28.6	25.3 - 34.4	10	21.73	1.66	7.7	20.7	18.4 - 25.0
Roche CoaguChek XS Plus	10	29.22	2.08	7.1	28.8	24.8 - 33.7	10	21.98	2.59	11.8	21.1	18.6 - 25.3
Specimen XS-3							Specimen XS-4					
All Method	15	12.85	0.68	5.3	12.6	10.9 - 14.8	15	12.84	0.75	5.8	12.7	10.9 - 14.8
All Roche CoaguChek XS Plus Instruments	15	12.70	0.46	3.7	12.6	10.7 - 14.7	15	13.40	2.47	18.5	12.7	11.3 - 15.5
Roche CoaguChek XS Plus - Waived	5	-	-	-	12.8	10.7 - 14.7	5	-	-	-	13.4	11.3 - 15.5
Roche CoaguChek XS Plus	10	12.54	0.28	2.2	12.4	10.6 - 14.5	10	12.51	0.31	2.5	12.5	10.6 - 14.4
Specimen XS-5												
All Method	15	21.29	1.53	7.2	20.9	18.0 - 24.5						
All Roche CoaguChek XS Plus Instruments	15	20.97	1.16	5.5	20.7	17.8 - 24.2						
Roche CoaguChek XS Plus - Waived	5	-	-	-	20.9	17.8 - 24.2						
Roche CoaguChek XS Plus	10	20.67	0.70	3.4	20.4	17.5 - 23.8						

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

Specimen XS-1							Specimen XS-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	37	2.45	0.26	10.7	2.4	1.9 - 3.0	36	1.80	0.16	8.9	1.7	1.4 - 2.2
All Roche CoaguChek XS Plus Instruments	32	2.47	0.21	8.5	2.4	1.9 - 3.0	32	1.79	0.15	8.1	1.7	1.4 - 2.2
Roche CoaguChek XS Plus - Waived	23	2.48	0.22	9.0	2.3	1.9 - 3.0	23	1.80	0.16	8.7	1.7	1.4 - 2.2
Roche CoaguChek XS Plus	10	2.37	0.29	12.3	2.4	1.8 - 2.9	10	1.82	0.23	12.6	1.8	1.4 - 2.2
Specimen XS-3							Specimen XS-4					
All Method	21	1.06	0.07	7.0	1.1	0.8 - 1.3	21	1.06	0.08	7.2	1.0	0.8 - 1.3
All Roche CoaguChek XS Plus Instruments	21	1.05	0.07	6.3	1.0	0.8 - 1.3	21	1.05	0.07	6.3	1.0	0.8 - 1.3
Roche CoaguChek XS Plus - Waived	10	1.07	0.08	7.7	1.1	0.8 - 1.3	10	1.14	0.26	22.5	1.0	0.9 - 1.4
Roche CoaguChek XS Plus	11	1.04	0.05	5.1	1.0	0.8 - 1.3	11	1.04	0.05	5.1	1.0	0.8 - 1.3
Specimen XS-5												
All Method	21	1.76	0.12	6.6	1.7	1.4 - 2.2						
All Roche CoaguChek XS Plus Instruments	21	1.74	0.10	5.5	1.7	1.3 - 2.1						
Roche CoaguChek XS Plus - Waived	10	1.66	0.31	18.7	1.7	1.3 - 2.0						
Roche CoaguChek XS Plus	11	1.71	0.07	4.0	1.7	1.3 - 2.1						

COAGUCHECK XS - INTERNATIONAL NORMALIZED RATIO (INR)

Specimen INX-1							Specimen INX-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
Roche CoaguChek XS	143	1.75	0.26	14.9	1.7	1.3 - 2.1	139	2.48	0.22	9.0	2.4	1.9 - 3.0

i-Stat PROTHROMBIN TIME (seconds)

Specimen PTI-1							Specimen PTI-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	10	29.52	1.52	5.1	28.9	25.0 - 34.0	11	14.22	0.66	4.6	14.2	12.0 - 16.4
Specimen PTI-3							Specimen PTI-4					
i-Stat Prothrombin Time	11	28.66	1.25	4.3	28.0	24.3 - 33.0	11	14.52	0.52	3.6	14.6	12.3 - 16.7
Specimen PTI-5												
i-Stat Prothrombin Time	11	14.54	0.41	2.8	14.8	12.3 - 16.8						

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

Specimen PTI-1							Specimen PTI-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
i-Stat Prothrombin Time	11	2.34	0.11	4.9	2.3	1.8 - 2.9	11	1.20	0.07	5.9	1.2	0.9 - 1.5
Specimen PTI-3							Specimen PTI-4					
i-Stat Prothrombin Time	11	2.50	0.14	5.7	2.4	2.0 - 3.0	11	1.24	0.05	4.4	1.2	0.9 - 1.5
Specimen PTI-5												
i-Stat Prothrombin Time	11	1.22	0.04	3.7	1.2	0.9 - 1.5						

FLUID CELL COUNT – WHITE BLOOD CELL COUNT (µL)

Specimen BF-1							Specimen BF-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	327.7	34.2	10.4	320	259 - 396	5	5.0	2.6	52.9	4	0 - 11

FLUID CELL COUNT – RED BLOOD CELL COUNT (µL)

Specimen BF-1							Specimen BF-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1029.7	185.4	18.0	959	658 - 1401	5	0.0	0.1	0.0	0	0 - 1

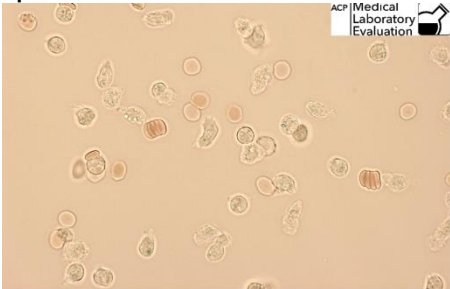
2017 M1
FLUID CRYSTAL IDENTIFICATION
Specimens FC-1 and FC-2

Crystals are classified as being either optically isotropic or anisotropic. Isotropic solids refract light rays equally in all directions throughout the crystalline structure. All isotropic crystals interact with light in a similar manner, regardless of the crystal orientation. If you look at an object through a large isotropic crystal, such as a piece of glass, you see only one image.

Anisotropic crystals have a different internal structure that will cause a single ray of light entering the crystal to split into two rays, each traveling in a different direction. This property of splitting light is called birefringence or double refraction. If you were to look at this page through a large anisotropic crystal, you would see two images. Anisotropic crystals interact with light in a manner that is dependent upon the orientation of the crystal. A light beam hitting the crystal from one direction or angle will react differently than a beam hitting the crystal at a different angle. Use of a compensator allows this optical property to be used to identify crystals.

Gout is caused by monosodium urate crystals, while pseudogout is caused by calcium pyrophosphate crystals. Synovial fluid analysis offers a valuable diagnostic tool for evaluating patients with gout or pseudogout. An accurate diagnosis can be made by a trained observer by detecting and identifying MSU crystals or CPPD crystals. Crystal analysis is done with compensated polarized light.

Specimen FC-1

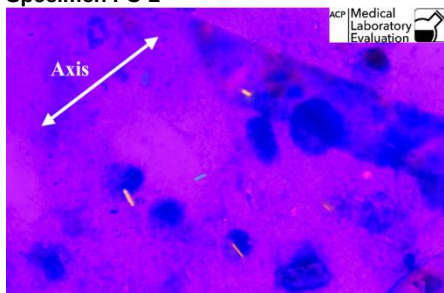


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
No crystals observed	6	85.71%	Acceptable

There are no crystals present in this photograph of an unstained wet mount preparation of synovial fluid. The objects in this photo are red blood cells and white blood cells.

2017 M1
FLUID CRYSTAL IDENTIFICATION

Specimen FC-2



Identification

CPPD

Labs

6

Percent

85.71%

Performance

Acceptable

This photograph contains **calcium pyrophosphate dihydrate (CPPD) crystals**. Calcium pyrophosphate crystals cause calcium pyrophosphate disease, a condition commonly called pseudogout. CPPD crystals are usually rhomboidal or rod shaped but are occasionally needle-shaped. These crystals demonstrate positive birefringence, because they are blue when aligned with (parallel to) the compensator filter/axis. The large number of white blood cells in this fluid specimen indicates acute inflammation.

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MICROALBUMIN, DIPSTICK

Specimen UM-1

<i>Participant Results</i>											
<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/L</u>	<u>20 mg/L</u>	<u>30 mg/L</u>	<u>50 mg/L</u>	<u>80 mg/L</u>	<u>100 mg/L</u>	<u>150 mg/L</u>	<u>+ (4 - 8 mg/dL)</u>	<u>++ (>8 mg/dL)</u>
ALL METHODS	41	-	-	-	2	-	16	4	19	-	-
Roche Micral - 1 minute	4	-	-	-	-	-	-	4	-	-	-
Siemens Clinitek Microalbumin	37	-	-	-	2	-	16	-	19	-	-

CREATININE, DIPSTICK

Specimen UM-2

<i>Participant Results</i>								
<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>10 mg/dL</u>	<u>30 mg/dL</u>	<u>50 mg/dL</u>	<u>100 mg/dL</u>	<u>200 mg/dL</u>	<u>300 mg/dL</u>
ALL METHODS	38	-	-	-	9	16	11	2
Siemens Clinitek Microalbumin	36	-	-	-	9	14	11	2
Siemens Multistix Pro	2	-	-	-	-	2	-	-

MICROALBUMIN, QUANTITATIVE

<i>Specimen UM-1</i>						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	73	164.12	13.99	8.5	162.5	114.8 - 213.4
Axis-Shield Afinion AS100	11	175.45	19.96	11.4	176.8	122.8 - 228.1
Beckman AU	15	158.07	4.32	2.7	157.0	110.6 - 205.5
Siemens DCA Vantage	10	159.03	13.91	8.7	153.7	111.3 - 206.8
Siemens Dimension/AR/ES/RxL/Xpand	23	163.03	11.53	7.1	163.1	114.1 - 212.0

CREATININE, URINE (mg/dL)

<i>Specimen UM-1</i>						
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	71	73.76	4.98	6.8	73.8	61.2 - 86.4
Axis-Shield Afinion AS100	11	73.05	2.42	3.3	73.0	60.6 - 85.5
Beckman AU	16	75.06	2.01	2.7	75.0	62.2 - 87.9
Siemens DCA Vantage	10	79.83	5.23	6.6	78.6	66.2 - 93.5
Siemens Dimension/AR/ES/RxL/Xpand	20	70.72	3.63	5.1	71.6	58.6 - 82.8

WAIVED HEMATOLOGY–HEMOGLOBIN (g/dL)

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	6.29	0.29	4.7	6.2	5.7 - 6.9	96	13.21	0.58	4.4	13.2	12.0 - 14.4
All Stanbio Methods	32	6.44	0.39	6.0	6.3	5.6 - 7.3	31	13.74	0.96	7.0	13.6	11.8 - 15.7
Alere (Stanbio) HemoPoint H2	32	6.44	0.39	6.0	6.3	5.6 - 7.3	31	13.74	0.96	7.0	13.6	11.8 - 15.7
HemoCue	69	6.22	0.21	3.4	6.2	5.7 - 6.7	65	13.12	0.54	4.1	13.1	12.0 - 14.3

WAIVED HEMATOLOGY–HEMATOCRIT (percent)

Specimen HD-1							Specimen HD-2					
<u>Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	18.11	1.70	9.4	18.6	14.7 - 21.6	12	35.36	6.69	18.9	38.9	21.9 - 48.8

KOH SKIN PREPARATION

<u>Specimen</u>	<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
K-1	Yeast/fungal elements present	83	58.87%	Acceptable
	Yeast/fungal elements absent	58	41.13%	

Organism present in specimen K-1: *Candida albicans*. Specimen K-1 is graded by 80% referee consensus.

K-2	Yeast/fungal elements present	133	94.33%	Acceptable
	Yeast/fungal elements absent	8	5.67%	

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

URINALYSIS DIPSTICK–SPECIFIC GRAVITY

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	797	1.0203	0.0052	0.5	1.020	1.010 - 1.031
All Refractive Index Methods	16	1.0253	0.0024	0.2	1.025	1.015 - 1.036
All Roche Methods	37	1.0114	0.0023	0.2	1.010	1.001 - 1.022
All Siemens Methods	458	1.0235	0.0024	0.2	1.025	1.013 - 1.034
Henry Schein Urispec	13	1.0142	0.0028	0.3	1.015	1.004 - 1.025
McKesson 10SG Reagent Strips	13	1.0158	0.0028	0.3	1.015	1.005 - 1.026
McKesson 120 Urine Analyzer	16	1.0213	0.0029	0.3	1.020	1.011 - 1.032
Roche Chemstrips	31	1.0131	0.0025	0.2	1.015	1.003 - 1.024
Roche Urisys	29	1.0112	0.0021	0.2	1.010	1.001 - 1.022
Siemens Clinitek 50	22	1.0195	0.0040	0.4	1.020	1.009 - 1.030
Siemens Clinitek Advantus	18	1.0200	0.0001	0.0	1.020	1.010 - 1.030
Siemens Clinitek Status / Status+	405	1.0238	0.0022	0.2	1.025	1.013 - 1.034
Siemens Reagent Strips	148	1.0154	0.0039	0.4	1.015	1.005 - 1.026

URINALYSIS DIPSTICK–pH

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>≤3.5</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	822	-	-	-	1	-	1	15	641	162	2	-	-
Beckman AU	2	-	-	-	-	-	-	1	-	1	-	-	-
BTNX Rapid Response U120/U500	1	-	-	-	-	-	-	-	1	-	-	-	-
Consult Diagnostics Reagent Strips	1	-	-	-	-	-	-	-	1	-	-	-	-
Consult Diagnostics Urine Analyzer	9	-	-	-	-	-	-	4	5	-	-	-	-
CTMI CT-120 Urine Analyzer	8	-	-	-	-	-	-	-	8	-	-	-	-
Diagnostic Test Group Clarity Urocheck	5	-	-	-	-	-	-	2	3	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	-	-	-	-	-	-	2	6	1	-	-	-
Germaine Laboratories AimStrip	2	-	-	-	-	-	-	1	1	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	-	-	-	-	-	-	-	2	-	-	-	-
Henry Schein One Step Plus	8	-	-	-	-	-	-	-	8	-	-	-	-
Henry Schein Urispec	13	-	-	-	-	-	-	-	13	-	-	-	-
Iris Diagnostics iChem Velocity Strips	1	-	-	-	-	-	-	-	1	-	-	-	-
Iris iChem VELOCITY Urine Chemistry System	8	-	-	-	-	-	-	-	8	-	-	-	-
McKesson 10SG Reagent Strips	13	-	-	-	-	-	1	1	9	2	-	-	-
McKesson 120 Urine Analyzer	17	-	-	-	-	-	-	1	16	-	-	-	-
Medline 120 Urine Analyzer	2	-	-	-	-	-	-	1	1	-	-	-	-
Medline Urinalysis Reagent Strips	2	-	-	-	-	-	-	-	2	-	-	-	-
Moore Medical Urine Reagent Strips	2	-	-	-	-	-	-	-	1	1	-	-	-
NDC Pro Advantage	1	-	-	-	-	-	-	-	1	-	-	-	-
Other Analyzer Method	1	-	-	-	-	-	-	-	1	-	-	-	-
Other Dipstick Method	1	-	-	-	-	-	-	-	1	-	-	-	-
pH Paper	1	-	-	-	-	-	-	-	-	1	-	-	-
Roche Chemstrip 101	1	-	-	-	-	-	-	-	1	-	-	-	-
Roche Chemstrips	39	-	-	-	-	-	-	-	39	-	-	-	-
Roche cobas u 411	2	-	-	-	-	-	-	-	2	-	-	-	-
Roche Criterion Analyzer	5	-	-	-	-	-	-	-	5	-	-	-	-
Roche Urisys	29	-	-	-	-	-	-	-	29	-	-	-	-
Siemens Clinitek 10 / 100	7	-	-	-	-	-	-	-	3	4	-	-	-
Siemens Clinitek 50	23	-	-	-	-	-	-	-	21	1	1	-	-
Siemens Clinitek 500	4	-	-	-	-	-	-	-	2	2	-	-	-
Siemens Clinitek Advantus	21	-	-	-	-	-	-	-	3	18	-	-	-
Siemens Clinitek Atlas	2	-	-	-	-	-	-	-	2	-	-	-	-
Siemens Clinitek Status / Status+	412	-	-	-	-	-	-	-	408	4	-	-	-
Siemens Hemacombistix	1	-	-	-	-	-	-	-	-	1	-	-	-
Siemens Multistix Pro	7	-	-	-	-	-	-	-	5	2	-	-	-
Siemens Reagent Strips	155	-	-	-	1	-	-	2	28	123	1	-	-
UriScan Reagent Strips	2	-	-	-	-	-	-	-	2	-	-	-	-

URINALYSIS DIPSTICK–PROTEIN QUALITATIVE

Specimen UA-1

<u>Method</u>	<i>Participant Results</i>												
	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>(1+)</u>	<u>(2+)</u>	<u>(3+)</u>	<u>(4+)</u>	<u>10 - 20</u> <u>mg/dL</u>	<u>30 - 70</u> <u>mg/dL</u>	<u>75</u> <u>mg/dL</u>	<u>100 - 200</u> <u>mg/dL</u>	<u>≥300 - 600</u> <u>mg/dL</u>	<u>>600 or ≥1000</u> <u>mg/dL</u>
ALL METHODS	847	3	-	17	229	117	10	-	13	-	257	200	1
BTNX Rapid Response U120/U500	1	-	-	-	1	-	-	-	-	-	-	-	-
Consult Diagnostics Reagent Strips	1	-	-	-	1	-	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	9	-	-	-	6	-	-	-	-	-	3	-	-
CTMI CT-120 Urine Analyzer	8	-	-	-	7	-	-	-	-	-	1	-	-
Diagnostic Test Group Clarity Urocheck	4	-	-	1	2	1	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	-	-	-	7	-	-	-	-	-	2	-	-
Germaine Laboratories AimStrip	2	-	-	-	1	1	-	-	-	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	1	-	-	-	1	-	-	-	-	-	-	-	-
Henry Schein One Step Plus	8	-	-	1	-	-	-	-	-	-	7	-	-
Henry Schein Urispec	13	-	-	1	-	-	-	-	1	-	11	-	-
Iris Diagnostics iChem Velocity Strips	1	-	-	-	-	-	-	-	-	-	1	-	-
Iris Ichem VELOCITY Urine Chemistry System	8	-	-	-	-	-	-	-	-	-	8	-	-
McKesson 10SG Reagent Strips	13	-	-	-	4	3	2	-	-	-	4	-	-
McKesson 120 Urine Analyzer	17	-	-	-	15	-	-	-	-	-	2	-	-
Medline 120 Urine Analyzer	2	-	-	-	2	-	-	-	-	-	-	-	-
Medline Urinalysis Reagent Strips	2	-	-	-	2	-	-	-	-	-	-	-	-
Moore Medical Urine Reagent Strips	2	-	-	-	1	-	-	-	-	-	1	-	-
NDC Pro Advantage	1	-	-	-	1	-	-	-	-	-	-	-	-
Other Analyzer Method	1	-	-	-	1	-	-	-	-	-	-	-	-
Other Dipstick Method	1	-	-	-	1	-	-	-	-	-	-	-	-
Roche Chemstrip 101	1	-	-	-	-	-	-	-	1	-	-	-	-

URINALYSIS DIPSTICK–PROTEIN QUALITATIVE (cont'd)

Specimen UA-1

<u>Method</u>	<i>Participant Results</i>												
	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>(1+)</u>	<u>(2+)</u>	<u>(3+)</u>	<u>(4+)</u>	<u>10 - 20</u> <u>mg/dL</u>	<u>30 - 70</u> <u>mg/dL</u>	<u>75</u> <u>mg/dL</u>	<u>100 - 200</u> <u>mg/dL</u>	<u>≥300 - 600</u> <u>mg/dL</u>	<u>>600 or ≥1000</u> <u>mg/dL</u>
Roche Chemstrips	53	-	-	1	30	4	-	-	-	-	14	4	-
Roche cobas u 411	2	-	-	-	1	-	-	-	-	-	1	-	-
Roche Criterion Analyzer	5	-	-	1	2	-	-	-	-	-	2	-	-
Roche Urisys	29	-	-	8	4	-	-	-	10	-	7	-	-
Siemens Albustix	1	-	-	-	1	-	-	-	-	-	-	-	-
Siemens Clinitek 10 / 100	7	-	-	-	2	1	-	-	-	-	2	2	-
Siemens Clinitek 50	23	1	-	-	-	8	-	-	-	-	2	12	-
Siemens Clinitek 500	4	-	-	-	2	-	-	-	-	-	2	-	-
Siemens Clinitek Advantus	20	-	-	-	15	-	-	-	-	-	5	-	-
Siemens Clinitek Atlas	2	-	-	-	2	-	-	-	-	-	-	-	-
Siemens Clinitek Status / Status+	410	2	-	-	45	67	-	-	1	-	138	157	-
Siemens Hemacombistix	1	-	-	-	1	-	-	-	-	-	-	-	-
Siemens Multistix Pro	7	-	-	-	-	-	-	-	-	-	3	4	-
Siemens Reagent Strips	157	-	-	2	59	30	4	-	-	-	40	21	1
Siemens Uristix	15	-	-	2	8	1	4	-	-	-	-	-	-
Sulfosalicylic Acid	2	-	-	-	1	1	-	-	-	-	-	-	-
UriScan Reagent Strips	2	-	-	-	1	-	-	-	-	-	1	-	-

URINALYSIS DIPSTICK–GLUCOSE

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Negative or Normal</u>	<u>Trace</u>	<u>(1+)</u>	<u>Participant Results</u>				<u>30 - 100 mg/dL</u>	<u>150 - 300 mg/dL</u>	<u>500 mg/dL</u>	<u>>500 or ≥1000 or ≥2000 mg/dL</u>
ALL METHODS	837	833	1	-	-	-	-	-	3	-	-	-
BTNX Rapid Response U120/U500	1	1	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	9	9	-	-	-	-	-	-	-	-	-	-
CTMI CT-120 Urine Analyzer	8	8	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	5	5	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-	-	-	-	-	-	-	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-	-	-	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-
Henry Schein One Step Plus	8	8	-	-	-	-	-	-	-	-	-	-
Henry Schein Urispec	13	13	-	-	-	-	-	-	-	-	-	-
Iris Diagnostics iChem Velocity Strips	1	1	-	-	-	-	-	-	-	-	-	-
Iris Ichem VELOCITY Urine Chemistry System	8	8	-	-	-	-	-	-	-	-	-	-
McKesson 10SG Reagent Strips	13	13	-	-	-	-	-	-	-	-	-	-
McKesson 120 Urine Analyzer	17	17	-	-	-	-	-	-	-	-	-	-
Medline 120 Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-
Medline Urinalysis Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-
Moore Medical Urine Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-
NDC Pro Advantage	1	1	-	-	-	-	-	-	-	-	-	-
Other Analyzer Method	1	1	-	-	-	-	-	-	-	-	-	-
Other Dipstick Method	2	2	-	-	-	-	-	-	-	-	-	-
Roche Chemstrip 101	1	1	-	-	-	-	-	-	-	-	-	-
Roche Chemstrips	54	54	-	-	-	-	-	-	-	-	-	-
Roche cobas u 411	2	2	-	-	-	-	-	-	-	-	-	-
Roche Criterion Analyzer	5	5	-	-	-	-	-	-	-	-	-	-
Roche Urisys	29	29	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 10 / 100	7	7	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 50	23	23	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 500	4	4	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Advantus	21	21	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Atlas	2	2	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Status / Status+	410	406	1	-	-	-	-	-	3	-	-	-
Siemens Hemacombistix	1	1	-	-	-	-	-	-	-	-	-	-
Siemens Multistix Pro	7	7	-	-	-	-	-	-	-	-	-	-
Siemens Reagent Strips	158	158	-	-	-	-	-	-	-	-	-	-
Siemens Uristix	2	2	-	-	-	-	-	-	-	-	-	-

UriScan Reagent Strips	2	2	-	-	-	-	-	-	-	-	-
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URINALYSIS DIPSTICK–KETONES

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Participant Results</u>								
							<u>(1+)</u>	<u>(2+)</u>	<u>(3+)</u>	<u>(4+)</u>	<u>5 - 10</u> <u>mg/dL</u>	<u>15 - 20</u> <u>mg/dL</u>	<u>40 - 60</u> <u>mg/dL</u>	<u>80 - 100</u> <u>mg/dL</u>	<u>≥150</u> <u>mg/dL</u>
ALL METHODS	816	810	3	1	-	-	1	-	-	-	1	-	-	-	-
BTNX Rapid Response U120/U500	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-
CTMI CT-120 Urine Analyzer	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Henry Schein One Step Plus	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-
Henry Schein Urispec	13	13	-	-	-	-	-	-	-	-	-	-	-	-	-
Iris Diagnostics iChem Velocity Strips	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Iris Ichem VELOCITY Urine Chemistry System	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-
McKesson 10SG Reagent Strips	13	11	-	-	-	-	1	-	-	-	1	-	-	-	-
McKesson 120 Urine Analyzer	17	17	-	-	-	-	-	-	-	-	-	-	-	-	-
Medline 120 Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Medline Urinalysis Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Moore Medical Urine Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
NDC Pro Advantage	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Analyzer Method	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Dipstick Method	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrip 101	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrips	39	39	-	-	-	-	-	-	-	-	-	-	-	-	-
Roche cobas u 411	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Roche Criterion Analyzer	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Roche Urisys	29	29	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 10 / 100	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 50	23	23	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 500	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Advantus	21	21	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Atlas	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Status / Status+	411	411	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Ketostix	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Multistix Pro	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Reagent Strips	155	151	3	1	-	-	-	-	-	-	-	-	-	-	-
UriScan Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-

URINALYSIS DIPSTICK–BILIRUBIN

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small</u>	<u>Moderate</u>	<u>Participant Results</u>					<u>0.5 - 1.0 mg/dL</u>	<u>2.0 - 4.0 mg/dL</u>	<u>6.0 - 10.0 mg/dL</u>	<u>>10.0 mg/dL</u>
						<u>Large</u>	<u>(1+)</u>	<u>(2+)</u>	<u>(3+)</u>	<u>(4+)</u>				
ALL METHODS	791	787	-	-	2	1	1	-	-	-	-	-	-	-
BTNX Rapid Response U120/U500	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	9	9	-	-	-	-	-	-	-	-	-	-	-	-
CTMI CT-120 Urine Analyzer	8	8	-	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	5	5	-	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-	-	-	-	-	-	-	-	-	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Henry Schein One Step Plus	8	8	-	-	-	-	-	-	-	-	-	-	-	-
Henry Schein Urispec	13	13	-	-	-	-	-	-	-	-	-	-	-	-
Iris Ichem VELOCITY Urine Chemistry System	8	8	-	-	-	-	-	-	-	-	-	-	-	-
McKesson 10SG Reagent Strips	13	13	-	-	-	-	-	-	-	-	-	-	-	-
McKesson 120 Urine Analyzer	16	16	-	-	-	-	-	-	-	-	-	-	-	-
Medline 120 Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Medline Urinalysis Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Moore Medical Urine Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-	-	-
NDC Pro Advantage	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Other Analyzer Method	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Other Dipstick Method	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrip 101	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrips	38	38	-	-	-	-	-	-	-	-	-	-	-	-
Roche cobas u 411	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Roche Criterion Analyzer	5	5	-	-	-	-	-	-	-	-	-	-	-	-
Roche Urisys	29	29	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 10 / 100	7	7	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 50	23	23	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 500	4	4	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Advantus	20	20	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Atlas	2	2	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Status / Status+	399	398	-	-	-	1	-	-	-	-	-	-	-	-
Siemens Multistix Pro	5	5	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Reagent Strips	149	146	-	-	2	-	1	-	-	-	-	-	-	-
UriScan Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-	-	-

URINALYSIS DIPSTICK–BLOOD/HEMOGLOBIN

URINALYSIS DIPSTICK–UROBILINOGEN

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<i>Participant Results</i>				
		<u>Normal or 0.0 - 0.2 mg/dL</u>	<u>1.0 or <2.0 mg/dL</u>	<u>2.0/3.0 mg/dL</u>	<u>4.0 or 4.0/6.0 mg/dL</u>	<u>≥8.0 or ≥12.0 mg/dL</u>
ALL METHODS	784	774	5	4	1	-
BTNX Rapid Response U120/U500	1	1	-	-	-	-
Consult Diagnostics Reagent Strips	1	1	-	-	-	-
Consult Diagnostics Urine Analyzer	9	9	-	-	-	-
CTMI CT-120 Urine Analyzer	7	7	-	-	-	-
Diagnostic Test Group Clarity Urocheck	4	3	1	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	1	-	1	-	-
Henry Schein One Step Plus	8	8	-	-	-	-
Henry Schein Urispec	13	13	-	-	-	-
Iris Diagnostics iChem Velocity Strips	1	1	-	-	-	-
Iris Ichem VELOCITY Urine Chemistry System	8	8	-	-	-	-
McKesson 10SG Reagent Strips	12	12	-	-	-	-
McKesson 120 Urine Analyzer	17	16	-	-	1	-
Medline 120 Urine Analyzer	2	2	-	-	-	-
Medline Urinalysis Reagent Strips	1	1	-	-	-	-
Moore Medical Urine Reagent Strips	2	2	-	-	-	-
NDC Pro Advantage	1	1	-	-	-	-
Other Analyzer Method	1	1	-	-	-	-
Other Dipstick Method	1	1	-	-	-	-
Roche Chemstrip 101	1	1	-	-	-	-
Roche Chemstrips	37	37	-	-	-	-
Roche cobas u 411	2	2	-	-	-	-
Roche Criterion Analyzer	5	5	-	-	-	-
Roche Urisys	29	29	-	-	-	-
Siemens Clinitek 10 / 100	7	7	-	-	-	-
Siemens Clinitek 50	23	21	1	1	-	-
Siemens Clinitek 500	4	4	-	-	-	-
Siemens Clinitek Advantus	19	19	-	-	-	-
Siemens Clinitek Atlas	1	1	-	-	-	-
Siemens Clinitek Status / Status+	397	394	1	2	-	-
Siemens Multistix Pro	5	5	-	-	-	-
Siemens Reagent Strips	149	147	2	-	-	-
UriScan Reagent Strips	1	1	-	-	-	-

Specimen UA-1
Participant Results

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>(1+)</u>	<u>(2+)</u>	<u>(3+)</u>	<u>(4+)</u>	<u>(5+)</u>	<u>5 - 25</u> <u>Erv/μL</u>	<u>50 -</u> <u>100</u> <u>Erv/μL</u>	<u>250</u> <u>Erv/μL</u>	<u>±0.03</u> <u>mg/dL</u>	<u>0.06</u> <u>-</u> <u>0.10</u> <u>mg/</u> <u>dL</u>	<u>0.2 -</u> <u>0.5</u> <u>mg/</u> <u>dL</u>	<u>≥ 1.0</u> <u>mg/</u> <u>dL</u>
ALL METHODS	823	3	-	1	19	448	-	21	238	5	1	-	-	86	-	-	-	1
BTNX Rapid Response U120/U500	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Consult Diagnostics Reagent Strips	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	9	-	-	-	-	-	-	2	4	-	-	-	-	3	-	-	-	-
CTMI CT-120 Urine Analyzer	7	-	-	-	-	-	-	-	6	-	-	-	-	1	-	-	-	-
Diagnostic Test Group Clarity Urocheck	4	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	-	-	-	-	-	-	1	8	-	-	-	-	-	-	-	-	-
Germaine Laboratories AimStrip	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Henry Schein One Step Plus	8	-	-	-	-	1	-	-	-	-	-	-	-	7	-	-	-	-
Henry Schein Urispec	13	-	-	-	-	-	-	-	1	-	-	-	-	12	-	-	-	-
Iris Diagnostics iChem Velocity Strips	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Iris Ichem VELOCITY Urine Chemistry System	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-
McKesson 10SG Reagent Strips	12	-	-	-	-	2	-	-	10	-	-	-	-	-	-	-	-	-
McKesson 120 Urine Analyzer	17	-	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-
Medline 120 Urine Analyzer	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Medline Urinalysis Reagent Strips	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Moore Medical Urine Reagent Strips	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
NDC Pro Advantage	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Other Analyzer Method	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Other Dipstick Method	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrip 101	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Roche Chemstrips	50	-	-	-	-	4	-	2	4	-	-	-	-	40	-	-	-	-
Roche cobas u 411	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Roche Criterion Analyzer	5	-	-	-	-	-	-	-	-	3	-	-	-	2	-	-	-	-
Roche Urisys	29	-	-	-	-	-	-	12	-	-	-	-	-	17	-	-	-	-
Siemens Clinitek 10 / 100	7	-	-	-	-	4	-	-	3	-	-	-	-	-	-	-	-	-
Siemens Clinitek 50	23	1	-	1	2	11	-	-	8	-	-	-	-	-	-	-	-	-
Siemens Clinitek 500	4	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-
Siemens Clinitek Advantus	21	-	-	-	-	5	-	-	16	-	-	-	-	-	-	-	-	-
Siemens Clinitek Atlas	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Siemens Clinitek Status / Status+	411	2	-	-	17	289	-	4	99	-	-	-	-	-	-	-	-	-
Siemens Hemacombistix	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Multistix Pro	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-
Siemens Reagent Strips	154	-	-	-	-	112	-	-	40	1	1	-	-	-	-	-	-	-
UriScan Reagent Strips	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-

URINALYSIS DIPSTICK–LEUKOCYTE ESTERASE

Specimen UA-1

<u>Method</u>	<i>Participant Results</i>												
	<u>Labs</u>	<u>Negative</u>	<u>Trace</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>(1+)</u>	<u>(2+)</u>	<u>(3+)</u>	<u>(4+)</u>	<u>25 µL</u>	<u>75 or 100 µL</u>	<u>250 or 500 µL</u>
ALL METHODS	831	823	4	-	-	2	-	-	1	-	1	-	-
BTNX Rapid Response U120/U500	1	1	-	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Reagent Strips	1	1	-	-	-	-	-	-	-	-	-	-	-
Consult Diagnostics Urine Analyzer	9	9	-	-	-	-	-	-	-	-	-	-	-
CTMI CT-120 Urine Analyzer	7	7	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck	4	4	-	-	-	-	-	-	-	-	-	-	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-	-	-	-	-	-	-	-	-	-	-
Germaine Laboratories AimStrip	2	2	-	-	-	-	-	-	-	-	-	-	-
Germaine Labs AimStrip Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-	-
Henry Schein One Step Plus	8	8	-	-	-	-	-	-	-	-	-	-	-
Henry Schein Urispec	13	13	-	-	-	-	-	-	-	-	-	-	-
Iris Diagnostics iChem Velocity Strips	1	1	-	-	-	-	-	-	-	-	-	-	-
Iris Ichem VELOCITY Urine Chemistry System	7	7	-	-	-	-	-	-	-	-	-	-	-
McKesson 10SG Reagent Strips	12	11	1	-	-	-	-	-	-	-	-	-	-
McKesson 120 Urine Analyzer	17	17	-	-	-	-	-	-	-	-	-	-	-
Medline 120 Urine Analyzer	2	2	-	-	-	-	-	-	-	-	-	-	-
Medline Urinalysis Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-	-
Moore Medical Urine Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-	-
NDC Pro Advantage	1	1	-	-	-	-	-	-	-	-	-	-	-
Other Analyzer Method	1	1	-	-	-	-	-	-	-	-	-	-	-
Other Dipstick Method	1	1	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrip 101	1	1	-	-	-	-	-	-	-	-	-	-	-
Roche Chemstrips	50	49	1	-	-	-	-	-	-	-	-	-	-
Roche cobas u 411	2	2	-	-	-	-	-	-	-	-	-	-	-
Roche Criterion Analyzer	5	5	-	-	-	-	-	-	-	-	-	-	-
Roche Urisys	29	28	-	-	-	-	-	-	-	-	1	-	-
Siemens Clinitek 10 / 100	7	7	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 2000	1	1	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 50	23	23	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek 500	5	5	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Advantus	21	21	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Atlas	2	2	-	-	-	-	-	-	-	-	-	-	-
Siemens Clinitek Status / Status+	409	406	-	-	-	2	-	-	1	-	-	-	-
Siemens Multistix Pro	7	7	-	-	-	-	-	-	-	-	-	-	-
Siemens Reagent Strips	151	149	2	-	-	-	-	-	-	-	-	-	-
Siemens Uristix	13	13	-	-	-	-	-	-	-	-	-	-	-
UriScan Reagent Strips	2	2	-	-	-	-	-	-	-	-	-	-	-

URINALYSIS DIPSTICK–NITRITE

Specimen UA-1

Participant Results

<u>Method</u>	<u>Labs</u>	<u>Negative</u>	<u>Positive</u>
ALL METHODS	833	829	4
BTNX Rapid Response U120/U500	1	1	-
Consult Diagnostics Reagent Strips	1	1	-
Consult Diagnostics Urine Analyzer	9	9	-
CTMI CT-120 Urine Analyzer	7	7	-
Diagnostic Test Group Clarity Urocheck	4	4	-
Diagnostic Test Group Clarity Urocheck 120	9	9	-
Germaine Laboratories AimStrip	2	2	-
Germaine Labs AimStrip Urine Analyzer	2	2	-
Henry Schein One Step Plus	9	9	-
Henry Schein Urispec	12	11	1
Iris Diagnostics iChem Velocity Strips	1	1	-
Iris Ichem VELOCITY Urine Chemistry System	8	8	-
McKesson 10SG Reagent Strips	12	12	-
McKesson 120 Urine Analyzer	17	17	-
Medline 120 Urine Analyzer	2	2	-
Medline Urinalysis Reagent Strips	2	2	-
Moore Medical Urine Reagent Strips	2	2	-
NDC Pro Advantage	1	1	-
Other Analyzer Method	1	1	-
Other Dipstick Method	1	1	-
Roche Chemstrip 101	1	1	-
Roche Chemstrips	50	49	1
Roche cobas u 411	2	2	-
Roche Criterion Analyzer	5	5	-
Roche Urisys	29	29	-
Siemens Clinitek 10 / 100	7	7	-
Siemens Clinitek 50	23	23	-
Siemens Clinitek 500	4	4	-
Siemens Clinitek Advantus	21	21	-
Siemens Clinitek Atlas	2	2	-
Siemens Clinitek Status / Status+	409	408	1
Siemens Multistix Pro	7	7	-
Siemens Reagent Strips	154	153	1
Siemens Uristix	13	13	-
UriScan Reagent Strips	2	2	-

URINALYSIS –MICROALBUMIN (dipstick only)

Specimen UA-1

<u>Method</u>	<u>Labs</u>	<i>Participant Results</i>									
		<u>Negative</u>	<u>10 mg/L</u>	<u>20 mg/L</u>	<u>30 mg/L</u>	<u>50 mg/L</u>	<u>80 mg/L</u>	<u>100 mg/L</u>	<u>150 mg/L</u>	<u>+ (4 - 8 mg/dL)</u>	<u>++ (>8 mg/dL)</u>
ALL METHODS	66	4	-	-	-	-	4	13	45	-	-
BTNX Rapid Response											
Microalb/Crea	1	-	-	-	-	-	1	-	-	-	-
Roche Micral - 1 minute	14	1	-	-	-	-	-	13	-	-	-
Siemens Clinitek Microalbumin	45	1	-	-	-	-	1	-	43	-	-

URINALYSIS –URINE hCG

Specimen UA-1

<u>Method</u>	<i>Participant Results</i>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	479	474	5
AimStep Combo Pregnancy	1	1	-
Alere Aceava hCG-Urine	1	1	-
Alere Clearview 25 hCG Combo	2	2	-
Alere Clearview hCG Cassette	7	7	-
Alere Clearview hCG Combo II	2	2	-
Alfa Scientific Instant View	4	4	-
Beckman Coulter ICON 25 hCG	14	14	-
Beckman Coulter ICON II/20 HCG	7	7	-
BioSign hCG	1	1	-
BTNX Rapid Response hCG	1	1	-
Cardinal Health SP Brand combo	27	27	-
Cardinal Hlth SPBrand-cassette	3	3	-
CONSULT diagnostics hCG Cassette	69	69	-
CONSULT diagnostics hCG Combo	16	16	-
CONSULT diagnostics hCG Dipstick	24	23	1
Diagnostic Test Group Clarity hCG Combo	2	2	-
Diagnostic Test Group Clarity hCG strip/cassette	7	7	-
Germaine Laboratories AimStrip Pregnancy	2	2	-
Henry Schein One Step	58	57	1
Immunostics Cept-D	2	2	-
Immunostics hCG Detector-urine	1	1	-
McKesson hCG Combo Cassette	6	6	-
McKesson hCG Urine Cassette	8	8	-
MediChoice hCG Combi Cassette	8	8	-
MediChoice hCG Urine Cassette	1	1	-
Medline hCG Combo Test Cassette	3	3	-
Medline hCG Test Cassette	3	3	-
Medline hCG Test Strip	2	2	-
Moore Medical hCG Urine	2	2	-
NDC Pro Advantage	2	2	-
PEP (Lab Supply) HCG	2	2	-
Polymedco Poly stat hCG	3	3	-
Quidel QuickVue One-Step Combo	21	21	-
Quidel QuickVue One-Step Urine	56	56	-
Quidel QuickVue+ One-Step Combo	26	25	1
Quidel Sofia hCG	2	2	-
RefuAH hCG Dipstick	10	9	1
Sekisui OSOM - Urine Test	1	1	-

URINALYSIS –URINE hCG (cont'd)**Specimen UA-1**

<u>Method</u>	<i>Participant Results</i>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Sekisui OSOM Card Pregnancy	10	9	1
Sekisui OSOM hCG Combo Test	5	5	-
Siemens Clinitek Status / Status+	10	10	-
Stanbio QuPID	7	7	-
Stanbio QuPID Plus	3	3	-
Stanbio TRUE hCG	8	8	-
Sure-Vue hCG - 25mIU	2	2	-
Sure-Vue hCG-STAT	8	8	-

FECAL OCCULT BLOOD

<u>Method</u>	<i>Specimen OC-1</i>			<i>Specimen OC-2</i>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	330	326	4	330	8	322
Alere Clearview iFOBT Complete	2	2	-	2	-	2
Beckman Coulter Hemoccult ICT	32	32	-	32	3	29
Guaiac (slide) Test	204	200	4	204	4	200
Hemosure IFOB	37	37	-	37	1	36
Other Immunochemical FOB kit	20	20	-	20	-	20
Polymedco OC Auto Micro 80	5	5	-	5	-	5
Polymedco OC-Light iFOB	10	10	-	10	-	10
Quidel QuickVue iFOB	9	9	-	9	-	9

2017 M1**Urine Sediment Identification****SPECIMENS US-1 AND US-2****CASE HISTORY:**

A 71-year-old female was visited by a home hospice nurse after developing sudden delirium and violent behavior toward her daughter/caregiver. The patient was usually alert, aware, and oriented, but had been bedridden for about 2 years. Significant history included uncontrolled Type 2 diabetes, single below-the-knee leg amputation, and incontinence, with an indwelling catheter. A urine specimen was collected, and results appear below.

Color = Yellow

Appearance = Turbid

Dipstick results:

Specific gravity = 1.030

pH = 7.5

Blood = Small (1+)

Leukocyte esterase = Large (3+)

Protein = 30 mg/dL (1+)

Glucose = Negative

Ketones = Small (1+)

Bilirubin = Negative

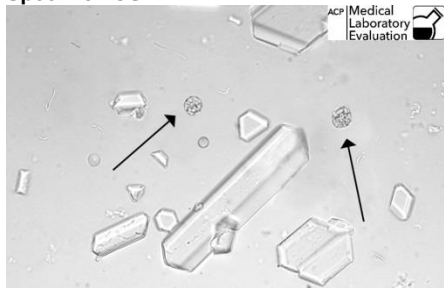
Urobilinogen = Negative

Nitrite = Positive

This patient was diagnosed with a urinary tract infection. Elders with urinary tract infection (UTI) can have different symptoms compared to younger adults. The classic physical symptoms of urinary pain, burning, frequency, and urgency are often absent in the elderly. Instead, their symptoms are often largely behavioral. Altered mental status, or delirium, involves a short-term mental status change (over the span of hours or days) that is caused by a potentially reversible condition (such as infections, hypoglycemia, medication side effects, etc.) UTI is the most common cause of a sudden increase in confusion in an older person with dementia. Examples of altered mental status include excessive sleepiness, lethargy, restlessness, agitation, paranoia, violence, or yelling that was not present before.

Urine Sediment Identification

Specimen US-1



The arrows in this photograph point to **white blood cells**. These white blood cells are much larger than the red blood cells in this field at center and 9 o'clock. White blood cells, or leukocytes, appear granular due to the visible nuclear material inside. Red blood cells are smaller in size and generally appear hollow or empty. There are two red blood cells near the arrow on the left. WBCs are increased in patients with infection of the bladder or kidneys. The granulocytic white blood cells that respond to infection and inflammation produce enzymes called esterases. When many WBCs are present in the urine, the dipstick turns positive for leukocyte esterase, indicating pyuria. To view another photo of WBCs, see 2015 M3 Specimen US-6.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
White blood cell (WBC)	503	96.18%	Acceptable

Specimen US-2



The arrows in this photograph point to **triple phosphate crystals**. Their typical 3-6 sided rectangular shape is described as "coffin lids". They can vary greatly in size, and are commonly seen in neutral or alkaline urine (pH>=7.0). These crystals are rarely clinically significant, however triple phosphate (also called struvite) can form urinary stones in the kidneys. To view another photo of triple phosphate crystals, see 2013 M2 Specimen US-3.

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Triple phosphate crystal	494	95.00%	Acceptable

REFERENCES:

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

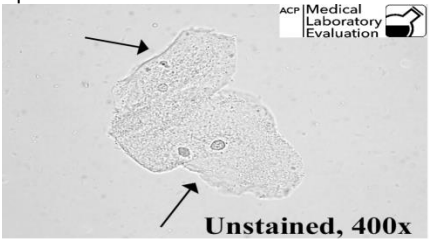
Mundt, L.A, Shanahan, K.: *Graff's Textbook of Routine Urinalysis and Body Fluids*, 2nd ed. Philadelphia: Lippincott Williams & Wilkins, 2011.

Rotolo, C. "UTIs Cause Behavioral, Not Physical Symptoms in Elders." Aging Care LLC. Accessed 3/17/17. Available at: <https://www.agingcare.com/articles/urinary-tract-infection-symptoms-151547.htm>

PROVIDER-PERFORMED MICROSCOPY (PPM)

Wet Mount Preparation

Specimen PPM-1

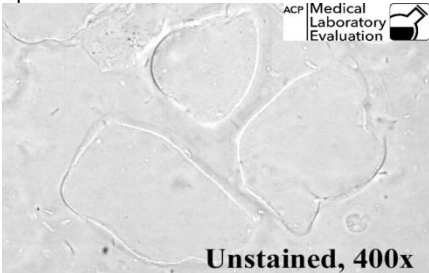


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Clue cell	308	59.57%	Acceptable
Squamous epithelial cell	198	38.30%	
Bacteria	7	1.35%	

The arrows in this photograph of a vaginal wet mount point to **clue cells**. Clue cells are epithelial cells so completely covered with bacteria that the cell appears speckled or glittery. The outer edges of the cell are usually obscured by the bacteria and appear torn or ragged. It is important to learn the difference between normal squamous cells and clue cells because squamous epithelial cells are a normal finding, while clue cells are indicative of bacterial vaginosis. To view another clue cell, see 2015 M1 Specimen PPM-1. To view squamous epithelial cell, see 2016 M1 Specimen PPM-1. **Specimen PPM-1 is graded by 91% referee consensus.**

KOH Preparation

Specimen PPM-2



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Yeast/fungal elements absent	479	97.56%	Acceptable
Yeast/fungal elements present	12	2.44%	

Yeast and fungal elements are absent in this photograph of a KOH vaginal wet mount. To view a photo of yeast in a KOH prep, see 2015 M3 Specimen PPM-14, or 2016 M1 Specimen PPM-2.

PROVIDER-PERFORMED MICROSCOPY (PPM)

Scabies Detection

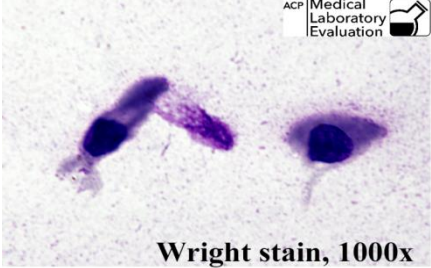
Specimen PPM-3



One scabies mite is present in this photograph of a skin scrapings preparation. The mites burrow into the skin and produce a pimple-like (papular) rash that itches. The diagnosis of scabies is often made only by the patient history and examination of the skin. Identification of the mite, its burrows, eggs, or feces (called scybala) confirms the clinical suspicion of scabies. Scabies can be difficult to find by laboratory testing, though, because mites are often few in number. The scabies mite, or human itch mite (*Sarcoptes scabiei*), is usually spread by prolonged direct personal contact with an infested person. It can also be spread indirectly by prolonged contact with infested clothing or bedding. There may be only 10-15 mites on the entire body of an infested person who is otherwise healthy, so a negative test does not rule out the diagnosis. To view another photo of a scabies mite, see 2016 M2 Specimen PPM-8.

Nasal Smear

Specimen PPM-4



Eosinophils are absent in this photograph of Wright-stained nasal mucus. The cells shown in this photo are not eosinophils. The purpose of examining respiratory secretions for leukocytes (white blood cells) is to differentiate allergic conditions from infections. Eosinophils are a specific type of leukocyte associated with allergic conditions. “Eos” take on a unique red-orange color that makes them easy to spot and identify. The orange color of the eosinophil comes from the dye eosin, which is a component of Wright stain. The cytoplasm of an eosinophil is filled with large, round, orange-staining granules that surround the purple nucleus but do not obscure it from view. To view a photo of eosinophils in a nasal smear, see 2016 M1 Specimen PPM-4.

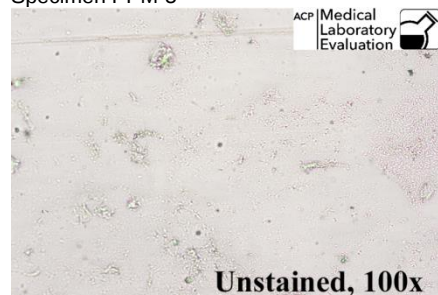
<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Scabies present	196	98.00%	Acceptable

<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Eosinophils absent	109	79.56%	Acceptable
Eosinophils present	28	20.44%	

PROVIDER-PERFORMED MICROSCOPY (PPM)

Pinworm Preparation

Specimen PPM-5

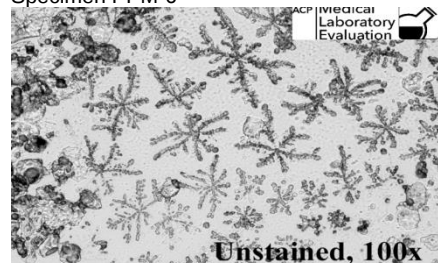


<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Pinworms/eggs absent	219	97.33%	Acceptable
Pinworms/eggs present	6	2.67%	

Pinworm eggs are absent in this photograph of a perianal pinworm preparation. To view a photo of pinworm eggs, see 2016 M1 Specimen PPM-5.

Vaginal Fluid Preparation

Specimen PPM-6



<u>Identification</u>	<u>Labs</u>	<u>Percent</u>	<u>Performance</u>
Ferning present	229	99.57%	Acceptable
Ferning absent	1	0.43%	

Ferning is present in this photograph of air-dried vaginal secretions. The fern test is used to detect the premature rupture of membranes surrounding the fetus during pregnancy. Sodium chloride in amniotic fluid crystallizes to form a plant-like pattern when dried on a microscope slide, unlike urine or normal vaginal secretions. Fern-type crystallization indicates leakage of amniotic fluid.

References:

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

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

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Scabies. In: Parasite Image Library at DPDx Laboratory Identification of Parasites of Public Health Concern. Centers for Disease Control and Prevention (CDC). Available at: <http://www.cdc.gov/dpdx/scabies/index.html>

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