



Inter-laboratory Quality Assurance Program (IQAP)

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Application Support

Inter-laboratory Quality Assurance Program (IQAP)

- Introduction
- Enrollment
- Data Submission
- IQAP Report

Inter-laboratory Quality Assurance Program (IQAP)

Introduction:

- Beckman Coulter's Inter-laboratory Quality Assurance Program (IQAP) both complements and enhances your Laboratory's in-house quality control.
- The IQAP program is comprehensive and easy to use.

Inter-laboratory Quality Assurance Program (IQAP)

Enrollment

- Easy enrollment online method
- Enrollment done through Beckman Coulter website www.beckmancoulter.com by choosing IQAP function
- Assignment of a unique identification number for each instrument enrolled
- It is an eight digit number that identifies your facility, the laboratory location and the instrument itself.

The screenshot shows the Beckman Coulter Quality Assurance Programs website. The header includes the Beckman Coulter logo, a "Welcome" message, and navigation links for "Quality Assurance Programs", "My Profile", and "Logout". The main content area is titled "Home > Hematology" and is divided into several sections:

- My Instrument:** Displays "Participant No: 41298" and an image of a hematology analyzer. A red box highlights the unique identification number: **41298-1-E3 [LH 750] S/N:AT31147**. Below the image, it says "Last upload on Aug 28, 2012" and "Upload Now".
- Change Instrument:** A list of instrument options with the selected one highlighted: [\[LH 500\] \[41298-1-C1\]](#), [\[LH 750\] \[41298-1-E1\]](#), [\[LH 750\] \[41298-1-E2\]](#), [\[LH 750\] \[41298-1-E3\]](#), and [\[LH 780\] \[41298-1-E1\]](#).
- My eIQAP:** States "Based on your preferences, you are displaying 5 of 5 authorized instrument(s)." and includes links for "Preferences" and "Add Institution".
- Reports for 41298-1-E3:** Lists "Last 5C report was posted on Sep 25, 2012." and a link to "5C".
- Cell Control Data for 41298-1-E3:** Offers to "Create a new Summary or Daily data entry form".
- Linearity Control Data for 41298-1-E3:** Offers to "Create a new Lin-C Linearity Control data entry form".
- Pool Statistics for LH 750:** Offers to "Review active Pool Statistics for LH 750 instruments."
- Hematology Resources:** Includes links for "Hematology Assays", "eIQAP Help", and "Hematology IQAP Customer Manual".

At the bottom right, a note states: "To display the reports, manuals or other documents you need Adobe Acrobat Reader. If you don't have it and would like to download the application, click..."

Inter-laboratory Quality Assurance Program (IQAP)

Data Submission

- The Electronic IQAP submission method is a fast and easy way to submit data:
 - ✓ Daily and Summary data can be entered directly, or
 - ✓ Data can be uploaded from a floppy diskette.
- Data submitted by these methods provides a rapid turn-around-time for reports.

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Welcome [redacted] Quality Assurance Programs [My Profile](#) [Logout](#)

[Home](#) > Hematology

My Instrument

Participant No: 41298

41298-1-E3 [LH 750] S/N:AT31147

Last upload on Aug 28, 2012 [Upload Now](#)

Change Instrument

- [LH 500 \[41298-1-C1\]](#)
- [LH 750 \[41298-1-E1\]](#)
- [LH 750 \[41298-1-E2\]](#)
- [LH 750 \[41298-1-E3\]](#)
- [LH 780 \[41298-1-F1\]](#)

My eIQAP

- Based on your preferences, you are displaying 5 of 5 authorized instrument(s).

[Preferences](#) | [Add Institution](#)

Reports for 41298-1-E3

- [Last 5C report was posted on Sep 25, 2012.](#)

Click on the links below to view other reports

[5C](#)

Cell Control Data for 41298-1-E3

- Create a new [Summary](#) or [Daily](#) data entry form

Linearity Control Data for 41298-1-E3

- Create a [new](#) Lin-C Linearity Control data entry form

Pool Statistics for LH 750

- [Review](#) active Pool Statistics for LH 750 instruments.

Hematology Resources

- [Hematology Assays](#)
- [eIQAP Help](#)
- [Hematology IQAP Customer Manual](#)

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Inter-laboratory Quality Assurance Program (IQAP)

IQAP Report

- The IQAP report has four main sections:
 - ✓ **Identification:** demographics of your institution
 - ✓ **Notes:** narrative notes on acceptability of results and informational bulletins
 - ✓ **Data Evaluation:** a statistical summary of your data and peer group results
 - ✓ **Instrument Performance Matrix:** a visual summary of your instrument's accuracy and precision.

IQAP Report

Page One – Identification:

- Page one identifies the set of data your IQAP report covers. Make sure this information matches your own records



Interlaboratory Quality Assurance Program
Beckman Coulter, Inc.
Miami, Florida 33116

Prepared For:

1

Cheryl Cross
Associated Clinics
Hematology
1234 5th Street
Any City, ST 12345

The contact person's name,
institution name and address

2

IQAP ID: 03147-I-E1
Shift: 0
Instrument: COULTER(R) LH 750 - AG32415

IQAP Participant ID number, laboratory
number, system code, shift designation,
instrument type, and serial number

Using COULTER(R) 5C(R) Cell Control with LH Series Diluent

3

	Current Submission	Report ID : 2577 889
Abnormal I	870200	Mar. 31 - May. 1, 2008
Normal	889700	Mar. 31 - May. 1, 2008
Abnormal II	860800	Mar. 31 - May. 1, 2008

Control type, levels, lot numbers,
and corresponding use dates.

IQAP Report

Page two – Notes

- Page Two summarizes your performance in peer review based upon accuracy and precision indices and notifies of any flagged results.

NOTES

Prepared for Associated Clinics, IQAP ID : 03999-1-61 Shift : 1 Lot Numbers : 060000 ,077400 ,089900

This area contains both general and specific notes relative to the data you have submitted. The ratio of your CV to the Pool CV is called the CVI which is a measurement of precision. The accuracy assessment is shown by the SDI parameter. The SDI compares the difference between your laboratory mean and the pool mean relative to the variability of all pool means. When a note to review SDI data is generated one must assess the clinical significance between the participant and the pool mean.

Most parameters are flagged when the CVI is greater than 2.00 or the SDI is less than -2.00 or greater than 2.00. The RDW and WBC differential parameters are flagged when the CVI is greater than 3.00 or the SDI is less than -3.000 or greater than 3.000. If your data is flagged for these parameters the Instrument Performance Index will be placed on 3 SDI or 3 CVI within the Instrument Performance Matrix.

If you have any questions concerning this report, please contact our Customer Technical Support at (800) 526-7694 in the US and Canada, or local distributor internationally.

Our interlaboratory comparison indicates that your precision and accuracy relative to peer data, for the measured parameters, agree with those of all other reporting laboratories.

IQAP Report

- Page Three – Data Evaluation
- The Data Evaluation page displays statistical summaries of your control results next to those of your peer group (the “POOL”).
- The statistical parameters that are compared to the pool are the MEAN, SD and CV.
- The Data Evaluation page also lists the assay value of each parameter for reference.

INTERLABORATORY QUALITY ASSURANCE PROGRAM DATA EVALUATION

Prepared for Lab Corp IQAP ID: 03147-1-E1 Shift: 0 Report ID: 2577889

Parameter and Level		Assay	Means and SDs				Current and History CVs					Counts		SDI and CVI	
		870200 889700 860800	Your Mean	Pool Mean	Your SD	SE Diff	Your CV	History CV (1)	History CV (2)	History CV (3)	Pool CV	Your Count	Labs	SDI	CVI
WBC	Abnormal I	21.3	21.3	21.2	0.17	0.35	0.79	1.11	1.42	0.94	1.03	100	390	0.29	0.77
	Normal	9.2	9.3	9.2	0.14	0.20	1.54	1.65	1.72	1.31	1.33	102	414	0.50	1.16
	Abnormal II	3.3	3.3	3.3	0.08	0.10	2.38	2.43	3.19	1.88	2.82	58	389	0.00	0.85
RBC	Abnormal I	4.13	4.10	4.14	0.024	0.036	0.584	0.706	0.940	0.689	0.605	100	390	-1.11	0.96
	Normal	5.39	5.32	5.37	0.037	0.053	0.692	0.806	1.011	0.754	0.624	102	414	-0.94	1.11
	Abnormal II	1.79	1.79	1.80	0.016	0.021	0.917	0.785	1.179	0.849	0.757	59	389	-0.48	1.21
Hgb	Abnormal I	13.0	12.9	12.9	0.09	0.13	0.69	0.74	0.99	0.57	0.64	100	390	0.00	1.08
	Normal	16.5	16.4	16.4	0.12	0.17	0.76	0.85	0.87	0.52	0.61	101	414	0.00	1.24
	Abnormal II	5.0	5.0	5.0	0.07	0.08	1.38	1.24	1.07	1.14	1.27	59	389	0.00	1.09
Hct	Abnormal I	36.4	36.7	36.7											
	Normal	47.5	47.6	47.8											
	Abnormal II	14.2	14.3	14.3											
MCV	Abnormal I	88.2	89.4	88.8	0.54	0.96	0.60	0.71	0.77	0.56	0.67	100	390	0.63	0.90
	Normal	88.1	89.6	88.9	0.50	0.94	0.56	0.69	0.67	0.59	0.61	102	414	0.74	0.92
	Abnormal II	79.3	80.3	79.7	0.60	0.95	0.75	1.43	1.42	0.88	0.79	59	389	0.63	0.95
MCH	Abnormal I	31.5	31.6	31.3											
	Normal	30.6	30.8	30.5											
	Abnormal II	27.9	28.1	28.0											
MCHC	Abnormal I	35.7	35.3	35.2											
	Normal	34.7	34.3	34.3											
	Abnormal II	35.2	35.0	35.1											
RDW	Abnormal I	14.8	15.0	15.1	0.22	0.26	1.45	1.49	1.39	1.26	1.52	100	390	-0.38	0.95
	Normal	14.8	14.9	14.9	0.18	0.22	1.24	1.40	1.48	1.58	1.39	102	414	0.00	0.89
	Abnormal II	15.8	16.0	16.1	0.22	0.25	1.39	1.67	1.39	1.27	1.43	59	389	-0.40	0.97
Pit	Abnormal I	451	450	455	8.8	11.5	1.9	1.8	3.6	2.1	1.8	100	390	-0.43	1.08
	Normal	233	230	233	4.3	5.7	1.9	1.7	3.6	2.1	1.9	102	414	-0.53	0.99
	Abnormal II	74	73	74	1.3	1.8	1.8	2.0	4.0	1.9	2.1	59	389	-0.56	0.87
MPV	Abnormal I	10.4	10.7	10.5	0.10	0.19	0.91	0.93	0.73	0.74	0.90	100	390	1.05	1.00
	Normal	10.2	10.6	10.4	0.10	0.19	0.92	0.86	0.77	0.69	0.91	102	414	1.05	1.01

Criteria for accepting CVI and SDI

- A CVI between 0.00 and 2.00 indicates good or precise performance and is not flagged.
- A CVI of 2.00 or above is flagged for review.
- An SDI between 0.00 and 2.00 indicates good or accurate performance and is not flagged.
- An SDI of 2.00 or above is flagged for review.
- NOTE: RDW and the WBC Differential are not flagged until the SDI is greater than 3.00.

Instrument Performance Matrix

- These graphs present your instrument's QC performance at a glance.

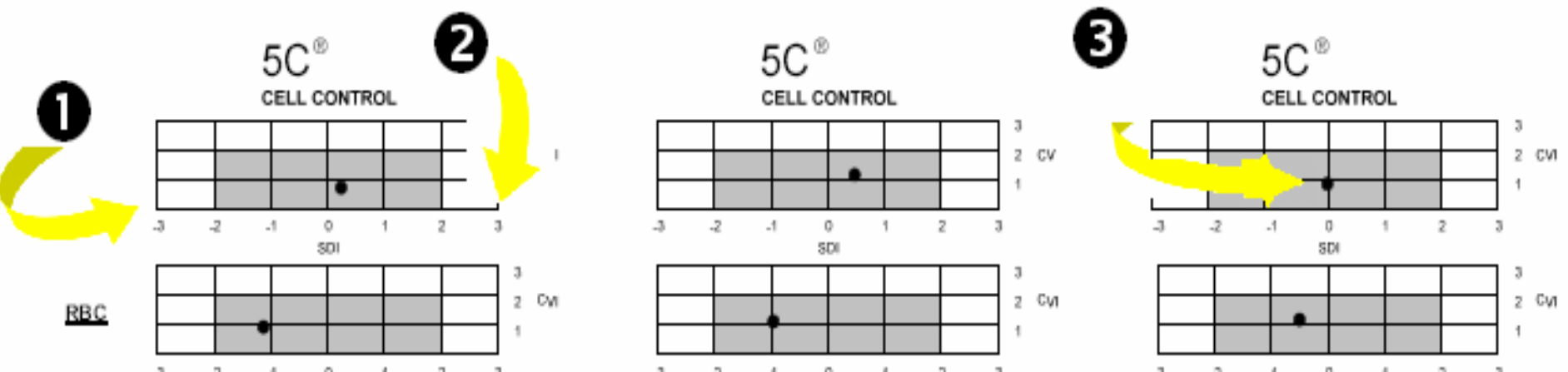
1) The X axis represents SDI, or accuracy and the Y axis represents CVI, or precision.

2) The origin (SDI = 0) and CVI=0) represents "truth".

3) The dot is close to zero on the SDI or X axis. This indicates excellent accuracy and almost perfect agreement with the pool.

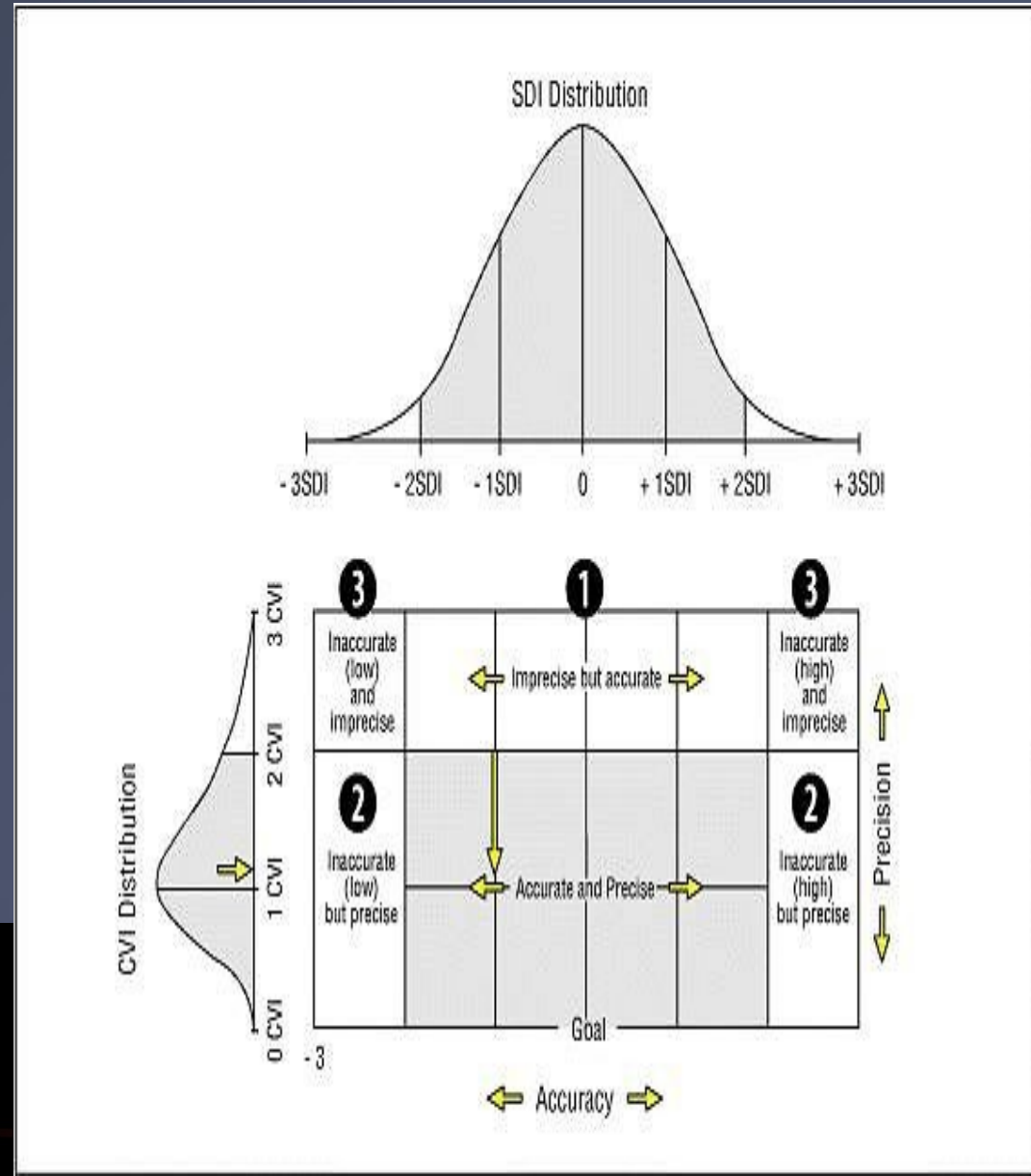
INSTRUMENT PERFORMANCE MATRIX

Prepared for Lab Corp IQAP ID: 03147-1-E1 Shift: 0 Report ID: 2577889



Instrument Performance Matrix

- 1) Accuracy is within limits, precision is not
- 2) Precision is within limits, accuracy is not
- 3) Neither is within limits



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Welcome XXXXXXXXXX Quality Assurance Programs [My Profile](#) [Logout](#)

[Home](#) > Hematology

My Instrument

Participant No: 41298



41298-1-E3 [LH 750] S/N:AT31147

Last upload on Aug 28, 2012  [Upload Now](#)

Change Instrument

- [LH 500 \[41298-1-D1\]](#)
- [LH 750 \[41298-1-E1\]](#)
- [LH 750 \[41298-1-E2\]](#)
- [LH 750 \[41298-1-E3\]](#)
- [LH 780 \[41298-1-F1\]](#)

My eIQAP

- Based on your preferences, you are displaying 5 of 5 authorized instrument(s).

[Preferences](#) | [Add Institution](#)

Reports for 41298-1-E3

- Last 5C report was posted on Sep 25, 2012.

Click on the links below to view other reports

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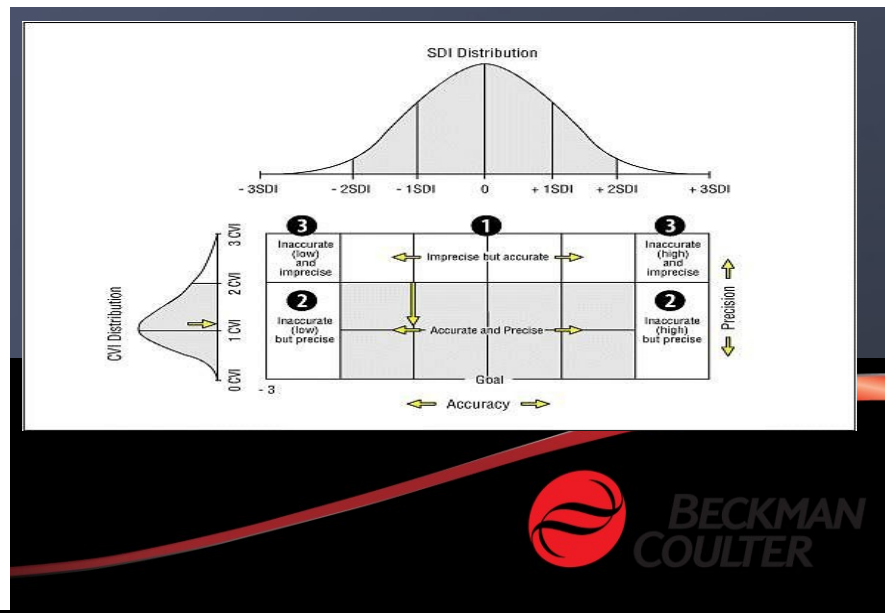
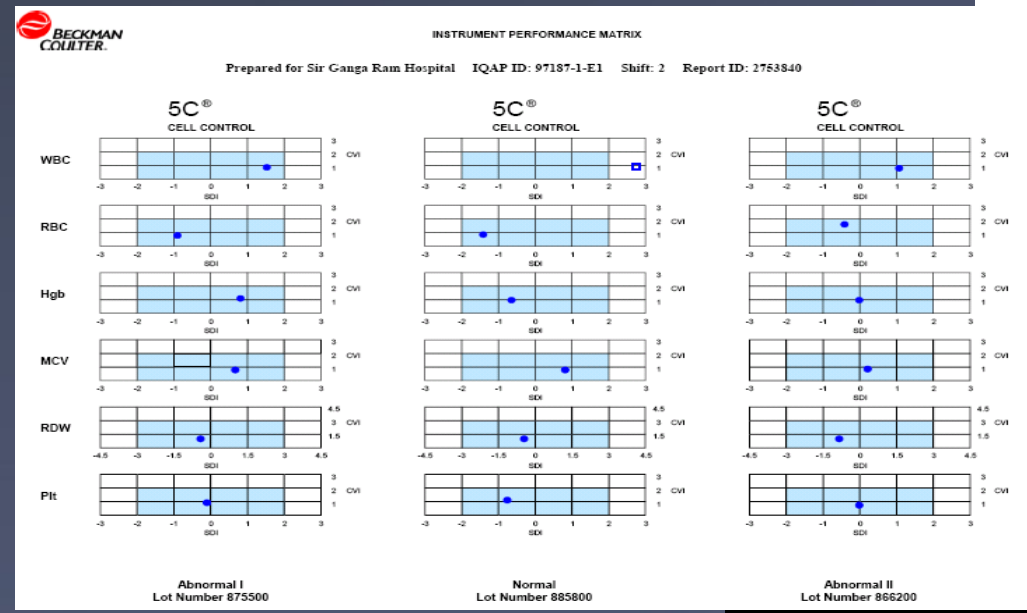
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INTERLABORATORY QUALITY ASSURANCE PROGRAM DATA EVALUATION

Prepared for Sir Ganga Ram Hospital IQAP ID: 97187-1-E1 Shift: 2 Report ID: 2753840

Parameter and Level	Assay	Means and SDs				Current and History CVs				Counts*		SDI and CVI**		
		Your Mean	Pool Mean	Your SD	SE Diff	Your CV	History CV (1)	History CV (2)	History CV (3)	Pool CV	Your Count	Pool Size	SDI	CVI
US Units	875500													
	885800													
	866200													
WBC	Abnormal I	20.2	20.5	20.0	0.18	0.32	0.90	0.80	1.29	1.02	28	426	1.56	0.88
	Normal	8.8	9.3	8.8	0.12	0.18	1.31	1.64	1.93	1.36	27	488	2.78	0.97
	Abnormal II	3.4	3.4	3.3	0.07	0.09	2.19	2.85	2.34	2.68	28	574	1.11	0.82
RBC	Abnormal I	4.10	4.09	4.12	0.020	0.034	0.499	0.713	0.417	0.609	28	426	-0.88	0.82
	Normal	5.34	5.27	5.34	0.032	0.050	0.608	0.889	0.639	0.676	27	488	-1.40	0.90
	Abnormal II	1.83	1.80	1.81	0.023	0.026	1.299	1.744	0.650	0.788	28	574	-0.38	1.65
Hgb	Abnormal I	12.9	12.9	12.8	0.08	0.12	0.66	0.77	0.73	0.59	28	426	0.83	1.12
	Normal	16.3	16.1	16.2	0.10	0.16	0.63	0.82	0.81	0.63	27	488	-0.63	0.99
	Abnormal II	5.2	5.1	5.1	0.06	0.07	1.13	0.95	0.97	1.13	28	574	0.00	1.00
Hct	Abnormal I	36.7	36.6	36.7										
	Normal	47.3	47.1	47.4										
	Abnormal II	14.7	14.4	14.5										
MCV	Abnormal I	89.4	89.7	89.1	0.52	0.85	0.58	0.76	0.42	0.71	28	426	0.71	0.82
	Normal	88.5	89.3	88.6	0.49	0.82	0.54	0.84	0.40	0.67	27	488	0.85	0.81
	Abnormal II	80.6	80.1	79.9	0.54	0.80	0.68	0.57	0.35	0.75	28	574	0.25	0.90
MCH	Abnormal I	31.5	31.6	31.2										
	Normal	30.5	30.6	30.3										
	Abnormal II	28.4	28.3	28.2										
MCHC	Abnormal I	35.1	35.3	35.0										
	Normal	34.5	34.2	34.2										
	Abnormal II	35.4	35.3	35.3										
RDW	Abnormal I	14.9	15.2	15.3	0.24	0.27	1.58	1.11	2.11	1.55	28	426	-0.37	1.02
	Normal	14.8	15.0	15.1	0.23	0.26	1.52	1.40	1.69	1.45	27	488	-0.38	1.05
	Abnormal II	15.6	15.5	15.7	0.22	0.25	1.46	1.19	0.76	1.38	28	574	-0.80	1.06
Pit	Abnormal I	416	420	421	8.8	11.9	2.1	2.0	0.8	2.2	28	426	-0.08	0.95
	Normal	213	211	216	5.4	6.9	2.6	2.4	1.1	2.3	27	488	-0.72	1.14
	Abnormal II	70	72	72	1.2	1.9	1.8	2.1	1.7	2.3	28	574	0.00	0.77
MPV	Abnormal I	10.9	10.7	10.6	0.08	0.20	0.79	0.67	0.94	1.00	28	426	0.50	0.80
	Normal	10.9	10.8	10.8	0.10	0.20	0.90	1.09	1.12	0.92	27	487	0.00	0.97
	Abnormal II	10.0	10.0	9.9	0.08	0.18	0.82	0.67	0.82	0.96	28	573	0.56	0.86



**THANK YOU
FOR YOUR ATTENTION**