Laboratory Procedure Manual

Analyte: **Complete Blood Count**

Matrix: **Whole Blood**

Method: **Complete Blood Count with 5-Part Differential**

Method No.:

Revised:

as performed by:

Contact:

September 2013

Important Information for Users

CDC periodically refines these laboratory methods. It is the responsibility of the user to contact the person listed on the title page of each write-up before using the analytical method to find out whether any changes have been made and what revisions, if any, have been incorporated.

Public Release Data Set Information

This document details the Lab Protocol for testing the items listed in the following table:

Lab Number	Analyte	SAS Label
CBC_G	LBXWBCSI	White blood cell count (1000 cells/uL)
	LBXLYPCT	Lymphocyte (%)
	LBXMOPCT	Monocyte (%)
	LBXNEPCT	Segmented neutrophils (%)
	LBXEOPCT	Eosinophils (%)
	LBXBAPCT	Basophils (%)
	LBDLYMNO	Lymphocyte number (1000 cells/uL)
	LBDMONO	Monocyte number (1000 cells/uL)
	LBDNENO	Segmented neutrophils number (1000 cells/uL)
	LBDEONO	Eosinophils number (1000 cells/uL)
	LBDBANO	Basophils number (1000 cells/uL)
	LBXRBCSI	Red cell count (million cells/uL)
	LBXHGB	Hemoglobin (g/dL)
	LBXHCT	Hematocrit (%)
	LBXMCVSI	Mean cell volume (fL)
	LBXMCHSI	Mean cell hemoglobin (pg)
	LBXMC	MCHC (g/dL)
	LBXRDW	Red cell distribution width (%)
	LBXPLTSI	Platelet count ((1000 cells/uL))
	LBXMPSI	Mean platelet volume (fL)

COMPLETE BLOOD COUNT (CBC)

Perform a complete blood count (CBC) in duplicate on all survey participants age 1 and older. Perform the CBC on the Coulter® HMX. Run a CBC on the participant's EDTA blood tubes.

I. Purpose and Principle of Test

CBC Analysis

The Coulter® method accurately counts and sizes cells by detecting and measuring changes in electrical resistance when a particle (such as a cell) in a conductive liquid passes through a small aperture.

Each cell suspended in a conductive liquid (diluent) acts as an insulator. As each cell goes through the aperture, it momentarily increases the resistance of the electrical path between the submerged electrodes on either side of the aperture. This causes a measurable electronic pulse. For counting, the vacuum used to pull the diluted suspension of cells through the aperture must be at a regulated volume.

The number of pulses correlates to the number of particles. The height of the electrical pulse is proportional to the cell volume.

Differential Analysis

As the sample, prepared for differential analysis, streams through the flow cell these three measurements occur simultaneously on each individual white cell to classify it:

- -Low-frequency current measures volume.
- -High-frequency current senses cellular internal content through measuring changes in conductivity.
- -Light from the laser bouncing off the individual WBC cells characterizes cellular surface, shape, and reflectivity.

The Coulter HMX Hematology Analyzer is a quantitative, automated hematology analyzers and leukocyte differential cell counters for In Vitro Diagnostic use in clinical laboratories. The purpose of the HMX Hematology Analyzer is to separate the normal participant, with all normal system-generated parameters, from the participant who needs additional studies. These studies include further measurements of cell size and cell distribution, biochemical investigation, or any other test that helps diagnose the abnormality.

The HMX measures these parameters in whole blood:

Cell	Parameter	Measured	Pulse size Wavelength Calculation	Reported Units
WBC	White Blood Cell Count This is the number of leukocytes measured directly, multiplied by the calibration constant, and expressed as n x 10^3 cells/µL	WBC bath	≥35 fL	n x 10^3 cells/µL

RBC	Red Blood Cell Count This is the number of erythrocytes measured directly, multiplied by the calibration constant, and expressed as n x 10^6 cells/µL	RBC bath	36 to 360 fL	n x 10^6 cells/µL
Hgb	Hemoglobin Concentration Weight (mass) of hemoglobin determined from the degree of absorbance found through photocurrent transmittance is: Hgb(g/dL) = Constant x log10(Reference %T/Sample%T)	WBC bath	525 nm	g/dL
Hct	Hematocrit This is the relative volume of packed erythrocytes to whole blood, computed as: Hct (%) = RBC × CV/10	Computed	RBC x MCV/10	% Percent

MCV	Mean Cell Volume This is the average volume of individual erythrocytes derived from the RBC histogram. The system: ▪ Multiplies the number of RBCs in each channel by the size of the RBCs in that channel. ▪ Adds the products of each channel between 36 fL and 360 fL. ▪ Divides that sum by the total number of RBCs between 36 fL and 360 fL. ▪ Multiplies by a calibration constant and expresses MCV in femtoliters.	Derived from RBC histogram	# x size of RBC/ Total RBC	fL
MCH	Mean Cell Hemoglobin This is the weight of hemoglobin in the average erythrocyte count, computed as: Hgb/RBC x 10	Computer	Hgb/RBC x 10	pg
MCHC	Mean Cell Hemoglobin Concentration This is the average weight of hemoglobin in a measured dilution, computed as: Hgb/Hct x 100	Computed	Hgb/Hct x 100	g/dL

RDW	Red Cell Distribution Width RDW represents the size distribution spread of the erythrocyte population derived from the RBC histogram. It is the coefficient of variation (CV), expressed in percent, of the RBC size distribution.	Derived from RBC histogram	CV expressed in % of the RBC size distribution	% Percent
Plt	Platelet Count This is the number of thrombocytes derived from the Plt histogram and multiplied by a calibration constant. This number is expressed as: n x 10^3 cells/µL	RBC bath	2 to 20 fL	n x 10^3 cells/µL
MPV	Mean Platelet Volume MPV is the average volume of individual platelets derived from the Plt histogram. It represents the mean volume of the Plt population under the fitted Plt curve multiplied by a calibration constant, and expressed in femtoliters.	Derived from Plt histogram	Mean volume of Plt population under the fitted curve x constant	fL
NE%	Neutrophil Percent The percentages of leukocytes from each category are derived from the scatterplot.	Derived from scatterplot	# cells inside NE area/# cells inside total cell area x 100	% Percent
NE #	Neutrophil Number The absolute numbers of leukocytes in each category are computed from the WBC count and the differential percentage parameters.	Absolute number	NE%/100 x WBC Count	10^3 cells/µL

LY%	Lymphocyte Percent The percentages of leukocytes from each category are derived from the scatterplot.	Derived from scatterplot	# cells inside LY area/# cells inside total cell area x 100	% Percent
LY#	Lymphocyte Number The absolute numbers of leukocytes in each category are computed from the WBC count and the differential percentage parameters.	Absolute number	Ly%/100 x WBC Count	10^3 cells/µL
MO%	Monocyte Percent The percentages of leukocytes from each category are derived from the scatterplot.	Derived from scatterplot	# cells inside MO area/# cells inside total cell area x 100	% Percent
MO#	Monocyte Number The absolute numbers of leukocytes in each category are computed from the WBC count and the differential percentage parameters.	Absolute number	MO%/100 x WBC Count	10^3 cells/µL
EO%	Eosinophil Percent The percentages of leukocytes from each category are derived from the scatterplot.	Derived from scatterplot	# cells inside EO area/# cells inside total cell area x 100	% Percent
EO#	Eosinophil Number The absolute numbers of leukocytes in each category are computed from the WBC count and the differential percentage parameters.	Absolute number	EO%/100 x WBC Count	10^3 cells/µL
BA%	Basophil Percent The percentages of leukocytes from each category are derived from the scatterplot.	Derived from scatterplot	# cells inside BA area/# cells inside total cell area x 100	% Percent

BA#	Basophil Number The absolute numbers of leukocytes in each category are computed from the WBC count and the differential percentage parameters	Absolute number	BA%/100 x WBC Count	10^3 cells/µL

***PDW -- Platelet Distribution Width and Pct -- Platelet Crit are NOT for diagnostic use and do not print. Coulter uses the value for PDW as an internal check on the reported platelet parameters, Pct and MPV.**

Methodology: The methods used to derive CBC parameters are based on the Coulter® method of counting and sizing, in combination with an automatic diluting and mixing device for sample processing, and a single beam photometer for hemoglobinometry. The WBC differential uses VCS technology. Analysis and classification of WBCs use three simultaneous measurements of individual cell volume (V), high frequency conductivity (C), and laser light scatter (S). The scattergram plots the cells based upon the measurements of these three parameters.

A. Status Line

The status line at the bottom of your screen indicates the current operating status of the HMX Hematology Analyzer.

II. Special Safety Precautions

All specimens may be potentially positive for infectious agents including HIV and the hepatitis B and C viruses. Observe universal precautions. It is mandatory to wear gloves and lab coat when handling all human blood products and Coulter® controls. Wear safety glasses whenever operating the instrument in SECONDARY mode. Dispose of all biological samples in a biohazard container and wipe down all work surfaces with 10% bleach solution at the end of each session.

The mobile examination center (MEC) *Working Safely with Hazardous Chemicals* manual contains all Coulter material safety data sheets (MSDS).

III. Computerization: Integrated Survey and Information System (ISIS)

The HMX Data Management System (DMS) transmits individual SP results to the MEC automated ISIS system. Review all SP results at the Coulter DMS monitor. The hematology module in the laboratory application automatically receives the results or transmits them manually to the hematology module. The laboratory application evaluates the data for completeness and accuracy. The final decision to accept or reject a result is the responsibility of the medical technologist.

All data are backed up and stored at Westat's home office.

IV. Specimen Collection and Preparation

A. Specimen collection

1. The phlebotomist collects a 3 or 4-mL K_3 EDTA tube on all SP's age 1+ following established venipuncture protocol and procedures. (A 1-2% dilution effect occurs in this liquid EDTA tube.)

2. Sample volume is 185 μL of whole blood in the closed-vial mode. The minimum sample volume per tube in the closed-vial mode is 1-mL with the proper proportion of blood to anticoagulant.

B. Specimen preparation

1. The blood specimen-processing technologist initially processes the tube by taking off whole blood for various tests. The blood specimen-processing technologist places the specimen on a rocker until the hematology technologist can perform the CBC. Run the CBC as soon as possible; there is no requirement to wait any length of time between drawing the blood and running the CBC.

V. Procedure for Microscopic Examination

Not Applicable - Do not prepare differential microscopic slides.

VI. Reagents and Supplies

The HMX DMS stores and maintains the lot numbers and expiration dates.

A. Reagents, controls and calibrators

1. Isoton III® (diluent) – PN 8546733 (20 L) – an isotonic electrolyte

-Dilutes the whole-blood samples. Stabilizes cell membranes for accurate counting and sizing. Conducts aperture current. Carries and focuses the sample stream in the flow cell to enable the WBC differential measurements. Rinses the system between samples. Expires on expiration date printed on container

2. COULTER CLENZ® – PN 8546931 (10L) – a cleaning agent that cleans and rinses the internal surfaces of the Diluter components. Daily use prevents protein buildup and eliminates routine aperture bleaching. Expires 90 days after being opened and installed on the instrument.

3. LYSE S® III – PN 8546983 (1L diff lytic reagent is a lytic reagent used for the CBC mode.

-Rapidly lyses erythrocytes (RBCs), freeing hemoglobin (Hgb), and reducing the size of cellular debris to a level that does not interfere with the leukocyte (WBC) count. Causes a substantial conversion of the Hgb to a stable pigment, the absorbance of which is directly proportional to the Hgb concentration over the clinical range.

-**Note**: If you use LYSE S III diff lytic reagent you must use ISOTON III diluent. Expires 60 days after being opened and installed on the instrument.

4. HMX Pak®-PN 8547166 – The HMX Pak contains the PAK LYSE (Erythrolyse™ II erythrocyte lytic reagent) and the PAK PRESERVE (StabiLyse™ leukocyte preservative) used for the differential measurement.

-The PAK LYSE (also called the diff lytic reagent), while maintaining leukocytes (WBCs) in near-native state.
-The PAK PRESERVE preserves the leukocytes (WBCs) in near-native state. It allows the leukocytes to be differentiated into their subpopulations through the volume, conductivity, and light-scatter measurements.
-Expires 60 days after being opened and installed on the instrument.

5. Latron® Controls – PN 7547116 (5 x 16-mL)

-LATRON control monitors the performance of the volume, conductivity, and light scatter measurements. Expires 30 days after being opened.

6. Latron® Primer – PN 7546915 (5 x 16-mL)

-LATRON™ primer prepares the tubing and instrument components for the LATRON control.
-Expires 30 days after being opened.

7. 5C® Cell Controls Tri Pack contains Normal, Abnormal I, Abnormal II – PN 7547001 (9 x 3.3-mL)

-COULTER 5C® cell control monitors the CBC and differential parameters. Expires 13 days or 13 events after being opened.

8. Calibration S-CAL® – PN 7546808 (2 x 6-mL)

   -Use at the start of each stand. The S-CAL® calibrator kit calibrates Primary mode CBC parameters and is an acceptable alternative to the whole-blood reference method of calibration. -Expires 1 hour after being opened.

9. 5C® Cell Control Normal – PN 7546923 (9 x 3.3-mL)

   -Use when calibrating with S-CAL for reproducibility study.

10. Lin-C – PN 6605374

    -LIN-C® linearity control verifies the reportable range of the instrument's CBC parameters.

B. Supplies

1. 3-mL K_2 EDTA Becton Dickinson Hemogard Vacutainer® tube (367856)
2. 4-mL K_2 EDTA Becton Dickinson Hemogard Vacutainer® tube (367861)
3. Tube rocker
4. Bleach, 5.25% Sodium Hypochlorite
5. Bottled distilled water
6. Three 30-mL plastic containers with lid
7. Two 1-liter containers with lid
8. Plastic squirt bottle
9. Cotton gauze pads
10. Three-hole paper punch

11. Notebook

12. Flashlight

13. 10-mL syringe with plastic tubing

14. Precision screwdriver set

15. Distilled water bottle

16. Disposable lab jacket – 48 inches long

17. Diskettes

C. Notes

1. If reagents become frozen in transit, mix thoroughly by inversion and let bubbles settle before use.

2. Do not place reagents on or near electric cords or lines to avoid electrical interference.

VII. Calibration

S-CAL (PN 7546808 - 2 x 6-mL – The S-CAL calibrator kit determines the adjustment factors for the calibration of the Coulter(trademark) HMX. Calibration is a procedure to standardize the instrument by determining its deviation from calibration references and to apply any necessary correction factors. Perform calibration in the close-vial mode, at ambient room temperature range (16-32°C, 60-90°F), using S-CAL as an alternative to whole blood. S-Cal is a trademanrk of Beckman Coulter.

A. Perform calibration:

-At the start of each stand, before you begin analyzing samples.
-After you replace any component dealing with dilution preparation, such as the BSV primary measurement, such as an aperture.

-If your Beckman Coulter Representative suggests you calibrate

B. Verify the calibration of your instrument:

-If controls show unusual trends or are outside limits; and
-When room temperature varies more than 10°F (5.5°C) from the room temperature during the last calibration.

Principle – The HMX uses the S-CAL kit that requires a calibrator to convert electronic measurements of each sample into accurate results expressed in clinical terms. S-CAL calibrates the **WBC, RBC, Hgb, Plt,** and **MPV** parameters. It is a stabilized human-blood preparation. S-CAL® is an acceptable alternative to whole blood calibration.

The calibration procedure uses replicate measurements of S-CAL calibrator. The S-CAL divides the average result into the calibrator Assigned Value to give the Adjustment Factor. Then, it obtains and adjusts an instrument reading according to the Adjustment Factor.

Hct, MCH, MCHC, RDW, and the DIFF parameters do not require calibration.

1. Reagents – S-CAL consists of treated, stabilized, human erythrocytes and platelet sized components in an isotonic bacteriostatic medium. Fixed erythrocytes simulate leukocytes.

   Materials required **–** Before calibrating, assemble the following materials: S-CAL kit containing two 6-mL vials of S-CAL calibrator.

2. Storage, handling, and stability – Sealed vials are stable through the expiration date when stored at 2-8°C (35-46°F). Open vials are stable for 1 hour.

   Potential biohazard – Each human donor used in preparation of this material was tested by an FDA-approved method for the presence of the antibodies to Human Immunodeficiency Virus (HIV-1 and HIV-2) and Hepatitis C (HCV), as well as for hepatitis B surface antigen, and found to be negative (were not repeatedly

reactive). Handle these reagents at Biosafety Level 2 because no test method can offer complete assurance that these and other infectious agents are absent.

This product contains <0.1% Sodium Azide. Sodium Azide preservative may form explosive compounds in metal drain lines. Discard this product in biohazardous waste containers.

3. Indications of instability or deterioration – Inability to obtain expected values in the absence of known instrument problems or gross hemolysis (darkly-colored supernatant) is indicative of product deterioration. However, a slight pink color to the supernatant is normal and should not be confused with deterioration of the product.

C. Pre-calibration, reproducibility, and carryover check

Perform a calibration after the instrument has been "cleaned" for at least 30 minutes. From the Access Screen, press [F3] **Clean.**

1. Pre-calibration procedure

Bleach the aspiration system using the Clean Needle procedure.

a) Prepare a fresh bleach solution. Put 1-mL bleach and 1-mL distilled water into 5-mL lavender top Vacutainer® tube.

b) Stop the system before it performs the Clean Needle procedure. If status message is not *Select Function* or *Compressor Off*, go to **SAMPLE ANALYSIS, RUN SAMPLE**, [F3], Run. Press [F9] Stop.

c) Select **SPECIAL FUNCTIONS, DIAGNOSTICS, OPERATOR OPTIONS, FLUIDIC TESTS, and CLEAN NEEDLE**. Press [Enter] and follow the screen instructions. Wait for green light before placing tube into the carousel.

To rinse the system, perform daily Start Up. Select **DILUTOR FUNCTIONS; START UP** [Enter].

Run 5C® cell controls.

2. Reproducibility check

a) Select **SAMPLE ANALYSIS, RUN SAMPLES**. Press [Enter]. Select [F5] to access options. Change [F5] Print: to none and [F6] Host to Off.

b) Use an unopened, normal-level, 5C®-cell control for reproducibility studies. Label the control vial with date and initial. Use of expired controls for this procedure is acceptable.

c) Select **SPECIAL FUNCTIONS, CALIBRATION, REPRO-DUCIBILITY** [Enter].

d) Is *Sample Mode?* displayed? If YES, go to step 3. If NO, press [F9] Stop.

e) Press [F6]. Press space bar to turn the DIFF ON. Press [Enter]. Press [F2] *START PRIMARY.*

f) Does the following message appear? "MODE REQUIRES EXISTING RUNS TO BE DELETED. ARE YOU SURE?: NO." If the message appears, press the space bar to answer "YES." Press [Enter]. This deletes the old data.

If there are runs present in the table and the message do not appear, press [F8] Delete. Press the space bar to answer "YES." Press [Enter]. This deletes the old data.

(1) Follow the directions listed in Section X for preparation and mixing the 5C®-cell control.

(2) Cycle the sample 11 times. Do not use the bar code reader. Mix gently before each cycle. Insert the tube into the carousel when the green light appears. The first sample is automatically marked DEL and its results are not included in the calculations.

(3) Check the results. Verify the average %CV does not exceed these limits:

-WBC 2.5%
-RBC 2.0%
-Hgb 1.5%
-MCV 2.0%
-Plt 5.0%
-MPV 3.0%

Check the low to high difference (bottom line, right hand side) for the diff parameters with these limits:

-LY% ≤4.8
-MO% ≤3.2
-NE% ≤4.8
-EO% ≤1.6
-BA% ≤1.6

If the results are outside the limits, call the Beckman Coulter® representative.

(4) Press [F4] to print the screen for the logbook. Press [F3] Run [F9] STOP. Press [Esc]. Proceed with a Carryover Check.

g) Notes

(1) Be sure the PR↓ is on the status line before starting the reproducibility study.

(2) Be sure to delete any data on the reproducibility screen before starting a new study.

(3) On the reproducibility screen, use the %CV line for CBC parameters only and the Diff line for the DIFF parameters only.

3. Carryover checks (Draw two 4-mL EDTA tubes of normal blood.)

a) Select **SPECIAL FUNCTIONS, CALIBRATION, and CARRYOVER.** Press [F2] *START PRIMARY*. Does the following message appear? "MODE REQUIRES EXISTING RUNS TO BE DELETED. ARE YOU SURE? NO." If the message appears, press the space bar to answer "Yes." Press [Enter]. This deletes the old data.

(1) Use a routine 4-mL Vacutainer® EDTA for the carryover check clean vials. Fill three separate vials with diluent, then cap.

(2) Follow the screen directions. Cycle two vials of normal blood and three vials of diluent. Do not use the bar code reader. Insert the tube into the carousel when the green light appears.

(3) Check the lower right corner of the screen for CARRYOVER ACCEPTABLE. If the result is not acceptable and the H flags appear next to the carryover value results, repeat the procedure. If results are still OUT, call the Beckman Coulter® representative.

(4) Press [F4] to print the carryover screen for the logbook. Press [F9] to return to the main menu.

b) Notes

(1) Choose a sample with a WBC count of 10,000 ± 1,000 if possible. All other parameters should be within normal ranges.

(2) Ignore count period (CP) voteouts on diluent runs.

(3) Percent carryover is calculated by the formula.

(4) 1st diluent sample - 3rd diluent sample x 100 = % carryover
2nd sample.

D. CBC calibration with S-CAL calibrator

Discard the Calibrator Disks from the S-Cal Calibrator Kit. Locate the hard copy Table of Expected Results that contains 5 gray boxes labeled 1 through 5. Locate box 2 where it lists ISOTON III, Isoton 3E or LH Series Diluent / Lyse S III diff Lytic Reagent---------- HMX system. Locate the corresponding gray #2 box in the table.

Take the S-CAL calibrator from the refrigerator. Remove one vial of S-Cal from the kit. Return the unopened second vial to the refrigerator. Let the vial warm to ambient temperature for 15 minutes. Meanwhile, continue with the following steps:

1. Select **Special Functions → Calibration → CBC Calibration**. Press [F2] **Start Primary**. Delete any data in the table by pressing [F8]. Press the spacebar to answer "YES." Press [Enter].

2. Prepare the CBC calibration screen.

   a) Enter the S-CAL calibrator assigned values from the Table of Expected Results on the package insert on the REF: VALUES line. The Hct is not calibrated although the value is listed on the package insert.

   b) Enter the expiration date and the lot number.

3. Prepare and cycle the calibrator:

   a) Mix by hand as follows: Roll the tube slowly between the palms of the hands eight times in an upright position. Invert the tube and slowly roll

it again eight times. Gently invert the tube eight times. Repeat these actions again.

b) Determine that all cells are uniformly distributed by inspecting the vial contents. If the cells are not totally distributed, repeat the mixing procedure.

c) Cycle the first cap-pierceable calibrator 11 times. Do not use the bar code reader. Invert the vial and mix the S-CAL calibrator before each cycle. Insert the tube into the carousel when the green light appears. The first sample is automatically marked DEL and its results are not included in the calculations.

d) After the cycles are complete, press [F4] **Print** to print the screen for the logbook. Press [F3] **Run**, [F9] **STOP**. Press [Esc]**.**

4. Assess the run:

a) Check for trending. If trending is present, stop and contact a Coulter® representative.

b) Check the %CV values against these precision %CV limits. If any parameter exceeds the limit, STOP and contact a Coulter® representative.

Parameter	Precision (CV %)
WBC	≤2.5
RBC	≤2.0
Hgb	≤1.5
MCV	≤2.0
Plt	≤5.0
MPV	≤3.0

c) Determine which calibration factors (if any) should be changed by checking the FAC%DIFF and DELTA DIFF values against these ranges. Note: Disregard minus signs. The values are absolute numbers.

Parameter	Calibrate if FAC %DIFF is:	Calibrate if DELTA DIFF is:
WBC	>1.25 and ≤5.00	>0.10 and ≤0.40
RBC	>0.70 and ≤2.00	>0.03 and ≤0.09
Hgb	>0.78 and ≤3.00	>0.10 and ≤0.40
MCV	>1.18 and ≤2.50	>1.00 and ≤2.00
Plt	>2.70 and ≤9.00	>6.00 and ≤20.00
MPV	>5.00 and ≤20.00	>0.50 and ≤2.00

d) If both the FAC%DIFF and DELTA DIFF values of a parameter fall below their lower limits, that parameter does not need to be calibrated. Note: If all parameter values fall below the lower limits of both ranges, you are finished. Resume normal operation. Press [F4] to print the screen for the logbook.

e) If either the FAC%DIFF or DELTA DIFF value of a parameter exceeds its upper limit, STOP. There could be an instrument problem. Call your Beckman Coulter Representative.

f) If either the FAC%DIFF or DELTA DIFF value of a parameter falls between its lower or upper limits that parameter should be calibrated. Continue with step 5 (below).

5. To verify calibration:

   a) Determine which calibration factors to change. Check the FAC % DIFF and DELTA DIFF values against these ranges.

Parameter	Calibrate if FAC %DIFF is:	Calibrate if DELTA DIFF is:
WBC	>1.25 but ≤5.00	>0.10 but ≤0.40
RBC	>0.70 but ≤2.00	>0.03 but ≤0.09
Hgb	>0.78 but ≤3.00	>0.10 but ≤0.40
MCV	>1.18 but ≤2.50	>1.00 but ≤2.00
Plt	>2.70 but ≤9.00	>6.0 but ≤20.0
MPV	>5.00 but ≤20.00	>0.50 but ≤2.00

   b) Is *Select Function* displayed? If NO, press [F3] **Run** [F9] **Stop** [Esc]. If YES, Press [F5] **Options**. Choose **SELECT PARAMETERS**. Use the spacebar to select YES for parameters that need adjusting, NO for others. Press [Esc].

   c) Select **TRANSMIT FACTORS**. The following message appears: "WARNING – DATA WILL BE CLEARED AFTER TRANSMISSION. DO YOU WANT TO PRINT DATA? Y/N" If you did not print the calibration screen presses [Y]. Select [N] if the values have already been printed.

   d) Press [F4] Print to print this final calibration screen for the log book. It reflects the new calibration factors for parameters you adjusted.

   e) Verify calibration by cycling the 5C Cell Controls in the primary mode. If any of the control level's results are outside the expected range, run a second sample of the control. If the second sample is also outside of the expected range, call your Beckman Coulter representative.

6. Calibration terms and formulas

a) MEAN

-The average of the 10 S-CAL calibrator runs

b) NEW CAL FAC

-The calibration factor needed to obtain the S-CAL Calibrator Reference value. The instrument calculates and displays it whether or not it needs to be changed.

$$\frac{\text{Reference Value} \times \text{Old Cal Factor}}{\text{S-CAL mean value (n=10)}} = \text{NEW CAL FAC}$$

c) OLD CAL FAC-The current calibration factor

d) %CV

-Indicates the reproducibility of the S-CAL calibrator run.
-Check to ensure that the data being used are valid when making decisions to recalibrate or not.

e) FAC % DIFF

-The difference between the OLD CAL FAC and the NEW CAL FAC expressed as a percentage.

$$\frac{\text{NEW CAL FAC} - \text{OLD CAL FAC}}{\text{OLD CAL FAC}} \times 100 = \text{FAC \%DIFF}$$

f) DELTA DIFF

-The absolute difference between the reference value and the S-CAL calibrator MEAN.

g) REF VALUES

-The assigned value for each parameter.

VIII. Assay Procedure

A. Run Start Up at the beginning of the first session each operational day.

1. Leave the instrument on and operate the HMX with all panels closed. Check to make sure the date and time displayed are correct. To set date and time select **Special Functions, Set Up, System Set Up, Set Date/Time**. Move the cursor and enter the correct date or time and press [Enter] or the arrow keys. Press [F10] to save and exit.

2. Are Start Up results already displayed as the result of a Clean cycle?

   a) If No, go to step 2.

   b) If Yes, go to step 3.

   Note: The Clean cycle consists of 30 minutes in Shut Down followed by an automatic Start Up.

3. To begin Start Up, select **Diluter Functions**, and **Start Up**. Press [Enter]. Follow the instructions on the screen.

4. After Start Up is complete, evaluate the display. Expired reagents and failed checks appear in red. Press [F2] to view detailed results. Make sure the Background and other Start Up results are within limits. Results automatically print. Results outside limits turn red. File in the logbook.

5. Review and verify sample analysis set up.

a) Select **Sample Analysis, Run Samples** [Enter]. Press [F5] for options. Press the corresponding function key to enter specific options.

Use the corresponding [F] key to change the setting. For example, press [F6] to turn the Diff ON. Press [Esc] to exit.

B. Run controls

Run Coulter LATRON primer and latex control, and all three levels, normal (blue), abnormal I (yellow), and abnormal II (pink), of Coulter 5C cell control daily at the beginning of the first session. Run all three levels (normal, abnormal I, and abnormal II) of Coulter 5C® cell control at the beginning of the second session.

C. Run Sample Persons

1. Review the placement of the bar code on the sample tube. Place the end of the label flush with the stopper. The bars on the label must be parallel to the stopper. If the label is skewed more than 5°, the scanner may not read it. Do not cover the bottom of the tube with the bar code label. The tube may jam in the carousel.

2. Run all samples in duplicate.

3. Run samples in the Primary mode.

In Primary mode, the system checks each sample aspiration using dual sensors, called blood detectors, which monitor the blood before and after it passes through the Blood Sampling Valve (BSV). These blood detectors optically sense air bubbles, diluent, and blood. As an indication of a good aspiration, the system looks for blood in both detectors. If the detectors optically identify bubbles in the sample, the instrument pierces the tube a second time. If the second aspiration contains bubbles, the instrument reports a partial aspiration. Bubbles or air may be present for various reasons, such as short sample aspirations or blockages in the aspiration pathway. Single dots (•••••) and *PART. ASP* is reported instead of numeric results when a partial aspiration occurs. Samples that generate multiple partial aspiration messages should be evaluated for specimen quality according to laboratory's protocol. Samples with very low hemoglobin results may give partial aspirations when run in the Primary mode

because the blood detectors do not recognize the sample as being blood. To obtain results, cycle the sample in the Secondary mode.

Check to make sure the printer is working properly. Operate the Analyzer with the doors and panels closed. Monitor reagent levels.

a) Do **SELECT FUNCTION** or **S/A 1° MODE ON** appear at the lower right corner of the DMS monitor?

If not, then access the Run Samples screen. At the Access screen, press [F1] **RUN SAMPLES** or at the Main Menu, select **Sample Analysis → Run Samples**.

b) Press [F3] **Run**.

c) The instrument automatically prepares itself to run in the Primary mode, DIFF ON. Press [F6] **DIFF ON/OFF** to change the DIFF setting. Note, if **SAMPLE MODE** is not displayed, press [F9] **STOP** first.

d) Does the top of the **F3-Run** window display **PRIMARY: SAMPLE ANALYSIS**? If yes, press [Esc]. If no, press [F2] **START PRIMARY**.

e) Identify the sample by holding the bar code label on the tube in front of the reader. Green light will beep; place the tube in the carousel. If the red light appears, wait and try reading the bar code label again. Cycle the sample within 10 seconds of reading the bar code. After 10 seconds, the system deletes the identification. If necessary, enter 1 to 16 alphanumeric characters then press [Enter].

4. Alternatively, cycle samples in the Secondary mode.

Blood detectors are inactive in the Secondary mode. This mode does not check sample and aspiration integrity. Run samples in the Secondary mode only if the Primary mode is unavailable.

a) Access the Run Samples screen. At the Access screen press [F1] **RUN SAMPLES** or at the Main Menu, select **Sample Analysis → Run Samples**.

b) Press [F3] **Run**.

c) The instrument automatically prepares itself to run in the Primary mode, DIFF ON. Press [F6] **DIFF ON/OFF** to change the DIFF setting. Note, if **SAMPLE MODE** or **S/A 1°MODE ON** is not displayed, press [F9] **STOP** first.

d) Press [F3] **SECONDARY**.

e) Identify the sample by holding the bar code label on the tube in front of the reader. Green light will beep. If the red light appears, wait and try reading the bar code label again. . Cycle the sample within 10 seconds of reading the bar code. After 10 seconds, the system deletes the identification. If necessary, enter 1 to 16 alphanumeric characters then press [Enter].

f) Cycle the sample in the Secondary mode:

(1) Mix the sample gently.

(2) Open the tube and immerse the aspirator tip in the sample.

(3) Press and release the sample bar.

(4) Remove the tube when the instrument beeps.

5. Review data and transmit

a) Review the data using the criteria described in Section X.

b) Set host computer to ⇑. Data from the Coulter DMS is automatically transmitted to the ISIS system.

c) Use the Data Base Query to sort, retrieve, transmit, and archive data to diskette. Transmit data from the Coulter DMS to ISIS as necessary. Archive all data at the end of each stand.

To access the Data Base Query screen, at the Access screen, press [F4] **DATA BASE QUERY** or at the Main Menu, select **Sample Analysis → Data Base Query**.

Use the Sort feature to define the criteria for the data. Sort by date, time, or ID. If you do not choose any sort criteria, the samples in the database are sorted chronologically by date and time.

To transit data from the DMS to ISIS, select **Sample Analysis → Data Base Query**, [Enter.] When you access this option, you see what was selected by the last Sort criteria. To review other samples, change the sort criteria. If the last sorting process resulted in no entries displayed here, then when you access this option, the sort window appears.

To access the Sort Criteria wndow, press [F6] **Sort**. Enter sort criteria by TIME, DATE, ID #1, or ID#2. Select [F8] to execute the sorting process, [F7] **Tag** to tag or untag a highlighted individual sample or [F8] to **Tag All** to tag or untag all samples for batch processing, and [F5] **Batch** to display the Batch Process window.

At the Batch Process window, use the up and down arrows to move through the choices. Use the spacebar to toggle to between Yes and No. Set Print: to No and Host to Yes. Select [F8] **Execute**.

D. Daily Shut Down

1. Shut down the instrument for at least 30 minutes but less than 48 hours each day it is in use.

2. To begin shut down make sure the status line displays *Select Function*. Select **Diluter Functions → Shut Down**. Press [Enter]. Allow the cleaning agent to remain in the instrument for a minimum of 30 minutes.

3. Perform Start Up before running samples or controls. Results must be within tolerance.

E. Clean Cycle

1. The Clean Cycle consists of a Shut Down cycle followed 30 minutes later by a Start Up cycle.

   a) To initiate the Clean Cycle: Go to the Access screen [F1] from the Main Menu. Press [F3] **CLEAN**. Press [Enter] to begin. After the Shut Down portion of the cycle finishes, a window displays. Your options are: (1) Do nothing and allow the Clean Cycle to complete. (2) Press [F4] to abort the Clean Cycle. Cleaning agent remains in the system until you perform Start Up. (3) Press [F5] to begin the Start Up cycle immediately.

F. Prolonged Shut Down

1. If the instrument is going to be idle for 48-72 hours, perform the following procedure:

a) Go to the Access screen and press [F3] CLEAN.

b) Once the cycle is complete, turn OFF the instrument using the On/Off switch on the back of the main unit.

c) When it is time to use the instrument:

(1) Turn power ON

(2) Prime the HMX PAK

(3) Perform Start Up.

d) Perform and verify QC checks according to laboratory protocol.

e) Operate as usual.

2. If the instrument is going to be shut down for more than 72 hours, perform the following steps:

a) Place all reagent pickup tubes into distilled water.

b) Repeatedly perform Shut Down and Start Up procedures throughout the day.

c) Let distilled water remain in the reagent lines.

d) Turn off the power.

e) Place reagent caps on all open containers.

f) When it is time to use the instrument, turn on the power and place the reagent pickup tubes into the reagent containers, prime all reagents,

perform a shut down and then perform a Start Up. Results must be within tolerance.

g) Perform daily QC and operate as usual.

G. Autopurge Cycle

1. After 23 hours in Shut Down, with the power ON and the pneumatics OFF, the system automatically:

a) Turns ON the pneumatics.

b) Purges the flow cell and sample lines with diluent.

c) Turns OFF the pneumatics.

d) Repeats this cycle every 24 hours until a Start Up is performed.

H. Beginning and end of stand operations

1. Beginning of stand:

a) Obtain one urine collection container or a 50-mL conical tube, one 3 or 4-mL EDTA tubes (1 clean aspiration system,), enough supplies to draw two 4-mL EDTA blood tubes, and a few plastic transfer pipettes.

b) Using all new containers of reagents, carefully unwrap and place all reagent pickup tubes in their appropriate container. Handle reagent tubes by the collar only to avoid contamination. Turn the power ON. Prime reagents through all the lines by selecting **Diluter Functions, Prime Reagents,** and choose **All**.

c) Perform the Start Up procedure. This should take approximately 5-6 minutes. Results should be within tolerance.

d) Contact the local Coulter® representative to perform an instrument verification procedure on setup day or as soon as possible.

e) Calibrate, perform, and verify QC checks according to procedure.

f) Review and verify system set up. Select **Special Functions →Set Up →System Set Up:**

(1) Select **Shift** [Enter]

(a) Move the cursor and set up the starting times for each shift and press [Enter] or the arrow keys. The system automatically calculates the end of the shift to prevent overlap.

(b) Set shift 1 "Time" at 0800.
Set shift 2 "Time" at 1230.
Set shift 3 "Time" at 2230.

(c) Press [F10] to save and return to the previous screen.

(2) Select **Reagents** [Enter]- Update reagent logs

(a) To record new reagent information: Key in the new reagent information: lot number, date reagent opened (pressing [Enter] automatically gives today's date), and the expiration date. Do not forget to enter revised expiration dates where appropriate. Press [Enter] after each item. Press [F10] to save the data and leave the reagent screen.

(3) Select **Institution** [Enter]

(4) Select **Communication Def**. Enter the SUPERVISOR PASSWORD, "super." Select**, Host Computer Definition**

(a) Use [Enter] or arrow keys to move to the appropriate field.

(b) Type in the following information where necessary and use the spacebar to choose between the responses. Press [F10] to save and [Esc] to return to previous screen.

STKS 2A Host Mode	Yes	Retics transmission	No
Timeout (secs)	8	Overall Retics	No
Baud rate	9600	Graphics	No
Parity	none	DF5	No
Stop bits	1	DF6	No
Handshake	Yes		
Block size		Enable Spooler	Yes
		Replace NULL by SP	No

Graphic transmission	No
DF1	No
DF2	No
VCS histograms	No
RBC histogram	No
PLT histogram	No

(5) Select **IQAP ID#**

Type in the IQAP number.

Enter 32979 1 H1 for instrument AJ47275

32979 1 H2 for instrument AK04023

32979 1 H3 for instrument AK04024

Press [F10] to save and escape.

(6) Select **Set Date/Time**

Move the cursor and enter the correct date or time and press [Enter] or use the arrow keys. Press [F10] to save and exit.

(7) Select **Supervisor Password**

Do NOT change the password under any circumstances.

(8) Select **Optimize Hard Disk**

Enter the password “super.” Respond to the question, “Do you want to automatically optimize the Hard Disk during Powerup?” Verify that YES is displayed. Press [F10] to save and escape.

g) Review sample analysis set up. Select **Special Functions, Set Up,** and **Sample Analysis Set Up.** Type in the password "super."

(1) Select **Action limits** [Enter], **XB limits** [Enter].
Enter target and limit percent values.
XB Limits

	Target	Limit %
MCV	88.5	3
MCH	29.5	3
MCHC	33.5	3

Press [F10] to save and exit.

(2) Select **Action limits** [Enter], **Definitive flag limits** [Enter].
Disable definitive flag limits. Set low limit for all parameter values to zero except for PCT. Set lower limit for PCT to 0.000. Set high limit to 99.9 for all parameters except RBC, PLT, and PCT. Set RBC upper limit to 9.9, PLT to 999 (with no decimal) and PCT to 0.990. Press [F10] and [Enter] to save and escape.

(3) Select **Action limits** [Enter], **High/low Flag limits** [Enter].
Disable High/Low flag limits. Set low limit for all parameter values to zero except for PCT. Set lower limit for PCT to 0.000. Set high limit to 99.9 for all parameters except RBC, PLT, and PCT. Set RBC upper limit to 9.9, PLT to 999 (with no decimal) and PCT to 0.990. Press [F10] and [Enter] to save and exit.

(4) Select **Action limits** [Enter], **Laboratory Normal Ranges** [Enter]
Disable High/Low flag limits. Set low limit for all parameter values to zero except for PCT. Set lower limit for PCT to 0.000.

Set high limit to 99.9 for all parameters except RBC, PLT, and PCT. Set RBC upper limit to 9.9, PLT to 999 (with no decimal) and PCT to 0.990. Press [F10] and [Enter] to save and exit.

(5) **Location list** N/A Do not access

(6) **Physician list** N/A Do not access

(7) **Display formats** [Enter] **Screen Labels** N/A Do not access

(8) Select **Display formats** [Enter] **Parameter Selection**
Use the spacebar to select No for each of these parameters.

Press [F10] to save and escape

(9) Select **Display formats** [Enter], **Reporting Units**
Use the spacebar to select US 1. Press [F10] to save and escape.

(10) Select **Delete database** [Enter]
Delete database at the end of each stand after archiving the data to a diskette. The question, "You have asked to delete the ENTIRE database. Are you sure you want to delete?" Use the spacebar to toggle to toggle between Yes and No then press [Enter].

(11) Select **Delete host spooler** [Enter]
Use this feature to clear the buffer of results waiting to be transmitted to the host computer. "Do you want to delete the host spooler?" Press the spacebar to answer Yes or No to the displayed question. Press [Enter].

(12) **Clear printer spooler queue**

Use this feature to stop a print job and clear the DMS printer spooler of all data not yet sent to the printer. Move the cursor to the appropriate option. Press the spacebar to toggle between Yes and No. Press [F10].

Auto Print: No
Manual: **No**
Batch: **No**

(13) Select **Print options** [Enter]

Auto Print Format

Use the spacebar to select **[GRAPHIC FORMAT].** Press [F10] to save and escape.

Spooler Priority [Enter]

Leave [AUTO PRINT] as the default.

Graphic Options [Enter]

Verify the settings.

2. End of stand

a) Obtain three urine collection cups and three 4-mL EDTA blood tubes.

b) Review, print, and clear error file.

(1) Select **Special Functions, Error File** [Enter]. Review data and print [F4]. Document any relevant information on the print out and file in the logbook. Delete file [F8] -- "Do you want to delete error file; NO" message will appear. Use the space bar to change No to Yes [Enter]. Return to main menu [F9].

c) Download IQAP files to diskette following procedure described on the screen.

d) Download or archive all stand result data to disk.

The DMS Archive feature lets you copy result data from the DMS onto a diskette and retrieve it on another computer in a spreadsheet format. Use a spreadsheet program that is compatible with the WKS format. Archive data at the end of each stand.

To Archive data, select **Sample Analysis→Data Base Query**. Perform a sort that includes all samples run during the stand. Use [F7] or [F8] to tag the samples you want to archive. Press [F5] **Batch** to display the Batch Process window. Move the cursor to the Archive field then press [F2] **Choice List**. Use the spacebar to highlight your choice then press [Enter]. If you select New, all tagged samples that have not yet been archived will be processed. If you select All, all tagged samples will be processed, even if they have already been archived. If you select No, Archive is inactive. Move the cursor to the Filename: field and enter a file name of your choice. Type **A:** then up to eight characters. An extension is not required. Example: **A:\stand210** could be the file name for sample results archived at the end of stand 210. Insert a formatted diskette into the DMS diskette drive. Press [F8] **Execute**. **Note:** If a power failure occurs during the archiving process, the samples from this archiving session are incorrectly marked as archived but the data file is empty. Reselect the samples from the session and select **All** to ensure all of the samples in process are correctly archived. Wait until the *Batch is Inactive* message appears, and then remove the diskette from the diskette drive. **Note:** If the space on the diskette is insufficient for archiving all of the tagged samples, the DMS displays the error *DISK FULL - ARCHIVING DISCONTINUED*. Remove the full diskette from the DMS diskette drive and insert an empty formatted diskette. Ensure the Archive option selected is **New** then press [F8] **Execute**. Any samples tagged but not archived yet are copied onto the new diskette.

e) Perform daily Shut Down. Let cleaning agent remain in the instrument for at least 30 minutes.

f) Perform Start-up.

g) Disable the reagent sensors. Select **SPECIAL FUNCTIONS, DIAGNOSTIC, OPERATOR OPTIONS, FLUIDIC TESTS,** and **DISABLE REAGENT SENSORS.** Toggle through each reagent line using the space bar to change "ON" to "OFF."

h) Bleach the reagent lines.

(1) Remove all reagent pick-up tubes from the reagent containers. Dispose of all open containers. Wash and save the reagent collars.

(2) Prepare a 25% solution of bleach (250-mL) and distilled water (750-mL) in one liter bottle. Place all reagent pickup tubes into the 25% bleach/distilled water solution. Select **Diluter Functions, Prime Reagents,** Select **ALL**. Press [Enter]. Repeat this procedure two more times.

i) Place all reagent pickup tubes into containers of distilled water.

j) Bleach the apertures and flow cell.

(1) Mix 15-mL bleach and 15-mL distilled water in a plastic container.

(2) Put 30-mL of distilled water in a second plastic container.

(3) Open the front panel.

(4) Select **Diluter Functions,** and **Disinfect**. Press [Enter].

(5) The instrument defaults to 15 minutes; change the number to 03 or stop the procedure after 3 minutes. Press [Enter].

(6) Immerse the bleach probe in the bleach solution when the screen displays, "PRESS ANY KEY WHEN READY TO ASPIRATE BLEACH." Press any key. Aspirate all the bleach solution.

(7) Immerse the bleach probe in the distilled water when the screen displays, "PRESS ANY KEY WHEN READY TO ASPIRATE WATER." Press any key. Aspirate all the distilled water. Stop the cycle after 3 minutes by pressing [F4].

(8) Wait until the screen displays *Select Function* before touching any keys. When *Select Function* is displayed, continue with the following procedure.

k) Disinfect the needle. Bleach the aspiration system using the Clean Needle procedure**.**

(1) Prepare a fresh bleach solution. Put 1-mL bleach and 1-mL distilled water into 4-mL lavender top Vacutainer® tube.

(2) Stop the system before beginning the Clean Needle procedure. If status message is not *Select Function* or *Compressor Off*, go to **Sample Analysis, Run Sample**, [F3], **and Run**. Press [F9] **Stop**.

(3) Select **Special Functions, Diagnostics, Operator options, Fluidic Tests,** and **Clean Needle**. Press [Enter] and follow the screen instructions. Wait for green light before placing tube into the carousel.

l) Perform reproducibility in Primary and Secondary mode using this 1% bleach solution. Prepare a 1% bleach solution and fill one 4-mL EDTA blood tube with this solution. Turn the diff off. Is *Sample Mode?* displayed? If Yes, go to step 3. If No, press [F9] Stop. Press [F6]. Press space bar to turn the DIFF OFF. Press [Enter]. Press [F2] *START PRIMARY*. Select **Special Functions, Calibration, and Reproducibility**. Select Primary and aspirate three samples of 1% bleach. Enter [F3]; sample mode. Enter [F9] Stop. Select Secondary mode and aspirate three samples of 1% bleach solution.

m) Rinse the reagent lines**.** Make sure all reagent lines are immersed in containers of distilled water. Select **Diluter Functions, Prime Reagents,** select **ALL**. Press [Enter]. Repeat this procedure two more times.

n) Perform a Start Up. Make sure containers are full.

o) Perform reproducibility in Primary and Secondary mode by using distilled water. Fill one 4-mL EDTA blood tube with this distilled water. Turn the diff off. Is *Sample Mode?* displayed? If Yes, go to step 3. If No, press [F9] Stop. Press [F6]. Press space bar to turn the DIFF OFF. Press [Enter]. Press [F2] *START PRIMARY*. Select **Special Functions, Calibration,** and **Reproducibility**. Select Primary and aspirate three samples of distilled water. Enter [F3], sample mode. Enter [F9] Stop. Select Secondary mode and aspirate three samples of distilled water. Press [Enter].

p) Select **Diluter Functions, Start Up**. Press [Enter]. Perform one additional Start-Up procedure with the lines in the distilled water containers.

q) Cycle the instrument dry.

(1) Remove all reagent pickup tubes from the distilled water containers.

(2) Continue to cycle the instrument dry by priming air through all the lines by selecting **Diluter Functions**, **Prime Reagents** and choose **ALL**. Repeat these actions at least three times.

(3) Open front cover. Using hemostats, seal tubing with check valve coming out of the bottom of the sheath tank. Loosen the four large screws that hold the panel containing the sheath tank. Gently pull panel away from instrument. Trace two red wires from top of sheath tank to plastic electrical connection. Disconnect the junction. Insert paper clip into junction so that a circuit is formed on the instrument side of the connector. Do this by bending paper clip into a U and placing one end of paper clip into each of the open sockets on the instrument side of the junction. This will allow the instrument to Drain, Vent, and Shut Down without reagent. Select **Special Functions, Diagnostics, Operator options**, and **Drain and Vent**. Press [Enter.]

(4) Select **Diluter Functions,** and **Shut Down**. Press [Enter].

(5) After cycles are complete, remove paper clip, reconnect junction, put panel back into instrument and tighten screws, then remove hemostats.

r) Enable the reagent sensors. Select **Special Functions, Diagnostics, Fluidic Tests,** and **Disable Reagent Sensors**. Toggle through each reagent line using the space bar to change "No" to "Yes."

s) To protect the reagent pickup tubes from contamination, wrap them securely in paper towels. Allow air to continue to dry the tubes.

t) Turn off the power.

u) Rinse exterior of BSV with distilled water to remove built up Isoton and blue Clenz agent. Blot the BSV dry with lint free tissue. Do not use gauze.

v) Wash exterior of instrument with distilled water.

w) Empty waste and rinse container.

x) Blow air through the flow cell at the end of each stand. This is referred to as the Triple Transducer Module (TTM). Address questions to the service representative at 1-800-526-7694. Remove the 6-inch sample line to the flow cell at the mixing chamber. Connect a 10-mL syringe with tubing to the 6-inch line and force air into the line to remove ALL remaining liquid from the flow cell and the 6-inch sample line. Reconnect the sample line.

IX. Coulter® Reportable Range of Results

Parameter	Linearity	Limits: The greater of
WBC x 10^3 cells/μL	0 to 99.9	0.2 or 3.0%
RBC x 10^6 cells/μL	0 to 7.00	0.05 or 2.0%
Hgb g/dL	0 to 25.0	0.2 or 3.0%
MCV fL	50.0 to 150.0	2.0 or 3.0%
Plt x 10^3 cells/μL	0 to 999	10.0 or 7.0%
MPV fL	5.0 to 20.0	5.0%

X. Quality Control

A. Latron (trademark) primer and latex controls (PN 7546914 - 5 x 16-mL) The Latron control is for use in monitoring the volume, conductivity, and light scatter (VCS) parameters on the HMX. Use the Latron control immediately following the Latron® primer. Run this control at the beginning of each day. Date and initial the vials when opened.

1. Principle – The Latron control is a ready-to-use suspension of latex particles. These particles pass through the flow cell and produce characteristic electrical signals. It measures these signals as volume, conductivity, and light scatter. The Latron Primer is supplied as a ready-to-use solution which prepares the sample line by eliminating interfering particles.

2. Reagents – The Latron Control consists of latex particles suspended in a buffered bacteriostatic and fungistatic medium containing a surfactant. The Latron primer consists of a buffered bacteriostatic and fungistatic medium containing a surfactant.

3. Storage, handling, and stability – Sealed vials are stable until their expiration date when stored and used at 2-30°C (35-86°F). Once open, date, and initial vials. Opened vials are stable for 30 days when stored at recommended temperatures. Keep vials tightly capped when not in use. Do not freeze.

4. Indications of instability or deterioration – Inability to recover expected results might indicate product instability or deterioration due to improper storage, handling, or contamination. Discard vial if debris is visible and put new vial into use.

5. Instructions for use – Before running control, verify that a Startup has been performed.

a) Run Latron® primer in the secondary mode. Access the Latex Control Run screen at the Access screen press [F2] **RUN CONTROLS** or at the Main Menu, select **Controls → Control Run**. If the **LATEX FILE** does not appear, press [F2] File. Select the **LATEX FILE**. Press [Enter]. Press [F3] Run [F4] Primer. Cycle the primer by immersing the aspirator tip completely in the primer. Press and release the sample bar. The aspirate probe for open vials will begin to aspirate the primer. Remove vial when the audible "beep" occurs. Evaluate primer results. Results should be less than 500. Press [Esc] to remove the primer run.

b) Run the latex control. Mix a room-temperature control vial gently by inverting five (5) to eight (8) times. Be careful to avoid foaming. When *Select Function* appears on the status line, press [F3] **Run**, [F3] **Control (SECONDARY)**. Cycle the control by immersing the aspirator tip completely in the vial. Press and release the sample bar. The aspirate probe for open vials will begin to aspirate the control. Remove vial when the audible "beep" occurs.

c) Examine the Mean Channel and Coefficient of Variation for volume, conductivity, and light scatter for the Diff Mode only. Compare the results to the Assigned Mean Values and Expected Coefficient of Variation. Check for **H** (high) or **L** (low) beside the results. If there are no H's or L's, results are within range. Press [F4] to print results for the logbook. If H or L displays, do the following:

(1) Assigned value or range is incorrect – Be sure the assigned values match the ones on the LATRON control package insert. If in error, correct them by selecting **Special Functions → Set Up → Control Set Up.**

(2) Bubbles in the flow cell or improper vial handling – Rerun the primer and control.

(3) Contaminated control, improperly mixed, or past open vial expiration date – Wipe the aspirator tip. Try a new vial of Latron control. Mix gently according to directions.

(4) "**:::::**" System detects a clog in the flow cell – Press [F3]. Press [F7] to PURGE the flow cell. Press [F4]. Cycle the Latron® primer again. Press [Esc] [F3] [F3]. Cycle the Latron® latex control again. If the control is still "out" of range, repeat the actions 2 or 3 more times. If the problem remains, either performs a ShutDown or turns the DIFF OFF and run CBCs only. If problem continues, call a Coulter representative for assistance.

(5) Assigned value or range is incorrect – Be sure the assigned values and ranges match the ones on the Latron package insert. If in error, correct them by selecting **SPECIAL FUNCTIONS, SET-UP, AND CONTROL SET UP**.

6. Setting up a Latex control file

Set up a file each time a new lot number is received. Assigned channel, expected range, and %CV are automatically entered; change them to assigned values on assay sheet, if necessary.

Choose **SPECIAL FUNCTIONS → SET UP → CONTROL SET-UP → LATEX FILE**. Select a NOT SET-UP or an inactive file. Manually enter the name of the file (Latron), Lot #, expiration date, and operator initials. The system automatically enters the assigned values, expected ranges, and expected %CVs. Check to make sure that the HOST: is set to ON. This means that the control run results are transmitted to the host computer at the time of the run. Use the spacebar to toggle between ON and OFF. Check all entries to make sure they are correct. Press [F10] to save and escape.

B. 5C Cell Controls Tri Pack contains Normal (blue), Abnormal I (yellow), Abnormal II (pink) (PN 7547001 - 9 x 3.3-mL.) The 5C-cell control is a hematology reference control used to monitor the performance of instruments with complete CBC and VCS differential technology. Run all three levels of control at the beginning of each session. Date and initial the open vials.

1. Principle – The 5C cell control is a reference product prepared from stabilized human blood. 5C Cell Controls confirms and monitors instrument accuracy and precision performance by providing measurements for counting, sizing, hemoglobin determination and white blood cell differentiation using CVS technology.

2. Reagents – 5C-cell control consists of treated, stabilized human erythrocytes in an isotonic bacteriostatic medium. 5C-cell control also contains a stabilized, platelet-sized component, and fixed erythrocytes to simulate leukocytes.

3. Storage, handling, and stability – Store 5C-cell control at 2-8°C. When stored at 2-8°C, sealed vials are stable at least until the expiration date shown on the Table of Expected Results. **NOTE:** The MCV and/or RDW parameters may show trending through the shelf life of the product. This is inherent to the product and is not an indicator of product stability. Date and initial open vials. Opened vials are stable for 13 days or 13 events when stored at 2-8°C.

   Potential biohazard **–** Each human donor used in preparation of this material was tested by an FDA-approved method for the presence of the antibodies to Human Immunodeficiency Virus (HIV-1 and HIV-2) and Hepatitis C (HCV) as well as for hepatitis B surface antigen and found to be negative (were not repeatedly reactive). Handle these reagents at Biosafety Level 2 because no test method can offer complete assurance that these and other infectious agents are absent.

   This product contains <0.1% Sodium Azide. Sodium Azide preservative may form explosive compounds in metal drain lines. Discard this product in biohazardous waste containers.

4. Indications of instability or deterioration – Inability to obtain expected values without known instrument problems or gross hemolysis (darkly colored supernatant) indicate product deterioration. However, a slight pink color to the supernatant is normal. Do not confuse this pink color with deterioration of the product.

5. Prepare the instrument – Insert the Control Disk when a new lot of 5C Cell Controls is put into use. Follow the instructions on the Workstation/computer screen.

6. Instructions for use – Remove 5C cell control tubes from refrigerator and warm to ambient temperature for 10-15 minutes. After warming, mix by hand as follows:

   Do not use a rotator, rocker, or mechanical mixer. Roll the tube slowly between the palms of the hands eight full rotations in an upright position. Invert the tube and slowly roll it again eight times. Gently invert the tube eight times. Repeat these actions again.

   a) Run the 5C-cell control in the Primary Mode. Does *SELECT FUNCTION* appear at the lower right corner of the DMS screen? If no, Access the Run Samples screen: at the Access screen, press [F1] **RUN SAMPLES** or at the Main Menu, select **Sample Analysis → Run Samples.** If yes, access the Run Samples screen: at the Access screen, press [F1] **RUN SAMPLES** or at the Main Menu, select **Sample Analysis→ Run Samples**. Press [F3] **Run**. The instrument automatically prepares itself for Primary mode, DIFF ON. Make sure the DIFF is ON. If it is OFF, press [F6] DIFF ON/OFF. Note: If SAMPLE MODE? is not displayed, press [F9] **STOP** first. Does the top of the F3-Run window display **PRIMARY: SAMPLE ANALYSIS**? If yes, press [Esc]. If no, press [F2] **START PRIMARY**.

b) Complete the entire procedure and return the controls to the refrigerator within 30 minutes.

c) Identify the sample by holding the bar code label in front of the reader. Place the control in the carousel. Repeat for other levels of controls.

d) Check the results of each control. Coulter has established control limits for each parameter for each of the three levels of 5C Cell Controls. The limits are set at +/- two standard deviations. NCHS does not want QC results that are out of range to be included in the NCHS analytical database. Delete any individual 5C Cell Control run that includes any results that are flagged out of range. Print the results before deleting and document on the printout what action was taken to correct it. Send all documentation to the home office at the end of each stand.

Select **CONTROLS → REVIEW, OR REPORT** and [F2] to select a file for review. Choose one control file and [Enter]. Check for **H** (high) or **L** (low) beside the results. If there are no H's or L's, results are within range. To print results for the logbook for the last control run, press [F4] Print. Use [F2] to select another file and repeat actions. If **H** or **L** displays, consider the following reasons and perform and document the following actions:

(1) Improper mixing **–** Follow instructions and rerun control.

(2) Control files set-up incorrectly **–** Make sure the assigned values and ranges match those on the control package insert. If in error, correct them by selecting, **SPECIAL FUNCTIONS, SET UP, CONTROL SET UP**.

(3) Chance (statistical outliner) **–** Rerun the control. If it is still out, continue with the following actions.

(4) Change in the control **–** Try another vial or level of control.

(5) Instrument change – Watch for normal sample flow. Call Coulter® representative to help troubleshoot abnormal operation.

7. Setting up a CBC/Diff control file

Set up a file whenever receiving a new lot number of control. Enter control package insert information for control with differential. Enter information using the bar code wand. Enter information manually if necessary.

Select **Special Functions → Set Up →Control set up → CBC/DIFF file**. Select a file to set up. Insert the 5C cell control diskette into the diskette drive of the computer. Press [F5] **Upload Assay Values**. Press the function key for the desired level of control: [F1] for Normal, [F2] for Abnormal I, [F3] for Abnormal II. Manually enter Shift and Operator ID. Check that HOST: is set according to ↑. ON means that control run results are transmitted to your host computer at the time of the run. Spacebar toggles between ON and OFF. Check all entries to make sure they are correct then press [F10] to save and escape. Repeat these steps for the other levels of control. Once you are finished, remove the 5C cell control diskette from the diskette drive of the computer.

a) Manual entry

If the 5C cell control diskette fails to upload, you can enter all data manually. Refer to the package insert for lot specific information and assigned values. The system automatically enters the level and expected ranges based on the first two digits of the lot number. Press [Enter] after each entry. Press [↓] at the end of each row of assigned values unless you are also entering your own expected ranges.

C. Control statistics and graphs

1. Use to review and print:

Control results, cumulative statistics and histograms for LATEX Files;
Control results, cumulative statistics and graphs for CBC/DIFF files; or
Check cumulative results for trends or shifts as necessary for troubleshooting.

Print, review, and delete cumulative statistics and graphs for all CBC/DIFF and LATEX files at the end of each stand after transferring information to the IQAP disk and file in the logbook.

2. Latex control review and report

a) Use this report to review and print control results and cumulative statistics and histograms for LATEX files. Check cumulative results to look for trends, shifts, or, if necessary, troubleshooting.

b) Screen-specific function keys:

[F2] File — Displays all available files. Use [↓] and [↑] to select the correct file. Press [Enter].

[F3] Transmit — Transmits the data of the entire control file to a host computer.

[F4] Print — Prints the entire file in a line list format.

[F5] Histo — Displays the volume, conductivity, and scatter (CVS) histograms screen Use [F4] to print the screen and [F6] Additional Histo to switch between Diff and RETIC histograms..

[F6] Rem/Res

Removes a highlighted run from the calculations. A DEL appears in place of the run number. The statistics recalculate. Pressing [F6] again restores the run and original statistics.

[F8] Delete File

Deletes the current control file. Displays a message "*You have asked to delete ENTIRE control file. Are you sure you want to delete?"* Press the spacebar to select Yes or No then press [Enter] to confirm the choice.

[F9] Menu Exits to the main menu.

[←] [→] Press [←] or [→] to go back and forth between the Diff Latex Control Review screen and the Retic Latex Control Review Screen.

3. CBC/DIFF control review and report

a) Use this report to review and print control results and cumulative statistics for CBC files. Can also be used to transmit the data of the entire control file to a host computer. Select **CONTROLS → REVIEW OR REPORT**, and [Enter]. Press [F2] to select one of the following files, Normal, Abnormal I, Abnormal II, and Latex [Enter]. Press [F4] to print. Review and file in logbook. Continue to select each file in turn, print, and file.

Screen-specific function keys:

[F2] File Displays all available files. Use [↓] and [↑] to select the correct file. Press [Enter].

[F3] Transmit Transmits the data of the entire control file to a host computer.

[F4] Print Prints the entire file in a line list format.

[F6] Rem/Res

Removes a highlighted run from the calculations. A DEL appears in place of the run number. The statistics recalculate. Pressing [F6] again restores the run and original statistics.

[F8] Delete File

Deletes the current control file. Displays a message "*You have asked to delete ENTIRE control file. Are you sure you want to delete?"* Press the spacebar to select Yes or No then press [Enter] to confirm the choice.

[F9] Menu Exits to the main menu.

[F12] Graphics	Displays scatterplots, histograms, and numeric results
[←] [→] More	Press [←] or [→] to see additional parameters not displayed on the screen.

D. Record 5C Cell and Latron Lot Numbers in ISIS

The ISIS maintains the capability to download all 5C Cell and Latron Control data. The data are used to monitor quality control results. Upload or enter data for each lot number each time a new lot number is put into use. The ISIS uses the same 5C Cell control disk as the HmX. Manually enter the Latron data using information contained in the package insert.

Access the Coulter QC Lot Info module.

The Lab Hood or data entry window displays.

The data entry window contains **Import 5C** and **New Latron** buttons. The window also contains **Save**, **OK**, and **Cancel** buttons. After the data are entered, there are possible actions: save, save and exit, or exit without saving the data. Make sure the separate floppy drive is connected to a USB port on the sink hard dive. Insert the HmX 5C Cell control disk into the floppy drive attached to this computer.

Select the **Import 5C** button or type [Alt] [I/i] to begin the process of entering 5C Cell lot information.

The Select File window displays.

Identify the location of the disk containing the 5C Cell control data.

Highlight the CONTROL.008 file, select the Open button and left click.

Once the Open button is selected, the data are uploaded and the Lab Hood window reappears. The data fields display the uploaded data for the three levels of 5C controls; Abnormal I, Normal, and Abnormal II. Stretch the window to view all parameters and values.

Review the data in the window. Compare the data in the window to the data on the package insert. Verify the lot number and expiration date. Validate the Expected and Range values for each parameter. Confirm this information for each QC Type. Enter the Latron data by hand entering the data from the package insert. To access the Latron data entry fields, select the "New Latron" button. The lower portion of the window contains 9 text boxes, three each for Volume (V), Conductivity (C), and Scatter (S.).

Enter the lot number and expiration date. The Lot# and Expiration text boxes are located in the top portion of the window. Use the scroll bar to view the row. Type in the Lot number using the keyboard numbers and use the calendar to enter the expiration date. Use the keyboard number keys to enter the lot number then select [Tab] to move to the expiration date field. The calendar displays. Select the correct expiration date and, when finished, select the "OK" button to insert the date into the field.

Use the keyboard number keys to enter the Latron data. The window is identical to the layout of the data on the package insert. Use the keyboard number keys to enter each value for Mean, Expected Range, and CV. When finished, select the Save button to save the data to the database. It is possible to enter Latron data for a new lot without entering 5C Cell control data. Select the "New Latron" button to access the module. The window only contains text boxes for the Latron control. Enter the data and save the information to the database.

E. Interlaboratory Quality Assurance Program (IQAP)

All instruments participate in Coulter's IQAP program. The IQAP program includes saving results of 5C Cell controls, transferring them to a disk, and sending them to Coulter who compares the results to other laboratories. Coulter issues a report that contains a statistical analysis to evaluate performance. Perform this procedure at the end of each stand, or when a lot expires.

Follow procedure for CBC/DIFF and Latex control review and report. After downloading and printing results, delete control files [F8].

1. Procedure to download IQAP files to diskette.

   a) Slide the diskette into the drive with the arrow side up and pointed toward the drive in the Coulter® Data Management System. Gently push the diskette until it clicks into place.

   b) Turn the computer OFF. Wait 15 seconds, and then turn the computer back ON. A screen will appear showing the Coulter® Corporation logo. To exit this screen, follow the instructions on the bottom left portion of the screen, and press [Esc].

   c) The screen will indicate the process the system is performing. Read the instructions on the screen. When the process is complete, the DMS displays the list of possible files on the screen for review and selection. If some of the values are incorrect, edit or delete the fields on this screen. Any alteration to this screen will affect only data on the IQAP diskette, not in the HMX computer.

   d) FILE_NAME indicates the files by file number for downloading to the diskette.

      -LOT_# indicates the type of control. Prefixes 86, 87, and 88 refer to 5C Cell Controls.
      -SHIFT refers to the shift designation selected for running the controls. Edit this field if necessary. Use arrow keys to position.
      -START and END indicate beginning and end dates for each file. These fields are not editable.
      -REPORT indicates whether IQAP will issue a report on the lot number.
      N_REC indicates the number of records found in the file.

   e) Press [Esc] to leave this screen. If the IQAP# and Serial# are present and valid, the following screen message will appear, "Updating the IQAP

Disk." After writing the control files to the diskette, a screen message will give instructions to follow. Follow these instructions and the computer will reboot to the routine program. To remove the diskette, press the eject button on the lower right of the diskette drive opening. Do not remove the diskette until the drive indicator light is off.

f) Label the diskette with the supplied IQAP ID label. Place the diskette in the preaddressed mailer provided and mail. Do not place the label over the drive spindle or high-density hole.

F. Proficiency testing

Evaluation and participation in the College of American Pathologist (CAP) proficiency-testing program is part of the comprehensive quality control program. These survey materials are shipped three times per year and consist of 5 3-mL whole blood specimens. Follow all CAP instruction in preparing the materials before performing the test. Run specimens in a manner identical to routine specimens. Fill out the CAP result form, make a copy for the logbook, and send results to CAP.

G. Linearity for WBC, RBC, Hgb and Plt parameters

Lin-C™ (PN 7547065 - 5 x 3.3-mL) – The Lin-C™ linearity controls verifies the reportable range of Coulter® hematology systems that use both Isoton® III diluent and Lyse S® III diff lytic reagent.

OR

CAP Hematology Calibration Verification/Linearity Survey (LN9) - These materials are shipped twice per year and consist of 18 3-mL liquid specimens. Follow all CAP instruction in preparing and running the materials before performing the test. Fill out the CAP result form, make a copy for the logbook, and send results to CAP.

Run either the Lin-C(trademark)or CAP LN9 survey material:

- At installation
- At least yearly
- Whenever experiencing an altitude change of 1 mile or more between stands

1. Principle - Lin-Clinearity controls are human blood components from which repeated measurements verify the reportable range of Coulter hematology systems. Controls contain one each of Ultra Low Range, Low Range, Mid Range, High Range, and Ultra High Range. Lin-C verifies ranges for the following parameters: WBC, RBC, Hgb, and Plt.

   To ensure the accuracy of linearity control ranges, Coulter system calibrates with S-CAL calibrator.

2. Reagents – Lin-C controls consist of treated, stabilized, human erythrocytes in an isotonic bacteriostatic medium. Linearity controls also contain a stabilized platelet-sized component, and fixed erythrocytes to simulate leukocytes.

3. Storage, handling, and stability – Ship Lin-C controls in thermally insulated containers designed to keep kits cool. Store Lin-C linearity controls between 2-8°C (35-46°F). Store vials in an upright position to achieve maximum product yield. Storage of the control product in a cap down position might require additional mixing or complete resuspension of cellular components.

   Potential biohazard – Each human donor used in preparation of this material was tested by an FDA approved method for the presence of the antibodies to Human Immunodeficiency Virus (HIV) and Hepatitis C (HCV) as well as for hepatitis B surface antigen and found to be negative (were not repeatedly reactive.) Handle these reagents at Biosafety Level 2 because no test method can offer complete assurance that these and other infectious agents are absent.

4. Indications of instability or deterioration – Inability to obtain expected values without known instrument problems or gross hemolysis (dark colored supernatant) indicates product deterioration. A slight pink color to the supernatant is normal. Do not confuse this pink color with deterioration of the product.

5. Instructions for use -- Remove Lin-C controls from refrigerator and warm to ambient temperature for 10-15 minutes. After warming, mix by hand as follows:

   Do not use a rotator, rocker, or mechanical mixer. Roll the tube slowly between the palms of the hands eight full rotations in an upright position. Invert the tube and slowly roll it again eight times. Gently invert the tube eight times. Repeat these actions again. Controls expire 7 days after opening.

   a) Turn the blood detectors off to analyze the Ultra Low Range. Select **SPECIAL FUNCTIONS, DIAGNOSTICS, OPERATOR OPTIONS, BSV TESTS, and BLOOD DETECTOR ON/OFF.** Press [Enter]. Use space bar to select On or OFF. Press [Enter].

   b) Disable the differential before analyzing Lin-C linearity controls. Is SAMPLE MODE displayed? If no, press [F9] STOP. Make sure the DIFF is off. If it is on, press [F6].

   c) When analyzing Lin-C linearity controls, flags such as L, LL, H, HH, R, RR, *, *R, and *V will occur. Ignore these flags if a numerical result is obtained. When ---- (voteout), ... (incomplete computation) or ++++ (over range) flags occur, the sample should be repeated. Ignore Coulter histogram differential flags and results.

   d) Run the Lin-C controls in the Primary Mode of the instrument. Select **SPECIAL FUNCTIONS, CALIBRATION, and REPRO-DUCIBILITY.** Press [Enter]. Press [F2] START PRIMARY. Analyze controls six times and record the results for WBC, RBC, Hgb, and Plt

parameters for each sample on the worksheet. Repeat flagged samples with non-numeric results.

e) Coulter recommends that five sample results should be used to calculate the mean value. Use a minimum of three samples to calculate the mean when repetitive results with non-numeric values occur. Delete the first sample result. Plot mean recovered values on the Lin-C linearity control graphs.

f) Compare the mean value to the linearity control ranges listed on the Table of Expected Results on the package insert. Mean values should recover within the ranges. Use the ranges established by Coulter Corporation as a guideline.

g) Plot the instrument background count as a zero value to extend the reportable range. Coulter will prepare tabular summaries and graphic presentations of the data. Submit the top copy of the worksheet to IQAP at the following address:

Coulter Corporation
IQAP (M/C 31 B04)
PO BOX 169015
Miami, FL 33116-9015

XI. Interpretation of Results and Remedial Action

A. Sample Person hemoglobin and hematocrit review and remedial actions.

1. Review all results to make sure the hemoglobin and hematocrit are acceptable. The hematocrit should be approximately

2. Three times the hemoglobin.

B. Sample person parameter value review and remedial actions.

1. Access the Hematology module or reject a clotted blood tube.

Open the Hematology module.

The Hematology module does not need to be open before running SP samples on the HMX. Note the red icon in the lower right hand corner of the system tray.

This is the NHANES Coulter Monitor icon. It must be open and running at the start of each session. This icon stores all HMX runs in the ISIS database. Open the icon by double-clicking on the Coulter icon on the desktop. The Coulter icon looks like this:

Open the Hematology module.

Either open the module or reject the specimen and add a reason or comment for every CB record where blood was drawn in phlebotomy AND there are no CBC results.

Open the module {Process CBC Data} or record a reason why the CBC is not being run {Not Processed CBC Data}. Select or record a comment for every CBC that is not run.

A pop-up window will display. Confirm the selection.

A CBC Data Not Processed message text box displays that asks, "Would you like to mark sample id XXXXXX as Clotted/Not Enough Blood/Equipment Failure/Lab Error?" . If a Yes response is recorded, the comment is saved to the database. If a No response is recorded, no comment is saved to the database. If the record is marked with the selection in the database, then the heads-up display updates to complete (the CB circle fills in black).

2. Hematology module overview**.**

Coulter does not automatically transmit results to the Laboratory application. Use the Retrieve button to send the results from the DMS to the hematology module. Select after each run. Make sure the Coulter DMS host computer icon (HC) is displaying an up arrow (↑) in the DMS bottom tile bar.

After data are retrieved it displays in the top portion of the window, the SP Data section. This section includes the SP ID, the date and time the CBC was run, and columns for each individual parameter. The bottom portion of the window is the Results section. Results display after the Average Selected ID button is selected.

Review all Coulter data in the SP Data section after it has been retrieved.

The Hematology Results section overview.

The Result columns include: Sample ID, Item (CBC parameter), Result (Coulter data for a single run or the ISIS averaged result for multiple runs), Action (CDC established critical limits), Range (CDC established reference ranges for both genders and four age groups), Error (Coulter transmitted instrument errors), Overlimit (Coulter transmitted result that exceeds the instrument's linearity limit), and Precision (CDC established values for the difference between any two runs.) Checkmarks display in boxes for parameters that have errors, are overlimit, or for those that exceed precision limits. An "H" for "high" and "L" for "low" display for parameters that exceed action limits or reference ranges.

Average, evaluate, and save results for all parameters. The SP's results display in the bottom portion of the window after the Average Selected ID button is selected. Evaluate each parameter for error, overlimit, and precision checkmarks, and "H" or "L" action limit and reference range flags. After results are saved, they are erased from the screen.

A warning text box displays if the Close button is selected before the results have been saved.

If the Close button is selected before the results are saved to the database, a warning message text box displays that states, "WARNING *you have not saved the data in the 'Result' window" and asks, "Do you want to save the data before exiting?" If a Yes response is recorded, the CBC results are saved to the database and erased. If a No response is recorded, no results are saved to the database and the data in the Results section is erased. A Cancel response returns the screen to its previous state.

3. Running samples when only one run is possible.

Save results where only one run was possible.

Run samples in duplicate whenever possible. If the whole blood is insufficient, it is acceptable to average and save only one run. A warning message text box displays that states, "You have downloaded only one (1) run from the Coulter HMX for SPID *XXXXXX*" and asks, "Do you want to create an average based on a single run?" If a Yes response is recorded, the CBC results display in the bottom Results section of the window. A "No" response cancels the action and returns the window to its previous state. For results where only one run was possible, the Comment box at the bottom of the window defaults to "result based on single run."

4. Running samples in duplicate.

Run all samples in duplicate and average the data.

Whenever a sample is run in duplicate, both results display in the SP Data section. Results display in the lower section of the window. The difference between duplicate values for WBC, RBC, Hgb, MCV, Plt, NE#, LY#, MO#, EO# and BA# are calculated and evaluated to determine if the differences are within the following CDC established precision limits.

CDC established precision limits:

Test	Precision Limits
WBC	0.4×10^3
RBC	0.1×10^6
Hgb	0.4 g/dL
MCV	2.2 fL
Plt	23×10^3
NE#	0.4×10^3
LY#	0.2×10^3
MO#	0.2×10^3
EO#	0.2×10^3
BA#	0.2×10^3

If RBC parameters are out of range, evaluate the data for drift. If drift is evident, evaluate the possibility of an instrument malfunction. If any WBC differential absolute number is out of range, check the WBC scattergram for abnormal cell population(s).

Evaluate and save results when precision limits are not exceeded.

Evaluate results for all parameters. Evaluate each parameter for error, overlimit, and precision checkmarks, and "H" or "L" action limit and reference range flags. If there are no checkmarks in the Precision column (no precision limit was exceeded), save the results to the database.

Average, evaluate, and rerun specimens that exceed precision limits.

If at this point, precision limits are exceeded for any individual parameter, the technologist is prompted to run a control and evaluate the control to determine if all control values fall within the control's established range.

If any parameter exceeds its precision limit, the Hematology Control Run window displays. The Hematology Control Run window indicates that the "Samples for SP ID *XXXXXX* are outside the defined precision limits." It instructs the technologist to "Please run a successful control for Session ID *XXXXXX*, and then run another sample for SP ID *XXXXXX*." Run any one level of 5C Cell control and evaluate the results. Respond to the two questions, "Did you run a control run"? and "Were all control values within established range"? Save the responses to the check box questions.

As soon as the OK button is selected, the averages display in the Results section of the window.

Evaluate the results displayed in the Results section of the window.

Evaluate each parameter for error, overlimit, and precision checkmarks, and "H" or "L" action limit and reference range flags. Use the scroll bar to view all results. When there are checkmarks in any of the Precision columns, meaning that the precision limit was exceeded, rerun the blood sample a third time. If there is insufficient blood to run the CBC a third time, save the result to the database.

Run the specimen a third time when any precision limit is exceeded. Whenever a sample is run more than once, all results in the SP Data section are displayed. The initial averaged results for parameters that do not exceed precision limits are fixed and are not recalculated. Override the current averaged results for parameters that exceeded the precision limit with a new average.

Whenever a sample has previously been averaged, and a new average is calculated, a Warning message text box displays stating, "Averages for SP ID *XXXXXX* have already been calculated (but not saved) for session ID *XXXXXX*." The text box instructs, "Please click YES to override these results with a new average." .

Evaluate the new results.

The first three runs are recalculated to find the closest two results for parameters where the difference between any two results exceeded its precision limits. If all parameters now meet precision limits (there are no checkmarks in the Precision column), save the results to the database.

If necessary, run the specimen a fourth time and evaluate.

If precision limits are still not met for any parameter, run the blood tube a fourth time. Re-average, evaluate, and save the results. If after four runs precision limits are still not met for any parameter, a comment is automatically attached to the results. Do not run a specimen more than four times.

5. Attaching comments to the results.

Enter a comment for any run where results were repeated and confirmed, the equipment failed, or there was a laboratory error. Save the result after attaching a comment.

6. Using alternative data manipulation choices.

Retain data for multiple SPs in the SP Data section of the window.

In general, run one SP in duplicate through the Coulter, retrieve the data, average the result, and save the data to the database. The Hematology module will display data for multiple SPs in the SP Data section. Each individual SP's results or pairs of results are displayed in a different color. Average the results for one SP at a time.

Evaluate each parameter for error, overlimit, and precision checkmarks, and "H" or "L" action limit and reference range flags. If there are no checkmarks in the Precision column (no precision limit was exceeded), save the result to the database. If there are any Precision checkmarks, run a 5C Cell control, evaluate the control results, rerun the blood tube a third time, re-average, evaluate, and save the results.

Use alternative data manipulation choices as desired.

Release the mouse button to clear all downloads. All data in the SP Data section is erased but any averaged result remains in the Results section of the window. To clear the result section, close the Hematology module.

Use the data manipulation functions to erase or delete one SP's data in the SP Data section.

Use the "View Log for ID# *XXXXXX*" choice to view all Coulter data, averages, and precision limit values for any SP. Review the SP's log. The SP's log contains detailed information for each parameter and each run.

7. Re-averaging results.

Re-average a result that has or has not previously been saved to the database.

If a SP has not exited the MEC and the Report of Findings has not been printed, it is possible to retransmit and re-average the results for a SP and overwrite (save) the results in the database. A warning message text box displays when an attempt is made to save the data on a SP who has not exited the MEC or for whom a Report of Findings has not been printed. This text states, "Averages for SP ID *XXXXXX* have already been calculated (but not saved) for session *XXXXX*. Please click Yes to override these results with a new average."

If the SP has exited the MEC or the Report of Findings has been printed, it is impossible to overwrite (save) the results in the database.

A warning message text box displays when an attempt is made to save the data on a SP either who has exited the MEC or for whom a Report of Findings has been printed. This text states, "Results from the Coulter HMX for SPID *XXXXXX* already exist for an SP who has already checked out of the MEC. The

system will now clear the download for SP ID *XXXXXX*." The downloaded data, including the results, are automatically erased.

C. HMX parameter codes

1. Review the message

The Coulter HMX uses triplicate counting with strict voting criteria. It has proprietary flagging algorithms to confirm parameter results before reporting. The instrument may not detect a transient or partial aperture blockage by any of these processes. A partial aperture blockage may cause erroneous results, such as WBC count lower than what is present. Monitor the aperture-viewing screen when cycling specimens that are likely to contain fibrin or debris.

2. The HMX displays abnormal parameter results for all cell populations and values.

Review the result for the affected parameter. Rerun the specimen if any of the parameter flags occurs.

D. HMX suspect messages

1. Suspect messages flag an abnormal cell distribution or population. The system generates these messages according to an internal algorithm. Specific suspect messages indicate some abnormalities that exhibit characteristic cluster patterns. Suspect messages indicate the possibility of a particular abnormality. Not every atypical scatterplot has a corresponding suspect message.

2. Remedial action – Rerun the specimen.

E. Physician review

1. The MEC physician reviews and interprets all CBC results. Results outside action limits flash and transmit to the physician immediately. The physician determines if referral for the SP for treatment is necessary.

2. The medical technologist sends an observation to the physician whenever a critical or action limit is detected for any CBC parameter. This observation includes the date, time, responsible laboratory individual, person notified, and test results.

   Send an observation on any SP scheduled into the MEC session. Access the observation function.

   Select or highlight the correct SP. Verify that the SP ID, name, and age are correct. Use the scroll bar to view the complete list of SPs.

   The observation window displays. Enter the observation on a survey participant. Document the date, time, responsible laboratory individual, person notified, and test results, including the parameter.

XII. Limitations of Method: Specimen Rejection, Interfering Substances and Conditions

This method limits samples to human whole blood.

A. Specimen rejection

1. Reject clotted specimens and recollect.

B. Interfering Substances and Conditions

Because the Coulter directly measures RBC, WBC, Hgb, and Diff %, it is most important to concentrate on analytes and substances that interfere with these parameters. The Coulter calculates HCT, MCH, MCHC, and DIFF # parameters. The Coulter derives MCV, RDW, PLT, and MPV from RBC or platelet histograms. The following are possible interfering substances or conditions:

Abnormal BUN, glucose, or sodium levels could affect the MCV.

Abnormal WBCs could affect lymphocytes, monocytes, and granulocytes.

Abnormally small WBCs could affect white count, lymphocytes, monocytes, and granulocytes.

Clumped platelets could affect white count, lymphocytes, monocytes, granulocytes, RBC, MCV, RDW, platelet count, and MPV.

Cryofibrinogen and cryoglobulin crystals could affect white count, lymphocytes, monocytes, granulocytes, RBC, hemoglobin, platelet count, and MPV.

An elevated WBC count could affect RBC, hemoglobin, MCV, RDW, platelet count, and MPV parameters.

Fragile WBCs could affect white count, lymphocytes, monocytes, granulocytes, platelet count, and MPV.

Giant platelets could affect white count, lymphocytes, monocytes, granulocytes, RBC, MCV, RDW, platelet count, and MPV.

Hemolyzed specimens could affect RBC, hemoglobin, platelet count, and MPV.

Lipemic specimens could affect MCV.

Severely icteric plasma causes increased hemoglobin. Evaluate CBC result carefully and report all parameters except the hemoglobin result.

Nucleated RBCs could affect the white count, lymphocytes, monocytes, granulocytes, and hemoglobin values.

WBC - Certain unusual RBC abnormalities that resist lysing, nucleated RBCs, fragmented WBCs, agglutinated WBCs, any unlysed particles greater than 35 fL, very large or aggregated platelets as when anticoagulated with oxalate or heparin, specimens containing fibrin, cell fragments, or other debris such as pediatric and oncology specimens.

RBC - Very high WBC count, high concentration of very large platelets, agglutinated RBCs, RBCs smaller than 36 fL, specimens containing fibrin, cell fragments, or other debris such as pediatric and oncology specimens.

Hgb - Very high WBC count, severe lipemia, heparin, certain unusual RBC abnormalities that resist lysing, or anything that increases the turbidity of the sample such as elevated levels of triglycerides.

MCV - Very high WBC count, high concentration of very large platelets, agglutinated RBCs, RBC fragments that fall below the 36-fL threshold, or rigid RBCs.

RDW - Very high WBC count, high concentration of very large or clumped platelets as in blood anticoagulated with oxalate or heparin, RBCs below the 36-fL threshold, two distinct populations of RBCs, RBC agglutinates, or rigid RBCs.

Plt - Very small red blood cells near the upper threshold, cell fragments, clumped platelets as with oxalate or heparin, platelet fragments, or cellular debris near the lower platelet threshold.

MPV - Known factors that interfere with the Plt count and shape of the histogram or known effects of EDTA.

Hct - Known factors that interfere with the parameters used for computation: RBC and MCV.

MCH - Known factors that interfere with the parameters used for computation: Hgb and RBC.

MCHC - Known factors that interfere with the parameters used for computation: Hgb, RBC and MCV.

Diff Parameters - Known factors that affect the WBC count as listed above or high triglycerides that affect lysing.

XIII. Reference Ranges

1. Males

Age in years	5-Jan		18-Jun		19-65		66+	
	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5
White blood cell count (SI)	4.3	14.6	3.6	11.5	3.9	11.8	3.8	12.1
Red cell count (SI)	3.98	5.3	4.14	5.78	4.18	5.86	3.57	5.67
Hemoglobin (g/dL)	10.7	14.2	11.9	16.9	13.1	17.5	11.4	17.1
Hematocrit (%)	32.1	41.7	35.3	49.9	38.7	51.4	33.9	50.9
Mean cell volume (fL)	68.2	88.8	75.6	94.6	79.8	99.1	81.4	102.7
Mean cell hemoglobin (pg)	22.3	30.6	25	32.3	26.3	34	26.3	35
MCHC (g/dL)	32.3	35.6	32.3	35.3	32.3	35.3	32.1	35.1
Red cell distribution width (%)	11.4	15.8	11.4	14	11.4	14.5	11.8	16.2
Platelet count (%) SI	212	546	179	439	152	386	124	384
Mean platelet volume (fL)	6.1	8.9	6.6	10	6.8	10.1	6.6	10.2
Lymphocyte percent (%)	22.8	68.4	17.5	54.3	16.1	47.9	12.3	46.4
Monocyte percent (%)	4.6	15.2	4.8	13.7	4.4	13.5	4.6	14
Segmented neutrophils percent (%)	17.6	67.1	30.3	72.8	37.8	74.6	39.5	78.1
Eosinophils percent (%)	0.7	11.3	0.7	11.5	0.7	8.5	0.6	8.8
Basophils percent (%)	0.1	2.5	0.1	1.6	0.1	1.6	0.1	1.6

2. Females

Age in years	5-Jan		18-Jun		19-65		66+	
	2.5	97.5	2.5	97.5	2.5	97.5	2.5	97.5
White blood cell count (SI)	4.3	14	3.9	12.2	4.1	12.9	4	11.6
Red cell count (SI)	3.96	5.28	3.84	5.24	3.64	5.2	3.51	5.34
Hemoglobin (g/dL)	11	14.2	11.2	15.1	10.6	15.6	10.9	15.9
Hematocrit (%)	32.5	41.9	33.5	44.6	32	45.9	32.8	47
Mean cell volume (fL)	70.2	89.1	74.7	94.9	74.6	98.2	80.3	100.6
Mean cell hemoglobin (pg)	23.3	30.8	24.5	32.6	24.3	33.8	26.4	34.5
MCHC (g/dL)	32.4	35.5	32.3	35.3	32.1	35.3	32.3	35.1
Red cell distribution width (%)	11.3	15.4	11.3	14.8	11.4	16.3	11.6	16.3
Platelet count (%) SI	215	547	190	446	168	441	155	428
Mean platelet volume (fL)	6.1	8.9	6.6	10	6.8	10.2	6.7	10.5
Lymphocyte percent (%)	21.6	68.8	17.2	54.7	14.1	47.6	13.7	46.9
Monocyte percent (%)	4.2	14.4	4.3	12.7	3.8	11.6	4.4	12.8
Segmented neutrophils percent (%)	19.4	69.5	31.9	74.3	39.8	78.1	40.9	78.1
Eosinophils percent (%)	0.6	9.9	0.6	9.9	0.6	7.3	0.6	7.5
Basophils percent (%)	0.1	2.5	0.1	1.6	0.1	1.7	0.1	1.7

3. Reference ranges for normal values were calculated from the NHANES data set (1999-2004) using 95% reference interval(s) determined nonparametrically, through ranking the observations and determining the lower (2.5th percentile) and the upper (97.5th percentile) reference limits. The nonparametric (ranking) method was used because most measured hematology parameters have a skewed, non-Gaussian distribution.

XIV. Action Limits

Action limits are a guide to inform the physician that a CBC result(s) is/are abnormal. Since all specimens are run in duplicate, there is no reason to retest the sample.

WBC male and female (all ages)	< or = to 3 x 10^3 μL or > or = to 16.0 x 10^3 μL
Hgb male and female (<6 years)	<6.5 g/dL or >14.5 g/dL
Hgb female (>6 years)	<6.5 g/dL or >16.0 g/dL
Hgb male (>6 years)	<6.5 g/dL or >18.0 g/dL
PLT male and female (all ages)	<50 x 10^3 μL or >800 x 10^3 μL

Possible causes of abnormal parameters:

High RBC, Hgb, or HCT -- dehydration, polycythemia, shock, chronic hypoxia
Low RBC, Hgb or HCT -- anemia, thalassemia and other hemoglobinopathies
Low MCV -- microcytic anemia
High MCV -- macrocytic anemia, liver disease
Low WBC -- sepsis, marrow hypoplasia
High WBC -- acute stress, infection, malignancies
Low platelets -- risk of bleeding
High platelets -- risk of thrombosis

XV. Specimen Storage and Handling during Testing

A. Specimen storage

1. Store specimens capped and place on a rocker at room temperature until processed.

2. Run within 24 hours of drawing.

XVI. Alternative Method for Performing Test or Storing Specimens if Test System Fails

There is no alternative method for this test. Store EDTA tube at room temperature for no more than 24 hours. Restore the instrument to functionality and then run the specimen.

XVII. Test Results Reporting System: Protocol for Reporting Action Limits

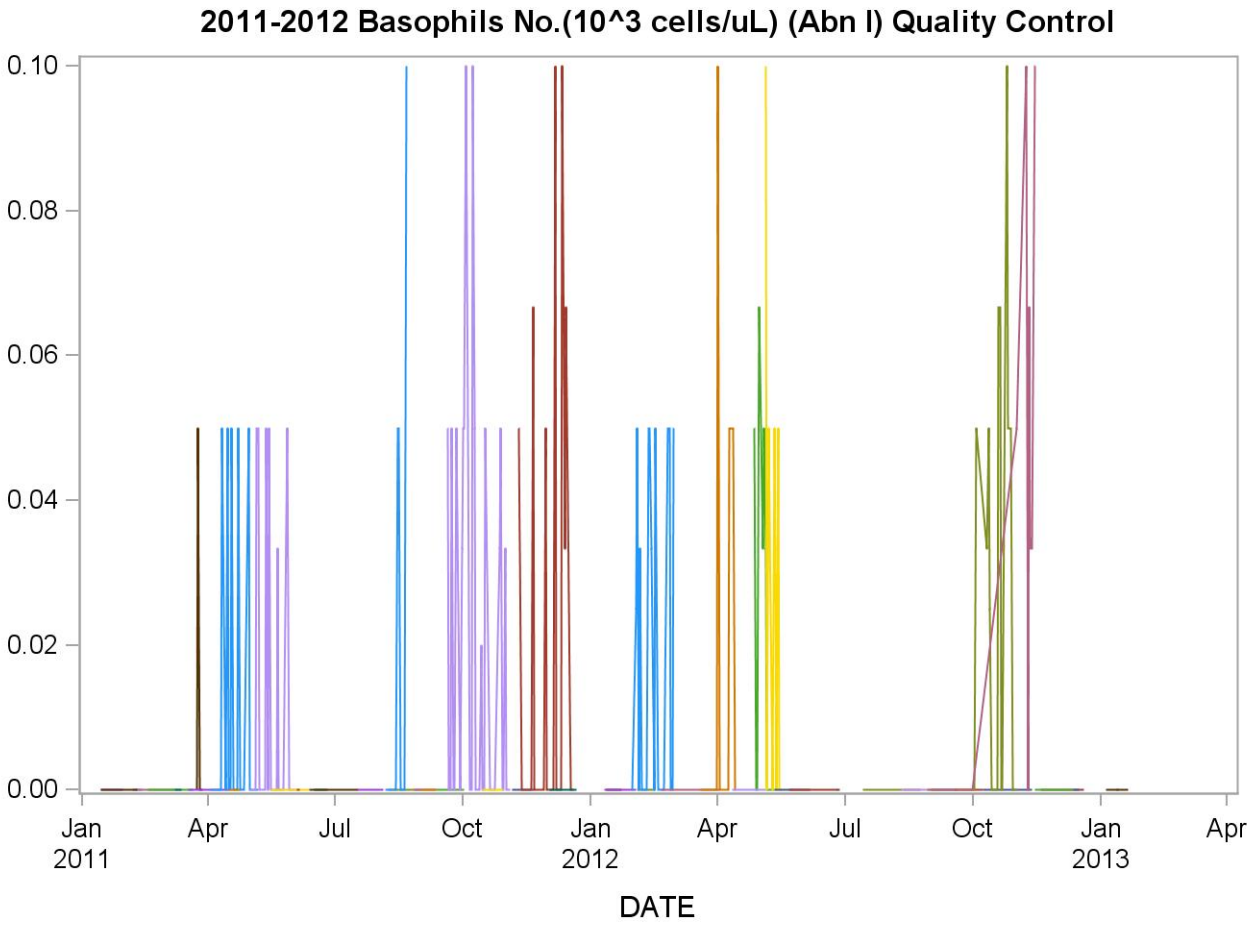
Results outside the action limits are automatically brought to the physician's attention for a decision as to "course-to-follow."
All records, including QA/QC data will be maintained for 6 years. Use only numerical identifiers for SP results.

XVIII. Quality Control Summary Statistics and Graphs

Chapter 14 includes a separate detailed description of the comprehensive quality control plan. Monitor 5C® Cell control results for bias and maintain results for the entire study period. Compare all three instruments using the CAP proficiency results.

Summary Statistics for Basophils No.(10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCBANI	23	14JAN11	30JAN11	0.0000	0.0000	.
879800_11_LBCBANI	46	14JAN11	09FEB11	0.0000	0.0000	.
870300_11_LBCBANI	47	06FEB11	08MAR11	0.0000	0.0000	.
870200_11_LBCBANI	7	08FEB11	13FEB11	0.0000	0.0000	.
870500_11_LBCBANI	49	17FEB11	21MAR11	0.0000	0.0000	.
870900_11_LBCBANI	9	08MAR11	13MAR11	0.0000	0.0000	.
871200_11_LBCBANI	49	18MAR11	16APR11	0.0000	0.0000	.
871100_11_LBCBANI	10	24MAR11	28MAR11	0.0100	0.0316	316.2
871400_11_LBCBANI	47	03APR11	07MAY11	0.0106	0.0312	293.0
871500_11_LBCBANI	14	16APR11	24APR11	0.0000	0.0000	.
871900_11_LBCBANI	45	01MAY11	04JUN11	0.0133	0.0344	257.8
872000_11_LBCBANI	42	16MAY11	13JUN11	0.0000	0.0000	.
872200_11_LBCBANI	5	04JUN11	06JUN11	0.0000	0.0000	.
872600_11_LBCBANI	34	13JUN11	18JUL11	0.0000	0.0000	.
872400_11_LBCBANI	18	16JUN11	26JUN11	0.0000	0.0000	.
873200_11_LBCBANI	43	17JUL11	05AUG11	0.0000	0.0000	.
873700_11_LBCBANI	24	06AUG11	21AUG11	0.0125	0.0338	270.3
873600_11_LBCBANI	37	08AUG11	01SEP11	0.0000	0.0000	.
873900_11_LBCBANI	28	27AUG11	12SEP11	0.0000	0.0000	.
874100_11_LBCBANI	17	01SEP11	12SEP11	0.0000	0.0000	.
874400_11_LBCBANI	25	12SEP11	02OCT11	0.0000	0.0000	.
874500_11_LBCBANI	80	20SEP11	04NOV11	0.0213	0.0412	193.7
874900_11_LBCBANI	25	15OCT11	30OCT11	0.0000	0.0000	.
875000_11_LBCBANI	29	05NOV11	21NOV11	0.0000	0.0000	.
875400_11_LBCBANI	66	10NOV11	19DEC11	0.0152	0.0361	238.5
875700_11_LBCBANI	37	02DEC11	21DEC11	0.0000	0.0000	.
876500_12_LBCBANI	31	10JAN12	02FEB12	0.0000	0.0000	.
876100_12_LBCBANI	21	12JAN12	23JAN12	0.0000	0.0000	.
876800_12_LBCBANI	60	30JAN12	29FEB12	0.0167	0.0376	225.5
876600_12_LBCBANI	21	03FEB12	16FEB12	0.0000	0.0000	.
877300_12_LBCBANI	88	20FEB12	02APR12	0.0000	0.0000	.
877800_12_LBCBANI	29	19MAR12	13APR12	0.0103	0.0310	299.6
878200_12_LBCBANI	43	11APR12	05MAY12	0.0000	0.0000	.
878100_12_LBCBANI	25	27APR12	11MAY12	0.0240	0.0436	181.6
878500_12_LBCBANI	19	05MAY12	17MAY12	0.0263	0.0452	171.9
878600_12_LBCBANI	37	11MAY12	06JUN12	0.0000	0.0000	.
879000_12_LBCBANI	73	22MAY12	27JUN12	0.0000	0.0000	.
879300_12_LBCBANI	4	25JUN12	26JUN12	0.0000	0.0000	.
870000_12_LBCBANI	79	14JUL12	11AUG12	0.0000	0.0000	.
870500_12_LBCBANI	43	10AUG12	01SEP12	0.0000	0.0000	.
870400_12_LBCBANI	14	12AUG12	24AUG12	0.0000	0.0000	.
870600_12_LBCBANI	54	29AUG12	30SEP12	0.0000	0.0000	.
871400_12_LBCBANI	71	29AUG12	14NOV12	0.0127	0.0335	264.3
870700_12_LBCBANI	32	01SEP12	19SEP12	0.0000	0.0000	.
870800_12_LBCBANI	27	18SEP12	08OCT12	0.0000	0.0000	.
871200_12_LBCBANI	48	30SEP12	02NOV12	0.0271	0.0449	165.8
1.3293E8_12_LBCBANI	68	08OCT12	12NOV12	0.0000	0.0000	.
871800_12_LBCBANI	48	14NOV12	12DEC12	0.0000	0.0000	.
1.3296E8_12_LBCBANI	47	18NOV12	19DEC12	0.0000	0.0000	.
872000_12_LBCBANI	7	12DEC12	16DEC12	0.0000	0.0000	.
1.3297E8_13_LBCBANI	32	04JAN13	20JAN13	0.0000	0.0000	.
1.3296E8_13_LBCBANI	13	12JAN13	13JAN13	0.0000	0.0000	.


2011-2012 Basophils No.(10^3 cells/uL) (Abn l) Quality Control
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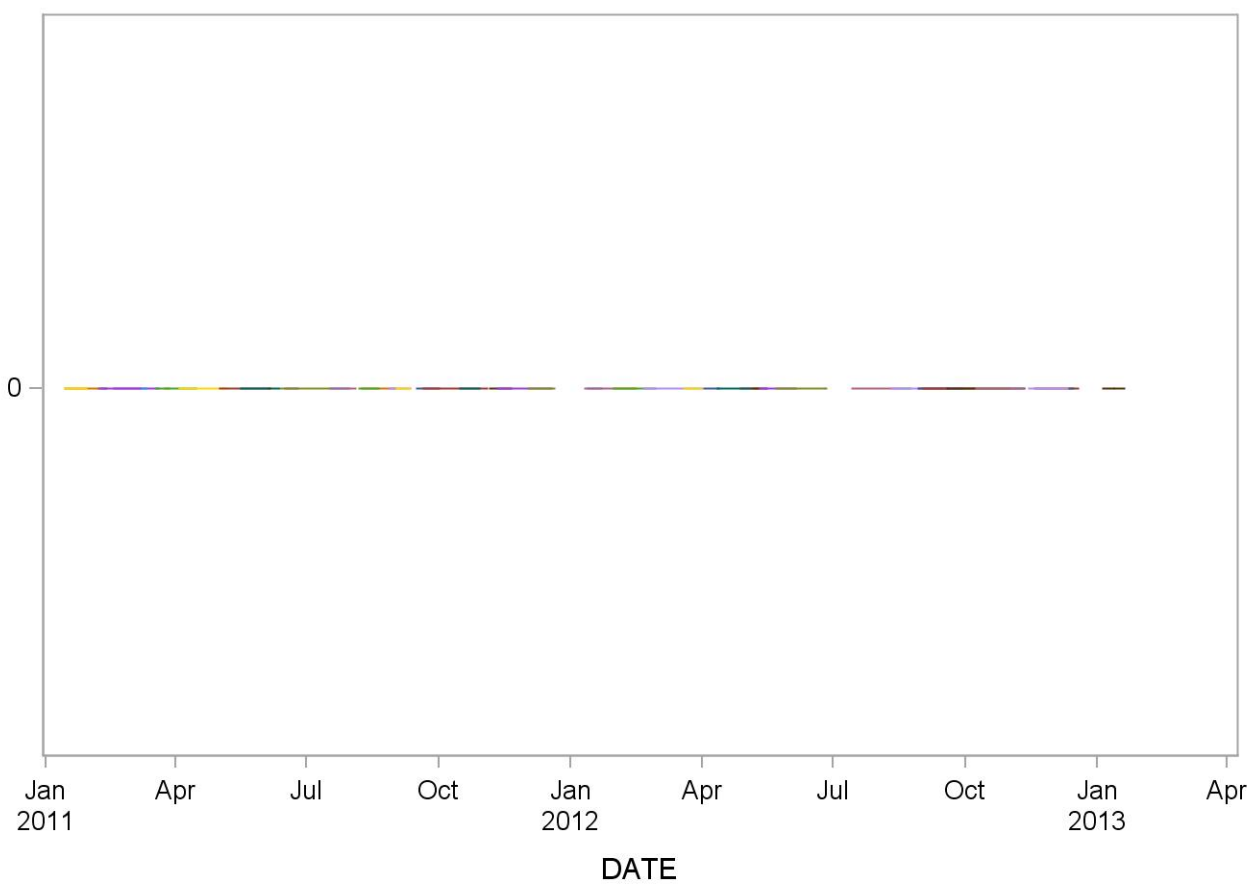
Summary Statistics for Basophils No.(10^3 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCBANII	44	14JAN11	08FEB11	0.0000	0.0000	.
869600_11_LBCBANII	33	14JAN11	30JAN11	0.0000	0.0000	.
869900_11_LBCBANII	49	06FEB11	08MAR11	0.0000	0.0000	.
869800_11_LBCBANII	7	08FEB11	13FEB11	0.0000	0.0000	.
860100_11_LBCBANII	53	17FEB11	21MAR11	0.0000	0.0000	.
860400_11_LBCBANII	7	08MAR11	13MAR11	0.0000	0.0000	.
860700_11_LBCBANII	49	18MAR11	16APR11	0.0000	0.0000	.
860600_11_LBCBANII	11	24MAR11	28MAR11	0.0000	0.0000	.
860900_11_LBCBANII	60	03APR11	07MAY11	0.0000	0.0000	.
861300_11_LBCBANII	45	01MAY11	04JUN11	0.0000	0.0000	.
861400_11_LBCBANII	42	16MAY11	13JUN11	0.0000	0.0000	.
861700_11_LBCBANII	5	04JUN11	06JUN11	0.0000	0.0000	.
862100_11_LBCBANII	31	13JUN11	18JUL11	0.0000	0.0000	.
861900_11_LBCBANII	18	16JUN11	26JUN11	0.0000	0.0000	.
862800_11_LBCBANII	25	17JUL11	05AUG11	0.0000	0.0000	.
862700_11_LBCBANII	20	18JUL11	31JUL11	0.0000	0.0000	.
863200_11_LBCBANII	28	06AUG11	21AUG11	0.0000	0.0000	.
863100_11_LBCBANII	39	08AUG11	01SEP11	0.0000	0.0000	.
863400_11_LBCBANII	24	27AUG11	12SEP11	0.0000	0.0000	.
863500_11_LBCBANII	17	01SEP11	12SEP11	0.0000	0.0000	.
863800_11_LBCBANII	25	15SEP11	02OCT11	0.0000	0.0000	.
863900_11_LBCBANII	76	20SEP11	04NOV11	0.0000	0.0000	.
864300_11_LBCBANII	23	15OCT11	30OCT11	0.0000	0.0000	.
864400_11_LBCBANII	28	05NOV11	21NOV11	0.0000	0.0000	.
864800_11_LBCBANII	50	10NOV11	19DEC11	0.0000	0.0000	.
865000_11_LBCBANII	36	02DEC11	21DEC11	0.0000	0.0000	.
865800_12_LBCBANII	32	10JAN12	02FEB12	0.0000	0.0000	.
865500_12_LBCBANII	20	12JAN12	23JAN12	0.0000	0.0000	.
866100_12_LBCBANII	57	30JAN12	29FEB12	0.0000	0.0000	.
865900_12_LBCBANII	23	02FEB12	16FEB12	0.0000	0.0000	.
866500_12_LBCBANII	91	20FEB12	02APR12	0.0000	0.0000	.
866900_12_LBCBANII	15	19MAR12	01APR12	0.0000	0.0000	.
867000_12_LBCBANII	15	02APR12	13APR12	0.0000	0.0000	.
867300_12_LBCBANII	43	11APR12	05MAY12	0.0000	0.0000	.
867100_12_LBCBANII	26	27APR12	11MAY12	0.0000	0.0000	.
867500_12_LBCBANII	20	05MAY12	17MAY12	0.0000	0.0000	.
867800_12_LBCBANII	38	11MAY12	06JUN12	0.0000	0.0000	.
868100_12_LBCBANII	73	22MAY12	27JUN12	0.0000	0.0000	.
868300_12_LBCBANII	4	25JUN12	26JUN12	0.0000	0.0000	.
869000_12_LBCBANII	84	14JUL12	16AUG12	0.0000	0.0000	.
869500_12_LBCBANII	39	10AUG12	01SEP12	0.0000	0.0000	.
869400_12_LBCBANII	11	16AUG12	24AUG12	0.0000	0.0000	.
860400_12_LBCBANII	60	29AUG12	12NOV12	0.0000	0.0000	.
869600_12_LBCBANII	49	29AUG12	30SEP12	0.0000	0.0000	.
869700_12_LBCBANII	31	01SEP12	19SEP12	0.0000	0.0000	.
869800_12_LBCBANII	27	18SEP12	08OCT12	0.0000	0.0000	.
860200_12_LBCBANII	46	30SEP12	02NOV12	0.0000	0.0000	.
1.4293E8_12_LBCBANII	64	08OCT12	12NOV12	0.0000	0.0000	.
860800_12_LBCBANII	53	14NOV12	12DEC12	0.0000	0.0000	.
1.4296E8_12_LBCBANII	45	18NOV12	19DEC12	0.0000	0.0000	.
861000_12_LBCBANII	7	12DEC12	16DEC12	0.0000	0.0000	.
1.4297E8_13_LBCBANII	32	04JAN13	20JAN13	0.0000	0.0000	.
1.4296E8_13_LBCBANII	9	12JAN13	13JAN13	0.0000	0.0000	.


2011-2012 Basophils No.(10^3 cells/uL) (Abn ll) Quality Control
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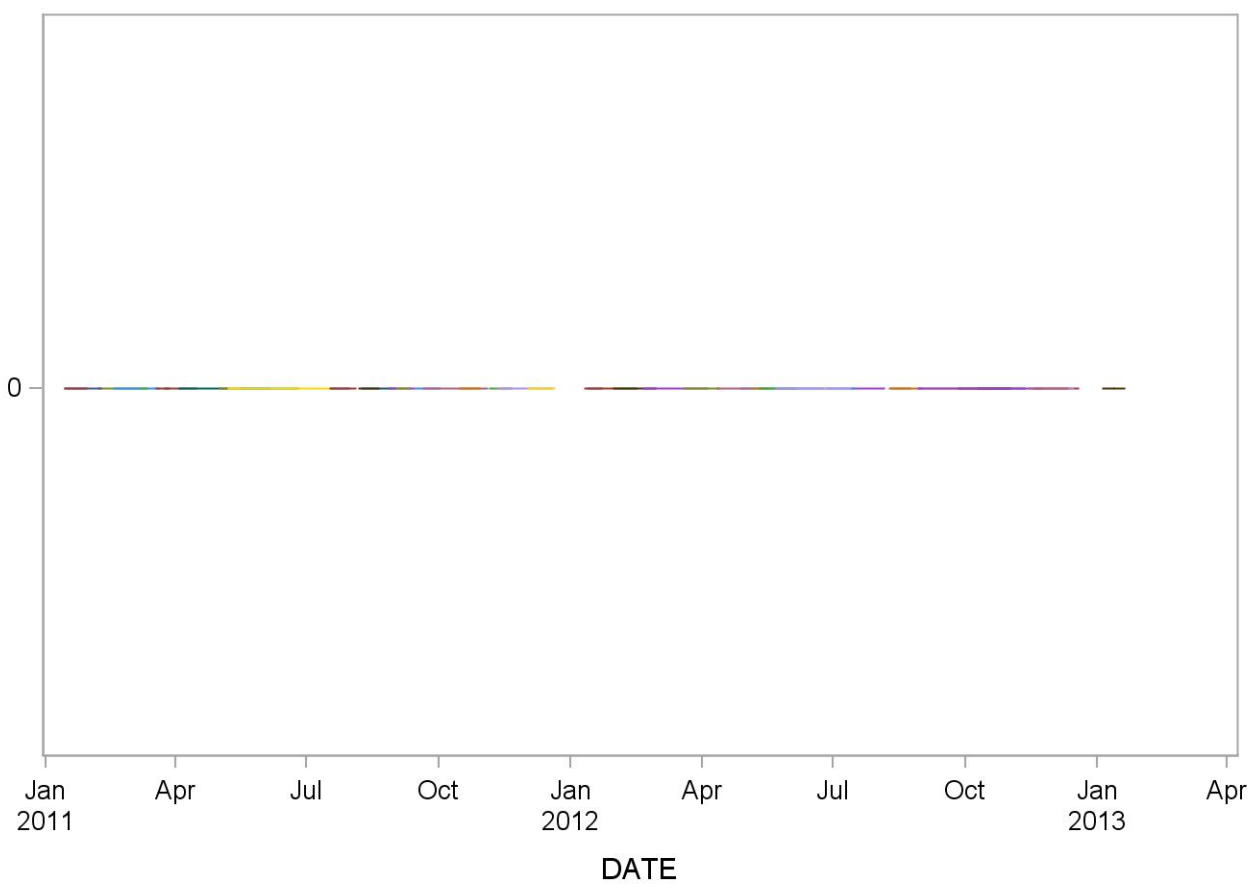
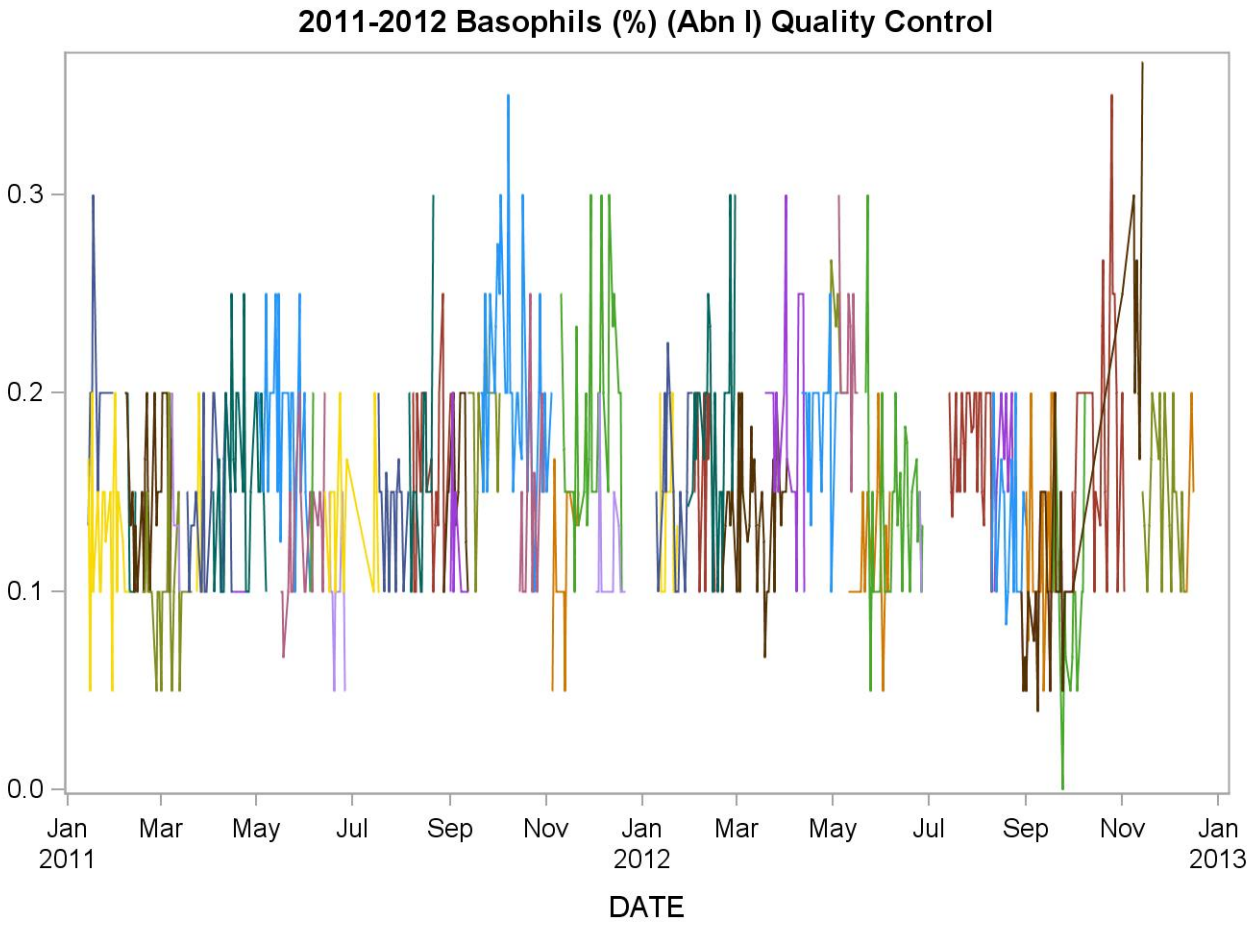
Summary Statistics for Basophils No.(10^3 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCBANN	50	14JAN11	09FEB11	0.0000	0.0000	.
889900_11_LBCBANN	24	14JAN11	30JAN11	0.0000	0.0000	.
880200_11_LBCBANN	59	06FEB11	08MAR11	0.0000	0.0000	.
880500_11_LBCBANN	50	17FEB11	21MAR11	0.0000	0.0000	.
880700_11_LBCBANN	9	08MAR11	13MAR11	0.0000	0.0000	.
881100_11_LBCBANN	48	18MAR11	16APR11	0.0000	0.0000	.
881000_11_LBCBANN	19	24MAR11	28MAR11	0.0000	0.0000	.
881300_11_LBCBANN	64	03APR11	07MAY11	0.0000	0.0000	.
881700_11_LBCBANN	47	01MAY11	04JUN11	0.0000	0.0000	.
882600_11_LBCBANN	35	07MAY11	18JUL11	0.0000	0.0000	.
881800_11_LBCBANN	43	16MAY11	16JUN11	0.0000	0.0000	.
882100_11_LBCBANN	5	04JUN11	06JUN11	0.0000	0.0000	.
882200_11_LBCBANN	19	16JUN11	26JUN11	0.0000	0.0000	.
883300_11_LBCBANN	27	17JUL11	05AUG11	0.0000	0.0000	.
883200_11_LBCBANN	19	18JUL11	31JUL11	0.0000	0.0000	.
884000_11_LBCBANN	27	06AUG11	21AUG11	0.0000	0.0000	.
883700_11_LBCBANN	39	08AUG11	01SEP11	0.0000	0.0000	.
884100_11_LBCBANN	29	27AUG11	15SEP11	0.0000	0.0000	.
884300_11_LBCBANN	18	01SEP11	12SEP11	0.0000	0.0000	.
884600_11_LBCBANN	25	15SEP11	02OCT11	0.0000	0.0000	.
884700_11_LBCBANN	80	20SEP11	04NOV11	0.0000	0.0000	.
885100_11_LBCBANN	24	15OCT11	30OCT11	0.0000	0.0000	.
885200_11_LBCBANN	26	05NOV11	21NOV11	0.0000	0.0000	.
885600_11_LBCBANN	67	10NOV11	19DEC11	0.0000	0.0000	.
885900_11_LBCBANN	40	02DEC11	21DEC11	0.0000	0.0000	.
886600_12_LBCBANN	36	10JAN12	03FEB12	0.0000	0.0000	.
886300_12_LBCBANN	23	12JAN12	23JAN12	0.0000	0.0000	.
886900_12_LBCBANN	60	30JAN12	29FEB12	0.0000	0.0000	.
886700_12_LBCBANN	22	03FEB12	16FEB12	0.0000	0.0000	.
887400_12_LBCBANN	94	20FEB12	05APR12	0.0000	0.0000	.
887800_12_LBCBANN	34	19MAR12	13APR12	0.0000	0.0000	.
888200_12_LBCBANN	40	11APR12	05MAY12	0.0000	0.0000	.
888100_12_LBCBANN	29	27APR12	16JUL12	0.0000	0.0000	.
888500_12_LBCBANN	18	05MAY12	17MAY12	0.0000	0.0000	.
888700_12_LBCBANN	39	11MAY12	06JUN12	0.0000	0.0000	.
889000_12_LBCBANN	79	22MAY12	14JUL12	0.0000	0.0000	.
889500_12_LBCBANN	5	25JUN12	26JUN12	0.0000	0.0000	.
880100_12_LBCBANN	76	14JUL12	06AUG12	0.0000	0.0000	.
880500_12_LBCBANN	20	09AUG12	24AUG12	0.0000	0.0000	.
880600_12_LBCBANN	44	10AUG12	01SEP12	0.0000	0.0000	.
880700_12_LBCBANN	50	29AUG12	26SEP12	0.0000	0.0000	.
881500_12_LBCBANN	65	29AUG12	24NOV12	0.0000	0.0000	.
880900_12_LBCBANN	62	01SEP12	08OCT12	0.0000	0.0000	.
881300_12_LBCBANN	58	26SEP12	02NOV12	0.0000	0.0000	.
1.2293E8_12_LBCBANN	60	09OCT12	12NOV12	0.0000	0.0000	.
882000_12_LBCBANN	48	14NOV12	12DEC12	0.0000	0.0000	.
1.2296E8_12_LBCBANN	52	18NOV12	19DEC12	0.0000	0.0000	.
882200_12_LBCBANN	8	12DEC12	16DEC12	0.0000	0.0000	.
1.2297E8_13_LBCBANN	32	04JAN13	20JAN13	0.0000	0.0000	.
1.2296E8_13_LBCBANN	11	12JAN13	13JAN13	0.0000	0.0000	.


2011-2012 Basophils No.(10^3 cells/uL) (Normal) Quality Control
0
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

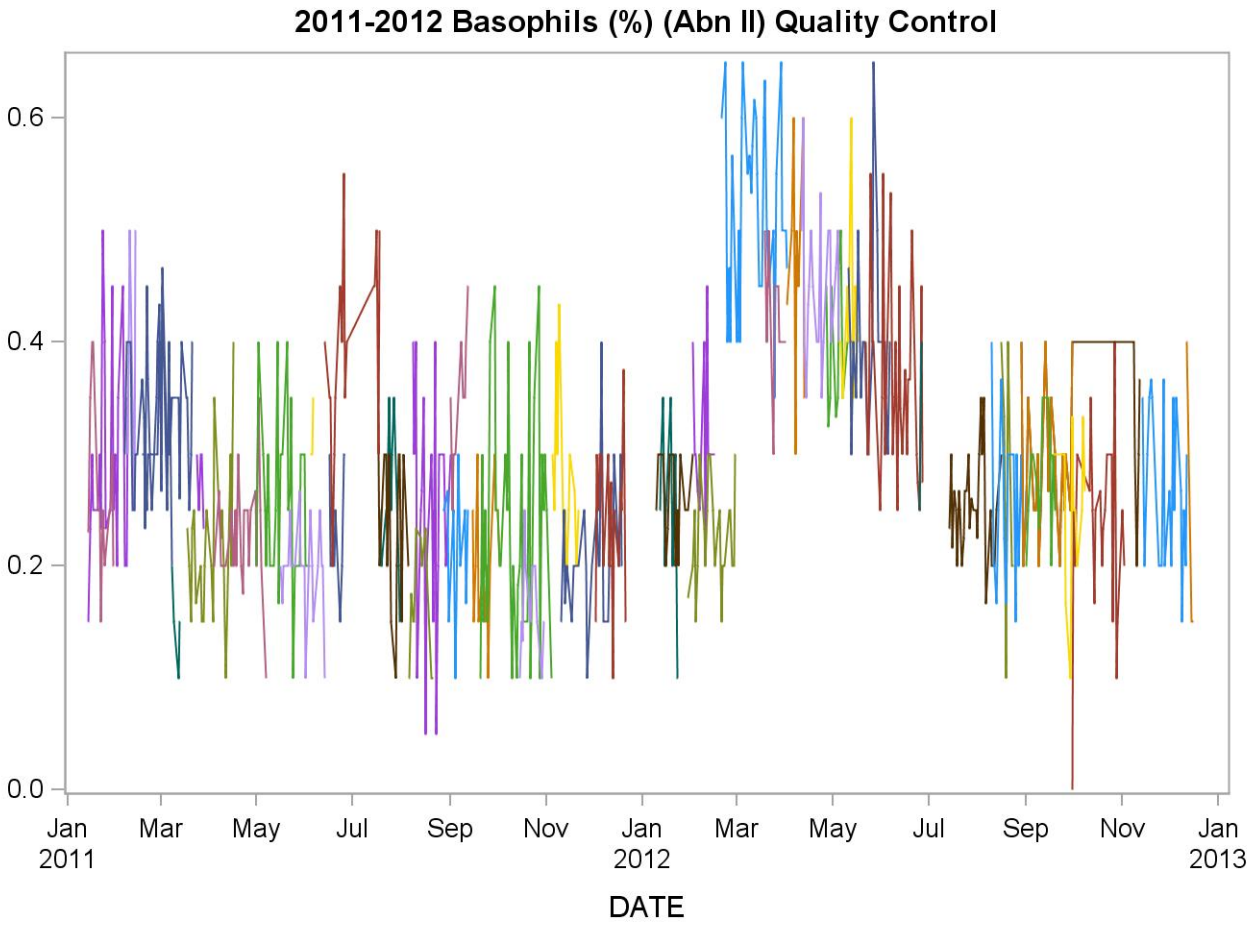
Summary Statistics for Basophils (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCBAPI	25	14JAN11	30JAN11	0.1920	0.0493	25.7
879800_11_LBCBAPI	48	14JAN11	09FEB11	0.1271	0.0644	50.7
870300_11_LBCBAPI	47	06FEB11	08MAR11	0.1468	0.0504	34.4
870200_11_LBCBAPI	7	08FEB11	13FEB11	0.1286	0.0488	38.0
870500_11_LBCBAPI	49	17FEB11	21MAR11	0.1000	0.0408	40.8
870900_11_LBCBAPI	9	08MAR11	13MAR11	0.1333	0.0500	37.5
871200_11_LBCBAPI	49	18MAR11	16APR11	0.1347	0.0481	35.7
871100_11_LBCBAPI	10	24MAR11	28MAR11	0.1400	0.0699	49.9
871400_11_LBCBAPI	47	03APR11	07MAY11	0.1574	0.0683	43.4
871500_11_LBCBAPI	13	16APR11	24APR11	0.1000	0.0000	0.0
871900_11_LBCBAPI	45	01MAY11	04JUN11	0.1822	0.0650	35.7
872000_11_LBCBAPI	42	16MAY11	13JUN11	0.1262	0.0497	39.4
872200_11_LBCBAPI	5	04JUN11	06JUN11	0.1600	0.0548	34.2
872600_11_LBCBAPI	34	13JUN11	18JUL11	0.1382	0.0551	39.9
872400_11_LBCBAPI	18	16JUN11	26JUN11	0.1000	0.0485	48.5
873200_11_LBCBAPI	43	17JUL11	05AUG11	0.1442	0.0548	38.0
873700_11_LBCBAPI	25	06AUG11	21AUG11	0.1560	0.0712	45.6
873600_11_LBCBAPI	39	08AUG11	01SEP11	0.1590	0.0595	37.4
873900_11_LBCBAPI	28	27AUG11	12SEP11	0.1464	0.0508	34.7
874100_11_LBCBAPI	17	01SEP11	12SEP11	0.1176	0.0393	33.4
874400_11_LBCBAPI	26	12SEP11	02OCT11	0.1846	0.0464	25.1
874500_11_LBCBAPI	79	20SEP11	04NOV11	0.2025	0.0733	36.2
874900_11_LBCBAPI	26	15OCT11	30OCT11	0.1385	0.0571	41.2
875000_11_LBCBAPI	29	05NOV11	21NOV11	0.1207	0.0559	46.3
875400_11_LBCBAPI	65	10NOV11	19DEC11	0.1815	0.0748	41.2
875700_11_LBCBAPI	36	02DEC11	21DEC11	0.1083	0.0280	25.9
876500_12_LBCBAPI	33	10JAN12	02FEB12	0.1606	0.0609	37.9
876100_12_LBCBAPI	21	12JAN12	23JAN12	0.1333	0.0483	36.2
876800_12_LBCBAPI	60	30JAN12	29FEB12	0.1783	0.0846	47.4
876600_12_LBCBAPI	21	03FEB12	16FEB12	0.1667	0.0483	29.0
877300_12_LBCBAPI	92	20FEB12	02APR12	0.1402	0.0612	43.7
877800_12_LBCBAPI	29	19MAR12	13APR12	0.1793	0.0620	34.6
878200_12_LBCBAPI	44	11APR12	05MAY12	0.1841	0.0428	23.3
878100_12_LBCBAPI	25	27APR12	11MAY12	0.2200	0.0500	22.7
878500_12_LBCBAPI	19	05MAY12	17MAY12	0.2158	0.0602	27.9
878600_12_LBCBAPI	37	11MAY12	06JUN12	0.1135	0.0481	42.4
879000_12_LBCBAPI	74	22MAY12	27JUN12	0.1412	0.0545	38.6
879300_12_LBCBAPI	4	25JUN12	26JUN12	0.1250	0.0500	40.0
870000_12_LBCBAPI	81	14JUL12	11AUG12	0.1747	0.0488	27.9
870500_12_LBCBAPI	43	10AUG12	01SEP12	0.1302	0.0513	39.4
870400_12_LBCBAPI	15	12AUG12	24AUG12	0.1600	0.0632	39.5
870600_12_LBCBAPI	54	29AUG12	30SEP12	0.0926	0.0544	58.8
871400_12_LBCBAPI	71	29AUG12	14NOV12	0.1296	0.0932	71.9
870700_12_LBCBAPI	32	01SEP12	19SEP12	0.1125	0.0609	54.1
870800_12_LBCBAPI	28	18SEP12	08OCT12	0.0964	0.0744	77.2
871200_12_LBCBAPI	48	30SEP12	02NOV12	0.1833	0.0883	48.2
871800_12_LBCBAPI	49	14NOV12	12DEC12	0.1449	0.0542	37.4
872000_12_LBCBAPI	7	12DEC12	16DEC12	0.1429	0.0535	37.4


2011-2012 Basophils (%) (Abn I) Quality Control
0.3
0.2
0.1
0.0
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

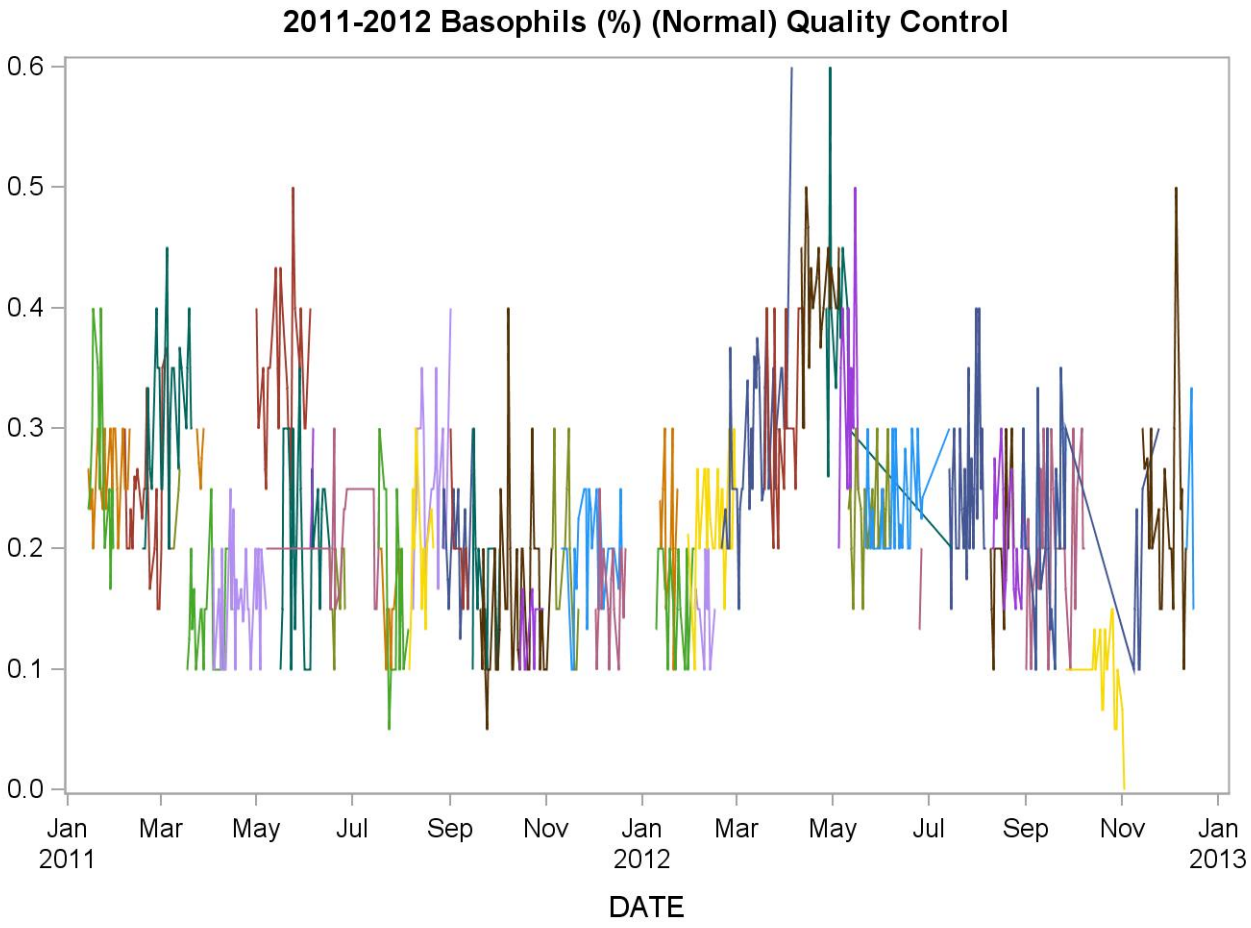
Summary Statistics for Basophils (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCBAPII	43	14JAN11	08FEB11	0.2907	0.1065	36.6
869600_11_LBCBAPII	32	14JAN11	30JAN11	0.2531	0.0842	33.3
869900_11_LBCBAPII	49	06FEB11	08MAR11	0.3306	0.0847	25.6
869800_11_LBCBAPII	7	08FEB11	13FEB11	0.4000	0.1414	35.4
860100_11_LBCBAPII	53	17FEB11	21MAR11	0.3264	0.0944	28.9
860400_11_LBCBAPII	7	08MAR11	13MAR11	0.1429	0.0535	37.4
860700_11_LBCBAPII	49	18MAR11	16APR11	0.2163	0.0746	34.5
860600_11_LBCBAPII	11	24MAR11	28MAR11	0.2727	0.0647	23.7
860900_11_LBCBAPII	60	03APR11	07MAY11	0.2283	0.0691	30.3
861300_11_LBCBAPII	45	01MAY11	04JUN11	0.2622	0.0984	37.5
861400_11_LBCBAPII	41	16MAY11	13JUN11	0.2024	0.0612	30.2
861700_11_LBCBAPII	5	04JUN11	06JUN11	0.3200	0.0447	14.0
862100_11_LBCBAPII	31	13JUN11	18JUL11	0.3935	0.1340	34.1
861900_11_LBCBAPII	18	16JUN11	26JUN11	0.2333	0.0686	29.4
862800_11_LBCBAPII	25	17JUL11	05AUG11	0.2320	0.0900	38.8
862700_11_LBCBAPII	20	18JUL11	31JUL11	0.2550	0.1050	41.2
863200_11_LBCBAPII	27	06AUG11	21AUG11	0.1815	0.0736	40.5
863100_11_LBCBAPII	40	08AUG11	01SEP11	0.2525	0.1502	59.5
863400_11_LBCBAPII	24	27AUG11	12SEP11	0.2208	0.0779	35.3
863500_11_LBCBAPII	17	01SEP11	12SEP11	0.3471	0.1231	35.5
863800_11_LBCBAPII	25	15SEP11	02OCT11	0.2120	0.1130	53.3
863900_11_LBCBAPII	76	20SEP11	04NOV11	0.2355	0.1293	54.9
864300_11_LBCBAPII	23	15OCT11	30OCT11	0.1652	0.0573	34.7
864400_11_LBCBAPII	28	05NOV11	21NOV11	0.2821	0.1156	41.0
864800_11_LBCBAPII	50	10NOV11	19DEC11	0.2100	0.0789	37.6
865000_11_LBCBAPII	36	02DEC11	21DEC11	0.2500	0.0971	38.8
865800_12_LBCBAPII	31	10JAN12	02FEB12	0.2581	0.0720	27.9
865500_12_LBCBAPII	20	12JAN12	23JAN12	0.2550	0.1191	46.7
866100_12_LBCBAPII	58	30JAN12	29FEB12	0.2224	0.0622	28.0
865900_12_LBCBAPII	23	02FEB12	16FEB12	0.3174	0.1302	41.0
866500_12_LBCBAPII	91	20FEB12	02APR12	0.5286	0.1432	27.1
866900_12_LBCBAPII	15	19MAR12	01APR12	0.4267	0.0961	22.5
867000_12_LBCBAPII	15	02APR12	13APR12	0.4733	0.1438	30.4
867300_12_LBCBAPII	43	11APR12	05MAY12	0.4465	0.1120	25.1
867100_12_LBCBAPII	26	27APR12	11MAY12	0.3962	0.0999	25.2
867500_12_LBCBAPII	20	05MAY12	17MAY12	0.4400	0.1095	24.9
867800_12_LBCBAPII	38	11MAY12	06JUN12	0.4079	0.1124	27.6
868100_12_LBCBAPII	71	22MAY12	27JUN12	0.3577	0.1155	32.3
868300_12_LBCBAPII	4	25JUN12	26JUN12	0.3250	0.0957	29.5
869000_12_LBCBAPII	84	14JUL12	16AUG12	0.2488	0.0703	28.2
869500_12_LBCBAPII	40	10AUG12	01SEP12	0.2500	0.0847	33.9
869400_12_LBCBAPII	11	16AUG12	24AUG12	0.2818	0.1168	41.4
860400_12_LBCBAPII	59	29AUG12	12NOV12	0.2831	0.0931	32.9
869600_12_LBCBAPII	49	29AUG12	30SEP12	0.2796	0.0790	28.3
869700_12_LBCBAPII	31	01SEP12	19SEP12	0.2774	0.0762	27.5
869800_12_LBCBAPII	27	18SEP12	08OCT12	0.2556	0.0847	33.2
860200_12_LBCBAPII	46	30SEP12	02NOV12	0.2370	0.1062	44.8
860800_12_LBCBAPII	52	14NOV12	12DEC12	0.2750	0.1203	43.7
861000_12_LBCBAPII	7	12DEC12	16DEC12	0.2571	0.1512	58.8


2011-2012 Basophils (%) (Abn II) Quality Control
0.6
0.4
0.2
0.0
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

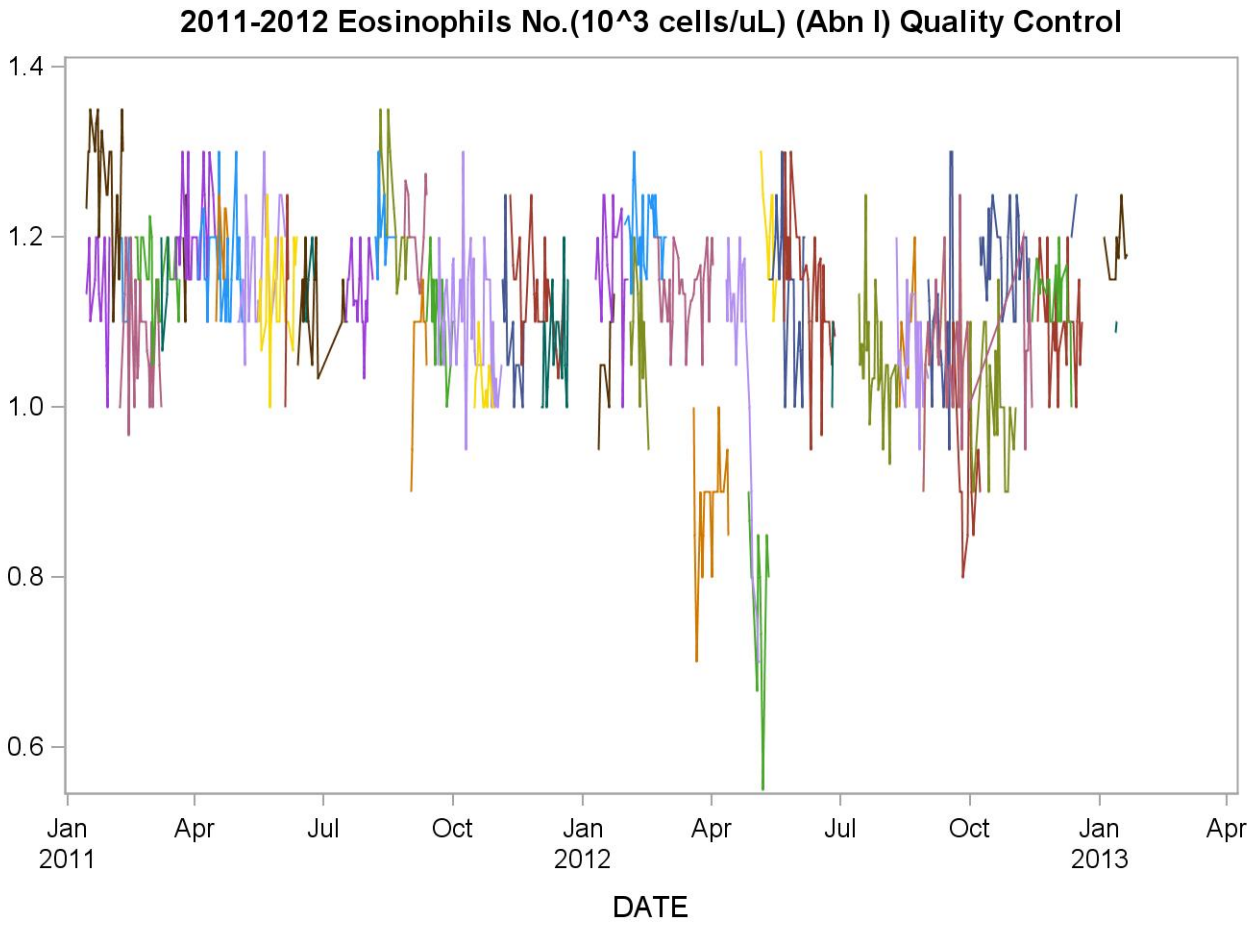
Summary Statistics for Basophils (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCBAPN	50	14JAN11	09FEB11	0.2600	0.0535	20.6
889900_11_LBCBAPN	24	14JAN11	30JAN11	0.2625	0.1013	38.6
880200_11_LBCBAPN	59	06FEB11	08MAR11	0.2390	0.0910	38.1
880500_11_LBCBAPN	50	17FEB11	21MAR11	0.3120	0.0872	28.0
880700_11_LBCBAPN	9	08MAR11	13MAR11	0.2333	0.0707	30.3
881100_11_LBCBAPN	48	18MAR11	16APR11	0.1396	0.0610	43.7
881000_11_LBCBAPN	18	24MAR11	28MAR11	0.2722	0.0669	24.6
881300_11_LBCBAPN	64	03APR11	07MAY11	0.1578	0.0752	47.6
881700_11_LBCBAPN	47	01MAY11	04JUN11	0.3426	0.1016	29.7
882600_11_LBCBAPN	35	07MAY11	18JUL11	0.2057	0.0684	33.2
881800_11_LBCBAPN	43	16MAY11	16JUN11	0.2116	0.1028	48.6
882100_11_LBCBAPN	5	04JUN11	06JUN11	0.2600	0.0548	21.1
882200_11_LBCBAPN	19	16JUN11	26JUN11	0.1632	0.0684	41.9
883300_11_LBCBAPN	27	17JUL11	05AUG11	0.1593	0.0931	58.4
883200_11_LBCBAPN	19	18JUL11	31JUL11	0.1526	0.0513	33.6
884000_11_LBCBAPN	27	06AUG11	21AUG11	0.1926	0.0730	37.9
883700_11_LBCBAPN	39	08AUG11	01SEP11	0.2513	0.0942	37.5
884100_11_LBCBAPN	28	27AUG11	15SEP11	0.1964	0.0744	37.9
884300_11_LBCBAPN	18	01SEP11	12SEP11	0.2000	0.0485	24.3
884600_11_LBCBAPN	25	15SEP11	02OCT11	0.1680	0.0802	47.7
884700_11_LBCBAPN	78	20SEP11	04NOV11	0.1474	0.0817	55.4
885100_11_LBCBAPN	24	15OCT11	30OCT11	0.1417	0.0584	41.2
885200_11_LBCBAPN	26	05NOV11	21NOV11	0.1885	0.0816	43.3
885600_11_LBCBAPN	65	10NOV11	19DEC11	0.1954	0.0818	41.9
885900_11_LBCBAPN	39	02DEC11	21DEC11	0.1641	0.0628	38.3
886600_12_LBCBAPN	36	10JAN12	03FEB12	0.1528	0.0560	36.6
886300_12_LBCBAPN	23	12JAN12	23JAN12	0.2217	0.0795	35.9
886900_12_LBCBAPN	59	30JAN12	29FEB12	0.2203	0.0805	36.5
886700_12_LBCBAPN	22	03FEB12	16FEB12	0.1500	0.0598	39.8
887400_12_LBCBAPN	94	20FEB12	05APR12	0.2926	0.1070	36.6
887800_12_LBCBAPN	34	19MAR12	13APR12	0.3088	0.0866	28.0
888200_12_LBCBAPN	47	11APR12	05MAY12	0.4170	0.1028	24.7
888100_12_LBCBAPN	30	27APR12	16JUL12	0.3633	0.1066	29.3
888500_12_LBCBAPN	18	05MAY12	17MAY12	0.3222	0.1003	31.1
888700_12_LBCBAPN	39	11MAY12	06JUN12	0.2282	0.0686	30.1
889000_12_LBCBAPN	79	22MAY12	14JUL12	0.2361	0.0620	26.3
889500_12_LBCBAPN	5	25JUN12	26JUN12	0.1600	0.0548	34.2
880100_12_LBCBAPN	75	14JUL12	06AUG12	0.2440	0.0842	34.5
880500_12_LBCBAPN	20	09AUG12	24AUG12	0.1900	0.0718	37.8
880600_12_LBCBAPN	45	10AUG12	01SEP12	0.2156	0.0824	38.2
880700_12_LBCBAPN	50	29AUG12	26SEP12	0.2220	0.0975	43.9
881500_12_LBCBAPN	65	29AUG12	24NOV12	0.2092	0.0964	46.1
880900_12_LBCBAPN	61	01SEP12	08OCT12	0.2016	0.0806	40.0
881300_12_LBCBAPN	58	26SEP12	02NOV12	0.0983	0.0477	48.6
882000_12_LBCBAPN	48	14NOV12	12DEC12	0.2354	0.1101	46.8
882200_12_LBCBAPN	8	12DEC12	16DEC12	0.2375	0.0916	38.6


2011-2012 Basophils (%) (Normal) Quality Control
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

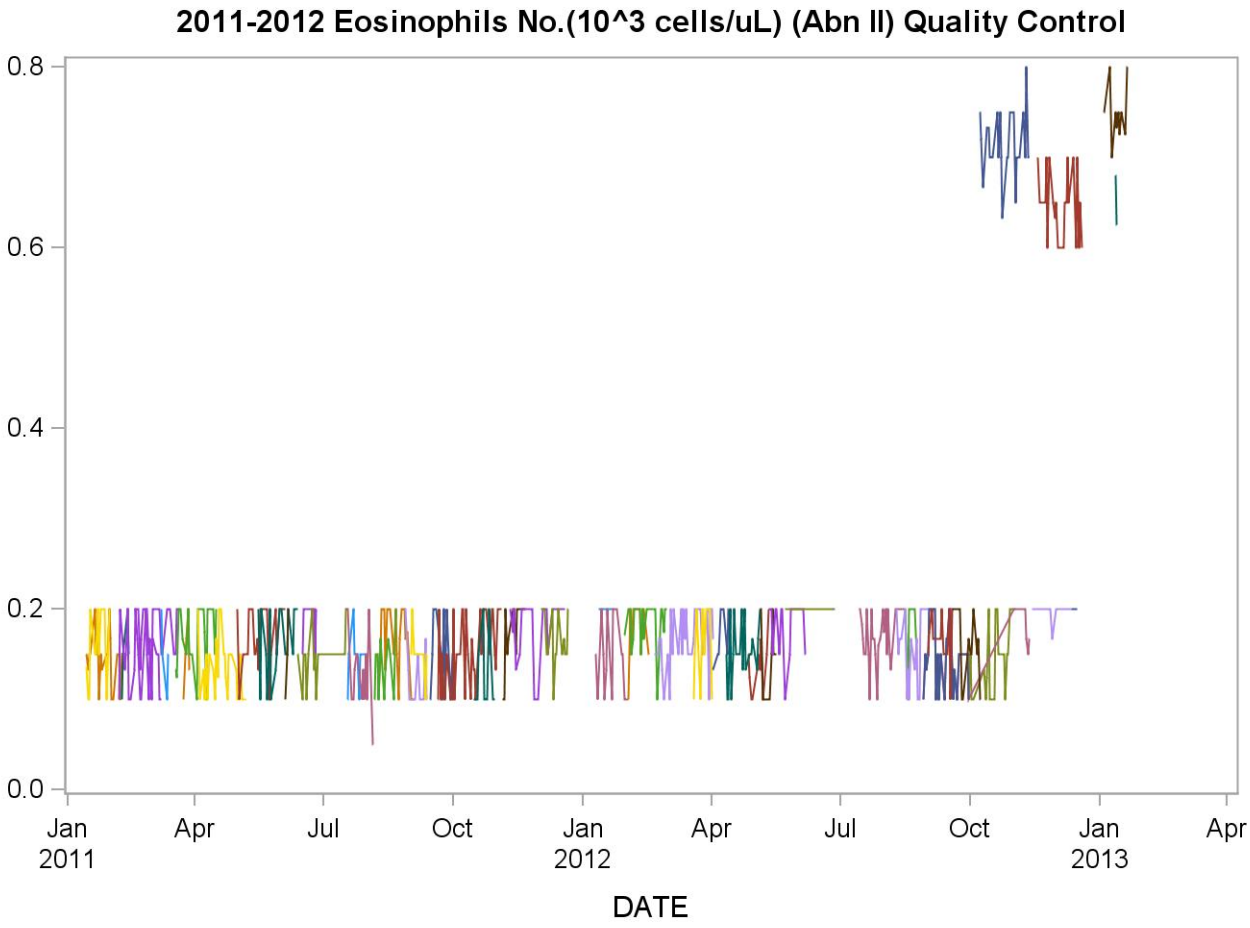
Summary Statistics for Eosinophils No.(10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCEONI	25	14JAN11	30JAN11	1.1400	0.0913	8.0
879800_11_LBCEONI	48	14JAN11	09FEB11	1.2750	0.0978	7.7
870300_11_LBCEONI	47	06FEB11	08MAR11	1.0787	0.0858	8.0
870200_11_LBCEONI	7	08FEB11	13FEB11	1.1429	0.0535	4.7
870500_11_LBCEONI	48	17FEB11	21MAR11	1.1604	0.0676	5.8
870900_11_LBCEONI	9	08MAR11	13MAR11	1.1333	0.0707	6.2
871200_11_LBCEONI	49	18MAR11	16APR11	1.1980	0.0750	6.3
871100_11_LBCEONI	10	24MAR11	28MAR11	1.1700	0.0823	7.0
871400_11_LBCEONI	47	03APR11	07MAY11	1.1702	0.0778	6.6
871500_11_LBCEONI	14	16APR11	24APR11	1.2071	0.0616	5.1
871900_11_LBCEONI	45	01MAY11	04JUN11	1.1644	0.0773	6.6
872000_11_LBCEONI	42	16MAY11	13JUN11	1.1310	0.0950	8.4
872200_11_LBCEONI	5	04JUN11	06JUN11	1.1600	0.1140	9.8
872600_11_LBCEONI	34	13JUN11	18JUL11	1.1206	0.0641	5.7
872400_11_LBCEONI	18	16JUN11	26JUN11	1.1444	0.0511	4.5
873200_11_LBCEONI	43	17JUL11	05AUG11	1.1233	0.0571	5.1
873700_11_LBCEONI	24	06AUG11	21AUG11	1.2042	0.0751	6.2
873600_11_LBCEONI	39	08AUG11	01SEP11	1.2128	0.0978	8.1
873900_11_LBCEONI	28	27AUG11	12SEP11	1.2179	0.0819	6.7
874100_11_LBCEONI	17	01SEP11	12SEP11	1.0706	0.1105	10.3
874400_11_LBCEONI	26	12SEP11	02OCT11	1.1038	0.0871	7.9
874500_11_LBCEONI	79	20SEP11	04NOV11	1.0987	0.0980	8.9
874900_11_LBCEONI	26	15OCT11	30OCT11	1.0231	0.0765	7.5
875000_11_LBCEONI	29	05NOV11	21NOV11	1.0793	0.0774	7.2
875400_11_LBCEONI	65	10NOV11	19DEC11	1.1292	0.0805	7.1
875700_11_LBCEONI	37	02DEC11	21DEC11	1.0676	0.0852	8.0
876500_12_LBCEONI	34	10JAN12	02FEB12	1.1765	0.1075	9.1
876100_12_LBCEONI	21	12JAN12	23JAN12	1.0619	0.0805	7.6
876800_12_LBCEONI	60	30JAN12	29FEB12	1.2067	0.0578	4.8
876600_12_LBCEONI	22	03FEB12	16FEB12	1.0955	0.1090	10.0
877300_12_LBCEONI	90	20FEB12	02APR12	1.1367	0.0678	6.0
877800_12_LBCEONI	29	19MAR12	13APR12	0.8862	0.0693	7.8
878200_12_LBCEONI	44	11APR12	05MAY12	1.0568	0.1784	16.9
878100_12_LBCEONI	25	27APR12	11MAY12	0.7800	0.1080	13.8
878500_12_LBCEONI	19	05MAY12	17MAY12	1.2105	0.0875	7.2
878600_12_LBCEONI	38	11MAY12	06JUN12	1.1421	0.1004	8.8
879000_12_LBCEONI	74	22MAY12	27JUN12	1.1311	0.1033	9.1
879300_12_LBCEONI	4	25JUN12	26JUN12	1.0500	0.1000	9.5
870000_12_LBCEONI	82	14JUL12	11AUG12	1.0463	0.0804	7.7
870500_12_LBCEONI	43	10AUG12	01SEP12	1.0674	0.0892	8.4
870400_12_LBCEONI	15	12AUG12	24AUG12	1.0733	0.0704	6.6
870600_12_LBCEONI	54	29AUG12	30SEP12	1.0648	0.0894	8.4
871400_12_LBCEONI	70	29AUG12	14NOV12	1.0657	0.0931	8.7
870700_12_LBCEONI	32	01SEP12	19SEP12	1.0906	0.1027	9.4
870800_12_LBCEONI	28	18SEP12	08OCT12	0.9250	0.1175	12.7
871200_12_LBCEONI	48	30SEP12	02NOV12	0.9979	0.1000	10.0
1.3293E8_12_LBCEONI	67	08OCT12	12NOV12	1.1791	0.0946	8.0
871800_12_LBCEONI	49	14NOV12	12DEC12	1.1347	0.0663	5.8
1.3296E8_12_LBCEONI	47	18NOV12	19DEC12	1.0936	0.0734	6.7
872000_12_LBCEONI	7	12DEC12	16DEC12	1.2286	0.0756	6.2
1.3297E8_13_LBCEONI	32	04JAN13	20JAN13	1.1875	0.0833	7.0
1.3296E8_13_LBCEONI	13	12JAN13	13JAN13	1.0923	0.0862	7.9


2011-2012 Eosinophils No.(10^3 cells/uL) (Abn l) Quality Control
1.4
1.2
1.0
0.8
0.6
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

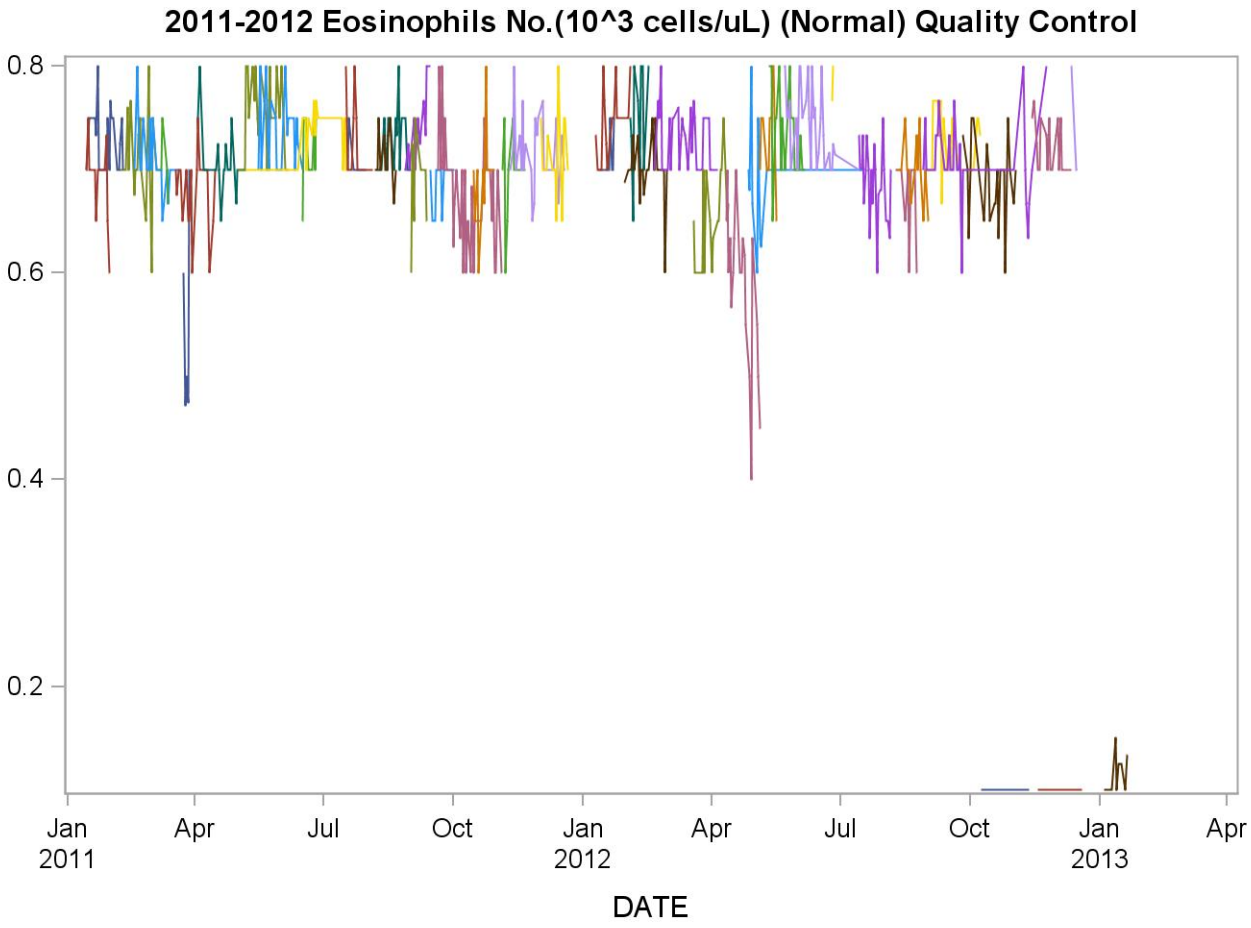
Summary Statistics for Eosinophils No.(10^3 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCEONII	44	14JAN11	08FEB11	0.1455	0.0504	34.6
869600_11_LBCEONII	33	14JAN11	30JAN11	0.1485	0.0508	34.2
869900_11_LBCEONII	49	06FEB11	08MAR11	0.1429	0.0500	35.0
869800_11_LBCEONII	7	08FEB11	13FEB11	0.1571	0.0535	34.0
860100_11_LBCEONII	53	17FEB11	21MAR11	0.1774	0.0423	23.8
860400_11_LBCEONII	7	08MAR11	13MAR11	0.1429	0.0535	37.4
860700_11_LBCEONII	49	18MAR11	16APR11	0.1673	0.0474	28.3
860600_11_LBCEONII	11	24MAR11	28MAR11	0.1545	0.0522	33.8
860900_11_LBCEONII	60	03APR11	07MAY11	0.1383	0.0490	35.4
861300_11_LBCEONII	45	01MAY11	04JUN11	0.1667	0.0477	28.6
861400_11_LBCEONII	42	16MAY11	13JUN11	0.1619	0.0492	30.4
861700_11_LBCEONII	5	04JUN11	06JUN11	0.1600	0.0548	34.2
862100_11_LBCEONII	31	13JUN11	18JUL11	0.1452	0.0506	34.8
861900_11_LBCEONII	18	16JUN11	26JUN11	0.1889	0.0323	17.1
862800_11_LBCEONII	25	17JUL11	05AUG11	0.1280	0.0542	42.3
862700_11_LBCEONII	20	18JUL11	31JUL11	0.1450	0.0510	35.2
863200_11_LBCEONII	28	06AUG11	21AUG11	0.1357	0.0559	41.2
863100_11_LBCEONII	40	08AUG11	03SEP11	0.1650	0.0533	32.3
863400_11_LBCEONII	24	27AUG11	12SEP11	0.1333	0.0482	36.1
863500_11_LBCEONII	17	01SEP11	12SEP11	0.1529	0.0514	33.6
863800_11_LBCEONII	25	15SEP11	02OCT11	0.1520	0.0510	33.5
863900_11_LBCEONII	76	20SEP11	04NOV11	0.1539	0.0502	32.6
864300_11_LBCEONII	23	15OCT11	30OCT11	0.1217	0.0422	34.6
864400_11_LBCEONII	28	05NOV11	21NOV11	0.1750	0.0441	25.2
864800_11_LBCEONII	50	10NOV11	19DEC11	0.1860	0.0351	18.8
865000_11_LBCEONII	36	02DEC11	21DEC11	0.1667	0.0478	28.7
865800_12_LBCEONII	33	10JAN12	02FEB12	0.1485	0.0566	38.1
865500_12_LBCEONII	20	12JAN12	23JAN12	0.2000	0.0000	0.0
866100_12_LBCEONII	57	30JAN12	29FEB12	0.1842	0.0368	20.0
865900_12_LBCEONII	23	02FEB12	16FEB12	0.1826	0.0388	21.2
866500_12_LBCEONII	91	20FEB12	02APR12	0.1670	0.0473	28.3
866900_12_LBCEONII	15	19MAR12	01APR12	0.1667	0.0488	29.3
867000_12_LBCEONII	15	02APR12	13APR12	0.1667	0.0488	29.3
867300_12_LBCEONII	43	11APR12	05MAY12	0.1535	0.0505	32.9
867100_12_LBCEONII	26	27APR12	11MAY12	0.1346	0.0485	36.0
867500_12_LBCEONII	20	05MAY12	17MAY12	0.1400	0.0503	35.9
867800_12_LBCEONII	38	11MAY12	06JUN12	0.1842	0.0370	20.1
868100_12_LBCEONII	67	23MAY12	27JUN12	0.2000	0.0000	0.0
868300_12_LBCEONII	4	25JUN12	26JUN12	0.2000	0.0000	0.0
869000_12_LBCEONII	84	14JUL12	16AUG12	0.1714	0.0454	26.5
869500_12_LBCEONII	39	10AUG12	01SEP12	0.1564	0.0502	32.1
869400_12_LBCEONII	11	16AUG12	24AUG12	0.1636	0.0505	30.8
860400_12_LBCEONII	60	29AUG12	12NOV12	0.1517	0.0504	33.2
869600_12_LBCEONII	49	29AUG12	30SEP12	0.1469	0.0504	34.3
869700_12_LBCEONII	31	01SEP12	19SEP12	0.1710	0.0461	27.0
869800_12_LBCEONII	27	18SEP12	08OCT12	0.1519	0.0509	33.5
860200_12_LBCEONII	46	30SEP12	02NOV12	0.1457	0.0504	34.6
1.4293E8_12_LBCEONII	63	08OCT12	12NOV12	0.7111	0.0542	7.6
860800_12_LBCEONII	52	14NOV12	12DEC12	0.1981	0.0139	7.0
1.4296E8_12_LBCEONII	45	18NOV12	19DEC12	0.6444	0.0503	7.8
861000_12_LBCEONII	7	12DEC12	16DEC12	0.2000	0.0000	0.0
1.4297E8_13_LBCEONII	32	04JAN13	20JAN13	0.7500	0.0568	7.6
1.4296E8_13_LBCEONII	9	12JAN13	13JAN13	0.6556	0.0527	8.0


2011-2012 Eosinophils No.(10^3 cells/uL) (Abn ll) Quality Control
0.8
0.6
0.4
0.2
0.0
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

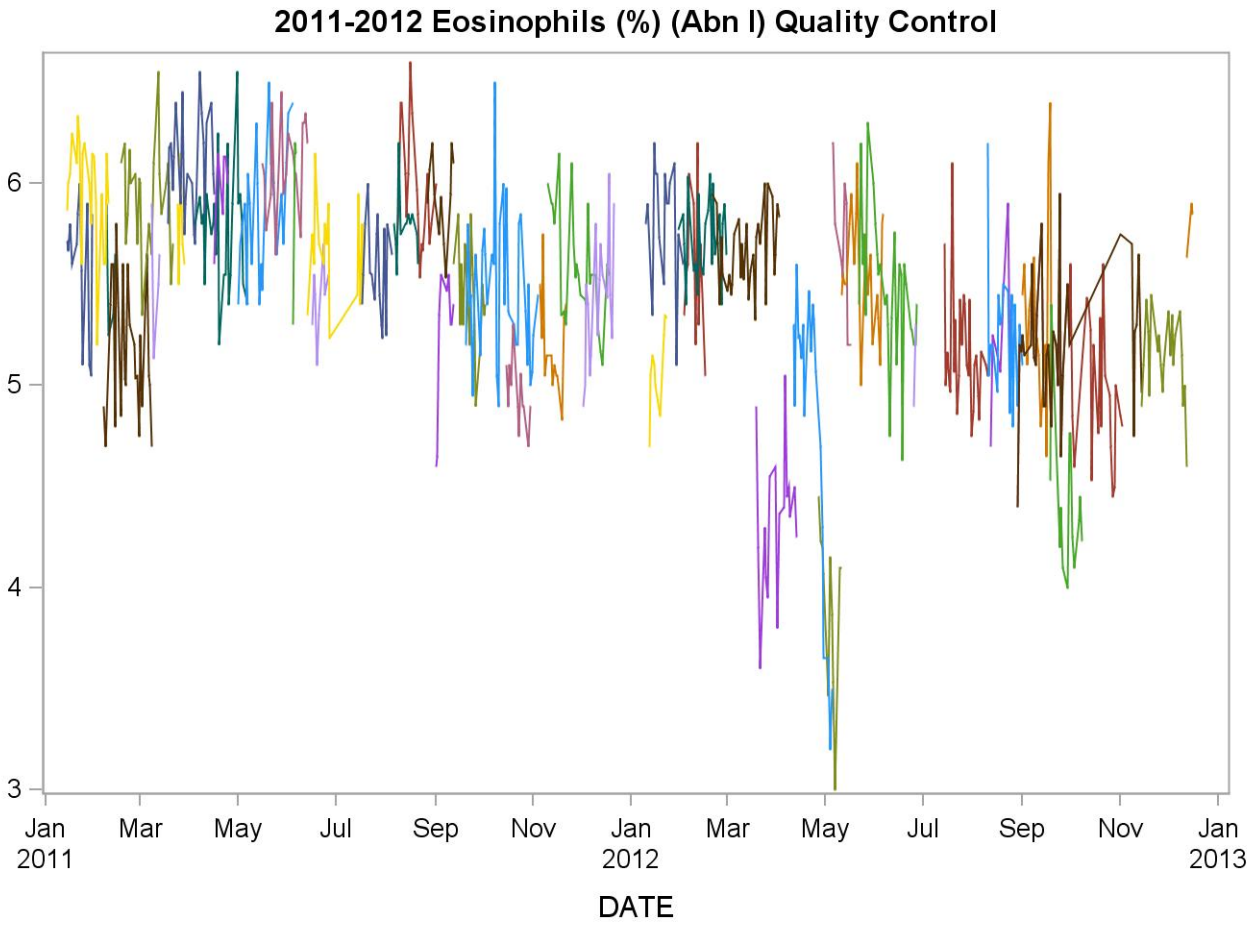
Summary Statistics for Eosinophils No.(10^3 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCEONN	49	14JAN11	09FEB11	0.7286	0.0456	6.3
889900_11_LBCEONN	24	14JAN11	30JAN11	0.6917	0.0504	7.3
880200_11_LBCEONN	59	06FEB11	08MAR11	0.7119	0.0494	6.9
880500_11_LBCEONN	49	17FEB11	21MAR11	0.7061	0.0475	6.7
880700_11_LBCEONN	9	08MAR11	13MAR11	0.7000	0.0500	7.1
881100_11_LBCEONN	48	18MAR11	16APR11	0.6854	0.0505	7.4
881000_11_LBCEONN	19	24MAR11	28MAR11	0.5105	0.1049	20.5
881300_11_LBCEONN	64	03APR11	07MAY11	0.7047	0.0375	5.3
881700_11_LBCEONN	47	01MAY11	04JUN11	0.7553	0.0503	6.7
882600_11_LBCEONN	35	07MAY11	18JUL11	0.7371	0.0490	6.7
881800_11_LBCEONN	44	16MAY11	16JUN11	0.7386	0.0618	8.4
882100_11_LBCEONN	5	04JUN11	06JUN11	0.7000	0.0000	0.0
882200_11_LBCEONN	19	16JUN11	26JUN11	0.7211	0.0535	7.4
883300_11_LBCEONN	27	17JUL11	05AUG11	0.7185	0.0396	5.5
883200_11_LBCEONN	19	18JUL11	31JUL11	0.7053	0.0405	5.7
884000_11_LBCEONN	27	06AUG11	21AUG11	0.7111	0.0424	6.0
883700_11_LBCEONN	40	08AUG11	01SEP11	0.7275	0.0452	6.2
884100_11_LBCEONN	29	27AUG11	15SEP11	0.7379	0.0494	6.7
884300_11_LBCEONN	18	01SEP11	12SEP11	0.6944	0.0725	10.4
884600_11_LBCEONN	25	15SEP11	02OCT11	0.6840	0.0554	8.1
884700_11_LBCEONN	79	20SEP11	04NOV11	0.6709	0.0602	9.0
885100_11_LBCEONN	24	15OCT11	30OCT11	0.6833	0.0482	7.0
885200_11_LBCEONN	26	05NOV11	21NOV11	0.6962	0.0445	6.4
885600_11_LBCEONN	66	10NOV11	19DEC11	0.7152	0.0504	7.0
885900_11_LBCEONN	40	02DEC11	21DEC11	0.7150	0.0622	8.7
886600_12_LBCEONN	36	10JAN12	03FEB12	0.7472	0.0506	6.8
886300_12_LBCEONN	23	12JAN12	23JAN12	0.7087	0.0417	5.9
886900_12_LBCEONN	60	30JAN12	29FEB12	0.7017	0.0390	5.6
886700_12_LBCEONN	22	03FEB12	16FEB12	0.7545	0.0596	7.9
887400_12_LBCEONN	93	20FEB12	05APR12	0.7312	0.0510	7.0
887800_12_LBCEONN	34	19MAR12	13APR12	0.6500	0.0615	9.5
888200_12_LBCEONN	47	11APR12	05MAY12	0.5894	0.0866	14.7
888100_12_LBCEONN	30	27APR12	16JUL12	0.6700	0.0651	9.7
888500_12_LBCEONN	18	05MAY12	17MAY12	0.7333	0.0594	8.1
888700_12_LBCEONN	39	11MAY12	06JUN12	0.7436	0.0598	8.0
889000_12_LBCEONN	79	22MAY12	14JUL12	0.7411	0.0542	7.3
889500_12_LBCEONN	5	25JUN12	26JUN12	0.7800	0.0447	5.7
880100_12_LBCEONN	76	14JUL12	06AUG12	0.6882	0.0541	7.9
880500_12_LBCEONN	20	09AUG12	24AUG12	0.6800	0.0410	6.0
880600_12_LBCEONN	44	10AUG12	01SEP12	0.7023	0.0403	5.7
880700_12_LBCEONN	50	29AUG12	26SEP12	0.7160	0.0510	7.1
881500_12_LBCEONN	66	29AUG12	24NOV12	0.7091	0.0547	7.7
880900_12_LBCEONN	62	01SEP12	08OCT12	0.7226	0.0459	6.3
881300_12_LBCEONN	58	26SEP12	02NOV12	0.6897	0.0552	8.0
1.2293E8_12_LBCEONN	56	09OCT12	12NOV12	0.1000	0.0000	0.0
882000_12_LBCEONN	48	14NOV12	12DEC12	0.7208	0.0410	5.7
1.2296E8_12_LBCEONN	51	18NOV12	19DEC12	0.1000	0.0000	0.0
882200_12_LBCEONN	8	12DEC12	16DEC12	0.7375	0.0744	10.1
1.2297E8_13_LBCEONN	32	04JAN13	20JAN13	0.1188	0.0397	33.4
1.2296E8_13_LBCEONN	11	12JAN13	13JAN13	0.1000	0.0000	0.0


2011-2012 Eosinophils No.(10^3 cells/uL) (Normal) Quality Control
0.8
0.6
0.4
0.2
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

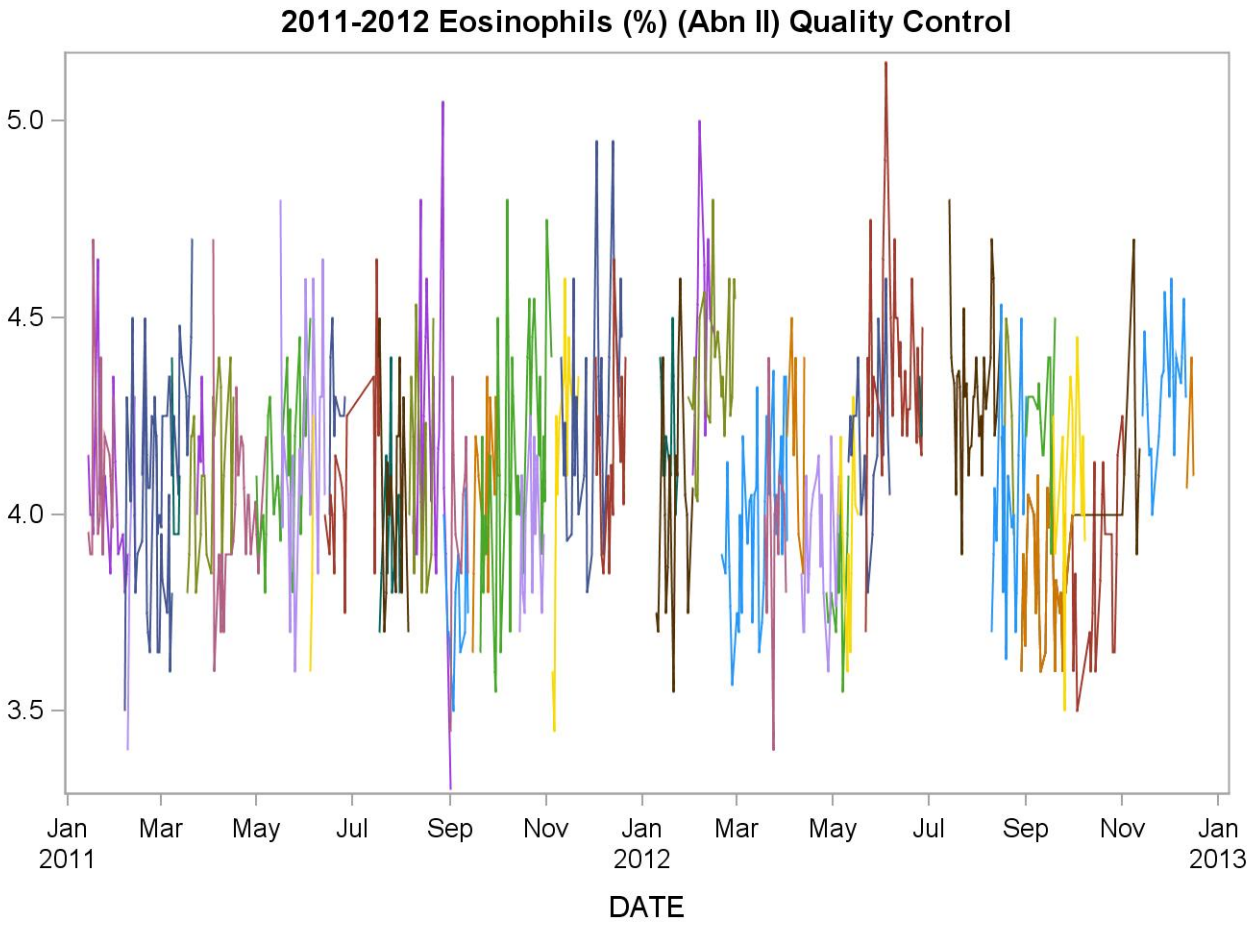
Summary Statistics for Eosinophils (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCEOPI	25	14JAN11	30JAN11	5.6100	0.4596	8.2
879800_11_LBCEOPI	48	14JAN11	09FEB11	5.9792	0.4410	7.4
870300_11_LBCEOPI	47	06FEB11	08MAR11	5.1809	0.4126	8.0
870200_11_LBCEOPI	7	08FEB11	13FEB11	5.4857	0.2545	4.6
870500_11_LBCEOPI	49	17FEB11	21MAR11	5.9102	0.3647	6.2
870900_11_LBCEOPI	9	08MAR11	13MAR11	5.4556	0.3321	6.1
871200_11_LBCEOPI	49	18MAR11	16APR11	6.0735	0.3684	6.1
871100_11_LBCEOPI	10	24MAR11	28MAR11	5.7500	0.3472	6.0
871400_11_LBCEOPI	47	03APR11	07MAY11	5.8000	0.3452	6.0
871500_11_LBCEOPI	14	16APR11	24APR11	6.0214	0.2259	3.8
871900_11_LBCEOPI	45	01MAY11	04JUN11	5.8622	0.3670	6.3
872000_11_LBCEOPI	42	16MAY11	13JUN11	6.0667	0.3980	6.6
872200_11_LBCEOPI	5	04JUN11	06JUN11	6.0000	0.4359	7.3
872600_11_LBCEOPI	34	13JUN11	18JUL11	5.6765	0.3085	5.4
872400_11_LBCEOPI	18	16JUN11	26JUN11	5.4389	0.2789	5.1
873200_11_LBCEOPI	43	17JUL11	05AUG11	5.5558	0.2763	5.0
873700_11_LBCEOPI	25	06AUG11	21AUG11	5.7960	0.3169	5.5
873600_11_LBCEOPI	39	08AUG11	01SEP11	5.9333	0.4355	7.3
873900_11_LBCEOPI	28	27AUG11	12SEP11	5.9643	0.3413	5.7
874100_11_LBCEOPI	17	01SEP11	12SEP11	5.2882	0.5776	10.9
874400_11_LBCEOPI	26	12SEP11	02OCT11	5.4615	0.4196	7.7
874500_11_LBCEOPI	80	20SEP11	04NOV11	5.4675	0.4500	8.2
874900_11_LBCEOPI	26	15OCT11	30OCT11	4.9808	0.3567	7.2
875000_11_LBCEOPI	29	05NOV11	21NOV11	5.1931	0.3283	6.3
875400_11_LBCEOPI	66	10NOV11	19DEC11	5.5818	0.4132	7.4
875700_11_LBCEOPI	37	02DEC11	21DEC11	5.4270	0.4039	7.4
876500_12_LBCEOPI	34	10JAN12	02FEB12	5.8265	0.4938	8.5
876100_12_LBCEOPI	21	12JAN12	23JAN12	5.0952	0.3217	6.3
876800_12_LBCEOPI	60	30JAN12	29FEB12	5.7367	0.2584	4.5
876600_12_LBCEOPI	22	03FEB12	16FEB12	5.6364	0.5447	9.7
877300_12_LBCEOPI	91	20FEB12	02APR12	5.6670	0.3400	6.0
877800_12_LBCEOPI	29	19MAR12	13APR12	4.3552	0.3511	8.1
878200_12_LBCEOPI	44	11APR12	05MAY12	4.8955	0.7701	15.7
878100_12_LBCEOPI	25	27APR12	11MAY12	3.8880	0.4876	12.5
878500_12_LBCEOPI	19	05MAY12	17MAY12	5.6947	0.4183	7.3
878600_12_LBCEOPI	38	11MAY12	06JUN12	5.5579	0.3782	6.8
879000_12_LBCEOPI	74	22MAY12	27JUN12	5.4568	0.4602	8.4
879300_12_LBCEOPI	4	25JUN12	26JUN12	5.1000	0.4320	8.5
870000_12_LBCEOPI	83	14JUL12	11AUG12	5.1476	0.3964	7.7
870500_12_LBCEOPI	43	10AUG12	01SEP12	5.2465	0.3857	7.4
870400_12_LBCEOPI	15	12AUG12	24AUG12	5.2600	0.3542	6.7
870600_12_LBCEOPI	54	29AUG12	30SEP12	5.1815	0.4080	7.9
871400_12_LBCEOPI	70	29AUG12	14NOV12	5.2057	0.4166	8.0
870700_12_LBCEOPI	32	01SEP12	19SEP12	5.3219	0.4743	8.9
870800_12_LBCEOPI	29	18SEP12	08OCT12	4.4069	0.5042	11.4
871200_12_LBCEOPI	48	30SEP12	02NOV12	5.0104	0.4856	9.7
871800_12_LBCEOPI	48	14NOV12	12DEC12	5.1771	0.3005	5.8
872000_12_LBCEOPI	7	12DEC12	16DEC12	5.7714	0.3039	5.3


2011-2012 Eosinophils (%) (Abn I) Quality Control
6
5
4
3
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

Summary Statistics for Eosinophils (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCEOPII	44	14JAN11	08FEB11	4.0500	0.3915	9.7
869600_11_LBCEOPII	33	14JAN11	30JAN11	4.0485	0.2917	7.2
869900_11_LBCEOPII	49	06FEB11	08MAR11	3.9510	0.3770	9.5
869800_11_LBCEOPII	7	08FEB11	13FEB11	3.9429	0.3599	9.1
860100_11_LBCEOPII	53	17FEB11	21MAR11	4.2302	0.2972	7.0
860400_11_LBCEOPII	7	08MAR11	13MAR11	4.0571	0.2878	7.1
860700_11_LBCEOPII	48	18MAR11	16APR11	4.0792	0.2665	6.5
860600_11_LBCEOPII	11	24MAR11	28MAR11	4.1636	0.2420	5.8
860900_11_LBCEOPII	59	03APR11	07MAY11	4.0034	0.2639	6.6
861300_11_LBCEOPII	45	01MAY11	04JUN11	4.1156	0.2828	6.9
861400_11_LBCEOPII	42	16MAY11	13JUN11	4.1452	0.3444	8.3
861700_11_LBCEOPII	5	04JUN11	06JUN11	3.9600	0.3507	8.9
862100_11_LBCEOPII	31	13JUN11	18JUL11	4.0871	0.3897	9.5
861900_11_LBCEOPII	18	16JUN11	26JUN11	4.2722	0.2653	6.2
862800_11_LBCEOPII	24	17JUL11	05AUG11	4.0667	0.3397	8.4
862700_11_LBCEOPII	20	18JUL11	31JUL11	3.9450	0.2585	6.6
863200_11_LBCEOPII	27	06AUG11	21AUG11	4.1185	0.4600	11.2
863100_11_LBCEOPII	40	08AUG11	01SEP11	4.1400	0.4829	11.7
863400_11_LBCEOPII	24	27AUG11	12SEP11	3.8042	0.2255	5.9
863500_11_LBCEOPII	17	01SEP11	12SEP11	3.9824	0.5353	13.4
863800_11_LBCEOPII	25	15SEP11	02OCT11	4.0560	0.2755	6.8
863900_11_LBCEOPII	74	20SEP11	04NOV11	4.1459	0.3987	9.6
864300_11_LBCEOPII	23	15OCT11	30OCT11	3.9435	0.2191	5.6
864400_11_LBCEOPII	28	05NOV11	21NOV11	4.1750	0.3460	8.3
864800_11_LBCEOPII	49	10NOV11	19DEC11	4.2918	0.3445	8.0
865000_11_LBCEOPII	36	02DEC11	21DEC11	4.1528	0.3075	7.4
865800_12_LBCEOPII	32	10JAN12	02FEB12	4.0125	0.3782	9.4
865500_12_LBCEOPII	20	12JAN12	23JAN12	4.2200	0.2821	6.7
866100_12_LBCEOPII	58	30JAN12	29FEB12	4.3483	0.3068	7.1
865900_12_LBCEOPII	22	02FEB12	16FEB12	4.5273	0.3641	8.0
866500_12_LBCEOPII	91	20FEB12	02APR12	3.9758	0.2853	7.2
866900_12_LBCEOPII	15	19MAR12	01APR12	3.9467	0.2446	6.2
867000_12_LBCEOPII	15	02APR12	13APR12	4.1933	0.4284	10.2
867300_12_LBCEOPII	43	11APR12	05MAY12	3.9302	0.2808	7.1
867100_12_LBCEOPII	26	27APR12	11MAY12	3.8231	0.2487	6.5
867500_12_LBCEOPII	20	05MAY12	17MAY12	3.9400	0.2780	7.1
867800_12_LBCEOPII	38	11MAY12	06JUN12	4.1842	0.2707	6.5
868100_12_LBCEOPII	72	22MAY12	27JUN12	4.3875	0.3327	7.6
868300_12_LBCEOPII	4	25JUN12	26JUN12	4.2750	0.3862	9.0
869000_12_LBCEOPII	83	14JUL12	16AUG12	4.3277	0.3013	7.0
869500_12_LBCEOPII	40	10AUG12	01SEP12	4.0400	0.3161	7.8
869400_12_LBCEOPII	11	16AUG12	24AUG12	4.2091	0.2625	6.2
860400_12_LBCEOPII	59	29AUG12	12NOV12	3.9186	0.2874	7.3
869600_12_LBCEOPII	48	29AUG12	30SEP12	3.8708	0.2379	6.1
869700_12_LBCEOPII	31	01SEP12	19SEP12	4.2806	0.3449	8.1
869800_12_LBCEOPII	26	18SEP12	08OCT12	4.1308	0.3056	7.4
860200_12_LBCEOPII	45	30SEP12	02NOV12	3.8711	0.3072	7.9
860800_12_LBCEOPII	51	14NOV12	12DEC12	4.3137	0.2245	5.2
861000_12_LBCEOPII	7	12DEC12	16DEC12	4.1714	0.1704	4.1


2011-2012 Eosinophils (%) (Abn II) Quality Control
5.0
4.5
4.0
3.5
Jan
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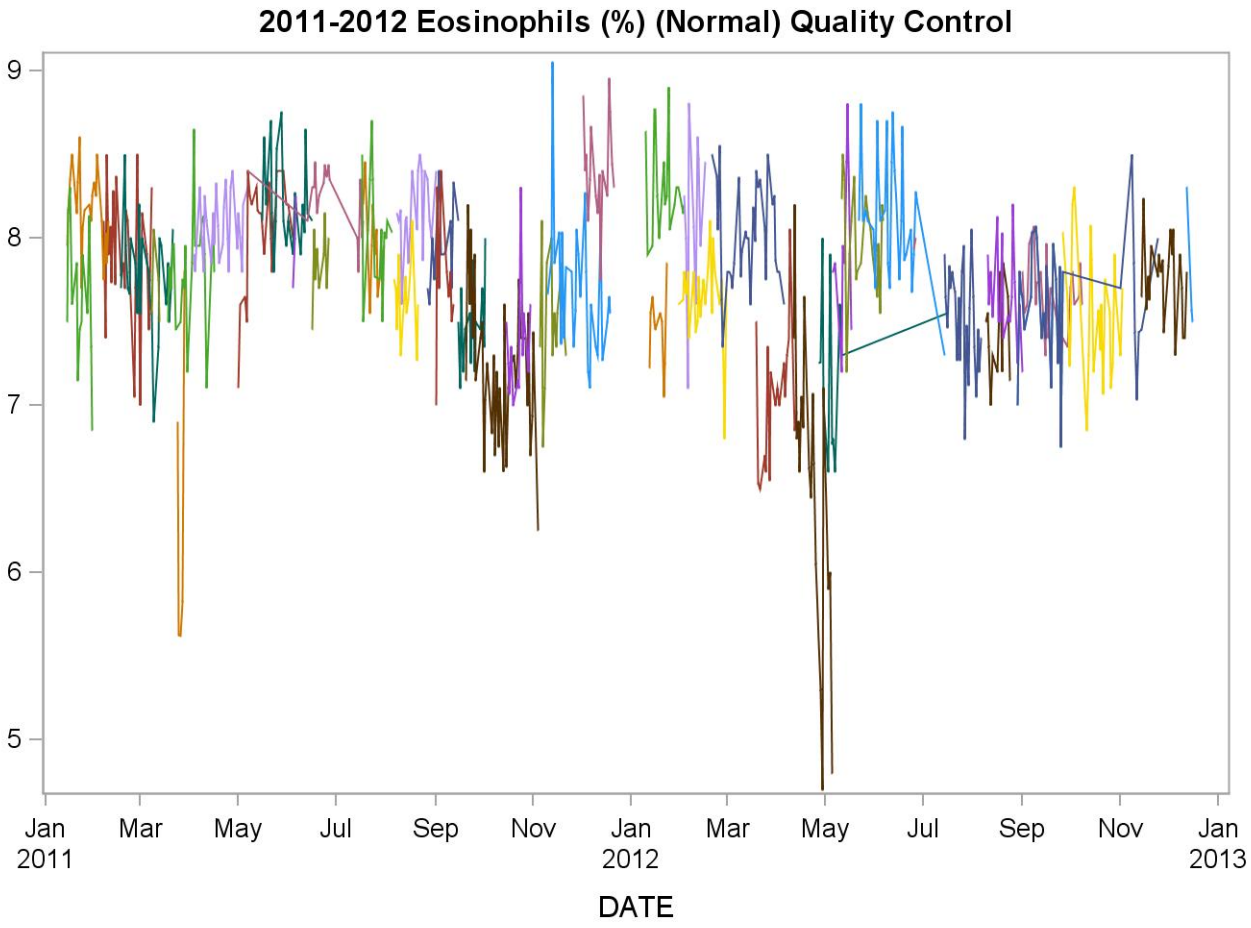
2013
DATE

Summary Statistics for Eosinophils (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCEOPN	49	14JAN11	09FEB11	8.1551	0.4659	5.7
889900_11_LBCEOPN	24	14JAN11	30JAN11	7.6208	0.4952	6.5
880200_11_LBCEOPN	59	06FEB11	08MAR11	7.9000	0.4568	5.8
880500_11_LBCEOPN	49	17FEB11	21MAR11	7.7551	0.4454	5.7
880700_11_LBCEOPN	9	08MAR11	13MAR11	7.6889	0.4540	5.9
881100_11_LBCEOPN	48	18MAR11	16APR11	7.8396	0.4880	6.2
881000_11_LBCEOPN	19	24MAR11	28MAR11	5.9632	1.0183	17.1
881300_11_LBCEOPN	64	03APR11	07MAY11	8.0859	0.3813	4.7
881700_11_LBCEOPN	47	01MAY11	04JUN11	8.0830	0.4146	5.1
882600_11_LBCEOPN	35	07MAY11	18JUL11	8.2657	0.4007	4.8
881800_11_LBCEOPN	43	16MAY11	16JUN11	8.2302	0.4798	5.8
882100_11_LBCEOPN	5	04JUN11	06JUN11	8.0400	0.2408	3.0
882200_11_LBCEOPN	19	16JUN11	26JUN11	7.8526	0.3596	4.6
883300_11_LBCEOPN	27	17JUL11	05AUG11	8.0593	0.4379	5.4
883200_11_LBCEOPN	19	18JUL11	31JUL11	7.9684	0.3465	4.3
884000_11_LBCEOPN	27	06AUG11	21AUG11	7.6481	0.3545	4.6
883700_11_LBCEOPN	40	08AUG11	01SEP11	8.1675	0.3619	4.4
884100_11_LBCEOPN	29	27AUG11	15SEP11	7.9655	0.3608	4.5
884300_11_LBCEOPN	18	01SEP11	12SEP11	7.8667	0.7154	9.1
884600_11_LBCEOPN	25	15SEP11	02OCT11	7.4920	0.4991	6.7
884700_11_LBCEOPN	79	20SEP11	04NOV11	7.1937	0.5369	7.5
885100_11_LBCEOPN	24	15OCT11	30OCT11	7.2958	0.4227	5.8
885200_11_LBCEOPN	26	05NOV11	21NOV11	7.5000	0.4534	6.0
885600_11_LBCEOPN	67	10NOV11	19DEC11	7.7313	0.5312	6.9
885900_11_LBCEOPN	39	02DEC11	21DEC11	8.4154	0.4545	5.4
886600_12_LBCEOPN	36	10JAN12	03FEB12	8.3389	0.4448	5.3
886300_12_LBCEOPN	23	12JAN12	23JAN12	7.4261	0.3347	4.5
886900_12_LBCEOPN	60	30JAN12	29FEB12	7.6617	0.3845	5.0
886700_12_LBCEOPN	22	03FEB12	16FEB12	8.1591	0.6076	7.4
887400_12_LBCEOPN	94	20FEB12	05APR12	8.0149	0.4202	5.2
887800_12_LBCEOPN	34	19MAR12	13APR12	7.0412	0.5298	7.5
888200_12_LBCEOPN	47	11APR12	05MAY12	6.5447	0.9447	14.4
888100_12_LBCEOPN	30	27APR12	16JUL12	7.1233	0.5649	7.9
888500_12_LBCEOPN	18	05MAY12	17MAY12	7.8056	0.5396	6.9
888700_12_LBCEOPN	38	11MAY12	06JUN12	8.0026	0.4123	5.2
889000_12_LBCEOPN	79	22MAY12	14JUL12	8.1437	0.4832	5.9
889500_12_LBCEOPN	5	25JUN12	26JUN12	7.9600	0.3362	4.2
880100_12_LBCEOPN	76	14JUL12	06AUG12	7.5329	0.4793	6.4
880500_12_LBCEOPN	20	09AUG12	24AUG12	7.4700	0.3541	4.7
880600_12_LBCEOPN	45	10AUG12	01SEP12	7.6733	0.4064	5.3
880700_12_LBCEOPN	50	29AUG12	26SEP12	7.6900	0.4718	6.1
881500_12_LBCEOPN	66	29AUG12	24NOV12	7.6515	0.4884	6.4
880900_12_LBCEOPN	62	01SEP12	08OCT12	7.6774	0.3336	4.3
881300_12_LBCEOPN	58	26SEP12	02NOV12	7.5707	0.4809	6.4
882000_12_LBCEOPN	48	14NOV12	12DEC12	7.7813	0.3529	4.5
882200_12_LBCEOPN	8	12DEC12	16DEC12	7.8250	0.6319	8.1


2011-2012 Eosinophils (%) (Normal) Quality Control
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Jan
2011
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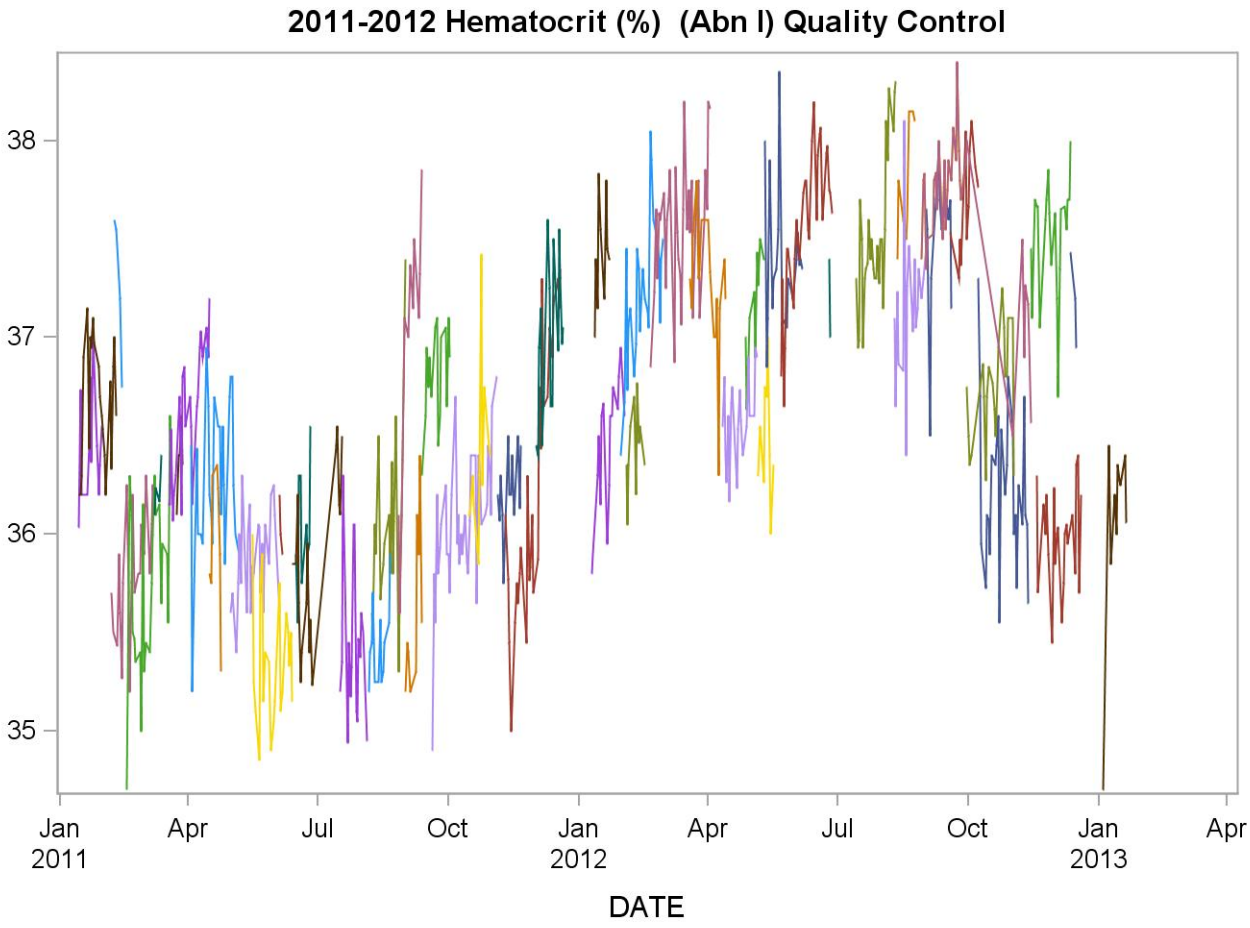
DATE

Summary Statistics for Hematocrit (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCHCTI	25	14JAN11	30JAN11	36.4000	0.3873	1.1
879800_11_LBCHCTI	48	14JAN11	09FEB11	36.6729	0.4276	1.2
870300_11_LBCHCTI	47	06FEB11	08MAR11	35.7936	0.3881	1.1
870200_11_LBCHCTI	7	08FEB11	13FEB11	37.2286	0.5589	1.5
870500_11_LBCHCTI	49	17FEB11	21MAR11	35.7918	0.5326	1.5
870900_11_LBCHCTI	9	08MAR11	13MAR11	36.2333	0.2062	0.6
871200_11_LBCHCTI	49	18MAR11	16APR11	36.5633	0.4915	1.3
871100_11_LBCHCTI	10	24MAR11	28MAR11	36.4200	0.3584	1.0
871400_11_LBCHCTI	47	03APR11	07MAY11	36.3085	0.4154	1.1
871500_11_LBCHCTI	14	16APR11	24APR11	36.0214	0.3926	1.1
871900_11_LBCHCTI	45	01MAY11	04JUN11	35.8978	0.2832	0.8
872000_11_LBCHCTI	41	16MAY11	13JUN11	35.3293	0.3958	1.1
872200_11_LBCHCTI	5	04JUN11	06JUN11	36.0000	0.3742	1.0
872600_11_LBCHCTI	34	13JUN11	18JUL11	35.8118	0.4854	1.4
872400_11_LBCHCTI	18	16JUN11	26JUN11	36.0278	0.4309	1.2
873200_11_LBCHCTI	43	17JUL11	05AUG11	35.3837	0.4561	1.3
873700_11_LBCHCTI	26	06AUG11	21AUG11	35.4308	0.2710	0.8
873600_11_LBCHCTI	39	08AUG11	01SEP11	35.9718	0.5000	1.4
873900_11_LBCHCTI	28	27AUG11	12SEP11	36.9536	0.7550	2.0
874100_11_LBCHCTI	17	01SEP11	12SEP11	35.5706	0.4370	1.2
874400_11_LBCHCTI	26	12SEP11	02OCT11	36.8231	0.3050	0.8
874500_11_LBCHCTI	79	20SEP11	04NOV11	36.0443	0.4489	1.2
874900_11_LBCHCTI	27	15OCT11	30OCT11	36.4778	0.5373	1.5
875000_11_LBCHCTI	29	05NOV11	21NOV11	36.2241	0.3471	1.0
875400_11_LBCHCTI	66	10NOV11	19DEC11	36.1879	0.7229	2.0
875700_11_LBCHCTI	37	02DEC11	21DEC11	36.9568	0.5069	1.4
876500_12_LBCHCTI	34	10JAN12	02FEB12	36.4735	0.4413	1.2
876100_12_LBCHCTI	22	12JAN12	23JAN12	37.4364	0.3259	0.9
876800_12_LBCHCTI	60	30JAN12	29FEB12	37.1050	0.5457	1.5
876600_12_LBCHCTI	22	03FEB12	16FEB12	36.4727	0.3706	1.0
877300_12_LBCHCTI	92	20FEB12	02APR12	37.5543	0.5113	1.4
877800_12_LBCHCTI	29	19MAR12	13APR12	37.2690	0.3434	0.9
878200_12_LBCHCTI	44	11APR12	05MAY12	36.5545	0.3520	1.0
878100_12_LBCHCTI	25	27APR12	11MAY12	37.1560	0.4331	1.2
878500_12_LBCHCTI	19	05MAY12	17MAY12	36.5053	0.3582	1.0
878600_12_LBCHCTI	38	11MAY12	06JUN12	37.4026	0.3949	1.1
879000_12_LBCHCTI	74	22MAY12	27JUN12	37.6676	0.3945	1.0
879300_12_LBCHCTI	4	25JUN12	26JUN12	37.2000	0.7348	2.0
870000_12_LBCHCTI	82	14JUL12	11AUG12	37.4945	0.4711	1.3
870500_12_LBCHCTI	43	10AUG12	01SEP12	37.1814	0.5620	1.5
870400_12_LBCHCTI	15	12AUG12	24AUG12	37.8067	0.3515	0.9
870600_12_LBCHCTI	54	29AUG12	30SEP12	37.7889	0.3927	1.0
871400_12_LBCHCTI	71	29AUG12	14NOV12	37.5986	0.5333	1.4
870700_12_LBCHCTI	32	01SEP12	19SEP12	37.5719	0.4074	1.1
870800_12_LBCHCTI	29	18SEP12	08OCT12	37.6966	0.3561	0.9
871200_12_LBCHCTI	48	30SEP12	02NOV12	36.7125	0.3618	1.0
1.3293E8_12_LBCHCTI	68	08OCT12	12NOV12	36.1632	0.6212	1.7
871800_12_LBCHCTI	49	14NOV12	12DEC12	37.5143	0.3900	1.0
1.3296E8_12_LBCHCTI	47	18NOV12	19DEC12	35.9957	0.3483	1.0
872000_12_LBCHCTI	7	12DEC12	16DEC12	37.2286	0.5823	1.6
1.3297E8_13_LBCHCTI	31	04JAN13	20JAN13	36.1226	0.5149	1.4
1.3296E8_13_LBCHCTI	13	12JAN13	13JAN13	36.1231	0.5718	1.6


2011-2012 Hematocrit (%) (Abn I) Quality Control
38
37
36
35
Jan
2011
Apr
Jul
Oct
Jan
2012
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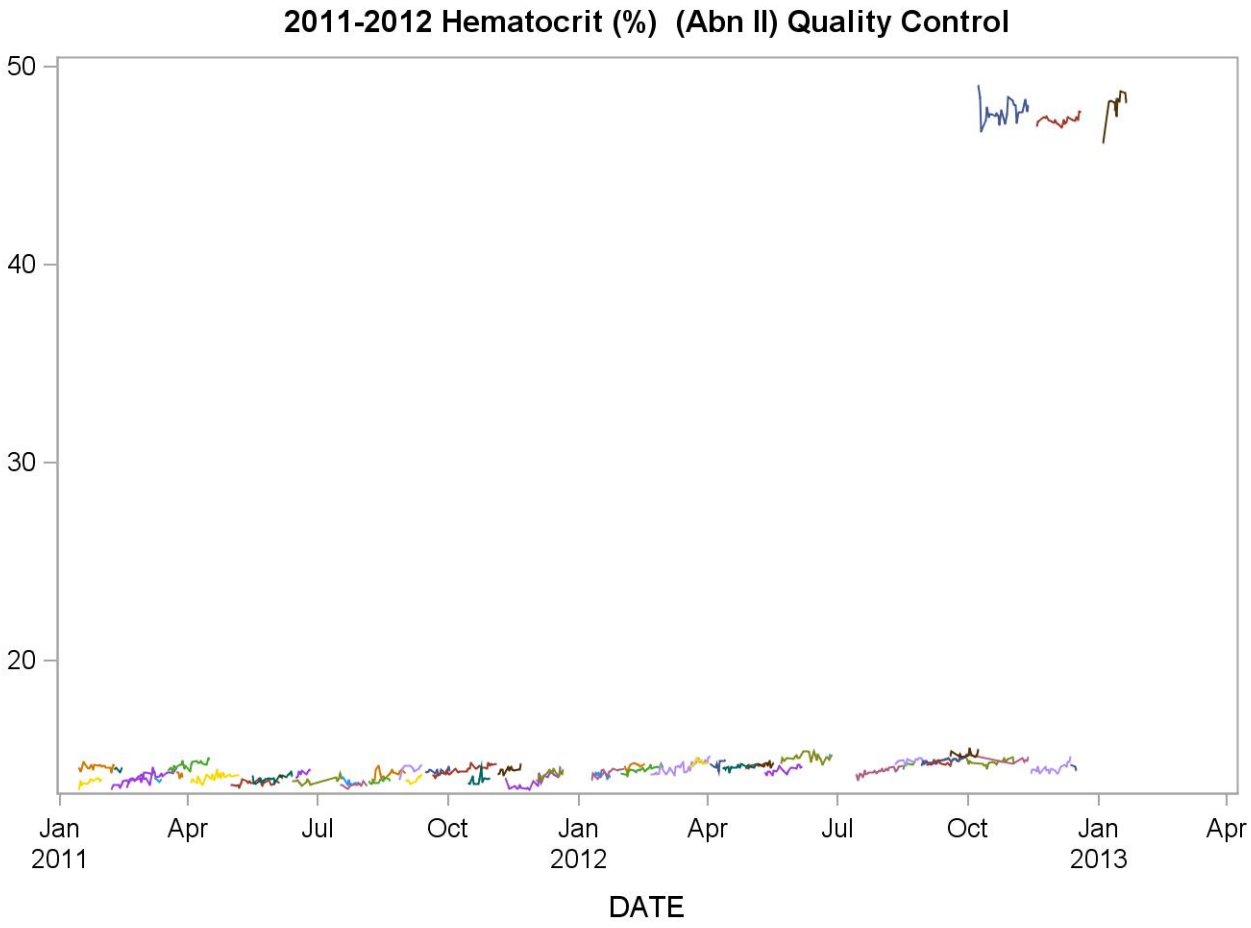
Oct
Jan
2013
Apr
DATE

Summary Statistics for Hematocrit (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCHCTII	45	14JAN11	08FEB11	14.6311	0.1893	1.3
869600_11_LBCHCTII	33	14JAN11	30JAN11	13.7758	0.2586	1.9
869900_11_LBCHCTII	49	06FEB11	08MAR11	14.0265	0.2878	2.1
869800_11_LBCHCTII	7	08FEB11	13FEB11	14.5143	0.1464	1.0
860100_11_LBCHCTII	54	17FEB11	24MAR11	14.1444	0.2485	1.8
860400_11_LBCHCTII	7	08MAR11	13MAR11	13.9714	0.1254	0.9
860700_11_LBCHCTII	50	18MAR11	16APR11	14.7060	0.2307	1.6
860600_11_LBCHCTII	11	24MAR11	28MAR11	14.2000	0.1949	1.4
860900_11_LBCHCTII	60	03APR11	07MAY11	14.1200	0.2496	1.8
861300_11_LBCHCTII	46	01MAY11	04JUN11	13.8239	0.1594	1.2
861400_11_LBCHCTII	43	16MAY11	13JUN11	14.0605	0.2037	1.4
861700_11_LBCHCTII	5	04JUN11	06JUN11	14.1200	0.1095	0.8
862100_11_LBCHCTII	32	13JUN11	18JUL11	13.8969	0.1713	1.2
861900_11_LBCHCTII	18	16JUN11	26JUN11	14.3167	0.2282	1.6
862800_11_LBCHCTII	26	17JUL11	05AUG11	13.6769	0.1531	1.1
862700_11_LBCHCTII	21	18JUL11	31JUL11	13.8238	0.2047	1.5
863200_11_LBCHCTII	28	06AUG11	21AUG11	13.8929	0.1904	1.4
863100_11_LBCHCTII	40	08AUG11	01SEP11	14.2675	0.2368	1.7
863400_11_LBCHCTII	24	27AUG11	12SEP11	14.5083	0.2669	1.8
863500_11_LBCHCTII	19	01SEP11	12SEP11	13.9895	0.1696	1.2
863800_11_LBCHCTII	25	15SEP11	02OCT11	14.4080	0.1681	1.2
863900_11_LBCHCTII	76	20SEP11	04NOV11	14.4645	0.2348	1.6
864300_11_LBCHCTII	23	15OCT11	30OCT11	13.9522	0.2233	1.6
864400_11_LBCHCTII	28	05NOV11	21NOV11	14.4714	0.2088	1.4
864800_11_LBCHCTII	50	10NOV11	19DEC11	13.9000	0.3747	2.7
865000_11_LBCHCTII	36	02DEC11	21DEC11	14.2722	0.2212	1.5
865800_12_LBCHCTII	32	10JAN12	02FEB12	14.3406	0.2270	1.6
865500_12_LBCHCTII	20	12JAN12	23JAN12	14.2050	0.1731	1.2
866100_12_LBCHCTII	58	30JAN12	29FEB12	14.4741	0.2005	1.4
865900_12_LBCHCTII	23	02FEB12	16FEB12	14.6609	0.2251	1.5
866500_12_LBCHCTII	91	20FEB12	02APR12	14.6176	0.3115	2.1
866900_12_LBCHCTII	15	19MAR12	01APR12	14.8600	0.1502	1.0
867000_12_LBCHCTII	19	02APR12	13APR12	14.7579	0.2194	1.5
867300_12_LBCHCTII	43	11APR12	05MAY12	14.6419	0.1418	1.0
867100_12_LBCHCTII	26	27APR12	11MAY12	14.6885	0.1243	0.8
867500_12_LBCHCTII	20	05MAY12	17MAY12	14.7550	0.1638	1.1
867800_12_LBCHCTII	38	11MAY12	06JUN12	14.4895	0.2037	1.4
868100_12_LBCHCTII	73	22MAY12	27JUN12	15.1329	0.2620	1.7
868300_12_LBCHCTII	4	25JUN12	26JUN12	15.2500	0.1000	0.7
869000_12_LBCHCTII	83	14JUL12	16AUG12	14.3771	0.1953	1.4
869500_12_LBCHCTII	40	10AUG12	01SEP12	14.9225	0.2224	1.5
869400_12_LBCHCTII	12	16AUG12	24AUG12	14.7750	0.1485	1.0
860400_12_LBCHCTII	59	29AUG12	12NOV12	14.9831	0.1858	1.2
869600_12_LBCHCTII	48	29AUG12	30SEP12	14.9771	0.1777	1.2
869700_12_LBCHCTII	31	01SEP12	19SEP12	14.8258	0.1879	1.3
869800_12_LBCHCTII	27	18SEP12	08OCT12	15.2778	0.1739	1.1
860200_12_LBCHCTII	46	30SEP12	02NOV12	14.8587	0.1995	1.3
1.4293E8_12_LBCHCTII	64	08OCT12	12NOV12	47.7500	0.7823	1.6
860800_12_LBCHCTII	53	14NOV12	12DEC12	14.5340	0.2601	1.8
1.4296E8_12_LBCHCTII	45	18NOV12	19DEC12	47.3089	0.3253	0.7
861000_12_LBCHCTII	7	12DEC12	16DEC12	14.6429	0.2760	1.9
1.4297E8_13_LBCHCTII	32	04JAN13	20JAN13	48.1906	0.9021	1.9
1.4296E8_13_LBCHCTII	9	12JAN13	13JAN13	48.0667	0.8124	1.7


2011-2012 Hematocrit (%) (Abn ll) Quality Control
50
40
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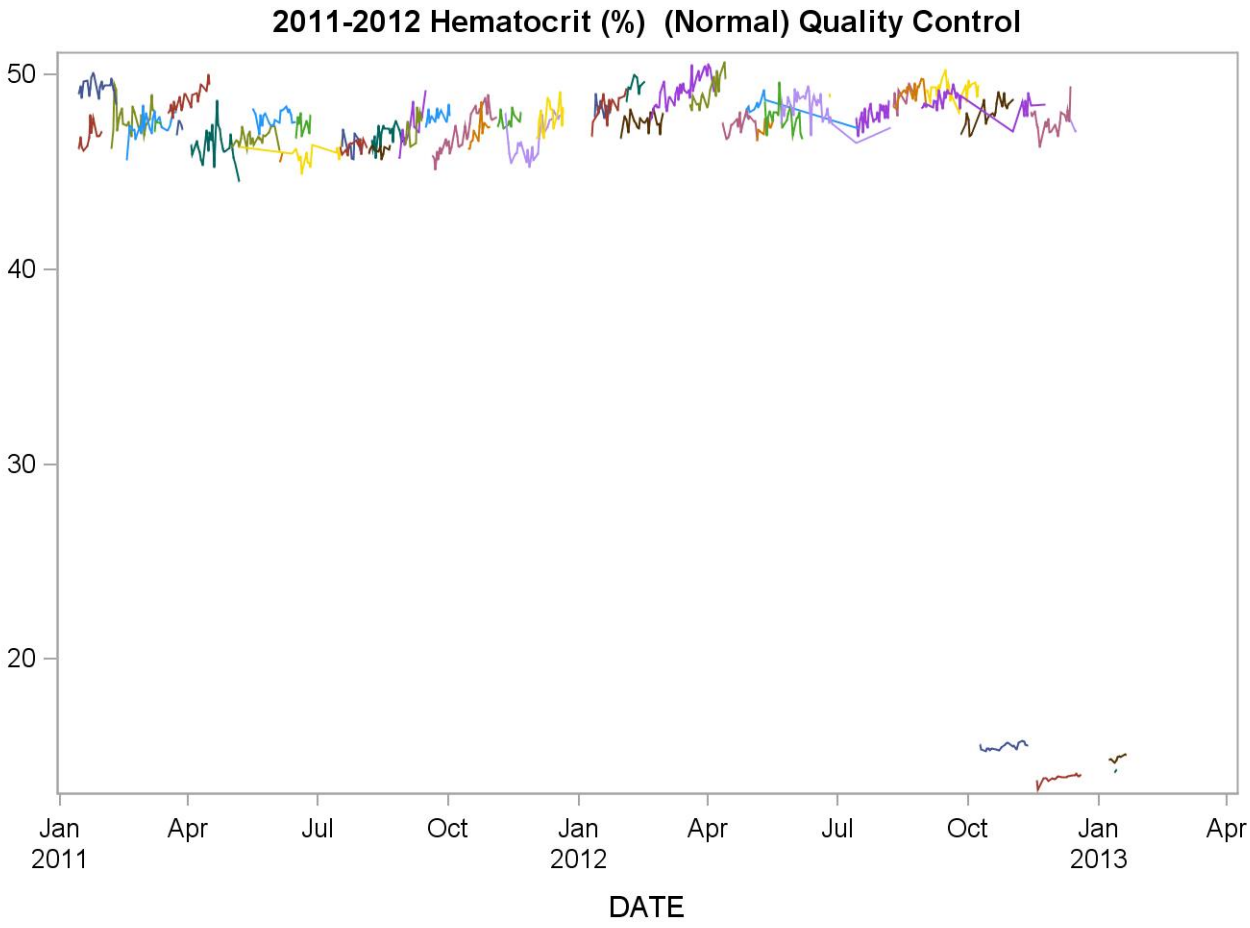
Jan
2013
Apr
DATE

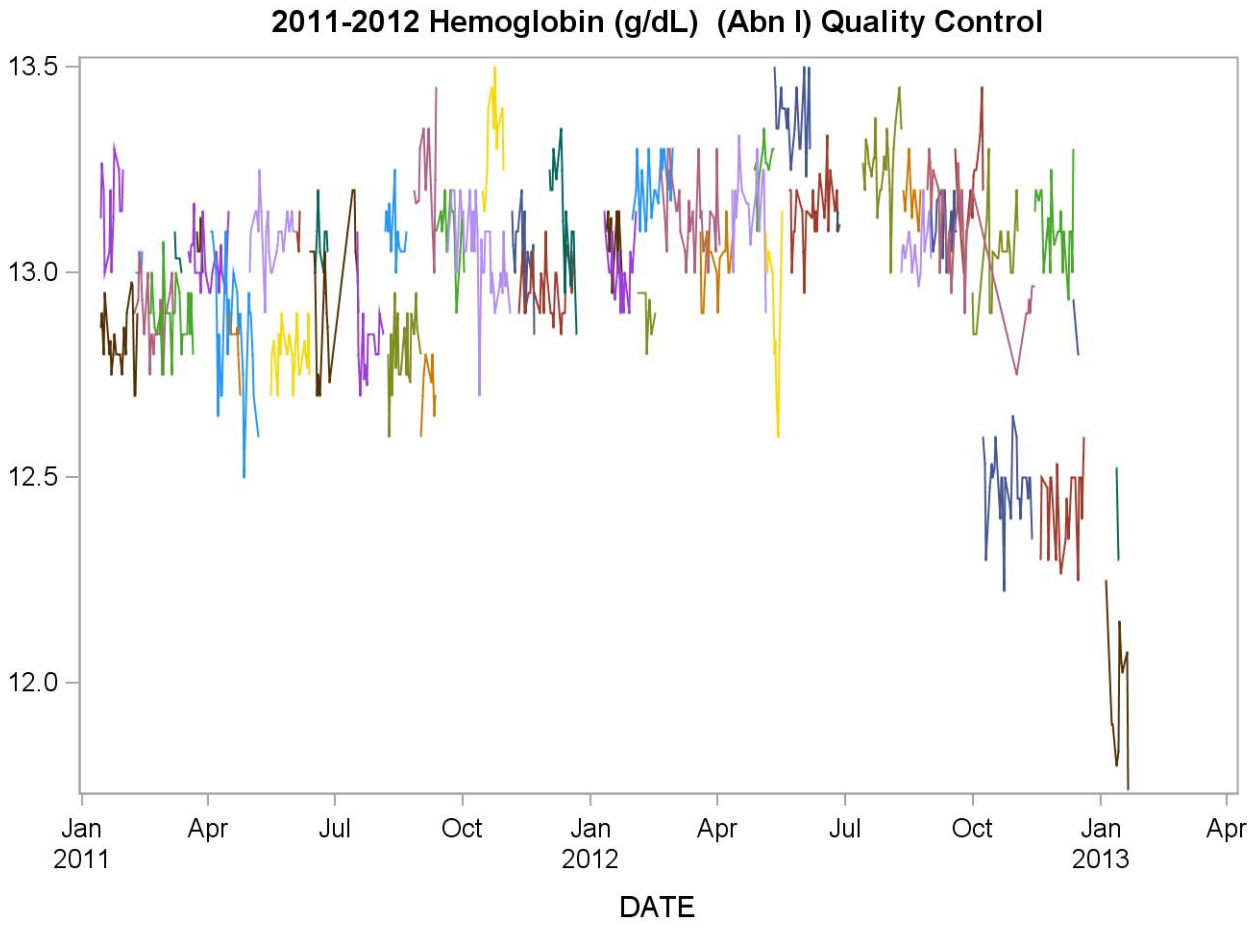
Summary Statistics for Hematocrit (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCHCTN	49	14JAN11	09FEB11	49.3939	0.6169	1.2
889900_11_LBCHCTN	26	14JAN11	30JAN11	46.7846	0.6703	1.4
880200_11_LBCHCTN	59	06FEB11	08MAR11	47.7780	0.9631	2.0
880500_11_LBCHCTN	50	17FEB11	24MAR11	47.4340	0.6690	1.4
880700_11_LBCHCTN	9	08MAR11	13MAR11	47.4333	0.4583	1.0
881100_11_LBCHCTN	48	18MAR11	16APR11	48.7167	0.6625	1.4
881000_11_LBCHCTN	19	24MAR11	28MAR11	47.5000	0.5312	1.1
881300_11_LBCHCTN	64	03APR11	07MAY11	46.5422	1.1738	2.5
881700_11_LBCHCTN	48	01MAY11	04JUN11	46.7875	0.4738	1.0
882600_11_LBCHCTN	36	07MAY11	18JUL11	45.7778	0.5673	1.2
881800_11_LBCHCTN	44	16MAY11	16JUN11	47.8318	0.5365	1.1
882100_11_LBCHCTN	5	04JUN11	06JUN11	45.7400	0.6309	1.4
882200_11_LBCHCTN	19	16JUN11	26JUN11	47.4842	0.7876	1.7
883300_11_LBCHCTN	26	17JUL11	05AUG11	46.3615	0.3556	0.8
883200_11_LBCHCTN	19	18JUL11	31JUL11	46.3316	0.6037	1.3
884000_11_LBCHCTN	27	06AUG11	21AUG11	46.1148	0.3988	0.9
883700_11_LBCHCTN	40	08AUG11	01SEP11	46.9625	0.6007	1.3
884100_11_LBCHCTN	30	27AUG11	15SEP11	47.2567	1.0085	2.1
884300_11_LBCHCTN	18	01SEP11	12SEP11	47.3778	0.7425	1.6
884600_11_LBCHCTN	25	15SEP11	02OCT11	47.8600	0.4133	0.9
884700_11_LBCHCTN	80	20SEP11	04NOV11	47.0575	1.0408	2.2
885100_11_LBCHCTN	24	15OCT11	30OCT11	47.0042	0.6403	1.4
885200_11_LBCHCTN	26	05NOV11	21NOV11	47.7077	0.4638	1.0
885600_11_LBCHCTN	68	10NOV11	19DEC11	46.6750	1.0513	2.3
885900_11_LBCHCTN	40	02DEC11	21DEC11	47.8300	0.8973	1.9
886600_12_LBCHCTN	36	10JAN12	03FEB12	48.3139	0.7914	1.6
886300_12_LBCHCTN	23	12JAN12	23JAN12	48.1826	0.5898	1.2
886900_12_LBCHCTN	60	30JAN12	29FEB12	47.4933	0.5940	1.3
886700_12_LBCHCTN	22	03FEB12	16FEB12	49.3727	0.6606	1.3
887400_12_LBCHCTN	94	20FEB12	05APR12	49.1904	0.8391	1.7
887800_12_LBCHCTN	34	19MAR12	13APR12	49.1059	0.8869	1.8
888200_12_LBCHCTN	47	11APR12	05MAY12	47.3851	0.6040	1.3
888100_12_LBCHCTN	30	27APR12	16JUL12	48.2867	0.6044	1.3
888500_12_LBCHCTN	18	05MAY12	17MAY12	47.3833	0.5067	1.1
888700_12_LBCHCTN	39	11MAY12	06JUN12	47.9308	0.7568	1.6
889000_12_LBCHCTN	80	22MAY12	07AUG12	48.3131	0.8948	1.9
889500_12_LBCHCTN	5	25JUN12	26JUN12	48.9400	0.6542	1.3
880100_12_LBCHCTN	76	14JUL12	06AUG12	47.8592	0.6876	1.4
880500_12_LBCHCTN	20	09AUG12	24AUG12	48.8150	0.5081	1.0
880600_12_LBCHCTN	45	10AUG12	01SEP12	49.0733	0.6631	1.4
880700_12_LBCHCTN	50	29AUG12	26SEP12	48.7600	0.6969	1.4
881500_12_LBCHCTN	66	29AUG12	24NOV12	48.6621	0.7196	1.5
880900_12_LBCHCTN	62	01SEP12	08OCT12	49.2048	0.6297	1.3
881300_12_LBCHCTN	58	26SEP12	02NOV12	48.0293	0.7905	1.6
1.2293E8_12_LBCHCTN	62	09OCT12	12NOV12	15.5032	0.2008	1.3
882000_12_LBCHCTN	48	14NOV12	12DEC12	47.5479	0.8016	1.7
1.2296E8_12_LBCHCTN	51	18NOV12	19DEC12	13.9333	0.1424	1.0
882200_12_LBCHCTN	8	12DEC12	16DEC12	47.3375	0.4627	1.0
1.2297E8_13_LBCHCTN	31	08JAN13	20JAN13	14.9806	0.2344	1.6
1.2296E8_13_LBCHCTN	11	12JAN13	13JAN13	14.2545	0.1695	1.2


2011-2012 Hematocrit (%) (Normal) Quality Control
50
40
30
20
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

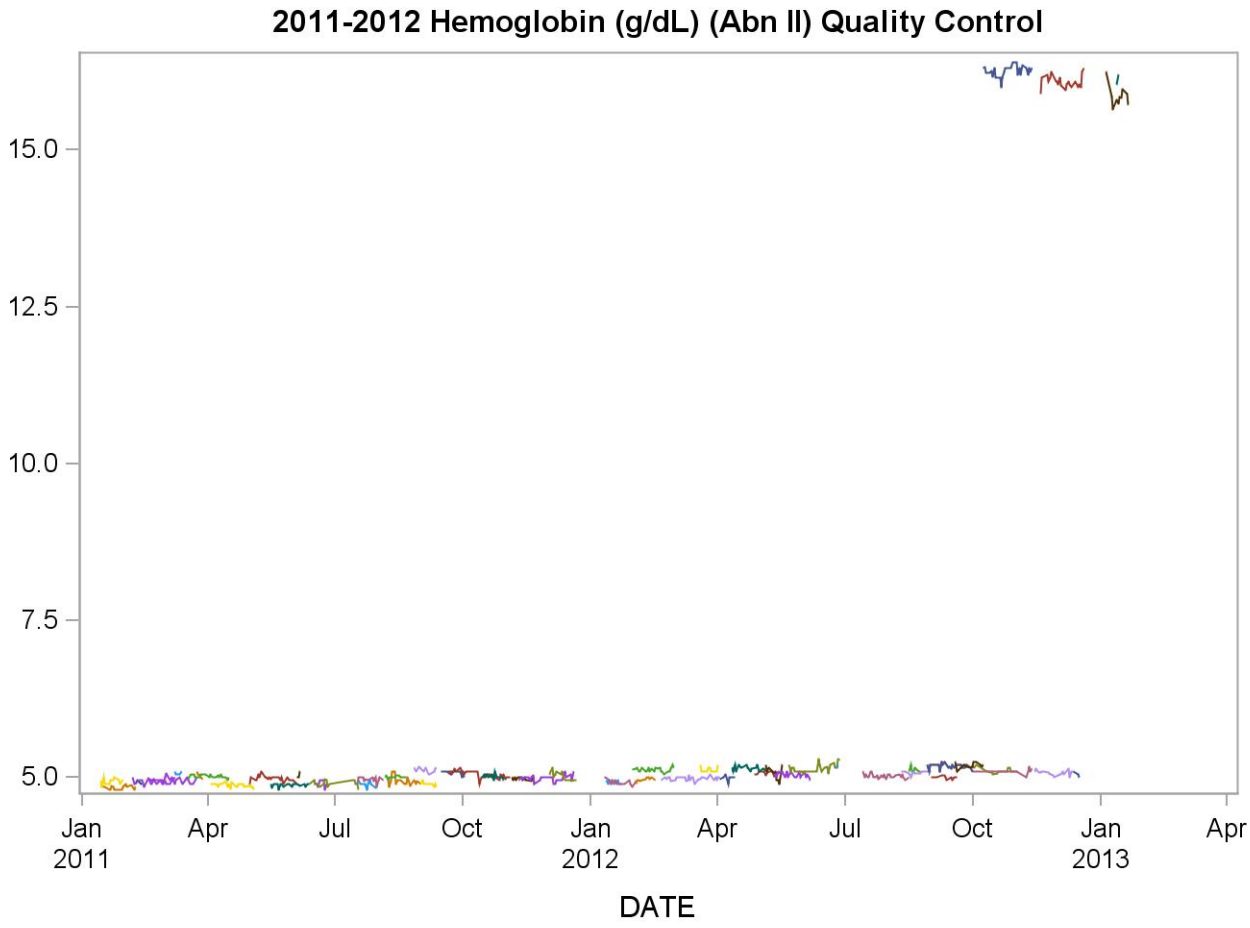
Summary Statistics for Hemoglobin (g/dL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCHGBI	25	14JAN11	30JAN11	13.1680	0.1145	0.9
879800_11_LBCHGBI	49	14JAN11	09FEB11	12.8408	0.1117	0.9
870300_11_LBCHGBI	47	06FEB11	08MAR11	12.8936	0.1205	0.9
870200_11_LBCHGBI	7	08FEB11	13FEB11	13.0143	0.1345	1.0
870500_11_LBCHGBI	48	17FEB11	21MAR11	12.8979	0.1158	0.9
870900_11_LBCHGBI	9	08MAR11	13MAR11	13.0333	0.0707	0.5
871200_11_LBCHGBI	49	18MAR11	16APR11	13.0388	0.0931	0.7
871100_11_LBCHGBI	10	24MAR11	28MAR11	13.0700	0.1160	0.9
871400_11_LBCHGBI	47	03APR11	07MAY11	12.8574	0.1716	1.3
871500_11_LBCHGBI	14	16APR11	24APR11	12.8357	0.0633	0.5
871900_11_LBCHGBI	45	01MAY11	04JUN11	13.0933	0.0963	0.7
872000_11_LBCHGBI	42	16MAY11	13JUN11	12.8048	0.0936	0.7
872200_11_LBCHGBI	5	04JUN11	06JUN11	13.1000	0.0707	0.5
872600_11_LBCHGBI	34	13JUN11	18JUL11	12.9412	0.2061	1.6
872400_11_LBCHGBI	18	16JUN11	26JUN11	13.0667	0.1237	0.9
873200_11_LBCHGBI	43	17JUL11	05AUG11	12.8070	0.1242	1.0
873700_11_LBCHGBI	26	06AUG11	21AUG11	13.0962	0.1113	0.8
873600_11_LBCHGBI	39	08AUG11	01SEP11	12.8205	0.1418	1.1
873900_11_LBCHGBI	28	27AUG11	12SEP11	13.2393	0.1663	1.3
874100_11_LBCHGBI	17	01SEP11	12SEP11	12.7235	0.0903	0.7
874400_11_LBCHGBI	26	12SEP11	02OCT11	13.1154	0.0925	0.7
874500_11_LBCHGBI	80	20SEP11	04NOV11	13.0600	0.1318	1.0
874900_11_LBCHGBI	27	15OCT11	30OCT11	13.3333	0.1544	1.2
875000_11_LBCHGBI	29	05NOV11	21NOV11	13.0483	0.1243	1.0
875400_11_LBCHGBI	65	10NOV11	19DEC11	12.9615	0.0995	0.8
875700_11_LBCHGBI	37	02DEC11	21DEC11	13.1351	0.1585	1.2
876500_12_LBCHGBI	34	10JAN12	02FEB12	13.0029	0.1487	1.1
876100_12_LBCHGBI	22	12JAN12	23JAN12	13.0727	0.1077	0.8
876800_12_LBCHGBI	60	30JAN12	29FEB12	13.1967	0.1473	1.1
876600_12_LBCHGBI	21	03FEB12	16FEB12	12.9190	0.0680	0.5
877300_12_LBCHGBI	91	20FEB12	02APR12	13.1396	0.1324	1.0
877800_12_LBCHGBI	29	19MAR12	13APR12	13.0379	0.0903	0.7
878200_12_LBCHGBI	43	11APR12	05MAY12	13.1767	0.1288	1.0
878100_12_LBCHGBI	24	27APR12	11MAY12	13.2667	0.1167	0.9
878500_12_LBCHGBI	19	05MAY12	17MAY12	12.8947	0.1900	1.5
878600_12_LBCHGBI	38	11MAY12	06JUN12	13.3711	0.1374	1.0
879000_12_LBCHGBI	74	22MAY12	27JUN12	13.1486	0.1357	1.0
879300_12_LBCHGBI	4	25JUN12	26JUN12	13.1250	0.0500	0.4
870000_12_LBCHGBI	82	14JUL12	11AUG12	13.2695	0.1463	1.1
870500_12_LBCHGBI	43	10AUG12	01SEP12	13.0535	0.1260	1.0
870400_12_LBCHGBI	15	12AUG12	24AUG12	13.1800	0.0941	0.7
870600_12_LBCHGBI	54	29AUG12	30SEP12	13.1352	0.1481	1.1
871400_12_LBCHGBI	71	29AUG12	14NOV12	13.0817	0.1676	1.3
870700_12_LBCHGBI	32	01SEP12	19SEP12	13.1188	0.1401	1.1
870800_12_LBCHGBI	29	18SEP12	08OCT12	13.2207	0.1677	1.3
871200_12_LBCHGBI	48	30SEP12	02NOV12	13.0229	0.1505	1.2
1.3293E8_12_LBCHGBI	68	08OCT12	12NOV12	12.4662	0.1636	1.3
871800_12_LBCHGBI	49	14NOV12	12DEC12	13.1143	0.1369	1.0
1.3296E8_12_LBCHGBI	46	18NOV12	19DEC12	12.4196	0.1408	1.1
872000_12_LBCHGBI	7	12DEC12	16DEC12	12.8571	0.1272	1.0
1.3297E8_13_LBCHGBI	32	04JAN13	20JAN13	11.9719	0.2174	1.8
1.3296E8_13_LBCHGBI	13	12JAN13	13JAN13	12.4385	0.3097	2.5


2011-2012 Hemoglobin (g/dL) (Abn l) Quality Control
13.5
13.0
12.5
12.0
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

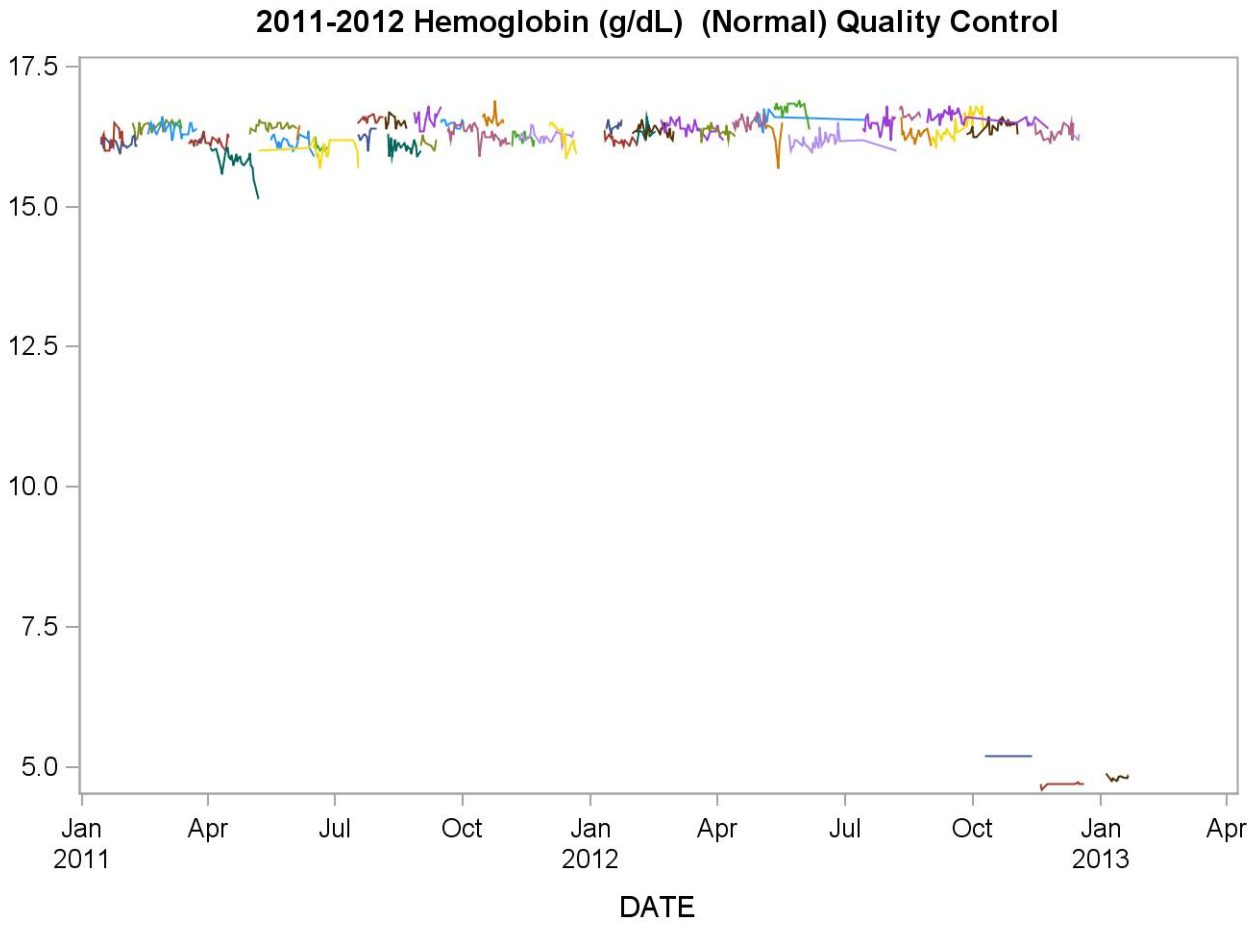
Summary Statistics for Hemoglobin (g/dL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCHGBII	46	14JAN11	08FEB11	4.8413	0.0580	1.2
869600_11_LBCHGBII	33	14JAN11	30JAN11	4.9364	0.0549	1.1
869900_11_LBCHGBII	49	06FEB11	08MAR11	4.9571	0.0645	1.3
869800_11_LBCHGBII	7	08FEB11	13FEB11	4.9143	0.0378	0.8
860100_11_LBCHGBII	54	17FEB11	24MAR11	4.9315	0.0577	1.2
860400_11_LBCHGBII	7	08MAR11	13MAR11	5.0714	0.0488	1.0
860700_11_LBCHGBII	50	18MAR11	16APR11	5.0200	0.0495	1.0
860600_11_LBCHGBII	11	24MAR11	28MAR11	5.0182	0.0603	1.2
860900_11_LBCHGBII	58	03APR11	04MAY11	4.8810	0.0476	1.0
861300_11_LBCHGBII	46	01MAY11	04JUN11	4.9804	0.0542	1.1
861400_11_LBCHGBII	43	16MAY11	13JUN11	4.8791	0.0466	1.0
861700_11_LBCHGBII	5	04JUN11	06JUN11	5.0400	0.0548	1.1
862100_11_LBCHGBII	32	13JUN11	18JUL11	4.9094	0.0588	1.2
861900_11_LBCHGBII	18	16JUN11	26JUN11	4.9000	0.0594	1.2
862800_11_LBCHGBII	26	17JUL11	05AUG11	4.9500	0.0583	1.2
862700_11_LBCHGBII	21	18JUL11	31JUL11	4.8857	0.0854	1.7
863200_11_LBCHGBII	27	06AUG11	21AUG11	5.0074	0.0385	0.8
863100_11_LBCHGBII	40	08AUG11	01SEP11	4.9350	0.0770	1.6
863400_11_LBCHGBII	24	27AUG11	12SEP11	5.1208	0.0588	1.1
863500_11_LBCHGBII	19	01SEP11	12SEP11	4.8947	0.0524	1.1
863800_11_LBCHGBII	25	15SEP11	02OCT11	5.0840	0.0374	0.7
863900_11_LBCHGBII	76	20SEP11	04NOV11	5.0487	0.0721	1.4
864300_11_LBCHGBII	23	15OCT11	30OCT11	5.0087	0.0596	1.2
864400_11_LBCHGBII	28	05NOV11	21NOV11	4.9679	0.0476	1.0
864800_11_LBCHGBII	50	10NOV11	19DEC11	4.9900	0.0707	1.4
865000_11_LBCHGBII	36	02DEC11	21DEC11	5.0083	0.0841	1.7
865800_12_LBCHGBII	32	10JAN12	02FEB12	4.9219	0.0491	1.0
865500_12_LBCHGBII	20	12JAN12	23JAN12	4.9200	0.0410	0.8
866100_12_LBCHGBII	57	30JAN12	29FEB12	5.1211	0.0491	1.0
865900_12_LBCHGBII	23	02FEB12	16FEB12	4.9609	0.0583	1.2
866500_12_LBCHGBII	91	20FEB12	02APR12	4.9791	0.0460	0.9
866900_12_LBCHGBII	15	19MAR12	01APR12	5.1267	0.0458	0.9
867000_12_LBCHGBII	19	02APR12	13APR12	5.0053	0.0524	1.0
867300_12_LBCHGBII	43	11APR12	05MAY12	5.1465	0.0550	1.1
867100_12_LBCHGBII	26	27APR12	11MAY12	5.0692	0.0549	1.1
867500_12_LBCHGBII	20	05MAY12	17MAY12	5.0450	0.1191	2.4
867800_12_LBCHGBII	38	11MAY12	06JUN12	5.0395	0.0595	1.2
868100_12_LBCHGBII	73	22MAY12	27JUN12	5.1548	0.0972	1.9
868300_12_LBCHGBII	4	25JUN12	26JUN12	5.1750	0.0500	1.0
869000_12_LBCHGBII	83	14JUL12	16AUG12	5.0217	0.0606	1.2
869500_12_LBCHGBII	40	10AUG12	01SEP12	5.0825	0.0385	0.8
869400_12_LBCHGBII	12	16AUG12	24AUG12	5.1167	0.0718	1.4
860400_12_LBCHGBII	58	29AUG12	12NOV12	5.1655	0.0608	1.2
869600_12_LBCHGBII	47	29AUG12	30SEP12	5.1766	0.0560	1.1
869700_12_LBCHGBII	31	01SEP12	19SEP12	5.0032	0.0407	0.8
869800_12_LBCHGBII	27	18SEP12	08OCT12	5.1963	0.0649	1.2
860200_12_LBCHGBII	46	30SEP12	02NOV12	5.1087	0.0551	1.1
1.4293E8_12_LBCHGBII	63	08OCT12	12NOV12	16.2556	0.1305	0.8
860800_12_LBCHGBII	53	14NOV12	12DEC12	5.0717	0.0601	1.2
1.4296E8_12_LBCHGBII	44	18NOV12	19DEC12	16.0886	0.1205	0.7
861000_12_LBCHGBII	7	12DEC12	16DEC12	5.0571	0.0535	1.1
1.4297E8_13_LBCHGBII	32	04JAN13	20JAN13	15.8469	0.2423	1.5
1.4296E8_13_LBCHGBII	9	12JAN13	13JAN13	16.1111	0.5645	3.5


2011-2012 Hemoglobin (g/dL) (Abn II) Quality Control
15.0
12.5
10.0
7.5
5.0
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

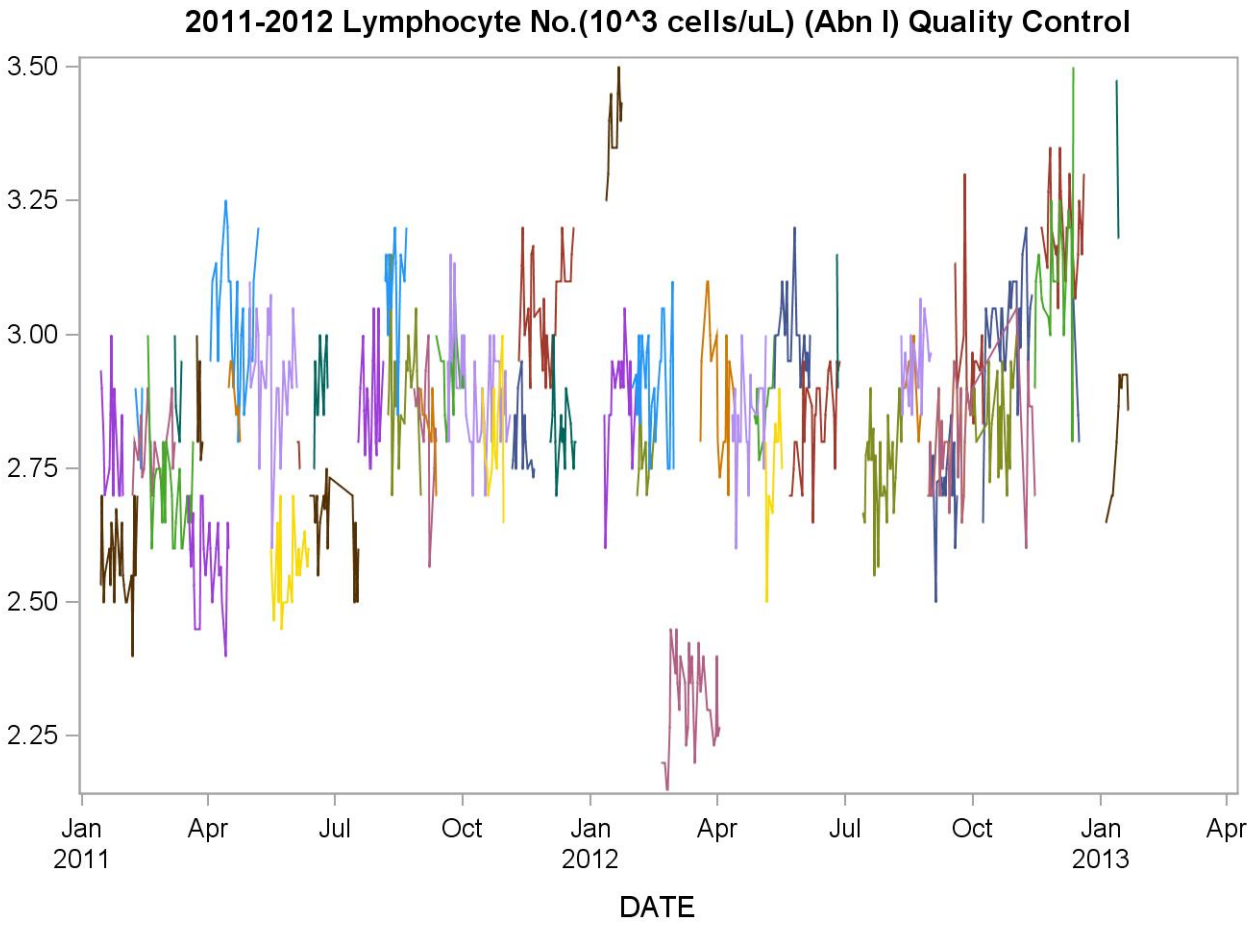
Summary Statistics for Hemoglobin (g/dL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCHGBN	49	14JAN11	09FEB11	16.1490	0.1277	0.8
889900_11_LBCHGBN	26	14JAN11	30JAN11	16.2192	0.1415	0.9
880200_11_LBCHGBN	58	06FEB11	08MAR11	16.4207	0.1576	1.0
880500_11_LBCHGBN	51	17FEB11	24MAR11	16.3961	0.1341	0.8
880700_11_LBCHGBN	9	08MAR11	13MAR11	16.4556	0.0882	0.5
881100_11_LBCHGBN	48	18MAR11	16APR11	16.1771	0.1356	0.8
881000_11_LBCHGBN	19	24MAR11	28MAR11	16.1895	0.1049	0.6
881300_11_LBCHGBN	64	03APR11	07MAY11	15.8359	0.2065	1.3
881700_11_LBCHGBN	48	01MAY11	04JUN11	16.4479	0.1203	0.7
882600_11_LBCHGBN	36	07MAY11	18JUL11	16.0167	0.2158	1.3
881800_11_LBCHGBN	45	16MAY11	16JUN11	16.1756	0.1540	1.0
882100_11_LBCHGBN	5	04JUN11	06JUN11	16.3800	0.1095	0.7
882200_11_LBCHGBN	19	16JUN11	26JUN11	16.0737	0.1661	1.0
883300_11_LBCHGBN	27	17JUL11	05AUG11	16.5704	0.0993	0.6
883200_11_LBCHGBN	19	18JUL11	31JUL11	16.2895	0.1663	1.0
884000_11_LBCHGBN	27	06AUG11	21AUG11	16.5333	0.1301	0.8
883700_11_LBCHGBN	40	08AUG11	01SEP11	16.0825	0.1708	1.1
884100_11_LBCHGBN	30	27AUG11	15SEP11	16.5767	0.1995	1.2
884300_11_LBCHGBN	18	01SEP11	12SEP11	16.1500	0.1383	0.9
884600_11_LBCHGBN	25	15SEP11	02OCT11	16.5000	0.0707	0.4
884700_11_LBCHGBN	80	20SEP11	04NOV11	16.3188	0.1654	1.0
885100_11_LBCHGBN	24	15OCT11	30OCT11	16.5583	0.1412	0.9
885200_11_LBCHGBN	26	05NOV11	21NOV11	16.2346	0.1441	0.9
885600_11_LBCHGBN	67	10NOV11	19DEC11	16.2776	0.1444	0.9
885900_11_LBCHGBN	40	02DEC11	21DEC11	16.2200	0.2356	1.5
886600_12_LBCHGBN	36	10JAN12	03FEB12	16.1972	0.1230	0.8
886300_12_LBCHGBN	23	12JAN12	23JAN12	16.4391	0.1406	0.9
886900_12_LBCHGBN	60	30JAN12	29FEB12	16.3633	0.1178	0.7
886700_12_LBCHGBN	22	03FEB12	16FEB12	16.3182	0.1563	1.0
887400_12_LBCHGBN	94	20FEB12	05APR12	16.4021	0.1606	1.0
887800_12_LBCHGBN	34	19MAR12	13APR12	16.3441	0.1397	0.9
888200_12_LBCHGBN	47	11APR12	05MAY12	16.4936	0.1374	0.8
888100_12_LBCHGBN	30	27APR12	16JUL12	16.5733	0.2033	1.2
888500_12_LBCHGBN	18	05MAY12	17MAY12	16.2444	0.2684	1.7
888700_12_LBCHGBN	39	11MAY12	06JUN12	16.7487	0.1876	1.1
889000_12_LBCHGBN	80	22MAY12	07AUG12	16.1994	0.2004	1.2
889500_12_LBCHGBN	5	25JUN12	26JUN12	16.4000	0.1000	0.6
880100_12_LBCHGBN	76	14JUL12	06AUG12	16.4947	0.2039	1.2
880500_12_LBCHGBN	19	09AUG12	24AUG12	16.6632	0.1065	0.6
880600_12_LBCHGBN	44	10AUG12	01SEP12	16.2932	0.1676	1.0
880700_12_LBCHGBN	50	29AUG12	26SEP12	16.6260	0.1782	1.1
881500_12_LBCHGBN	66	29AUG12	24NOV12	16.5939	0.1744	1.1
880900_12_LBCHGBN	62	01SEP12	08OCT12	16.4306	0.2646	1.6
881300_12_LBCHGBN	58	26SEP12	02NOV12	16.4155	0.1824	1.1
1.2293E8_12_LBCHGBN	57	09OCT12	12NOV12	5.2000	0.0000	0.0
882000_12_LBCHGBN	48	14NOV12	12DEC12	16.3229	0.1666	1.0
1.2296E8_12_LBCHGBN	51	18NOV12	19DEC12	4.7000	0.1400	3.0
882200_12_LBCHGBN	8	12DEC12	16DEC12	16.2625	0.1188	0.7
1.2297E8_13_LBCHGBN	31	04JAN13	20JAN13	4.8258	0.0815	1.7
1.2296E8_13_LBCHGBN	11	12JAN13	13JAN13	4.7818	0.4309	9.0


2011-2012 Hemoglobin (g/dL) (Normal) Quality Control
17.5
15.0
12.5
10.0
7.5
5.0
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for Lymphocyte No.(10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCLYNI	25	14JAN11	30JAN11	2.8040	0.1306	4.7
879800_11_LBCLYNI	48	14JAN11	09FEB11	2.5708	0.1148	4.5
870300_11_LBCLYNI	47	06FEB11	08MAR11	2.7787	0.0858	3.1
870200_11_LBCLYNI	7	08FEB11	13FEB11	2.8429	0.1134	4.0
870500_11_LBCLYNI	49	17FEB11	21MAR11	2.7020	0.1090	4.0
870900_11_LBCLYNI	9	08MAR11	13MAR11	2.8778	0.1093	3.8
871200_11_LBCLYNI	49	18MAR11	16APR11	2.5837	0.1048	4.1
871100_11_LBCLYNI	10	24MAR11	28MAR11	2.8400	0.1174	4.1
871400_11_LBCLYNI	47	03APR11	07MAY11	3.0383	0.1453	4.8
871500_11_LBCLYNI	14	16APR11	24APR11	2.8857	0.0949	3.3
871900_11_LBCLYNI	44	01MAY11	04JUN11	2.9318	0.1459	5.0
872000_11_LBCLYNI	42	16MAY11	13JUN11	2.5667	0.1004	3.9
872200_11_LBCLYNI	5	04JUN11	06JUN11	2.7800	0.0837	3.0
872600_11_LBCLYNI	34	13JUN11	18JUL11	2.6559	0.1078	4.1
872400_11_LBCLYNI	18	16JUN11	26JUN11	2.9000	0.1283	4.4
873200_11_LBCLYNI	43	17JUL11	05AUG11	2.8605	0.1450	5.1
873700_11_LBCLYNI	24	06AUG11	21AUG11	3.0833	0.1606	5.2
873600_11_LBCLYNI	39	08AUG11	01SEP11	2.9128	0.1196	4.1
873900_11_LBCLYNI	28	27AUG11	12SEP11	2.8321	0.1634	5.8
874100_11_LBCLYNI	17	01SEP11	12SEP11	2.8235	0.0970	3.4
874400_11_LBCLYNI	26	12SEP11	02OCT11	2.9269	0.1116	3.8
874500_11_LBCLYNI	79	20SEP11	04NOV11	2.8987	0.1419	4.9
874900_11_LBCLYNI	26	15OCT11	30OCT11	2.7846	0.1255	4.5
875000_11_LBCLYNI	29	05NOV11	21NOV11	2.7931	0.1100	3.9
875400_11_LBCLYNI	65	10NOV11	19DEC11	3.0600	0.1321	4.3
875700_11_LBCLYNI	37	02DEC11	21DEC11	2.8108	0.1149	4.1
876500_12_LBCLYNI	33	10JAN12	02FEB12	2.8939	0.1248	4.3
876100_12_LBCLYNI	21	12JAN12	23JAN12	3.3905	0.0889	2.6
876800_12_LBCLYNI	60	30JAN12	29FEB12	2.9067	0.1425	4.9
876600_12_LBCLYNI	22	03FEB12	16FEB12	2.7818	0.1053	3.8
877300_12_LBCLYNI	92	20FEB12	02APR12	2.3163	0.1320	5.7
877800_12_LBCLYNI	29	19MAR12	13APR12	2.9034	0.1500	5.2
878200_12_LBCLYNI	44	11APR12	05MAY12	2.8273	0.1420	5.0
878100_12_LBCLYNI	25	27APR12	11MAY12	2.8480	0.1194	4.2
878500_12_LBCLYNI	19	05MAY12	17MAY12	2.7579	0.1170	4.2
878600_12_LBCLYNI	38	11MAY12	06JUN12	3.0000	0.1273	4.2
879000_12_LBCLYNI	74	22MAY12	27JUN12	2.8514	0.1367	4.8
879300_12_LBCLYNI	4	25JUN12	26JUN12	3.0250	0.1500	5.0
870000_12_LBCLYNI	82	14JUL12	11AUG12	2.7378	0.1376	5.0
870500_12_LBCLYNI	43	10AUG12	01SEP12	2.9512	0.1242	4.2
870400_12_LBCLYNI	15	12AUG12	24AUG12	2.9067	0.0961	3.3
870600_12_LBCLYNI	54	29AUG12	30SEP12	2.7944	0.1393	5.0
871400_12_LBCLYNI	71	29AUG12	14NOV12	2.8085	0.1461	5.2
870700_12_LBCLYNI	32	01SEP12	19SEP12	2.7250	0.0984	3.6
870800_12_LBCLYNI	29	18SEP12	08OCT12	2.9483	0.1595	5.4
871200_12_LBCLYNI	48	30SEP12	02NOV12	2.8458	0.1352	4.8
1.3293E8_12_LBCLYNI	68	08OCT12	12NOV12	3.0132	0.1381	4.6
871800_12_LBCLYNI	49	14NOV12	12DEC12	3.1143	0.1472	4.7
1.3296E8_12_LBCLYNI	47	18NOV12	19DEC12	3.1957	0.1215	3.8
872000_12_LBCLYNI	7	12DEC12	16DEC12	2.9286	0.1380	4.7
1.3297E8_13_LBCLYNI	32	04JAN13	20JAN13	2.8531	0.1665	5.8
1.3296E8_13_LBCLYNI	13	12JAN13	13JAN13	3.3615	0.2256	6.7


2011-2012 Lymphocyte No.(10^3 cells/uL) (Abn l) Quality Control
3.50
3.25
3.00
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2.25
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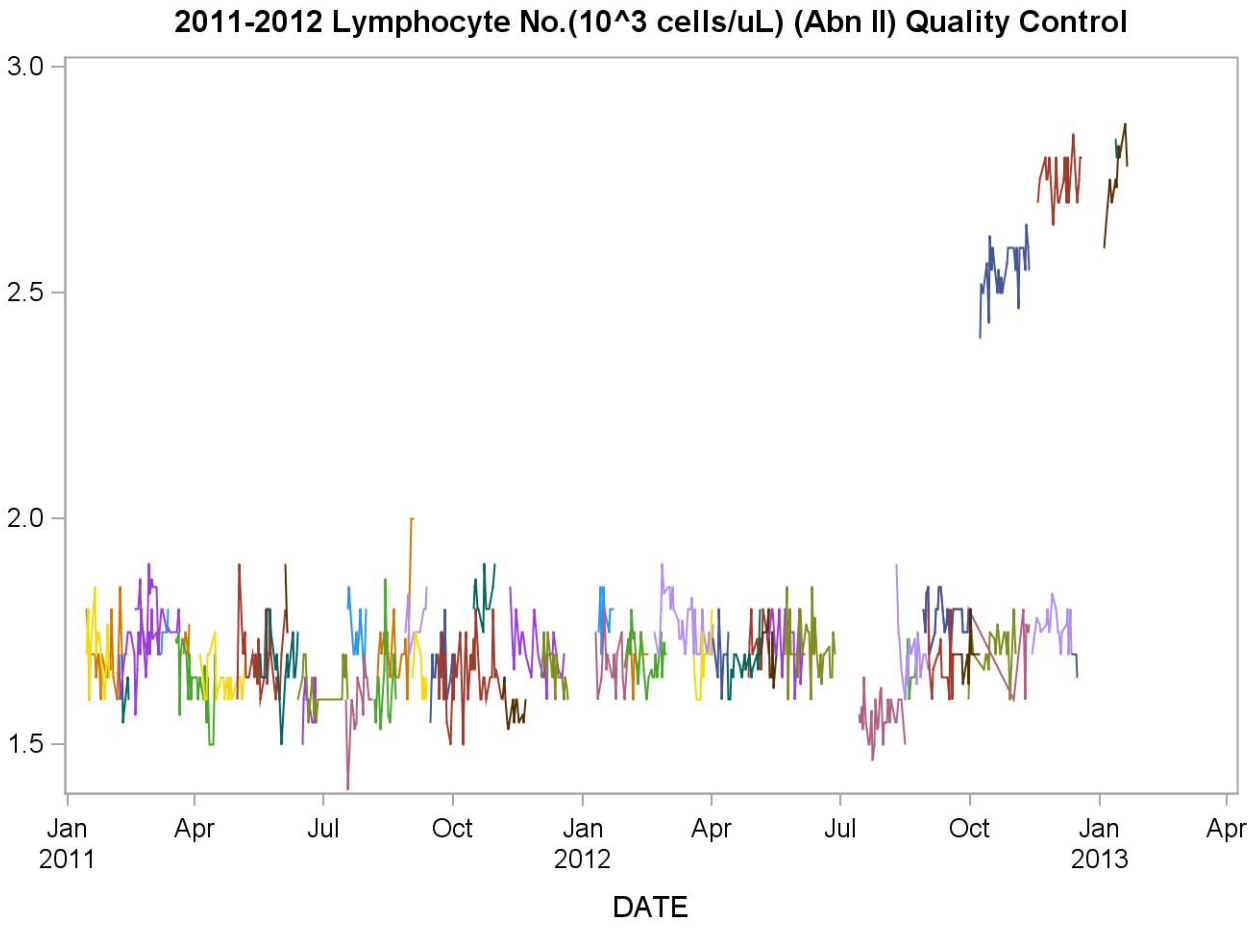
Apr
DATE

Summary Statistics for Lymphocyte No.(10^3 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCLYNII	44	14JAN11	08FEB11	1.6955	0.0939	5.5
869600_11_LBCLYNII	33	14JAN11	30JAN11	1.7152	0.0795	4.6
869900_11_LBCLYNII	49	06FEB11	08MAR11	1.7082	0.0759	4.4
869800_11_LBCLYNII	7	08FEB11	13FEB11	1.6143	0.0690	4.3
860100_11_LBCLYNII	53	17FEB11	21MAR11	1.7887	0.0776	4.3
860400_11_LBCLYNII	7	08MAR11	13MAR11	1.7571	0.0535	3.0
860700_11_LBCLYNII	49	18MAR11	16APR11	1.6531	0.0938	5.7
860600_11_LBCLYNII	11	24MAR11	28MAR11	1.7364	0.0674	3.9
860900_11_LBCLYNII	59	04APR11	07MAY11	1.6424	0.0747	4.6
861300_11_LBCLYNII	44	01MAY11	04JUN11	1.6818	0.0843	5.0
861400_11_LBCLYNII	42	16MAY11	13JUN11	1.6952	0.0795	4.7
861700_11_LBCLYNII	5	04JUN11	06JUN11	1.7800	0.0837	4.7
862100_11_LBCLYNII	31	13JUN11	18JUL11	1.6258	0.0729	4.5
861900_11_LBCLYNII	18	16JUN11	26JUN11	1.5833	0.0707	4.5
862800_11_LBCLYNII	24	17JUL11	05AUG11	1.5875	0.0992	6.2
862700_11_LBCLYNII	20	18JUL11	31JUL11	1.7500	0.1051	6.0
863200_11_LBCLYNII	27	06AUG11	21AUG11	1.6296	0.1728	10.6
863100_11_LBCLYNII	39	08AUG11	03SEP11	1.7077	0.1061	6.2
863400_11_LBCLYNII	24	27AUG11	12SEP11	1.7750	0.0608	3.4
863500_11_LBCLYNII	17	01SEP11	12SEP11	1.6647	0.0862	5.2
863800_11_LBCLYNII	25	15SEP11	02OCT11	1.6640	0.0700	4.2
863900_11_LBCLYNII	74	20SEP11	04NOV11	1.6595	0.0890	5.4
864300_11_LBCLYNII	23	15OCT11	30OCT11	1.8304	0.0703	3.8
864400_11_LBCLYNII	27	05NOV11	21NOV11	1.5778	0.0577	3.7
864800_11_LBCLYNII	50	10NOV11	19DEC11	1.7080	0.0752	4.4
865000_11_LBCLYNII	36	02DEC11	21DEC11	1.6556	0.0695	4.2
865800_12_LBCLYNII	33	10JAN12	02FEB12	1.6909	0.0914	5.4
865500_12_LBCLYNII	20	12JAN12	23JAN12	1.7900	0.0641	3.6
866100_12_LBCLYNII	56	30JAN12	29FEB12	1.6893	0.0679	4.0
865900_12_LBCLYNII	23	02FEB12	16FEB12	1.6913	0.0596	3.5
866500_12_LBCLYNII	91	20FEB12	02APR12	1.7648	0.0887	5.0
866900_12_LBCLYNII	15	19MAR12	01APR12	1.6867	0.0640	3.8
867000_12_LBCLYNII	15	02APR12	13APR12	1.7133	0.0743	4.3
867300_12_LBCLYNII	42	11APR12	05MAY12	1.6738	0.0497	3.0
867100_12_LBCLYNII	26	27APR12	11MAY12	1.7231	0.0765	4.4
867500_12_LBCLYNII	20	05MAY12	17MAY12	1.7000	0.0725	4.3
867800_12_LBCLYNII	38	11MAY12	06JUN12	1.7289	0.0694	4.0
868100_12_LBCLYNII	73	22MAY12	27JUN12	1.7137	0.0839	4.9
868300_12_LBCLYNII	4	25JUN12	26JUN12	1.7000	0.0000	0.0
869000_12_LBCLYNII	84	14JUL12	16AUG12	1.5595	0.0713	4.6
869500_12_LBCLYNII	39	10AUG12	01SEP12	1.6923	0.0739	4.4
869400_12_LBCLYNII	11	16AUG12	24AUG12	1.6727	0.0905	5.4
860400_12_LBCLYNII	60	29AUG12	12NOV12	1.7767	0.0789	4.4
869600_12_LBCLYNII	49	29AUG12	30SEP12	1.7857	0.0764	4.3
869700_12_LBCLYNII	31	01SEP12	19SEP12	1.6839	0.0735	4.4
869800_12_LBCLYNII	27	18SEP12	08OCT12	1.6926	0.0781	4.6
860200_12_LBCLYNII	46	30SEP12	02NOV12	1.7174	0.0739	4.3
1.4293E8_12_LBCLYNII	64	08OCT12	12NOV12	2.5469	0.0872	3.4
860800_12_LBCLYNII	52	14NOV12	12DEC12	1.7635	0.0658	3.7
1.4296E8_12_LBCLYNII	44	18NOV12	19DEC12	2.7500	0.0699	2.5
861000_12_LBCLYNII	7	12DEC12	16DEC12	1.6857	0.0690	4.1
1.4297E8_13_LBCLYNII	32	04JAN13	20JAN13	2.7813	0.1306	4.7
1.4296E8_13_LBCLYNII	9	12JAN13	13JAN13	2.8222	0.0441	1.6


2011-2012 Lymphocyte No.(10^3 cells/uL) (Abn ll) Quality Control
3.0
2.5
2.0
1.5
Jan
2011
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2012
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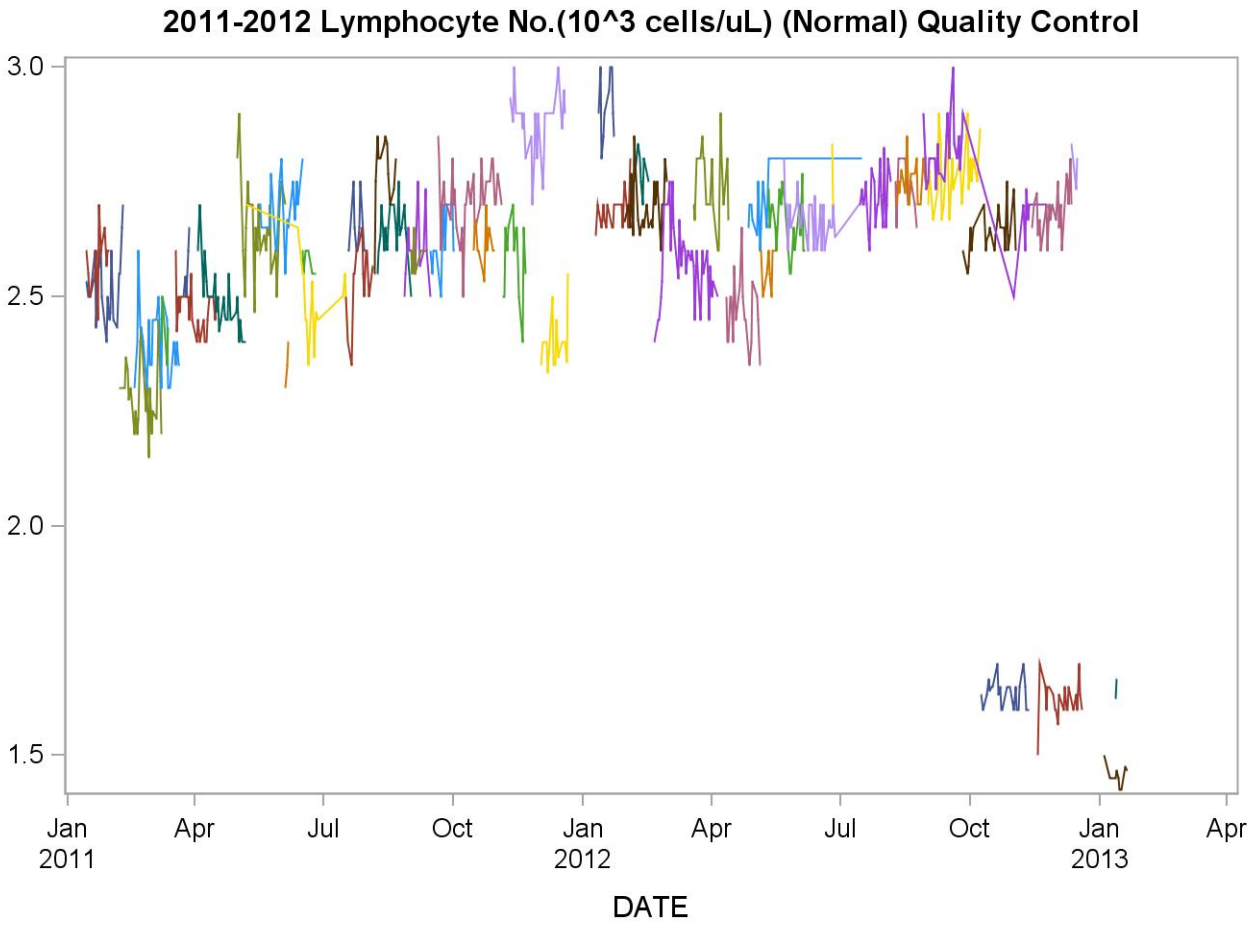
2013
Apr
DATE

Summary Statistics for Lymphocyte No.(10^3 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCLYNN	50	14JAN11	09FEB11	2.5180	0.1101	4.4
889900_11_LBCLYNN	24	14JAN11	30JAN11	2.5750	0.0794	3.1
880200_11_LBCLYNN	59	06FEB11	08MAR11	2.2932	0.1127	4.9
880500_11_LBCLYNN	49	17FEB11	21MAR11	2.4000	0.1155	4.8
880700_11_LBCLYNN	9	08MAR11	13MAR11	2.4222	0.0972	4.0
881100_11_LBCLYNN	48	18MAR11	16APR11	2.4667	0.0859	3.5
881000_11_LBCLYNN	19	24MAR11	28MAR11	2.5526	0.0772	3.0
881300_11_LBCLYNN	64	03APR11	07MAY11	2.4844	0.0946	3.8
881700_11_LBCLYNN	47	01MAY11	04JUN11	2.6340	0.1109	4.2
882600_11_LBCLYNN	35	07MAY11	18JUL11	2.4857	0.1033	4.2
881800_11_LBCLYNN	44	16MAY11	16JUN11	2.6818	0.0922	3.4
882100_11_LBCLYNN	5	04JUN11	06JUN11	2.3600	0.1342	5.7
882200_11_LBCLYNN	19	16JUN11	26JUN11	2.5737	0.0872	3.4
883300_11_LBCLYNN	27	17JUL11	05AUG11	2.5519	0.0975	3.8
883200_11_LBCLYNN	19	18JUL11	31JUL11	2.6421	0.0838	3.2
884000_11_LBCLYNN	27	06AUG11	21AUG11	2.7741	0.1095	3.9
883700_11_LBCLYNN	39	08AUG11	01SEP11	2.6410	0.0880	3.3
884100_11_LBCLYNN	28	27AUG11	15SEP11	2.6143	0.0932	3.6
884300_11_LBCLYNN	18	01SEP11	12SEP11	2.5889	0.0758	2.9
884600_11_LBCLYNN	25	15SEP11	02OCT11	2.6200	0.0816	3.1
884700_11_LBCLYNN	79	20SEP11	04NOV11	2.7127	0.0897	3.3
885100_11_LBCLYNN	24	15OCT11	30OCT11	2.6083	0.0717	2.7
885200_11_LBCLYNN	26	05NOV11	21NOV11	2.5846	0.1120	4.3
885600_11_LBCLYNN	67	10NOV11	19DEC11	2.8746	0.0927	3.2
885900_11_LBCLYNN	40	02DEC11	21DEC11	2.3900	0.0744	3.1
886600_12_LBCLYNN	36	10JAN12	03FEB12	2.6778	0.0797	3.0
886300_12_LBCLYNN	23	12JAN12	23JAN12	2.9130	0.1014	3.5
886900_12_LBCLYNN	60	30JAN12	29FEB12	2.6850	0.0860	3.2
886700_12_LBCLYNN	21	03FEB12	16FEB12	2.7571	0.0676	2.5
887400_12_LBCLYNN	93	20FEB12	05APR12	2.5731	0.1034	4.0
887800_12_LBCLYNN	34	19MAR12	13APR12	2.7324	0.1121	4.1
888200_12_LBCLYNN	46	11APR12	05MAY12	2.4761	0.0993	4.0
888100_12_LBCLYNN	30	27APR12	16JUL12	2.6833	0.0950	3.5
888500_12_LBCLYNN	18	05MAY12	17MAY12	2.5667	0.0686	2.7
888700_12_LBCLYNN	39	11MAY12	06JUN12	2.6718	0.0944	3.5
889000_12_LBCLYNN	79	22MAY12	14JUL12	2.6671	0.0858	3.2
889500_12_LBCLYNN	5	25JUN12	26JUN12	2.7800	0.0837	3.0
880100_12_LBCLYNN	76	14JUL12	06AUG12	2.7237	0.1031	3.8
880500_12_LBCLYNN	20	09AUG12	24AUG12	2.7300	0.0979	3.6
880600_12_LBCLYNN	43	10AUG12	01SEP12	2.7465	0.0702	2.6
880700_12_LBCLYNN	50	29AUG12	26SEP12	2.8080	0.0986	3.5
881500_12_LBCLYNN	66	29AUG12	24NOV12	2.7758	0.1096	3.9
880900_12_LBCLYNN	62	01SEP12	08OCT12	2.7645	0.1132	4.1
881300_12_LBCLYNN	57	26SEP12	02NOV12	2.6351	0.0744	2.8
1.2293E8_12_LBCLYNN	60	09OCT12	12NOV12	1.6333	0.0475	2.9
882000_12_LBCLYNN	48	14NOV12	12DEC12	2.6875	0.0789	2.9
1.2296E8_12_LBCLYNN	51	18NOV12	19DEC12	1.6196	0.0491	3.0
882200_12_LBCLYNN	8	12DEC12	16DEC12	2.7875	0.0641	2.3
1.2297E8_13_LBCLYNN	32	04JAN13	20JAN13	1.4531	0.0507	3.5
1.2296E8_13_LBCLYNN	11	12JAN13	13JAN13	1.6364	0.0505	3.1


2011-2012 Lymphocyte No.(10^3 cells/uL) (Normal) Quality Control
3.0
2.5
2.0
1.5
Jan
2011
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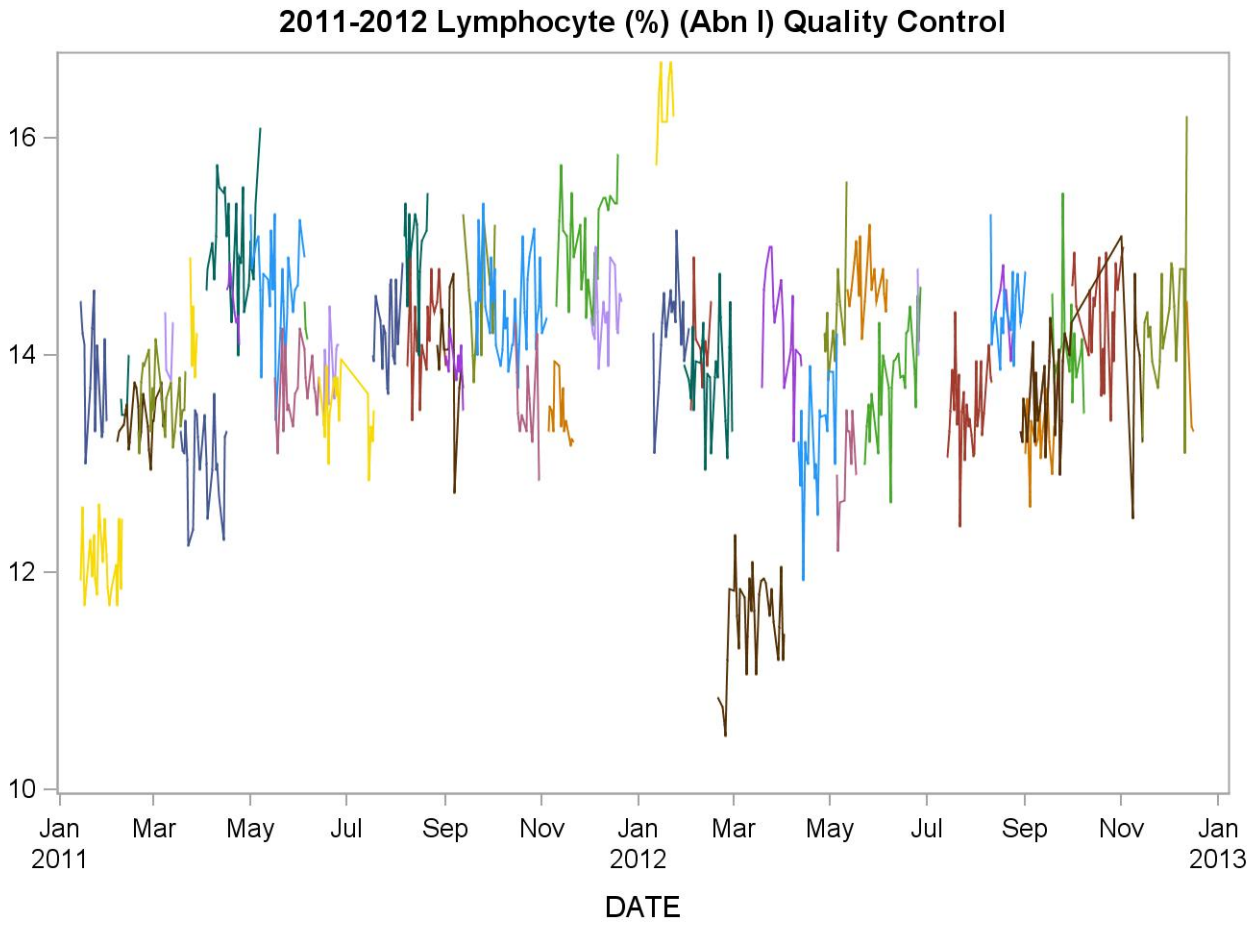
2013
Apr
DATE

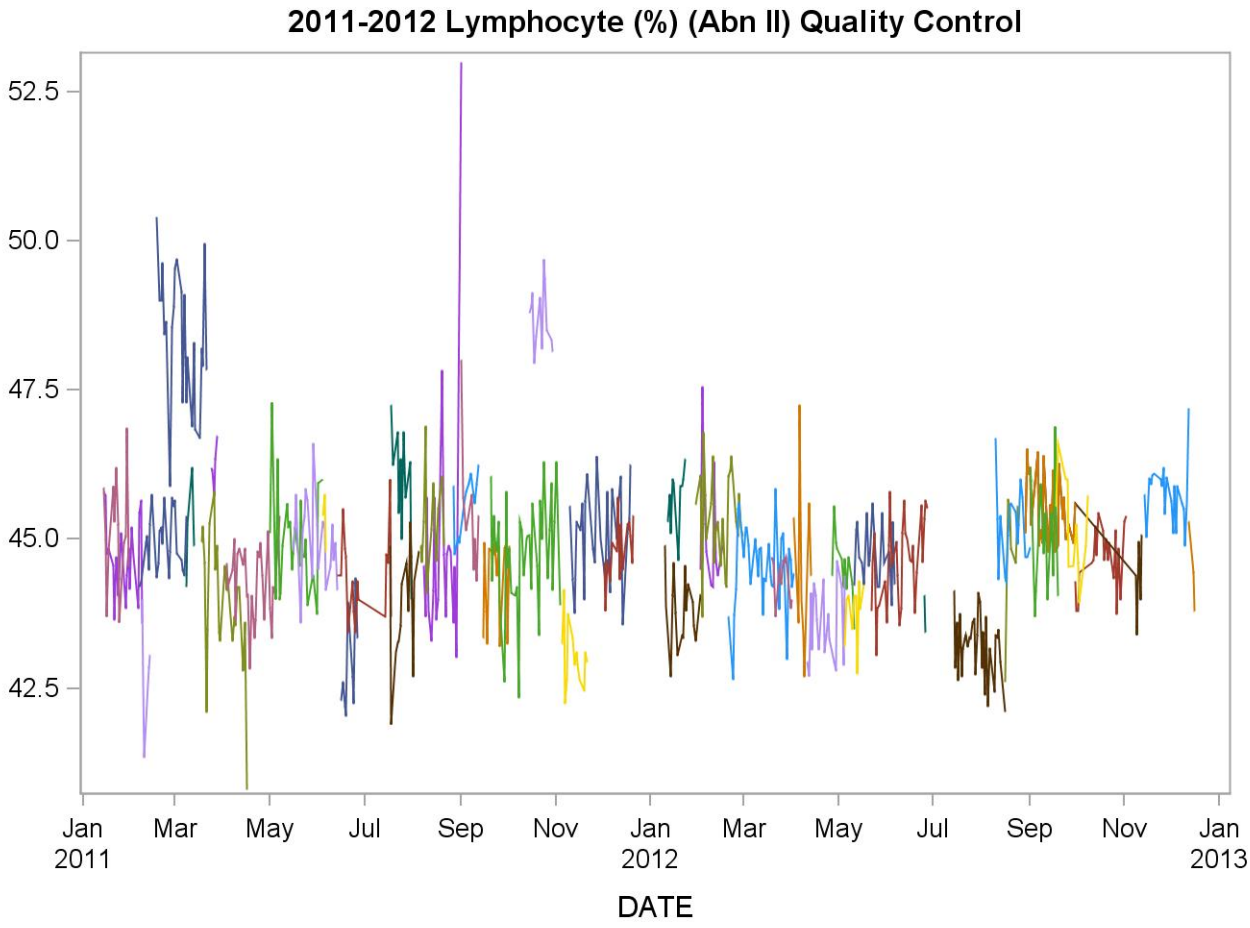
Summary Statistics for Lymphocyte (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCLYPI	25	14JAN11	30JAN11	13.8360	0.6350	4.6
879800_11_LBCLYPI	48	14JAN11	09FEB11	12.0896	0.5368	4.4
870300_11_LBCLYPI	47	06FEB11	08MAR11	13.4064	0.3553	2.7
870200_11_LBCLYPI	7	08FEB11	13FEB11	13.6286	0.5155	3.8
870500_11_LBCLYPI	48	19FEB11	21MAR11	13.6042	0.3876	2.8
870900_11_LBCLYPI	9	08MAR11	13MAR11	13.9889	0.4676	3.3
871200_11_LBCLYPI	49	18MAR11	16APR11	13.0551	0.5099	3.9
871100_11_LBCLYPI	10	24MAR11	28MAR11	14.1400	0.5621	4.0
871400_11_LBCLYPI	47	03APR11	07MAY11	15.0319	0.6270	4.2
871500_11_LBCLYPI	14	16APR11	24APR11	14.4643	0.4272	3.0
871900_11_LBCLYPI	44	01MAY11	04JUN11	14.6932	0.6421	4.4
872000_11_LBCLYPI	42	16MAY11	13JUN11	13.6952	0.4768	3.5
872200_11_LBCLYPI	5	04JUN11	06JUN11	14.2600	0.3912	2.7
872600_11_LBCLYPI	34	13JUN11	18JUL11	13.5235	0.4924	3.6
872400_11_LBCLYPI	18	16JUN11	26JUN11	13.8889	0.5697	4.1
873200_11_LBCLYPI	43	17JUL11	05AUG11	14.2023	0.6394	4.5
873700_11_LBCLYPI	25	06AUG11	21AUG11	14.9880	0.6809	4.5
873600_11_LBCLYPI	39	08AUG11	01SEP11	14.2667	0.4624	3.2
873900_11_LBCLYPI	28	27AUG11	12SEP11	13.9821	0.7746	5.5
874100_11_LBCLYPI	17	01SEP11	12SEP11	13.8941	0.4322	3.1
874400_11_LBCLYPI	26	12SEP11	02OCT11	14.5192	0.5713	3.9
874500_11_LBCLYPI	79	20SEP11	04NOV11	14.4709	0.6183	4.3
874900_11_LBCLYPI	26	15OCT11	30OCT11	13.5077	0.5858	4.3
875000_11_LBCLYPI	29	05NOV11	21NOV11	13.4345	0.4577	3.4
875400_11_LBCLYPI	66	10NOV11	19DEC11	15.0848	0.6281	4.2
875700_11_LBCLYPI	37	02DEC11	21DEC11	14.3892	0.5337	3.7
876500_12_LBCLYPI	33	10JAN12	02FEB12	14.2970	0.6003	4.2
876100_12_LBCLYPI	21	12JAN12	23JAN12	16.3143	0.3623	2.2
876800_12_LBCLYPI	60	30JAN12	29FEB12	13.8383	0.6442	4.7
876600_12_LBCLYPI	22	03FEB12	16FEB12	14.0864	0.5514	3.9
877300_12_LBCLYPI	92	20FEB12	02APR12	11.5565	0.6714	5.8
877800_12_LBCLYPI	29	19MAR12	13APR12	14.2241	0.6139	4.3
878200_12_LBCLYPI	44	11APR12	05MAY12	13.1705	0.7151	5.4
878100_12_LBCLYPI	25	27APR12	11MAY12	14.2960	0.6174	4.3
878500_12_LBCLYPI	19	05MAY12	17MAY12	13.0105	0.4701	3.6
878600_12_LBCLYPI	37	11MAY12	06JUN12	14.6838	0.4457	3.0
879000_12_LBCLYPI	74	22MAY12	27JUN12	13.8574	0.6291	4.5
879300_12_LBCLYPI	4	25JUN12	26JUN12	14.4000	0.5164	3.6
870000_12_LBCLYPI	81	14JUL12	11AUG12	13.4525	0.6297	4.7
870500_12_LBCLYPI	43	10AUG12	01SEP12	14.4186	0.5641	3.9
870400_12_LBCLYPI	15	12AUG12	24AUG12	14.4600	0.4485	3.1
870600_12_LBCLYPI	54	29AUG12	30SEP12	13.6537	0.6386	4.7
871400_12_LBCLYPI	71	29AUG12	14NOV12	13.7493	0.7018	5.1
870700_12_LBCLYPI	32	01SEP12	19SEP12	13.3063	0.3999	3.0
870800_12_LBCLYPI	29	18SEP12	08OCT12	14.0759	0.6401	4.5
871200_12_LBCLYPI	48	30SEP12	02NOV12	14.3625	0.6991	4.9
871800_12_LBCLYPI	49	14NOV12	12DEC12	14.3041	0.6519	4.6
872000_12_LBCLYPI	7	12DEC12	16DEC12	13.8286	0.6525	4.7


2011-2012 Lymphocyte (%) (Abn I) Quality Control
16
14
12
10
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

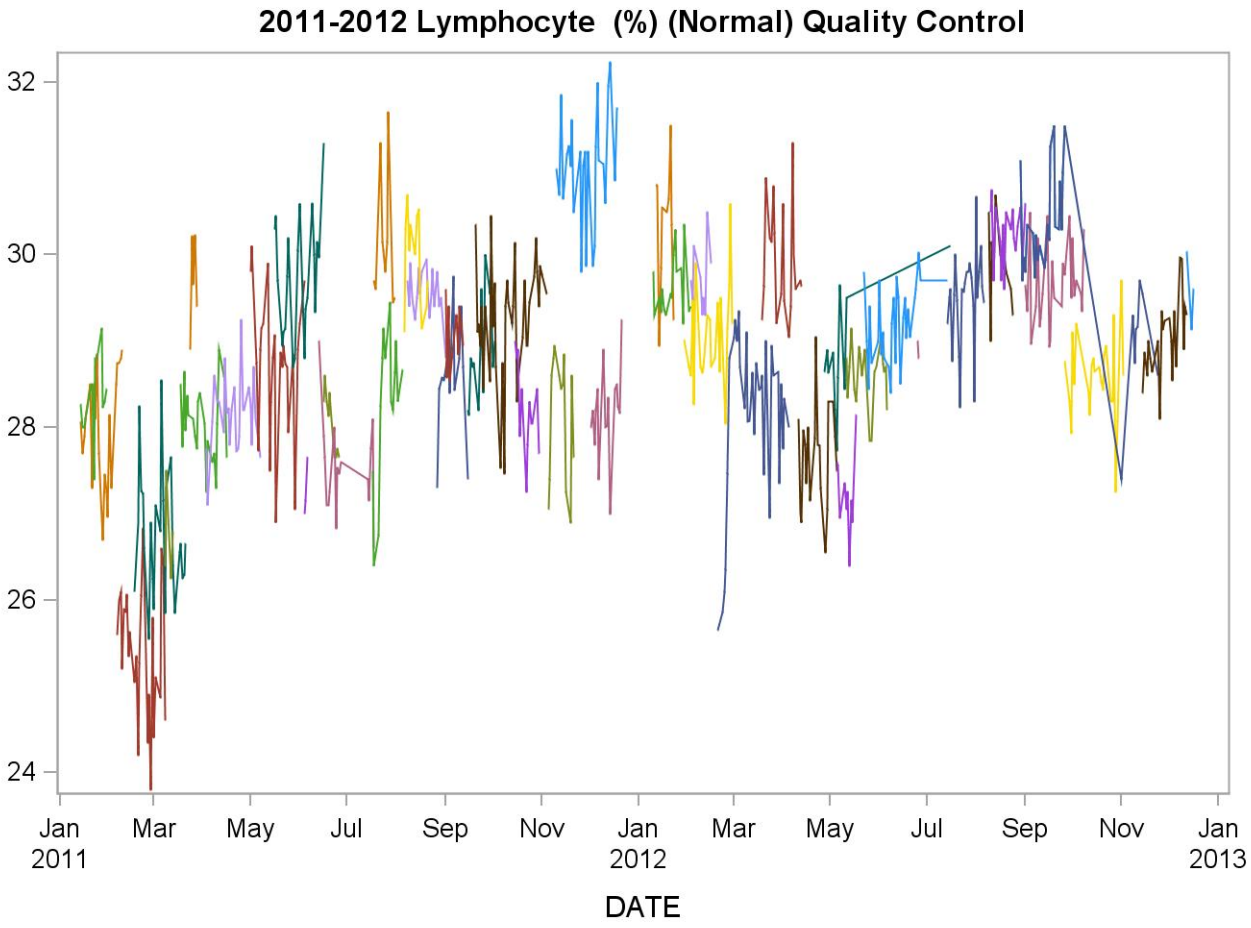
Summary Statistics for Lymphocyte (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCLYPII	43	14JAN11	08FEB11	44.6860	0.9877	2.2
869600_11_LBCLYPII	32	14JAN11	30JAN11	45.4906	1.1229	2.5
869900_11_LBCLYPII	48	06FEB11	08MAR11	44.9438	0.9331	2.1
869800_11_LBCLYPII	7	08FEB11	13FEB11	42.6429	1.1326	2.7
860100_11_LBCLYPII	53	17FEB11	21MAR11	48.3868	1.3378	2.8
860400_11_LBCLYPII	7	08MAR11	13MAR11	45.2714	1.0719	2.4
860700_11_LBCLYPII	49	18MAR11	16APR11	44.0571	1.2800	2.9
860600_11_LBCLYPII	11	24MAR11	28MAR11	46.2364	0.8127	1.8
860900_11_LBCLYPII	59	03APR11	07MAY11	44.2169	1.0043	2.3
861300_11_LBCLYPII	44	01MAY11	04JUN11	44.8727	0.9234	2.1
861400_11_LBCLYPII	42	16MAY11	13JUN11	45.0310	1.0866	2.4
861700_11_LBCLYPII	5	04JUN11	06JUN11	45.3000	0.7106	1.6
862100_11_LBCLYPII	31	13JUN11	18JUL11	44.3194	0.9397	2.1
861900_11_LBCLYPII	18	16JUN11	26JUN11	42.8611	0.9549	2.2
862800_11_LBCLYPII	25	17JUL11	05AUG11	43.8080	1.0476	2.4
862700_11_LBCLYPII	19	18JUL11	31JUL11	46.0947	1.0108	2.2
863200_11_LBCLYPII	27	06AUG11	21AUG11	45.1667	1.6722	3.7
863100_11_LBCLYPII	40	08AUG11	01SEP11	44.7250	2.1301	4.8
863400_11_LBCLYPII	24	27AUG11	12SEP11	45.6125	0.6752	1.5
863500_11_LBCLYPII	17	01SEP11	12SEP11	45.5471	1.8011	4.0
863800_11_LBCLYPII	25	15SEP11	02OCT11	44.3080	1.0328	2.3
863900_11_LBCLYPII	75	20SEP11	04NOV11	44.8267	1.2541	2.8
864300_11_LBCLYPII	23	15OCT11	30OCT11	48.6783	0.6381	1.3
864400_11_LBCLYPII	27	05NOV11	21NOV11	43.0148	0.8379	1.9
864800_11_LBCLYPII	50	10NOV11	19DEC11	45.0280	1.0280	2.3
865000_11_LBCLYPII	36	02DEC11	21DEC11	44.8111	0.7953	1.8
865800_12_LBCLYPII	32	10JAN12	02FEB12	43.8281	0.8696	2.0
865500_12_LBCLYPII	20	12JAN12	23JAN12	45.6900	0.7993	1.7
866100_12_LBCLYPII	57	30JAN12	29FEB12	45.3807	1.0967	2.4
865900_12_LBCLYPII	23	02FEB12	16FEB12	45.2130	1.2704	2.8
866500_12_LBCLYPII	91	20FEB12	02APR12	44.5385	0.9388	2.1
866900_12_LBCLYPII	15	19MAR12	01APR12	44.3667	0.7098	1.6
867000_12_LBCLYPII	15	02APR12	13APR12	44.7067	1.7483	3.9
867300_12_LBCLYPII	43	11APR12	05MAY12	43.6233	0.9456	2.2
867100_12_LBCLYPII	26	27APR12	11MAY12	44.6500	0.8543	1.9
867500_12_LBCLYPII	20	05MAY12	17MAY12	43.8200	0.7076	1.6
867800_12_LBCLYPII	38	11MAY12	06JUN12	44.7026	0.7313	1.6
868100_12_LBCLYPII	73	22MAY12	27JUN12	44.7260	1.0090	2.3
868300_12_LBCLYPII	4	25JUN12	26JUN12	43.7500	0.5802	1.3
869000_12_LBCLYPII	83	14JUL12	16AUG12	43.2590	0.8091	1.9
869500_12_LBCLYPII	40	10AUG12	01SEP12	45.1725	0.8440	1.9
869400_12_LBCLYPII	11	16AUG12	24AUG12	45.0091	0.9721	2.2
860400_12_LBCLYPII	59	29AUG12	12NOV12	45.3542	0.8685	1.9
869600_12_LBCLYPII	49	29AUG12	30SEP12	45.5102	0.8060	1.8
869700_12_LBCLYPII	31	01SEP12	19SEP12	45.1452	1.1245	2.5
869800_12_LBCLYPII	27	18SEP12	08OCT12	45.0407	0.8054	1.8
860200_12_LBCLYPII	46	30SEP12	02NOV12	44.7087	0.7731	1.7
860800_12_LBCLYPII	52	14NOV12	12DEC12	45.7442	0.9654	2.1
861000_12_LBCLYPII	7	12DEC12	16DEC12	44.6286	0.8920	2.0


2011-2012 Lymphocyte (%) (Abn II) Quality Control
52.5
50.0
47.5
45.0
42.5
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

Summary Statistics for Lymphocyte (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCLYPN	49	14JAN11	09FEB11	27.9776	1.0806	3.9
889900_11_LBCLYPN	24	14JAN11	30JAN11	28.3208	0.5610	2.0
880200_11_LBCLYPN	59	06FEB11	08MAR11	25.4661	1.1059	4.3
880500_11_LBCLYPN	49	17FEB11	21MAR11	26.7735	1.1383	4.3
880700_11_LBCLYPN	9	08MAR11	13MAR11	26.7444	1.1403	4.3
881100_11_LBCLYPN	48	18MAR11	16APR11	28.0208	0.6706	2.4
881000_11_LBCLYPN	19	24MAR11	28MAR11	29.9158	0.8207	2.7
881300_11_LBCLYPN	63	03APR11	07MAY11	28.1508	0.7286	2.6
881700_11_LBCLYPN	47	01MAY11	04JUN11	28.6426	0.9348	3.3
881800_11_LBCLYPN	44	16MAY11	16JUN11	29.6864	0.8807	3.0
882100_11_LBCLYPN	5	04JUN11	06JUN11	27.3200	1.3989	5.1
882600_11_LBCLYPN	34	13JUN11	18JUL11	27.5294	0.8412	3.1
882200_11_LBCLYPN	19	16JUN11	26JUN11	28.0526	0.5976	2.1
883300_11_LBCLYPN	27	17JUL11	05AUG11	28.4481	0.9146	3.2
883200_11_LBCLYPN	19	18JUL11	31JUL11	30.1579	0.8790	2.9
884000_11_LBCLYPN	26	06AUG11	21AUG11	29.9769	0.7727	2.6
883700_11_LBCLYPN	39	08AUG11	01SEP11	29.5821	0.5960	2.0
884100_11_LBCLYPN	28	27AUG11	15SEP11	28.6821	0.7389	2.6
884300_11_LBCLYPN	18	01SEP11	12SEP11	29.0000	0.6136	2.1
884600_11_LBCLYPN	25	15SEP11	02OCT11	28.9360	0.7399	2.6
884700_11_LBCLYPN	80	20SEP11	04NOV11	29.2350	0.8645	3.0
885100_11_LBCLYPN	24	15OCT11	30OCT11	28.1958	0.6266	2.2
885200_11_LBCLYPN	26	05NOV11	21NOV11	28.1231	0.8520	3.0
885600_11_LBCLYPN	67	10NOV11	19DEC11	31.0045	0.7957	2.6
885900_11_LBCLYPN	39	02DEC11	21DEC11	28.1538	0.6240	2.2
886600_12_LBCLYPN	36	10JAN12	03FEB12	29.5972	0.5794	2.0
886300_12_LBCLYPN	23	12JAN12	23JAN12	30.3870	0.8336	2.7
886900_12_LBCLYPN	60	30JAN12	29FEB12	29.0017	0.6424	2.2
886700_12_LBCLYPN	21	03FEB12	16FEB12	29.7571	0.5582	1.9
887400_12_LBCLYPN	94	20FEB12	05APR12	28.1532	1.1307	4.0
887800_12_LBCLYPN	34	19MAR12	13APR12	29.8588	0.9798	3.3
888200_12_LBCLYPN	46	11APR12	05MAY12	27.7413	0.7681	2.8
888100_12_LBCLYPN	30	27APR12	16JUL12	28.7400	0.9276	3.2
888500_12_LBCLYPN	18	05MAY12	17MAY12	27.2333	0.7616	2.8
888700_12_LBCLYPN	38	11MAY12	06JUN12	28.6237	0.6487	2.3
889000_12_LBCLYPN	79	22MAY12	14JUL12	29.3177	0.7269	2.5
889500_12_LBCLYPN	5	25JUN12	26JUN12	28.9200	0.6140	2.1
880100_12_LBCLYPN	76	14JUL12	06AUG12	29.5184	0.9250	3.1
880500_12_LBCLYPN	20	09AUG12	24AUG12	29.8300	0.6814	2.3
880600_12_LBCLYPN	45	10AUG12	01SEP12	30.2156	0.7379	2.4
880700_12_LBCLYPN	50	29AUG12	26SEP12	30.2780	0.7867	2.6
881500_12_LBCLYPN	66	29AUG12	24NOV12	29.9970	0.9162	3.1
880900_12_LBCLYPN	62	01SEP12	08OCT12	29.6258	0.7735	2.6
881300_12_LBCLYPN	58	26SEP12	02NOV12	28.5897	0.6436	2.3
882000_12_LBCLYPN	48	14NOV12	12DEC12	29.0250	0.6846	2.4
882200_12_LBCLYPN	8	12DEC12	16DEC12	29.5875	0.5515	1.9


2011-2012 Lymphocyte (%) (Normal) Quality Control
32
30
28
26
24
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
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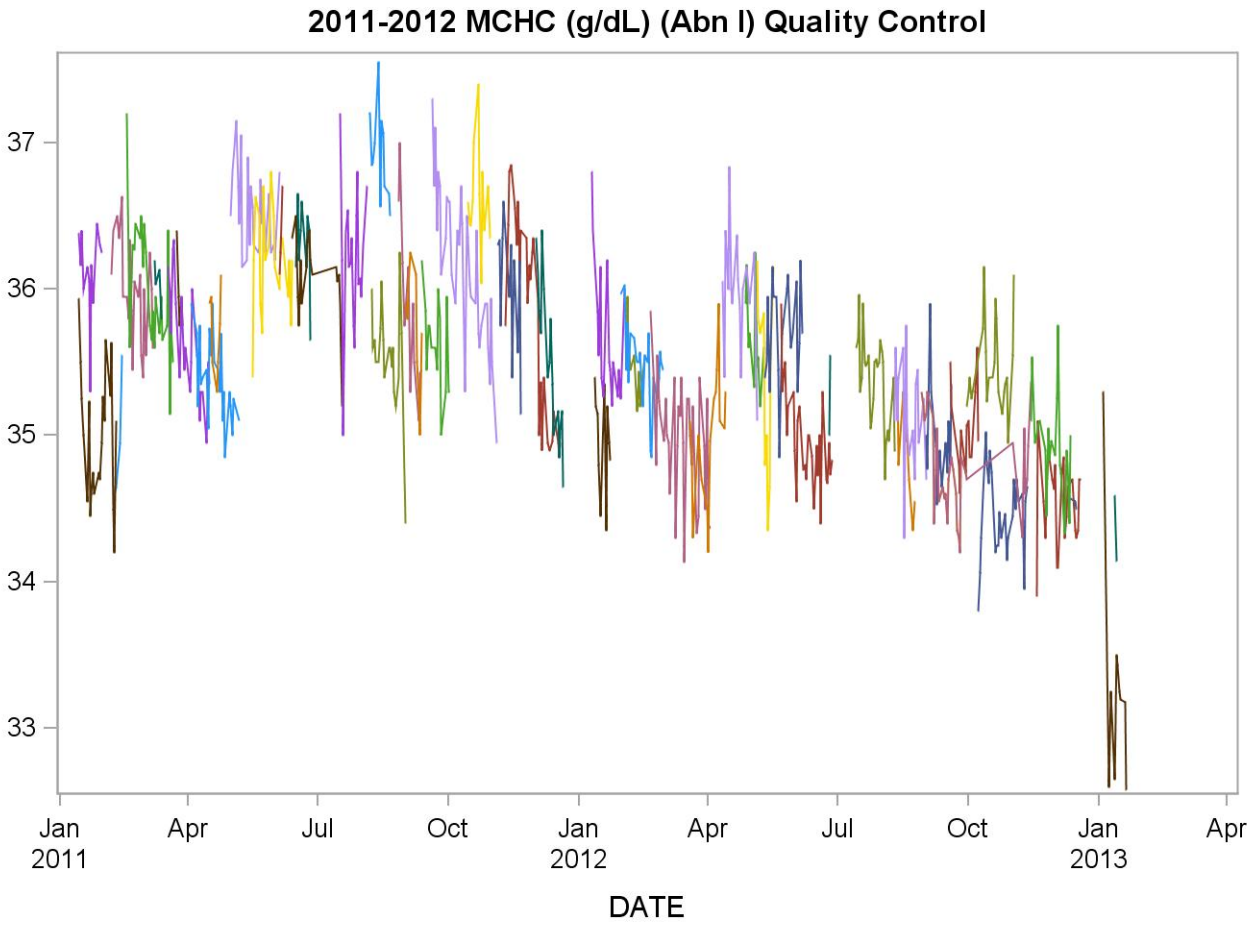
May
Jul
Sep
Nov
Jan
2013
DATE

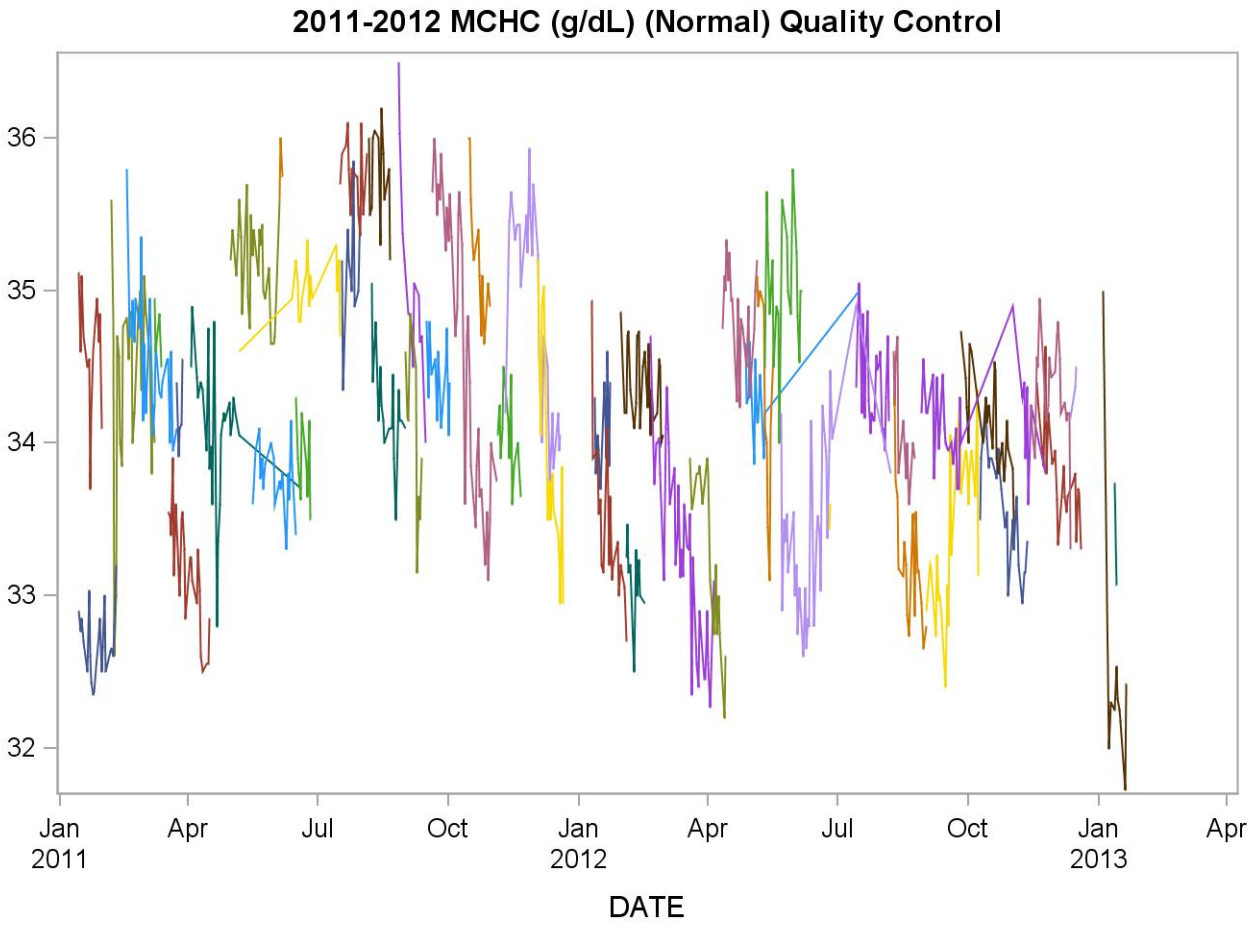
Summary Statistics for MCHC (g/dL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCMCHCI	25	14JAN11	30JAN11	36.1940	0.3652	1.0
879800_11_LBCMCHCI	49	14JAN11	09FEB11	35.0347	0.5725	1.6
870300_11_LBCMCHCI	47	06FEB11	08MAR11	36.0234	0.5147	1.4
870200_11_LBCMCHCI	7	08FEB11	13FEB11	34.9857	0.4598	1.3
870500_11_LBCMCHCI	49	17FEB11	21MAR11	36.0041	0.5287	1.5
870900_11_LBCMCHCI	9	08MAR11	13MAR11	36.0333	0.2958	0.8
871200_11_LBCMCHCI	49	18MAR11	16APR11	35.6714	0.4916	1.4
871100_11_LBCMCHCI	10	24MAR11	28MAR11	35.9100	0.5527	1.5
871400_11_LBCMCHCI	46	03APR11	07MAY11	35.4000	0.3870	1.1
871500_11_LBCMCHCI	14	16APR11	24APR11	35.6643	0.3478	1.0
871900_11_LBCMCHCI	46	01MAY11	04JUN11	36.5196	0.4031	1.1
872000_11_LBCMCHCI	42	16MAY11	13JUN11	36.2190	0.4215	1.2
872200_11_LBCMCHCI	5	04JUN11	06JUN11	36.4000	0.5657	1.6
872600_11_LBCMCHCI	34	13JUN11	18JUL11	36.1265	0.3895	1.1
872400_11_LBCMCHCI	18	16JUN11	26JUN11	36.3000	0.3548	1.0
873200_11_LBCMCHCI	43	17JUL11	05AUG11	36.2023	0.6014	1.7
873700_11_LBCMCHCI	26	06AUG11	21AUG11	36.9462	0.3733	1.0
873600_11_LBCMCHCI	38	08AUG11	01SEP11	35.6026	0.3859	1.1
873900_11_LBCMCHCI	28	27AUG11	12SEP11	35.8250	0.6507	1.8
874100_11_LBCMCHCI	17	01SEP11	12SEP11	35.7765	0.4206	1.2
874400_11_LBCMCHCI	26	12SEP11	02OCT11	35.6269	0.4065	1.1
874500_11_LBCMCHCI	80	20SEP11	04NOV11	36.2100	0.6245	1.7
874900_11_LBCMCHCI	27	15OCT11	30OCT11	36.5481	0.4644	1.3
875000_11_LBCMCHCI	29	05NOV11	21NOV11	36.0138	0.5019	1.4
875400_11_LBCMCHCI	66	10NOV11	19DEC11	35.8515	0.7424	2.1
875700_11_LBCMCHCI	37	02DEC11	21DEC11	35.5270	0.6077	1.7
876500_12_LBCMCHCI	34	10JAN12	02FEB12	35.6529	0.6224	1.7
876100_12_LBCMCHCI	22	12JAN12	23JAN12	34.9545	0.4554	1.3
876800_12_LBCMCHCI	59	30JAN12	29FEB12	35.5525	0.4187	1.2
876600_12_LBCMCHCI	21	03FEB12	16FEB12	35.4667	0.3651	1.0
877300_12_LBCMCHCI	92	20FEB12	02APR12	34.9870	0.6159	1.8
877800_12_LBCMCHCI	29	19MAR12	13APR12	35.0172	0.4368	1.2
878200_12_LBCMCHCI	44	11APR12	05MAY12	36.0205	0.5192	1.4
878100_12_LBCMCHCI	25	27APR12	11MAY12	35.6680	0.5336	1.5
878500_12_LBCMCHCI	19	05MAY12	17MAY12	35.3368	0.6710	1.9
878600_12_LBCMCHCI	37	11MAY12	06JUN12	35.6892	0.4162	1.2
879000_12_LBCMCHCI	74	22MAY12	27JUN12	34.9081	0.4595	1.3
879300_12_LBCMCHCI	4	25JUN12	26JUN12	35.2750	0.6652	1.9
870000_12_LBCMCHCI	83	14JUL12	11AUG12	35.3934	0.4338	1.2
870500_12_LBCMCHCI	43	10AUG12	01SEP12	35.1140	0.7140	2.0
870400_12_LBCMCHCI	15	12AUG12	24AUG12	34.8467	0.4307	1.2
870600_12_LBCMCHCI	54	29AUG12	30SEP12	34.7667	0.3943	1.1
871400_12_LBCMCHCI	71	29AUG12	14NOV12	34.7958	0.4138	1.2
870700_12_LBCMCHCI	32	01SEP12	19SEP12	34.9406	0.5852	1.7
870800_12_LBCMCHCI	29	18SEP12	08OCT12	35.0897	0.4321	1.2
871200_12_LBCMCHCI	48	30SEP12	02NOV12	35.4750	0.4573	1.3
1.3293E8_12_LBCMCHCI	68	08OCT12	12NOV12	34.5074	0.4233	1.2
871800_12_LBCMCHCI	49	14NOV12	12DEC12	34.9551	0.4359	1.2
1.3296E8_12_LBCMCHCI	46	18NOV12	19DEC12	34.5304	0.3932	1.1
872000_12_LBCMCHCI	7	12DEC12	16DEC12	34.5429	0.2878	0.8
1.3297E8_13_LBCMCHCI	32	04JAN13	20JAN13	33.2250	0.8160	2.5
1.3296E8_13_LBCMCHCI	13	12JAN13	13JAN13	34.4154	0.9209	2.7


2011-2012 MCHC (g/dL) (Abn l) Quality Control
37
36
35
34
33
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

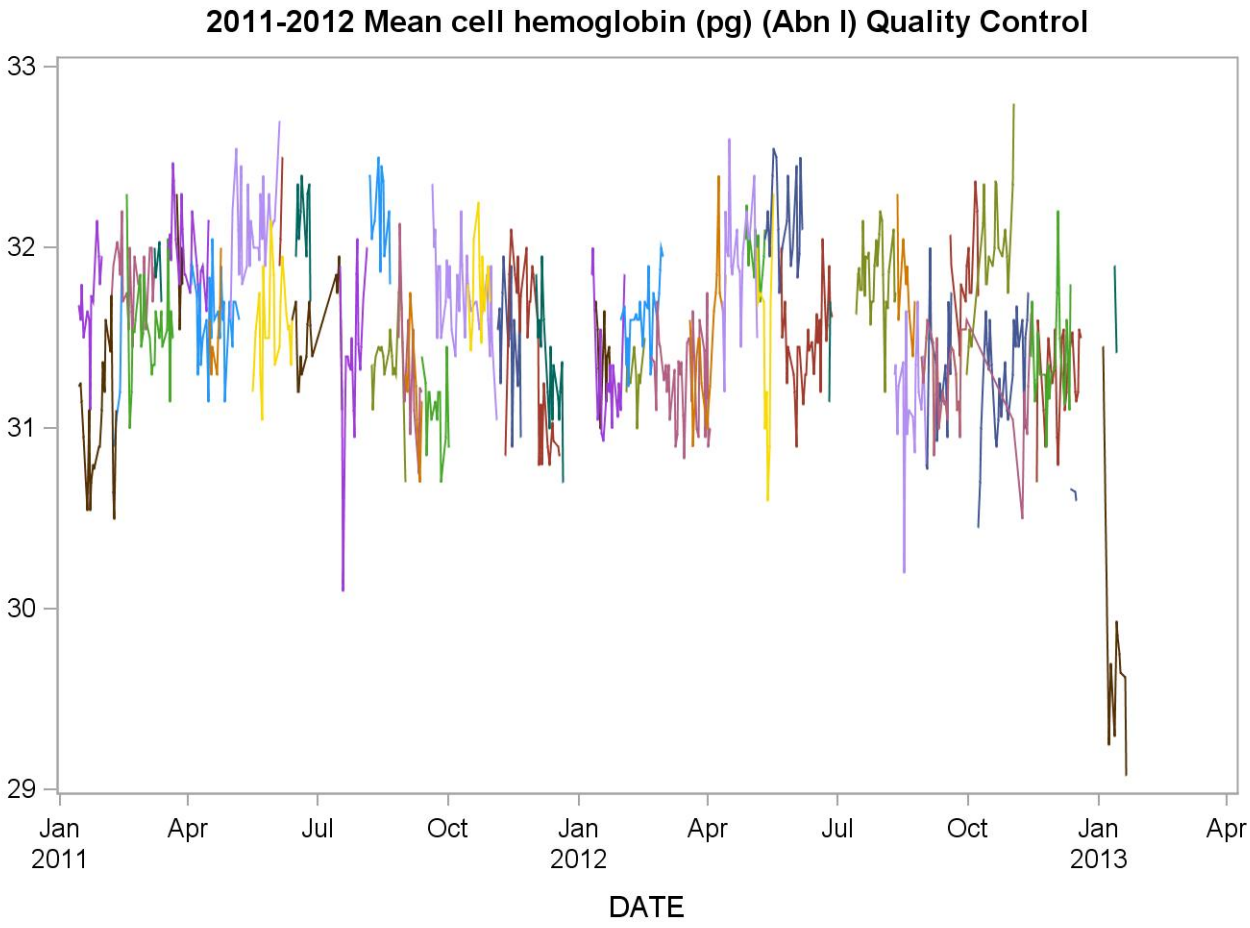
Summary Statistics for MCHC (g/dL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCMCHCN	50	14JAN11	09FEB11	32.6820	0.3668	1.1
889900_11_LBCMCHCN	26	14JAN11	30JAN11	34.6423	0.5368	1.5
880200_11_LBCMCHCN	59	06FEB11	08MAR11	34.3814	0.8657	2.5
880500_11_LBCMCHCN	51	17FEB11	24MAR11	34.5412	0.5115	1.5
880700_11_LBCMCHCN	9	08MAR11	13MAR11	34.7000	0.3391	1.0
881100_11_LBCMCHCN	48	18MAR11	16APR11	33.1896	0.4454	1.3
881000_11_LBCMCHCN	19	24MAR11	28MAR11	34.1000	0.4282	1.3
881300_11_LBCMCHCN	65	03APR11	20JUN11	34.0262	0.6546	1.9
881700_11_LBCMCHCN	48	01MAY11	04JUN11	35.1625	0.4671	1.3
882600_11_LBCMCHCN	35	07MAY11	17JUL11	35.0286	0.3691	1.1
881800_11_LBCMCHCN	44	16MAY11	16JUN11	33.8091	0.3116	0.9
882100_11_LBCMCHCN	5	04JUN11	06JUN11	35.8200	0.4324	1.2
882200_11_LBCMCHCN	19	16JUN11	26JUN11	33.8737	0.4445	1.3
883300_11_LBCMCHCN	26	17JUL11	05AUG11	35.7538	0.3289	0.9
883200_11_LBCMCHCN	19	18JUL11	31JUL11	35.1526	0.4501	1.3
884000_11_LBCMCHCN	27	06AUG11	21AUG11	35.8111	0.4145	1.2
883700_11_LBCMCHCN	40	08AUG11	01SEP11	34.2525	0.3916	1.1
884100_11_LBCMCHCN	30	27AUG11	15SEP11	35.0700	0.6309	1.8
884300_11_LBCMCHCN	18	01SEP11	12SEP11	34.0667	0.5434	1.6
884600_11_LBCMCHCN	25	15SEP11	02OCT11	34.4840	0.3145	0.9
884700_11_LBCMCHCN	80	20SEP11	04NOV11	34.6975	0.9601	2.8
885100_11_LBCMCHCN	24	15OCT11	30OCT11	35.2500	0.4709	1.3
885200_11_LBCMCHCN	26	05NOV11	21NOV11	34.0115	0.3788	1.1
885600_11_LBCMCHCN	68	10NOV11	19DEC11	34.9250	0.7278	2.1
885900_11_LBCMCHCN	40	02DEC11	21DEC11	33.9175	0.7722	2.3
886600_12_LBCMCHCN	36	10JAN12	03FEB12	33.5139	0.6749	2.0
886300_12_LBCMCHCN	23	12JAN12	23JAN12	34.1217	0.3861	1.1
886900_12_LBCMCHCN	60	30JAN12	29FEB12	34.4317	0.4447	1.3
886700_12_LBCMCHCN	22	03FEB12	16FEB12	33.0909	0.4116	1.2
887400_12_LBCMCHCN	94	20FEB12	05APR12	33.3585	0.7026	2.1
887800_12_LBCMCHCN	34	19MAR12	13APR12	33.2706	0.6113	1.8
888200_12_LBCMCHCN	47	11APR12	05MAY12	34.8021	0.4183	1.2
888100_12_LBCMCHCN	30	27APR12	16JUL12	34.3167	0.4807	1.4
888500_12_LBCMCHCN	18	05MAY12	17MAY12	34.2944	0.7681	2.2
888700_12_LBCMCHCN	39	11MAY12	06JUN12	34.9462	0.5844	1.7
889000_12_LBCMCHCN	80	22MAY12	07AUG12	33.5169	0.7641	2.3
889500_12_LBCMCHCN	5	25JUN12	26JUN12	33.5000	0.3536	1.1
880100_12_LBCMCHCN	76	14JUL12	06AUG12	34.4553	0.4337	1.3
880500_12_LBCMCHCN	20	09AUG12	24AUG12	34.0950	0.4513	1.3
880600_12_LBCMCHCN	45	10AUG12	01SEP12	33.1844	0.4843	1.5
880700_12_LBCMCHCN	50	29AUG12	26SEP12	34.0960	0.3725	1.1
881500_12_LBCMCHCN	66	29AUG12	24NOV12	34.1015	0.3975	1.2
880900_12_LBCMCHCN	62	01SEP12	08OCT12	33.3839	0.6800	2.0
881300_12_LBCMCHCN	58	26SEP12	02NOV12	34.1707	0.4527	1.3
1.2293E8_12_LBCMCHCN	62	09OCT12	12NOV12	33.6290	0.4244	1.3
882000_12_LBCMCHCN	47	14NOV12	12DEC12	34.3468	0.4822	1.4
1.2296E8_12_LBCMCHCN	49	18NOV12	19DEC12	33.7980	0.4693	1.4
882200_12_LBCMCHCN	8	12DEC12	16DEC12	34.3250	0.3576	1.0
1.2297E8_13_LBCMCHCN	31	04JAN13	20JAN13	32.3129	0.6810	2.1
1.2296E8_13_LBCMCHCN	11	12JAN13	13JAN13	33.5545	2.9794	8.9


2011-2012 MCHC (g/dL) (Normal) Quality Control
36
35
34
33
32
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for Mean cell hemoglobin (pg) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCMCHI	25	14JAN11	30JAN11	31.7340	0.3350	1.1
879800_11_LBCMCHI	49	14JAN11	09FEB11	31.0571	0.4569	1.5
870300_11_LBCMCHI	47	06FEB11	08MAR11	31.8191	0.3699	1.2
870200_11_LBCMCHI	7	08FEB11	13FEB11	31.3429	0.5192	1.7
870500_11_LBCMCHI	48	17FEB11	21MAR11	31.5417	0.3188	1.0
870900_11_LBCMCHI	9	08MAR11	13MAR11	31.8889	0.2421	0.8
871200_11_LBCMCHI	49	18MAR11	16APR11	32.0061	0.3424	1.1
871100_11_LBCMCHI	10	24MAR11	28MAR11	31.8900	0.4012	1.3
871400_11_LBCMCHI	47	03APR11	07MAY11	31.6085	0.3056	1.0
871500_11_LBCMCHI	14	16APR11	24APR11	31.5143	0.2476	0.8
871900_11_LBCMCHI	46	01MAY11	04JUN11	32.1109	0.3206	1.0
872000_11_LBCMCHI	42	16MAY11	13JUN11	31.5690	0.3446	1.1
872200_11_LBCMCHI	5	04JUN11	06JUN11	32.2000	0.4848	1.5
872600_11_LBCMCHI	34	13JUN11	18JUL11	31.5353	0.3365	1.1
872400_11_LBCMCHI	18	16JUN11	26JUN11	32.1389	0.3051	0.9
873200_11_LBCMCHI	43	17JUL11	05AUG11	31.3907	0.5218	1.7
873700_11_LBCMCHI	26	06AUG11	21AUG11	32.1923	0.2992	0.9
873600_11_LBCMCHI	39	08AUG11	01SEP11	31.4308	0.2993	1.0
873900_11_LBCMCHI	28	27AUG11	12SEP11	31.3357	0.4731	1.5
874100_11_LBCMCHI	17	01SEP11	12SEP11	31.2000	0.3021	1.0
874400_11_LBCMCHI	26	12SEP11	02OCT11	31.1038	0.3194	1.0
874500_11_LBCMCHI	80	20SEP11	04NOV11	31.7488	0.3680	1.2
874900_11_LBCMCHI	26	15OCT11	30OCT11	31.7346	0.2993	0.9
875000_11_LBCMCHI	29	05NOV11	21NOV11	31.4931	0.3954	1.3
875400_11_LBCMCHI	66	10NOV11	19DEC11	31.4182	0.5159	1.6
875700_11_LBCMCHI	37	02DEC11	21DEC11	31.3541	0.4260	1.4
876500_12_LBCMCHI	34	10JAN12	02FEB12	31.2559	0.4838	1.5
876100_12_LBCMCHI	22	12JAN12	23JAN12	31.4091	0.3146	1.0
876800_12_LBCMCHI	60	30JAN12	29FEB12	31.6200	0.3204	1.0
876600_12_LBCMCHI	21	03FEB12	16FEB12	31.2857	0.2372	0.8
877300_12_LBCMCHI	90	20FEB12	02APR12	31.2633	0.3896	1.2
877800_12_LBCMCHI	29	19MAR12	13APR12	31.5241	0.3925	1.2
878200_12_LBCMCHI	44	11APR12	05MAY12	31.9568	0.4406	1.4
878100_12_LBCMCHI	25	27APR12	11MAY12	32.0000	0.4041	1.3
878500_12_LBCMCHI	19	05MAY12	17MAY12	31.4316	0.5498	1.7
878600_12_LBCMCHI	37	11MAY12	06JUN12	32.1351	0.3173	1.0
879000_12_LBCMCHI	74	22MAY12	27JUN12	31.4838	0.3945	1.3
879300_12_LBCMCHI	4	25JUN12	26JUN12	31.4250	0.5560	1.8
870000_12_LBCMCHI	83	14JUL12	11AUG12	31.8596	0.3667	1.2
870500_12_LBCMCHI	43	10AUG12	01SEP12	31.1186	0.6555	2.1
870400_12_LBCMCHI	15	12AUG12	24AUG12	31.7600	0.3312	1.0
870600_12_LBCMCHI	54	29AUG12	30SEP12	31.2870	0.3151	1.0
871400_12_LBCMCHI	70	29AUG12	14NOV12	31.2586	0.3356	1.1
870700_12_LBCMCHI	32	01SEP12	19SEP12	31.2125	0.6210	2.0
870800_12_LBCMCHI	29	18SEP12	08OCT12	31.9034	0.3343	1.0
871200_12_LBCMCHI	48	30SEP12	02NOV12	31.9521	0.4312	1.3
1.3293E8_12_LBCMCHI	68	08OCT12	12NOV12	31.3176	0.4405	1.4
871800_12_LBCMCHI	49	14NOV12	12DEC12	31.3878	0.3860	1.2
1.3296E8_12_LBCMCHI	46	18NOV12	19DEC12	31.2500	0.3680	1.2
872000_12_LBCMCHI	7	12DEC12	16DEC12	30.6429	0.2149	0.7
1.3297E8_13_LBCMCHI	32	04JAN13	20JAN13	29.6906	0.6808	2.3
1.3296E8_13_LBCMCHI	13	12JAN13	13JAN13	31.7154	0.8572	2.7


2011-2012 Mean cell hemoglobin (pg) (Abn I) Quality Control
33
32
31
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29
Jan
2011
Apr
Jul
Oct
Jan
2012
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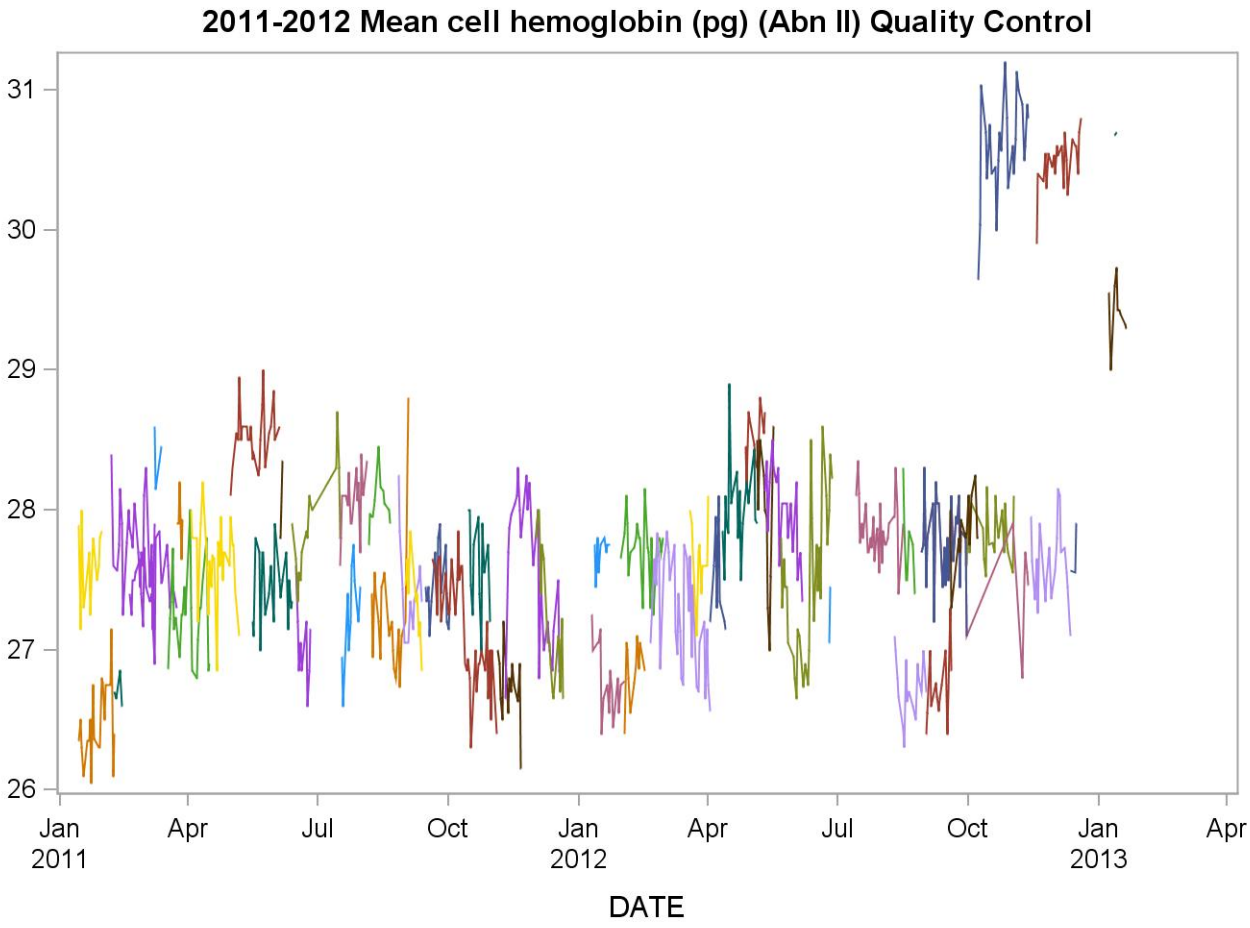
Jul
Oct
Jan
2013
Apr
DATE

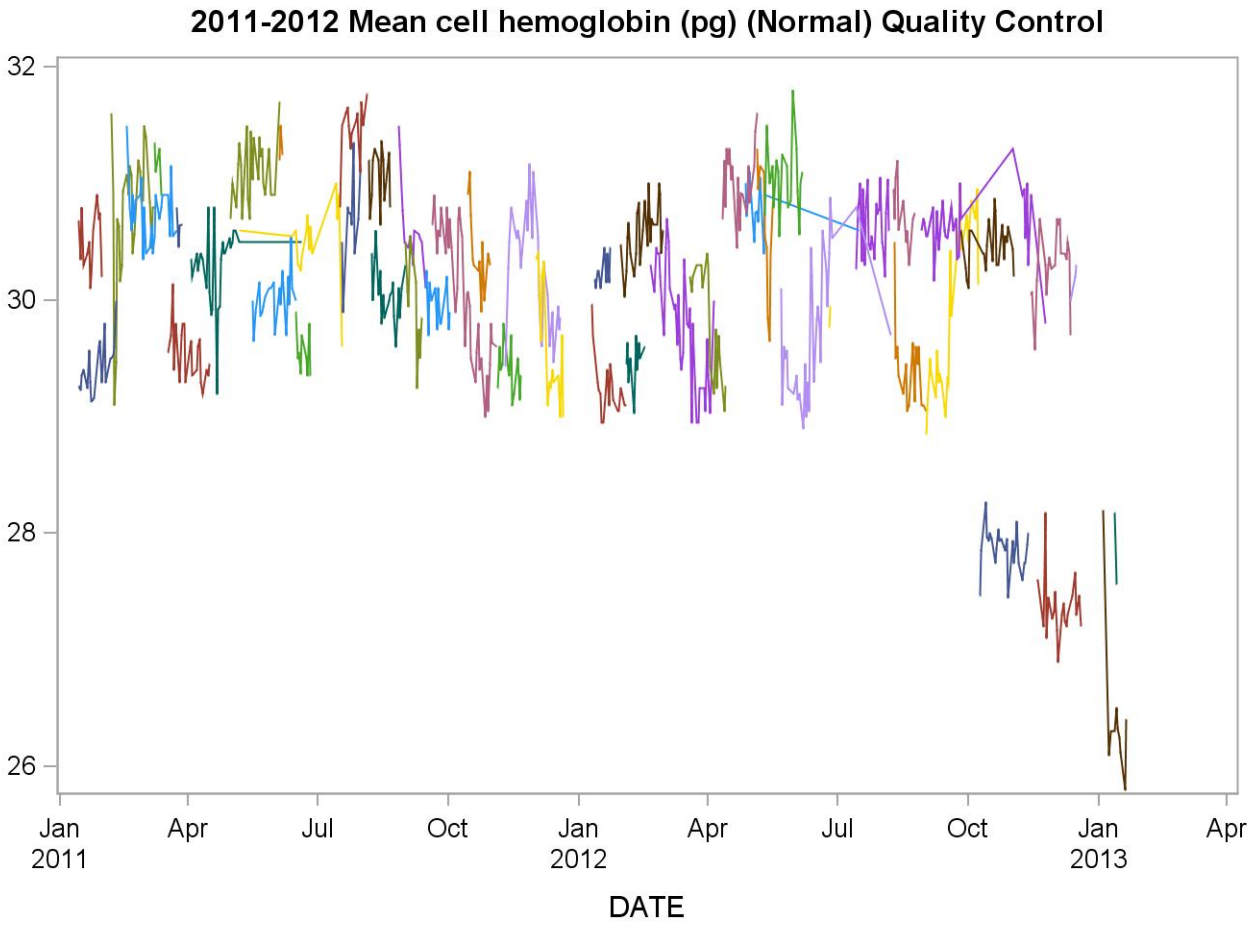
Summary Statistics for Mean cell hemoglobin (pg) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCMCHII	46	14JAN11	08FEB11	26.4891	0.4191	1.6
869600_11_LBCMCHII	33	14JAN11	30JAN11	27.6788	0.3740	1.4
869900_11_LBCMCHII	49	06FEB11	08MAR11	27.7796	0.4223	1.5
869800_11_LBCMCHII	7	08FEB11	13FEB11	26.7000	0.2082	0.8
860100_11_LBCMCHII	53	19FEB11	24MAR11	27.4604	0.3195	1.2
860400_11_LBCMCHII	7	08MAR11	13MAR11	28.3571	0.3409	1.2
860700_11_LBCMCHII	50	18MAR11	16APR11	27.2500	0.3781	1.4
860600_11_LBCMCHII	11	24MAR11	28MAR11	27.9455	0.3671	1.3
860900_11_LBCMCHII	60	03APR11	07MAY11	27.6450	0.3925	1.4
861300_11_LBCMCHII	45	01MAY11	04JUN11	28.5333	0.2663	0.9
861400_11_LBCMCHII	43	16MAY11	13JUN11	27.4302	0.3745	1.4
861700_11_LBCMCHII	5	04JUN11	06JUN11	28.0200	0.3114	1.1
862100_11_LBCMCHII	32	13JUN11	18JUL11	27.9000	0.3894	1.4
861900_11_LBCMCHII	18	16JUN11	26JUN11	27.0389	0.4075	1.5
862800_11_LBCMCHII	26	17JUL11	05AUG11	28.0885	0.3254	1.2
862700_11_LBCMCHII	21	18JUL11	31JUL11	27.2619	0.4307	1.6
863200_11_LBCMCHII	28	06AUG11	21AUG11	28.0750	0.3099	1.1
863100_11_LBCMCHII	41	08AUG11	03SEP11	27.1854	0.4304	1.6
863400_11_LBCMCHII	24	27AUG11	12SEP11	27.4542	0.3845	1.4
863500_11_LBCMCHII	19	01SEP11	12SEP11	27.3789	0.3473	1.3
863800_11_LBCMCHII	25	15SEP11	02OCT11	27.4320	0.3567	1.3
863900_11_LBCMCHII	76	20SEP11	04NOV11	27.1487	0.5224	1.9
864300_11_LBCMCHII	23	15OCT11	30OCT11	27.6043	0.3391	1.2
864400_11_LBCMCHII	28	05NOV11	21NOV11	26.7536	0.3533	1.3
864800_11_LBCMCHII	50	10NOV11	19DEC11	27.5360	0.6160	2.2
865000_11_LBCMCHII	36	02DEC11	21DEC11	27.1861	0.5632	2.1
865800_12_LBCMCHII	33	10JAN12	02FEB12	26.7788	0.3689	1.4
865500_12_LBCMCHII	19	12JAN12	23JAN12	27.7000	0.2160	0.8
866100_12_LBCMCHII	58	30JAN12	29FEB12	27.7293	0.3593	1.3
865900_12_LBCMCHII	23	02FEB12	16FEB12	26.8609	0.3448	1.3
866500_12_LBCMCHII	92	20FEB12	02APR12	27.2511	0.5440	2.0
866900_12_LBCMCHII	15	19MAR12	01APR12	27.6800	0.2808	1.0
867000_12_LBCMCHII	19	02APR12	13APR12	27.5421	0.4670	1.7
867300_12_LBCMCHII	43	11APR12	05MAY12	28.0558	0.3634	1.3
867100_12_LBCMCHII	26	27APR12	11MAY12	28.4538	0.3614	1.3
867500_12_LBCMCHII	20	05MAY12	17MAY12	27.8900	0.6095	2.2
867800_12_LBCMCHII	38	11MAY12	06JUN12	27.9789	0.4001	1.4
868100_12_LBCMCHII	73	22MAY12	27JUN12	27.5507	0.7572	2.7
868300_12_LBCMCHII	4	25JUN12	26JUN12	27.2500	0.2887	1.1
869000_12_LBCMCHII	84	14JUL12	16AUG12	27.8607	0.3267	1.2
869500_12_LBCMCHII	40	10AUG12	01SEP12	26.7100	0.3593	1.3
869400_12_LBCMCHII	12	16AUG12	24AUG12	27.6833	0.4609	1.7
860400_12_LBCMCHII	60	29AUG12	12NOV12	27.7300	0.3937	1.4
869600_12_LBCMCHII	49	29AUG12	30SEP12	27.7755	0.3711	1.3
869700_12_LBCMCHII	31	01SEP12	19SEP12	26.6806	0.4118	1.5
869800_12_LBCMCHII	27	18SEP12	08OCT12	27.8852	0.3278	1.2
860200_12_LBCMCHII	46	30SEP12	02NOV12	27.8348	0.3472	1.2
1.4293E8_12_LBCMCHII	64	08OCT12	12NOV12	30.5953	0.4812	1.6
860800_12_LBCMCHII	53	14NOV12	12DEC12	27.5943	0.3538	1.3
1.4296E8_12_LBCMCHII	45	18NOV12	19DEC12	30.4956	0.2402	0.8
861000_12_LBCMCHII	7	12DEC12	16DEC12	27.6571	0.4237	1.5
1.4297E8_13_LBCMCHII	30	08JAN13	20JAN13	29.4100	0.3527	1.2
1.4296E8_13_LBCMCHII	9	12JAN13	13JAN13	30.6889	0.9519	3.1


2011-2012 Mean cell hemoglobin (pg) (Abn ll) Quality Control
31
30
29
28
27
26
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for Mean cell hemoglobin (pg) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCMCHN	50	14JAN11	09FEB11	29.4080	0.3306	1.1
889900_11_LBCMCHN	26	14JAN11	30JAN11	30.5308	0.3685	1.2
880200_11_LBCMCHN	59	06FEB11	08MAR11	30.6949	0.7236	2.4
880500_11_LBCMCHN	51	17FEB11	24MAR11	30.7412	0.3579	1.2
880700_11_LBCMCHN	9	08MAR11	13MAR11	31.1333	0.3536	1.1
881100_11_LBCMCHN	48	18MAR11	16APR11	29.5729	0.2841	1.0
881000_11_LBCMCHN	19	24MAR11	28MAR11	30.5842	0.3202	1.0
881300_11_LBCMCHN	65	03APR11	20JUN11	30.2323	0.5072	1.7
881700_11_LBCMCHN	48	01MAY11	04JUN11	31.0854	0.3655	1.2
882600_11_LBCMCHN	36	07MAY11	18JUL11	30.5250	0.3597	1.2
881800_11_LBCMCHN	45	16MAY11	16JUN11	30.0222	0.3007	1.0
882100_11_LBCMCHN	5	04JUN11	06JUN11	31.3400	0.3362	1.1
882200_11_LBCMCHN	19	16JUN11	26JUN11	29.5474	0.4074	1.4
883300_11_LBCMCHN	26	17JUL11	05AUG11	31.4692	0.3017	1.0
883200_11_LBCMCHN	19	18JUL11	31JUL11	30.7000	0.4359	1.4
884000_11_LBCMCHN	27	06AUG11	21AUG11	31.0926	0.3281	1.1
883700_11_LBCMCHN	40	08AUG11	01SEP11	30.0700	0.2821	0.9
884100_11_LBCMCHN	30	27AUG11	15SEP11	30.6500	0.4232	1.4
884300_11_LBCMCHN	18	01SEP11	12SEP11	29.9611	0.4046	1.4
884600_11_LBCMCHN	25	15SEP11	02OCT11	29.9960	0.2406	0.8
884700_11_LBCMCHN	80	20SEP11	04NOV11	30.0800	0.6307	2.1
885100_11_LBCMCHN	24	15OCT11	30OCT11	30.4333	0.3595	1.2
885200_11_LBCMCHN	26	05NOV11	21NOV11	29.4038	0.2877	1.0
885600_11_LBCMCHN	68	10NOV11	19DEC11	30.2971	0.5699	1.9
885900_11_LBCMCHN	40	02DEC11	21DEC11	29.5925	0.5650	1.9
886600_12_LBCMCHN	36	10JAN12	03FEB12	29.2417	0.3916	1.3
886300_12_LBCMCHN	23	12JAN12	23JAN12	30.2391	0.2554	0.8
886900_12_LBCMCHN	60	30JAN12	29FEB12	30.5417	0.3890	1.3
886700_12_LBCMCHN	22	03FEB12	16FEB12	29.4591	0.3390	1.2
887400_12_LBCMCHN	94	20FEB12	05APR12	29.7904	0.6342	2.1
887800_12_LBCMCHN	34	19MAR12	13APR12	29.8059	0.5526	1.9
888200_12_LBCMCHN	47	11APR12	05MAY12	30.9894	0.3655	1.2
888100_12_LBCMCHN	30	27APR12	16JUL12	30.7600	0.3597	1.2
888500_12_LBCMCHN	18	05MAY12	17MAY12	30.6111	0.6115	2.0
888700_12_LBCMCHN	39	11MAY12	06JUN12	31.0179	0.4260	1.4
889000_12_LBCMCHN	80	22MAY12	07AUG12	29.8300	0.7347	2.5
889500_12_LBCMCHN	5	25JUN12	26JUN12	29.8400	0.3507	1.2
880100_12_LBCMCHN	76	14JUL12	06AUG12	30.6605	0.3781	1.2
880500_12_LBCMCHN	20	09AUG12	24AUG12	30.7250	0.3370	1.1
880600_12_LBCMCHN	45	10AUG12	01SEP12	29.3511	0.4187	1.4
880700_12_LBCMCHN	50	29AUG12	26SEP12	30.5840	0.3040	1.0
881500_12_LBCMCHN	66	29AUG12	24NOV12	30.6121	0.3502	1.1
880900_12_LBCMCHN	62	01SEP12	08OCT12	29.9113	0.7839	2.6
881300_12_LBCMCHN	58	26SEP12	02NOV12	30.4534	0.3667	1.2
1.2293E8_12_LBCMCHN	62	09OCT12	12NOV12	27.8790	0.3031	1.1
882000_12_LBCMCHN	47	14NOV12	12DEC12	30.2660	0.4177	1.4
1.2296E8_12_LBCMCHN	50	18NOV12	19DEC12	27.3940	0.4582	1.7
882200_12_LBCMCHN	8	12DEC12	16DEC12	30.1500	0.2976	1.0
1.2297E8_13_LBCMCHN	31	04JAN13	20JAN13	26.2935	0.4980	1.9
1.2296E8_13_LBCMCHN	11	12JAN13	13JAN13	28.0091	2.4926	8.9


2011-2012 Mean cell hemoglobin (pg) (Normal) Quality Control
32
30
28
26
Jan
2011
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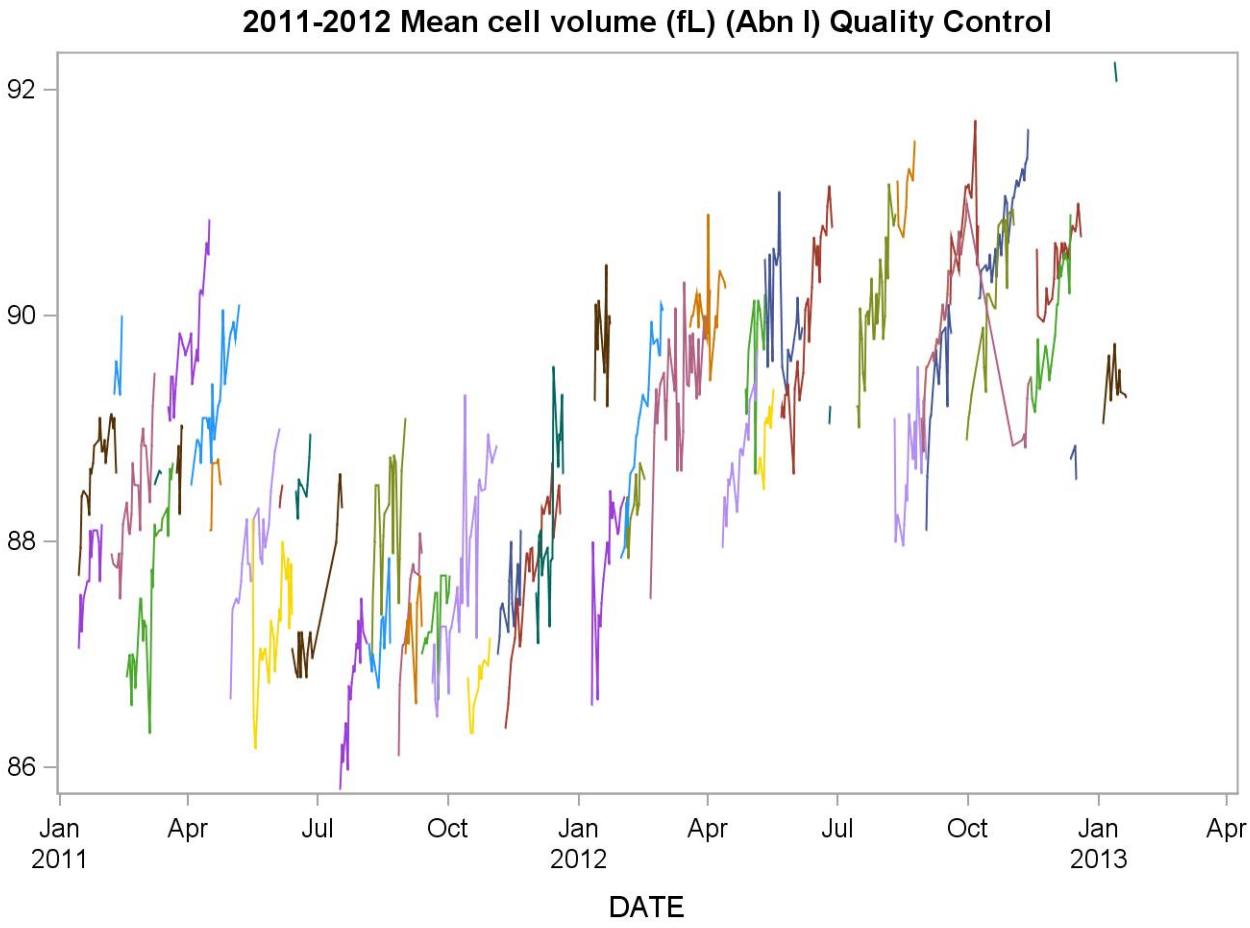
2013
Apr
DATE

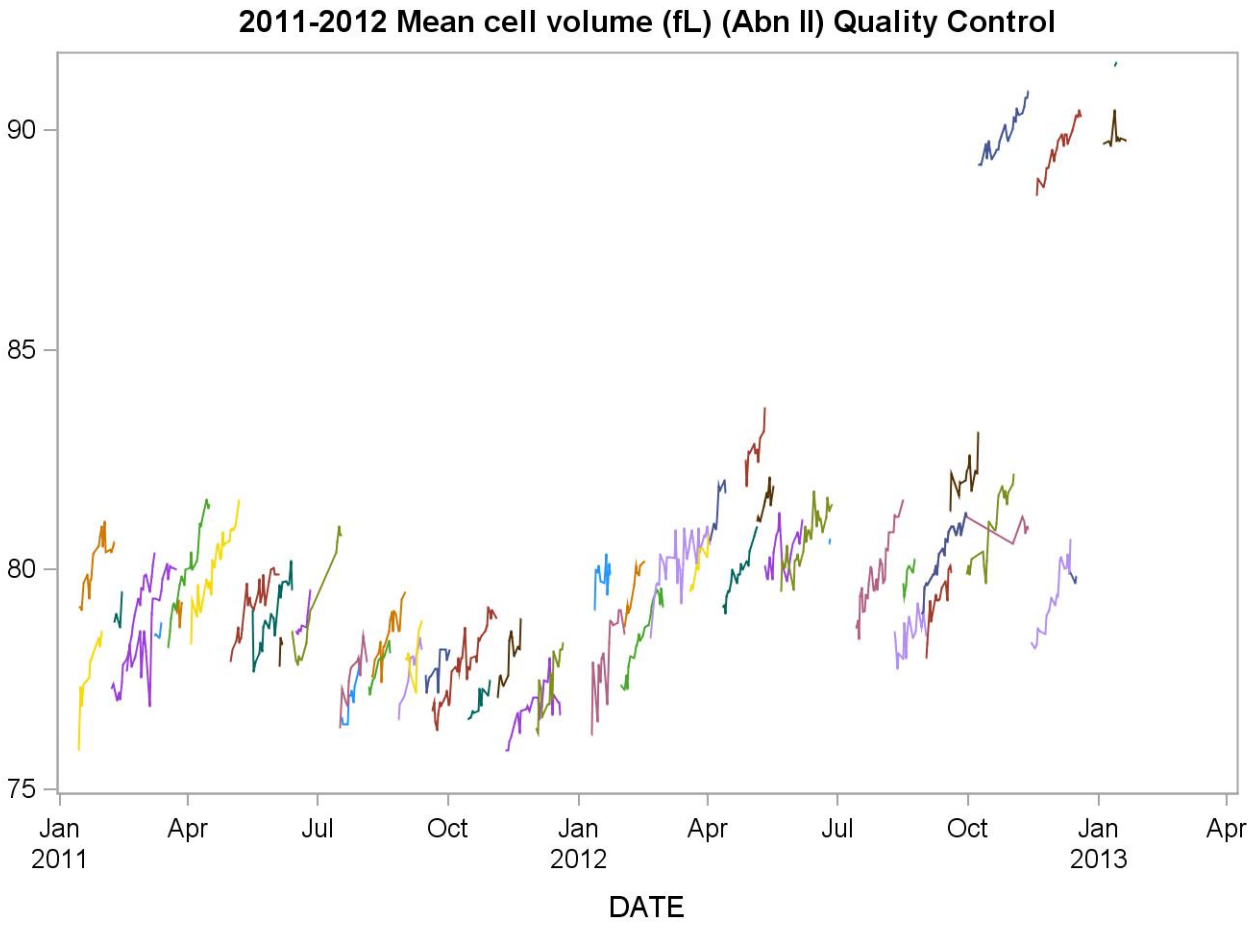
Summary Statistics for Mean cell volume (fL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCMCVI	25	14JAN11	30JAN11	87.7060	0.3776	0.4
879800_11_LBCMCVI	48	14JAN11	09FEB11	88.7000	0.4443	0.5
870300_11_LBCMCVI	47	06FEB11	08MAR11	88.3511	0.5258	0.6
870200_11_LBCMCVI	7	08FEB11	13FEB11	89.5857	0.3288	0.4
870500_11_LBCMCVI	48	17FEB11	21MAR11	87.5875	0.7324	0.8
870900_11_LBCMCVI	9	08MAR11	13MAR11	88.5778	0.2333	0.3
871200_11_LBCMCVI	48	18MAR11	16APR11	89.7500	0.5524	0.6
871100_11_LBCMCVI	10	24MAR11	28MAR11	88.7900	0.4841	0.5
871400_11_LBCMCVI	46	03APR11	07MAY11	89.2848	0.5073	0.6
871500_11_LBCMCVI	13	16APR11	24APR11	88.5615	0.2694	0.3
871900_11_LBCMCVI	46	01MAY11	04JUN11	87.9217	0.4798	0.5
872000_11_LBCMCVI	42	16MAY11	13JUN11	87.1857	0.5493	0.6
872200_11_LBCMCVI	5	04JUN11	06JUN11	88.4200	0.1304	0.1
872600_11_LBCMCVI	34	13JUN11	18JUL11	87.3059	0.6755	0.8
872400_11_LBCMCVI	18	16JUN11	26JUN11	88.5333	0.2828	0.3
873200_11_LBCMCVI	43	17JUL11	05AUG11	86.7140	0.5185	0.6
873700_11_LBCMCVI	26	06AUG11	21AUG11	87.1115	0.3339	0.4
873600_11_LBCMCVI	39	08AUG11	01SEP11	88.1795	0.6872	0.8
873900_11_LBCMCVI	28	27AUG11	12SEP11	87.4571	0.5600	0.6
874100_11_LBCMCVI	17	01SEP11	12SEP11	87.2176	0.4433	0.5
874400_11_LBCMCVI	26	12SEP11	02OCT11	87.3154	0.3529	0.4
874500_11_LBCMCVI	80	20SEP11	04NOV11	87.6975	0.8750	1.0
874900_11_LBCMCVI	26	15OCT11	30OCT11	86.7115	0.3204	0.4
875000_11_LBCMCVI	29	05NOV11	21NOV11	87.4828	0.4293	0.5
875400_11_LBCMCVI	66	10NOV11	19DEC11	87.6409	0.7207	0.8
875700_11_LBCMCVI	37	02DEC11	21DEC11	88.2324	0.8260	0.9
876500_12_LBCMCVI	33	10JAN12	02FEB12	87.7424	0.6335	0.7
876100_12_LBCMCVI	22	12JAN12	23JAN12	89.8409	0.4807	0.5
876800_12_LBCMCVI	59	30JAN12	29FEB12	88.9576	0.8107	0.9
876600_12_LBCMCVI	21	03FEB12	16FEB12	88.2952	0.3217	0.4
877300_12_LBCMCVI	90	20FEB12	02APR12	89.3600	0.7581	0.8
877800_12_LBCMCVI	29	19MAR12	13APR12	90.0345	0.3548	0.4
878200_12_LBCMCVI	44	11APR12	05MAY12	88.6864	0.4465	0.5
878100_12_LBCMCVI	25	27APR12	11MAY12	89.7040	0.5763	0.6
878500_12_LBCMCVI	19	05MAY12	17MAY12	88.9316	0.3449	0.4
878600_12_LBCMCVI	38	11MAY12	06JUN12	90.0289	0.5496	0.6
879000_12_LBCMCVI	74	22MAY12	27JUN12	90.1655	0.7230	0.8
879300_12_LBCMCVI	4	25JUN12	26JUN12	89.1250	0.1893	0.2
870000_12_LBCMCVI	81	14JUL12	11AUG12	90.0660	0.5475	0.6
870500_12_LBCMCVI	43	10AUG12	01SEP12	88.6233	0.5972	0.7
870400_12_LBCMCVI	15	12AUG12	24AUG12	91.0933	0.3555	0.4
870600_12_LBCMCVI	54	29AUG12	30SEP12	90.0056	0.5434	0.6
871400_12_LBCMCVI	71	29AUG12	14NOV12	89.7986	0.6319	0.7
870700_12_LBCMCVI	32	01SEP12	19SEP12	89.3375	0.6409	0.7
870800_12_LBCMCVI	29	18SEP12	08OCT12	90.9034	0.7213	0.8
871200_12_LBCMCVI	48	30SEP12	02NOV12	90.0625	0.6912	0.8
1.3293E8_12_LBCMCVI	68	08OCT12	12NOV12	90.7941	0.4619	0.5
871800_12_LBCMCVI	49	14NOV12	12DEC12	89.7959	0.5224	0.6
1.3296E8_12_LBCMCVI	47	18NOV12	19DEC12	90.4638	0.3479	0.4
872000_12_LBCMCVI	7	12DEC12	16DEC12	88.7143	0.1676	0.2
1.3297E8_13_LBCMCVI	32	04JAN13	20JAN13	89.3656	0.4171	0.5
1.3296E8_13_LBCMCVI	13	12JAN13	13JAN13	92.1846	0.2304	0.2


2011-2012 Mean cell volume (fL) (Abn I) Quality Control
92
90
88
86
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

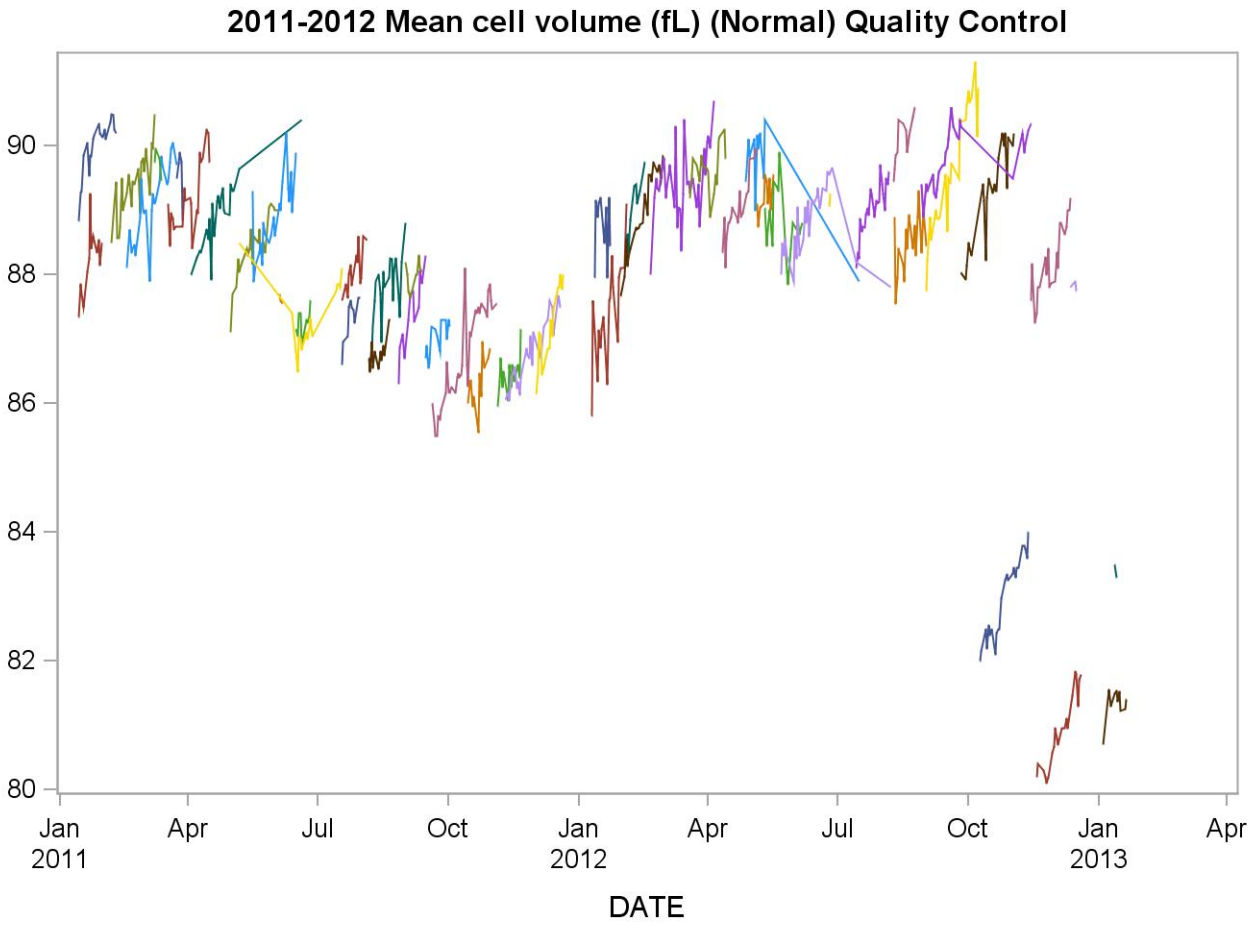
Summary Statistics for Mean cell volume (fL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCMCVII	45	14JAN11	08FEB11	80.1733	0.6246	0.8
869600_11_LBCMCVII	33	14JAN11	30JAN11	77.2576	1.0946	1.4
869900_11_LBCMCVII	49	06FEB11	08MAR11	78.6367	1.0549	1.3
869800_11_LBCMCVII	7	08FEB11	13FEB11	79.0286	0.3684	0.5
860100_11_LBCMCVII	54	17FEB11	24MAR11	78.8630	0.9820	1.2
860400_11_LBCMCVII	7	08MAR11	13MAR11	78.5857	0.2193	0.3
860700_11_LBCMCVII	50	18MAR11	16APR11	79.8600	0.9835	1.2
860600_11_LBCMCVII	11	24MAR11	28MAR11	79.0909	0.4085	0.5
860900_11_LBCMCVII	60	03APR11	07MAY11	80.0733	0.7290	0.9
861300_11_LBCMCVII	46	01MAY11	04JUN11	79.2261	0.5964	0.8
861400_11_LBCMCVII	43	16MAY11	13JUN11	78.9837	0.7628	1.0
861700_11_LBCMCVII	5	04JUN11	06JUN11	78.2600	0.2702	0.3
862100_11_LBCMCVII	32	13JUN11	18JUL11	79.0000	1.1424	1.4
861900_11_LBCMCVII	18	16JUN11	26JUN11	78.8556	0.4003	0.5
862800_11_LBCMCVII	26	17JUL11	05AUG11	77.6192	0.5246	0.7
862700_11_LBCMCVII	21	18JUL11	31JUL11	77.1524	0.5036	0.7
863200_11_LBCMCVII	28	06AUG11	21AUG11	77.7393	0.4315	0.6
863100_11_LBCMCVII	40	08AUG11	01SEP11	78.4750	0.6628	0.8
863400_11_LBCMCVII	24	27AUG11	12SEP11	77.6583	0.6633	0.9
863500_11_LBCMCVII	19	01SEP11	12SEP11	78.1053	0.5602	0.7
863800_11_LBCMCVII	25	15SEP11	02OCT11	77.7360	0.3893	0.5
863900_11_LBCMCVII	76	20SEP11	04NOV11	77.7776	0.8494	1.1
864300_11_LBCMCVII	22	15OCT11	30OCT11	76.9818	0.3487	0.5
864400_11_LBCMCVII	28	05NOV11	21NOV11	77.9500	0.5866	0.8
864800_11_LBCMCVII	50	10NOV11	19DEC11	76.7200	0.6214	0.8
865000_11_LBCMCVII	36	02DEC11	21DEC11	77.4889	0.7482	1.0
865800_12_LBCMCVII	32	10JAN12	02FEB12	78.0750	0.9500	1.2
865500_12_LBCMCVII	20	12JAN12	23JAN12	79.8450	0.4582	0.6
866100_12_LBCMCVII	57	30JAN12	29FEB12	78.4175	0.8380	1.1
865900_12_LBCMCVII	22	02FEB12	16FEB12	79.5682	0.5277	0.7
866500_12_LBCMCVII	91	20FEB12	02APR12	80.2077	0.7452	0.9
866900_12_LBCMCVII	15	19MAR12	01APR12	80.1600	0.4356	0.5
867000_12_LBCMCVII	19	02APR12	13APR12	81.2579	0.5284	0.7
867300_12_LBCMCVII	43	11APR12	05MAY12	79.9721	0.5531	0.7
867100_12_LBCMCVII	26	27APR12	11MAY12	82.6462	0.5014	0.6
867500_12_LBCMCVII	20	05MAY12	17MAY12	81.5600	0.4185	0.5
867800_12_LBCMCVII	38	11MAY12	06JUN12	80.4211	0.5527	0.7
868100_12_LBCMCVII	73	22MAY12	27JUN12	80.8466	0.6196	0.8
868300_12_LBCMCVII	4	25JUN12	26JUN12	80.6500	0.1291	0.2
869000_12_LBCMCVII	84	14JUL12	16AUG12	79.7940	0.8176	1.0
869500_12_LBCMCVII	40	10AUG12	01SEP12	78.4575	0.5119	0.7
869400_12_LBCMCVII	12	16AUG12	24AUG12	79.8917	0.3059	0.4
860400_12_LBCMCVII	60	29AUG12	12NOV12	80.4850	0.6230	0.8
869600_12_LBCMCVII	49	29AUG12	30SEP12	80.3857	0.6364	0.8
869700_12_LBCMCVII	31	01SEP12	19SEP12	79.2000	0.6501	0.8
869800_12_LBCMCVII	27	18SEP12	08OCT12	82.1963	0.5338	0.6
860200_12_LBCMCVII	46	30SEP12	02NOV12	80.8630	0.8180	1.0
1.4293E8_12_LBCMCVII	64	08OCT12	12NOV12	89.8719	0.5361	0.6
860800_12_LBCMCVII	53	14NOV12	12DEC12	79.1057	0.7566	1.0
1.4296E8_12_LBCMCVII	45	18NOV12	19DEC12	89.6422	0.5553	0.6
861000_12_LBCMCVII	7	12DEC12	16DEC12	79.8429	0.1272	0.2
1.4297E8_13_LBCMCVII	32	04JAN13	20JAN13	89.8125	0.3941	0.4
1.4296E8_13_LBCMCVII	9	12JAN13	13JAN13	91.5000	0.1581	0.2


2011-2012 Mean cell volume (fL) (Abn II) Quality Control
90
85
80
75
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

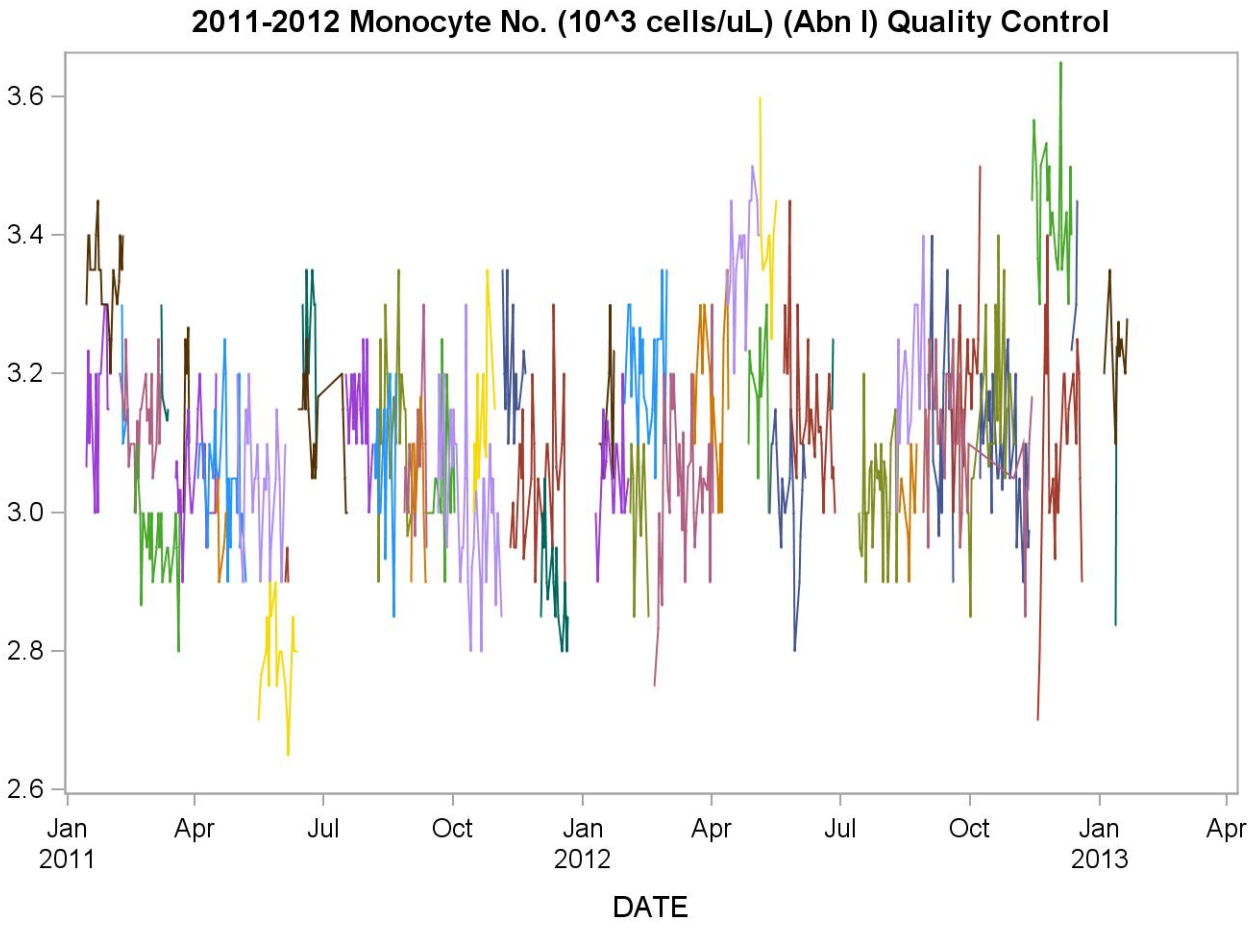
Summary Statistics for Mean cell volume (fL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCMCVN	50	14JAN11	09FEB11	89.9680	0.5164	0.6
889900_11_LBCMCVN	26	14JAN11	30JAN11	88.1269	0.5848	0.7
880200_11_LBCMCVN	59	06FEB11	08MAR11	89.2915	0.5572	0.6
880500_11_LBCMCVN	49	17FEB11	24MAR11	89.1204	0.6215	0.7
880700_11_LBCMCVN	9	08MAR11	13MAR11	89.7111	0.2848	0.3
881100_11_LBCMCVN	46	18MAR11	16APR11	89.1478	0.5860	0.7
881000_11_LBCMCVN	19	24MAR11	28MAR11	89.6737	0.6895	0.8
881300_11_LBCMCVN	63	03APR11	20JUN11	88.8540	0.5699	0.6
881700_11_LBCMCVN	48	01MAY11	04JUN11	88.4167	0.4628	0.5
882600_11_LBCMCVN	36	07MAY11	18JUL11	87.2556	0.5704	0.7
881800_11_LBCMCVN	45	16MAY11	16JUN11	88.8800	0.6731	0.8
882100_11_LBCMCVN	5	04JUN11	06JUN11	87.6000	0.1000	0.1
882200_11_LBCMCVN	19	16JUN11	26JUN11	87.2737	0.2825	0.3
883200_11_LBCMCVN	19	18JUL11	31JUL11	87.3579	0.3288	0.4
883300_11_LBCMCVN	26	18JUL11	05AUG11	88.0654	0.3878	0.4
884000_11_LBCMCVN	27	06AUG11	21AUG11	86.8000	0.3464	0.4
883700_11_LBCMCVN	40	08AUG11	01SEP11	87.8025	0.5636	0.6
884100_11_LBCMCVN	30	27AUG11	15SEP11	87.3933	0.5445	0.6
884300_11_LBCMCVN	17	01SEP11	12SEP11	87.9882	0.2595	0.3
884600_11_LBCMCVN	25	15SEP11	02OCT11	87.0040	0.2865	0.3
884700_11_LBCMCVN	80	20SEP11	04NOV11	86.7088	0.7965	0.9
885100_11_LBCMCVN	24	15OCT11	30OCT11	86.3542	0.4736	0.5
885200_11_LBCMCVN	26	05NOV11	21NOV11	86.4423	0.3982	0.5
885600_11_LBCMCVN	68	10NOV11	19DEC11	86.7485	0.5964	0.7
885900_11_LBCMCVN	40	02DEC11	21DEC11	87.2600	0.6392	0.7
886600_12_LBCMCVN	36	10JAN12	03FEB12	87.2583	0.9148	1.0
886300_12_LBCMCVN	23	12JAN12	23JAN12	88.6435	0.6992	0.8
886900_12_LBCMCVN	59	30JAN12	29FEB12	88.7797	0.7995	0.9
886700_12_LBCMCVN	22	03FEB12	16FEB12	89.0364	0.4766	0.5
887400_12_LBCMCVN	92	20FEB12	05APR12	89.3728	0.7145	0.8
887800_12_LBCMCVN	34	19MAR12	13APR12	89.5941	0.4192	0.5
888200_12_LBCMCVN	47	11APR12	05MAY12	89.0702	0.5043	0.6
888100_12_LBCMCVN	29	27APR12	16JUL12	89.7552	0.6390	0.7
888500_12_LBCMCVN	18	05MAY12	17MAY12	89.2333	0.3742	0.4
888700_12_LBCMCVN	38	11MAY12	06JUN12	88.8368	0.6082	0.7
889000_12_LBCMCVN	79	22MAY12	07AUG12	88.9994	0.5938	0.7
889500_12_LBCMCVN	5	25JUN12	26JUN12	89.1400	0.1817	0.2
880100_12_LBCMCVN	75	14JUL12	06AUG12	88.9947	0.4655	0.5
880500_12_LBCMCVN	20	09AUG12	24AUG12	90.0950	0.3913	0.4
880600_12_LBCMCVN	45	10AUG12	01SEP12	88.4667	0.6285	0.7
880700_12_LBCMCVN	50	29AUG12	26SEP12	89.7120	0.4889	0.5
881500_12_LBCMCVN	65	29AUG12	14NOV12	89.8015	0.4715	0.5
880900_12_LBCMCVN	62	01SEP12	08OCT12	89.5919	1.0239	1.1
881300_12_LBCMCVN	58	26SEP12	02NOV12	89.1155	0.8379	0.9
1.2293E8_12_LBCMCVN	62	09OCT12	12NOV12	82.9097	0.6161	0.7
882000_12_LBCMCVN	48	14NOV12	12DEC12	88.0854	0.5743	0.7
1.2296E8_12_LBCMCVN	52	18NOV12	19DEC12	80.8923	0.5847	0.7
882200_12_LBCMCVN	8	12DEC12	16DEC12	87.8250	0.2121	0.2
1.2297E8_13_LBCMCVN	32	04JAN13	20JAN13	81.3719	0.3567	0.4
1.2296E8_13_LBCMCVN	11	12JAN13	13JAN13	83.4364	0.2292	0.3


2011-2012 Mean cell volume (fL) (Normal) Quality Control
90
88
86
84
82
80
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for Monocyte No. (10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCMONI	25	14JAN11	30JAN11	3.1680	0.1108	3.5
879800_11_LBCMONI	49	14JAN11	09FEB11	3.3306	0.1262	3.8
870300_11_LBCMONI	47	06FEB11	08MAR11	3.1319	0.0980	3.1
870200_11_LBCMONI	7	08FEB11	13FEB11	3.1429	0.0787	2.5
870500_11_LBCMONI	48	17FEB11	21MAR11	2.9563	0.0943	3.2
870900_11_LBCMONI	9	08MAR11	13MAR11	3.1667	0.0707	2.2
871200_11_LBCMONI	49	18MAR11	16APR11	3.0510	0.1227	4.0
871100_11_LBCMONI	10	24MAR11	28MAR11	3.1900	0.1197	3.8
871400_11_LBCMONI	47	03APR11	07MAY11	3.0596	0.1116	3.6
871500_11_LBCMONI	14	16APR11	24APR11	2.9786	0.0699	2.3
871900_11_LBCMONI	44	01MAY11	04JUN11	3.0500	0.0952	3.1
872000_11_LBCMONI	41	16MAY11	13JUN11	2.7902	0.0860	3.1
872200_11_LBCMONI	5	04JUN11	06JUN11	2.9200	0.1095	3.8
872600_11_LBCMONI	34	13JUN11	18JUL11	3.1235	0.1208	3.9
872400_11_LBCMONI	18	16JUN11	26JUN11	3.2500	0.1383	4.3
873200_11_LBCMONI	43	17JUL11	05AUG11	3.1512	0.0935	3.0
873700_11_LBCMONI	24	06AUG11	21AUG11	3.0667	0.1239	4.0
873600_11_LBCMONI	39	08AUG11	01SEP11	3.1462	0.1354	4.3
873900_11_LBCMONI	28	27AUG11	12SEP11	3.0607	0.1397	4.6
874100_11_LBCMONI	17	01SEP11	12SEP11	3.0412	0.1460	4.8
874400_11_LBCMONI	26	12SEP11	02OCT11	3.0462	0.1067	3.5
874500_11_LBCMONI	79	20SEP11	04NOV11	3.0076	0.1328	4.4
874900_11_LBCMONI	26	15OCT11	30OCT11	3.1385	0.1267	4.0
875000_11_LBCMONI	29	05NOV11	21NOV11	3.2069	0.1334	4.2
875400_11_LBCMONI	66	10NOV11	19DEC11	3.0288	0.1262	4.2
875700_11_LBCMONI	37	02DEC11	21DEC11	2.8838	0.0928	3.2
876500_12_LBCMONI	33	10JAN12	02FEB12	3.0606	0.1248	4.1
876100_12_LBCMONI	20	12JAN12	23JAN12	3.1300	0.0865	2.8
876800_12_LBCMONI	60	30JAN12	29FEB12	3.2033	0.1390	4.3
876600_12_LBCMONI	22	03FEB12	16FEB12	3.0182	0.1296	4.3
877300_12_LBCMONI	92	20FEB12	02APR12	3.0326	0.1577	5.2
877800_12_LBCMONI	29	19MAR12	13APR12	3.1724	0.1251	3.9
878200_12_LBCMONI	44	11APR12	05MAY12	3.3705	0.1304	3.9
878100_12_LBCMONI	25	27APR12	11MAY12	3.1840	0.1491	4.7
878500_12_LBCMONI	19	05MAY12	17MAY12	3.3842	0.1119	3.3
878600_12_LBCMONI	38	11MAY12	06JUN12	3.0289	0.1160	3.8
879000_12_LBCMONI	74	22MAY12	27JUN12	3.1304	0.1316	4.2
879300_12_LBCMONI	4	25JUN12	26JUN12	3.2000	0.1414	4.4
870000_12_LBCMONI	82	14JUL12	11AUG12	3.0274	0.1243	4.1
870500_12_LBCMONI	43	10AUG12	01SEP12	3.1814	0.1332	4.2
870400_12_LBCMONI	15	12AUG12	24AUG12	3.0200	0.1082	3.6
870600_12_LBCMONI	54	29AUG12	30SEP12	3.1241	0.1228	3.9
871400_12_LBCMONI	71	29AUG12	14NOV12	3.1070	0.1269	4.1
870700_12_LBCMONI	32	01SEP12	19SEP12	3.1125	0.1408	4.5
870800_12_LBCMONI	28	18SEP12	08OCT12	3.2143	0.1353	4.2
871200_12_LBCMONI	48	30SEP12	02NOV12	3.1396	0.1759	5.6
1.3293E8_12_LBCMONI	68	08OCT12	12NOV12	3.0882	0.1366	4.4
871800_12_LBCMONI	49	14NOV12	12DEC12	3.4347	0.1267	3.7
1.3296E8_12_LBCMONI	47	18NOV12	19DEC12	3.1170	0.1698	5.4
872000_12_LBCMONI	7	12DEC12	16DEC12	3.3143	0.1345	4.1
1.3297E8_13_LBCMONI	32	04JAN13	20JAN13	3.2375	0.1408	4.4
1.3296E8_13_LBCMONI	13	12JAN13	13JAN13	2.9923	0.3095	10.3


2011-2012 Monocyte No. (10^3 cells/uL) (Abn l) Quality Control
3.6
3.4
3.2
3.0
2.8
2.6
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
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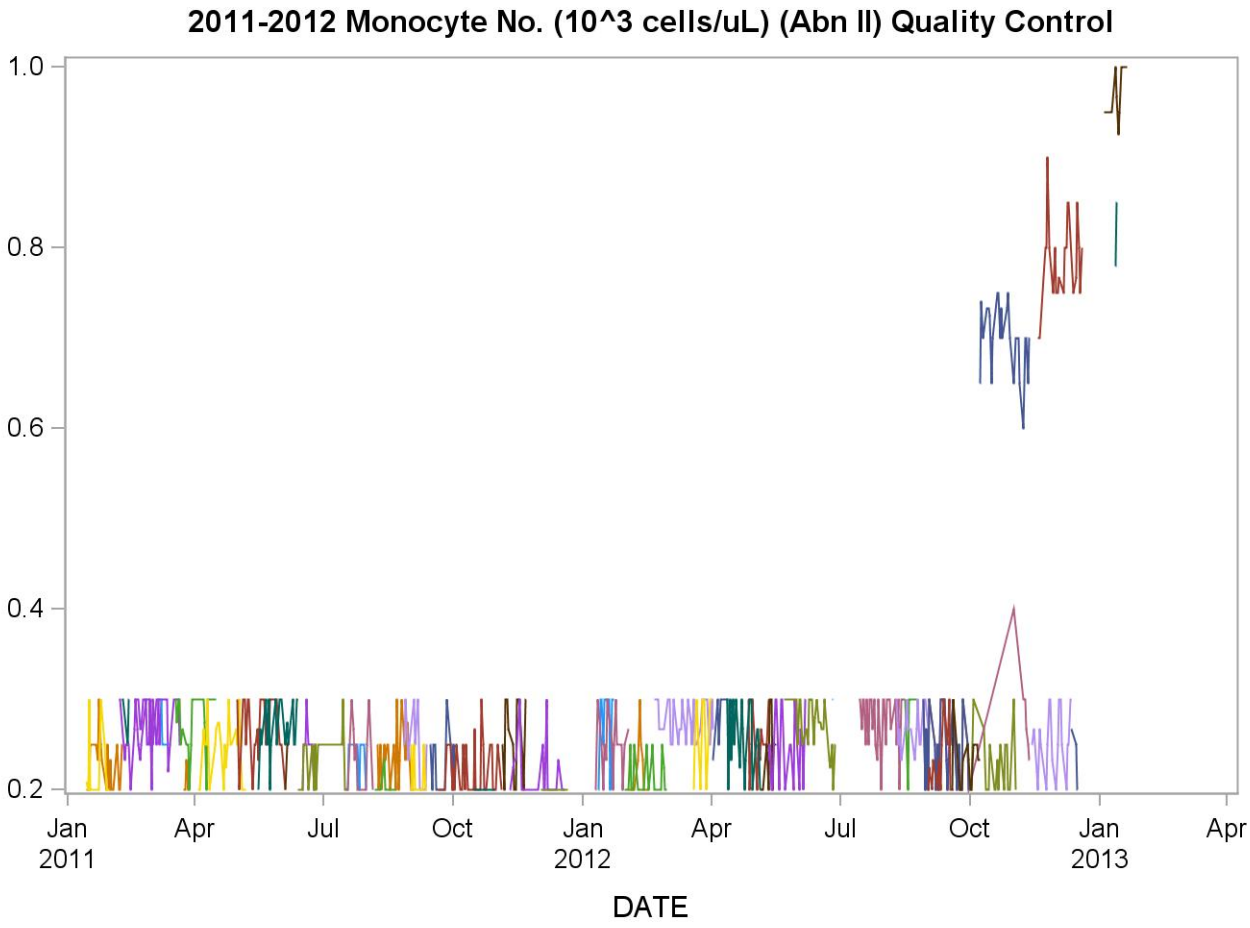
Summary Statistics for Monocyte No. (10^3 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCMONII	44	14JAN11	08FEB11	0.2273	0.0451	19.8
869600_11_LBCMONII	33	14JAN11	30JAN11	0.2121	0.0331	15.6
869900_11_LBCMONII	49	06FEB11	08MAR11	0.2633	0.0487	18.5
869800_11_LBCMONII	7	08FEB11	13FEB11	0.2857	0.0378	13.2
860100_11_LBCMONII	53	17FEB11	21MAR11	0.2792	0.0409	14.7
860400_11_LBCMONII	7	08MAR11	13MAR11	0.2571	0.0535	20.8
860700_11_LBCMONII	49	18MAR11	16APR11	0.2776	0.0422	15.2
860600_11_LBCMONII	11	24MAR11	28MAR11	0.2182	0.0405	18.5
860900_11_LBCMONII	60	03APR11	07MAY11	0.2517	0.0504	20.0
861300_11_LBCMONII	45	01MAY11	04JUN11	0.2689	0.0468	17.4
861400_11_LBCMONII	42	16MAY11	13JUN11	0.2690	0.0468	17.4
861700_11_LBCMONII	5	04JUN11	06JUN11	0.2400	0.0548	22.8
862100_11_LBCMONII	31	13JUN11	18JUL11	0.2290	0.0461	20.1
861900_11_LBCMONII	18	16JUN11	26JUN11	0.2444	0.0511	20.9
862800_11_LBCMONII	24	17JUL11	05AUG11	0.2292	0.0464	20.3
862700_11_LBCMONII	20	18JUL11	31JUL11	0.2350	0.0489	20.8
863200_11_LBCMONII	27	06AUG11	21AUG11	0.2037	0.0192	9.4
863100_11_LBCMONII	40	08AUG11	03SEP11	0.2400	0.0545	22.7
863400_11_LBCMONII	24	27AUG11	12SEP11	0.2458	0.0509	20.7
863500_11_LBCMONII	17	01SEP11	12SEP11	0.2176	0.0393	18.1
863800_11_LBCMONII	25	15SEP11	02OCT11	0.2240	0.0436	19.5
863900_11_LBCMONII	76	20SEP11	04NOV11	0.2184	0.0390	17.9
864300_11_LBCMONII	23	15OCT11	30OCT11	0.2000	0.0000	0.0
864400_11_LBCMONII	28	05NOV11	21NOV11	0.2536	0.0508	20.0
864800_11_LBCMONII	50	10NOV11	19DEC11	0.2160	0.0370	17.1
865000_11_LBCMONII	34	02DEC11	21DEC11	0.2000	0.0000	0.0
865800_12_LBCMONII	32	10JAN12	02FEB12	0.2438	0.0504	20.7
865500_12_LBCMONII	20	12JAN12	23JAN12	0.2750	0.0444	16.2
866100_12_LBCMONII	57	30JAN12	29FEB12	0.2123	0.0331	15.6
865900_12_LBCMONII	23	02FEB12	16FEB12	0.2174	0.0388	17.8
866500_12_LBCMONII	91	20FEB12	02APR12	0.2736	0.0443	16.2
866900_12_LBCMONII	15	19MAR12	01APR12	0.2733	0.0458	16.7
867000_12_LBCMONII	15	02APR12	13APR12	0.2667	0.0488	18.3
867300_12_LBCMONII	43	11APR12	05MAY12	0.2581	0.0499	19.3
867100_12_LBCMONII	26	27APR12	11MAY12	0.2462	0.0508	20.7
867500_12_LBCMONII	20	05MAY12	17MAY12	0.2400	0.0503	20.9
867800_12_LBCMONII	38	11MAY12	06JUN12	0.2474	0.0506	20.5
868100_12_LBCMONII	73	22MAY12	27JUN12	0.2699	0.0491	18.2
868300_12_LBCMONII	4	25JUN12	26JUN12	0.3000	0.0000	0.0
869000_12_LBCMONII	84	14JUL12	16AUG12	0.2762	0.0428	15.5
869500_12_LBCMONII	39	10AUG12	01SEP12	0.2641	0.0486	18.4
869400_12_LBCMONII	11	16AUG12	24AUG12	0.2727	0.0467	17.1
860400_12_LBCMONII	60	29AUG12	12NOV12	0.2483	0.0537	21.6
869600_12_LBCMONII	49	29AUG12	30SEP12	0.2429	0.0500	20.6
869700_12_LBCMONII	31	01SEP12	19SEP12	0.2290	0.0461	20.1
869800_12_LBCMONII	27	18SEP12	08OCT12	0.2296	0.0465	20.3
860200_12_LBCMONII	46	30SEP12	02NOV12	0.2239	0.0431	19.3
1.4293E8_12_LBCMONII	64	08OCT12	12NOV12	0.7047	0.0575	8.2
860800_12_LBCMONII	53	14NOV12	12DEC12	0.2453	0.0539	22.0
1.4296E8_12_LBCMONII	45	18NOV12	19DEC12	0.7867	0.0625	7.9
861000_12_LBCMONII	7	12DEC12	16DEC12	0.2429	0.0535	22.0
1.4297E8_13_LBCMONII	32	04JAN13	20JAN13	0.9719	0.0683	7.0
1.4296E8_13_LBCMONII	9	12JAN13	13JAN13	0.8111	0.0782	9.6


2011-2012 Monocyte No. (10^3 cells/uL) (Abn ll) Quality Control
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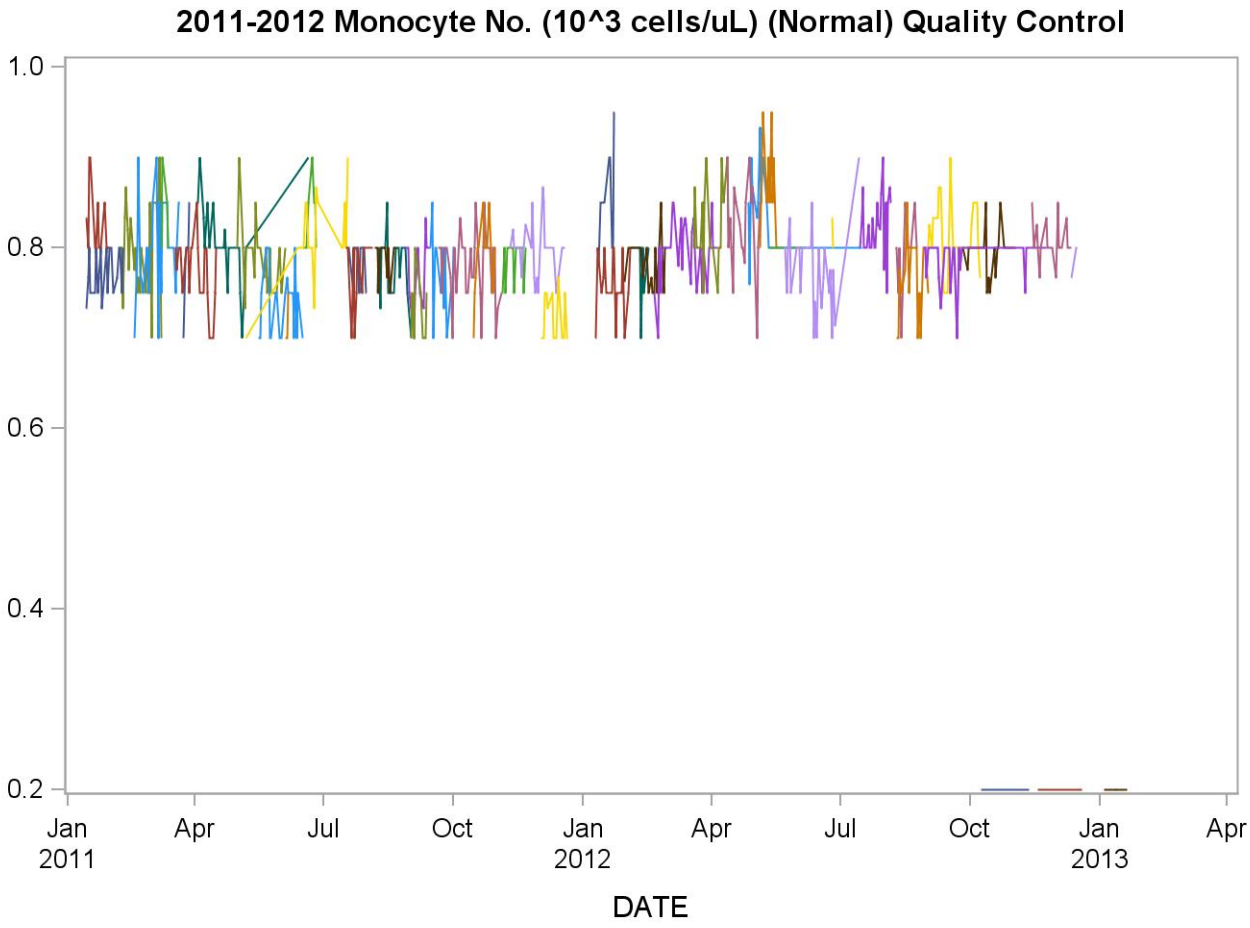
Summary Statistics for Monocyte No. (10^3 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCMONN	50	14JAN11	09FEB11	0.7740	0.0487	6.3
889900_11_LBCMONN	24	14JAN11	30JAN11	0.8208	0.0415	5.1
880200_11_LBCMONN	58	06FEB11	08MAR11	0.7983	0.0607	7.6
880500_11_LBCMONN	49	17FEB11	21MAR11	0.8020	0.0692	8.6
880700_11_LBCMONN	9	08MAR11	13MAR11	0.8333	0.0707	8.5
881100_11_LBCMONN	48	18MAR11	16APR11	0.7813	0.0445	5.7
881000_11_LBCMONN	19	24MAR11	28MAR11	0.7947	0.0524	6.6
881300_11_LBCMONN	64	03APR11	20JUN11	0.8078	0.0410	5.1
881700_11_LBCMONN	47	01MAY11	04JUN11	0.7830	0.0481	6.1
882600_11_LBCMONN	35	07MAY11	18JUL11	0.8114	0.0530	6.5
881800_11_LBCMONN	44	16MAY11	16JUN11	0.7432	0.0587	7.9
882100_11_LBCMONN	5	04JUN11	06JUN11	0.7200	0.0447	6.2
882200_11_LBCMONN	19	16JUN11	26JUN11	0.8263	0.0452	5.5
883300_11_LBCMONN	27	17JUL11	05AUG11	0.7778	0.0424	5.4
883200_11_LBCMONN	19	18JUL11	31JUL11	0.7842	0.0375	4.8
884000_11_LBCMONN	27	06AUG11	21AUG11	0.7889	0.0320	4.1
883700_11_LBCMONN	40	08AUG11	01SEP11	0.7800	0.0464	5.9
884100_11_LBCMONN	29	27AUG11	15SEP11	0.7759	0.0577	7.4
884300_11_LBCMONN	18	01SEP11	12SEP11	0.7333	0.0485	6.6
884600_11_LBCMONN	25	15SEP11	02OCT11	0.7720	0.0542	7.0
884700_11_LBCMONN	79	20SEP11	04NOV11	0.7772	0.0598	7.7
885100_11_LBCMONN	24	15OCT11	30OCT11	0.7917	0.0504	6.4
885200_11_LBCMONN	26	05NOV11	21NOV11	0.7846	0.0464	5.9
885600_11_LBCMONN	67	10NOV11	19DEC11	0.7985	0.0444	5.6
885900_11_LBCMONN	40	02DEC11	21DEC11	0.7175	0.0501	7.0
886600_12_LBCMONN	36	10JAN12	03FEB12	0.7583	0.0500	6.6
886300_12_LBCMONN	23	12JAN12	23JAN12	0.8435	0.0662	7.9
886900_12_LBCMONN	60	30JAN12	29FEB12	0.7833	0.0457	5.8
886700_12_LBCMONN	22	03FEB12	16FEB12	0.7864	0.0351	4.5
887400_12_LBCMONN	94	20FEB12	05APR12	0.7979	0.0486	6.1
887800_12_LBCMONN	34	19MAR12	13APR12	0.8235	0.0554	6.7
888200_12_LBCMONN	47	11APR12	05MAY12	0.8234	0.0698	8.5
888100_12_LBCMONN	30	27APR12	16JUL12	0.8433	0.0817	9.7
888500_12_LBCMONN	18	05MAY12	17MAY12	0.8722	0.0669	7.7
888700_12_LBCMONN	37	11MAY12	06JUN12	0.8000	0.0000	0.0
889000_12_LBCMONN	79	22MAY12	14JUL12	0.7696	0.0607	7.9
889500_12_LBCMONN	5	25JUN12	26JUN12	0.8200	0.0447	5.5
880100_12_LBCMONN	76	14JUL12	06AUG12	0.8224	0.0580	7.0
880500_12_LBCMONN	20	09AUG12	24AUG12	0.8000	0.0459	5.7
880600_12_LBCMONN	44	10AUG12	01SEP12	0.7682	0.0518	6.7
880700_12_LBCMONN	50	29AUG12	26SEP12	0.7840	0.0548	7.0
881500_12_LBCMONN	65	29AUG12	24NOV12	0.7862	0.0496	6.3
880900_12_LBCMONN	62	01SEP12	08OCT12	0.8177	0.0529	6.5
881300_12_LBCMONN	58	26SEP12	02NOV12	0.7931	0.0368	4.6
1.2293E8_12_LBCMONN	60	09OCT12	12NOV12	0.2000	0.0000	0.0
882000_12_LBCMONN	48	14NOV12	12DEC12	0.8063	0.0480	5.9
1.2296E8_12_LBCMONN	51	18NOV12	19DEC12	0.2000	0.0000	0.0
882200_12_LBCMONN	8	12DEC12	16DEC12	0.7875	0.0354	4.5
1.2297E8_13_LBCMONN	32	04JAN13	20JAN13	0.2000	0.0000	0.0
1.2296E8_13_LBCMONN	11	12JAN13	13JAN13	0.2000	0.0000	0.0


2011-2012 Monocyte No. (10^3 cells/uL) (Normal) Quality Control
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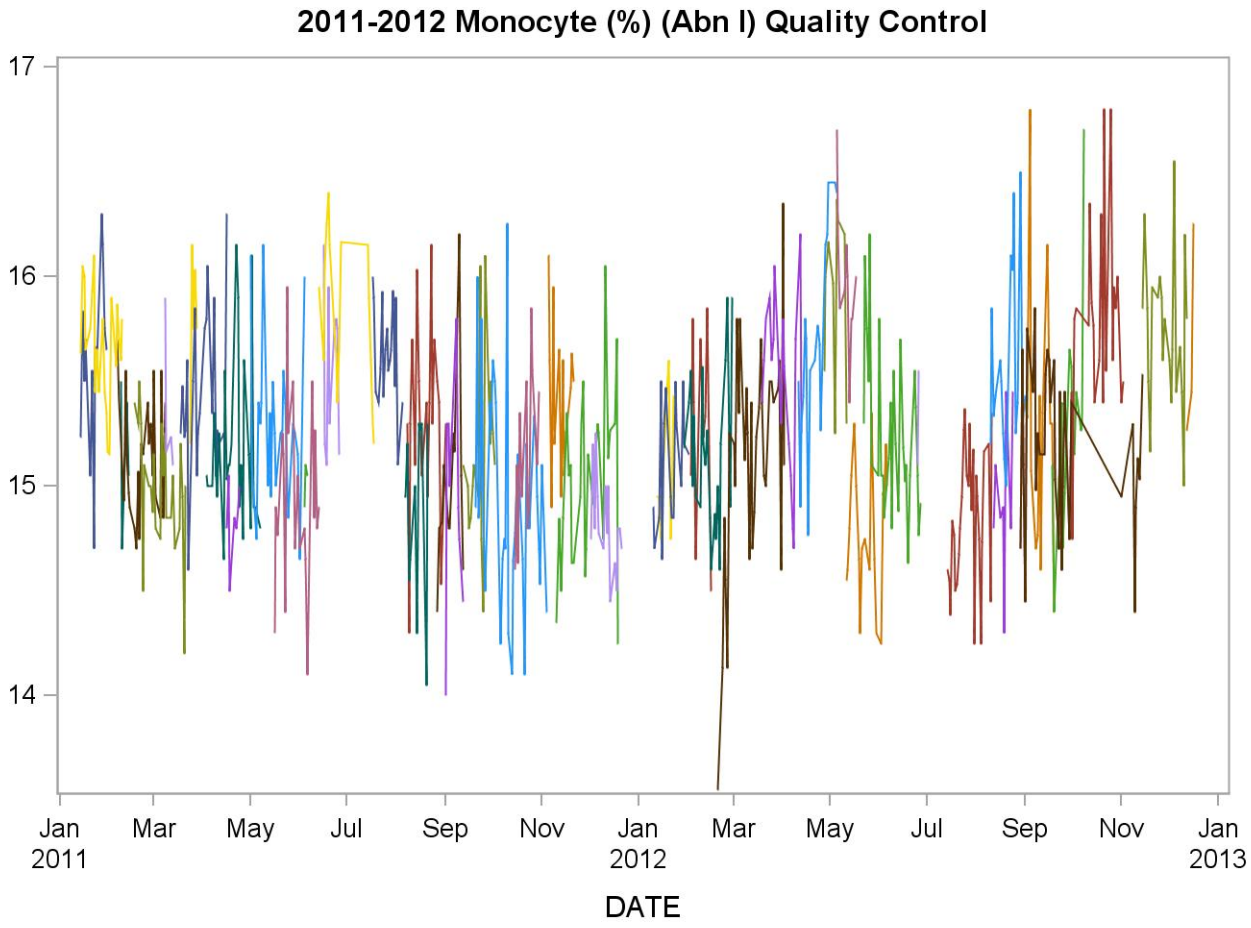
Summary Statistics for Monocyte (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCMOPI	25	14JAN11	30JAN11	15.6240	0.5011	3.2
879800_11_LBCMOPI	49	14JAN11	09FEB11	15.6510	0.5225	3.3
870300_11_LBCMOPI	47	06FEB11	08MAR11	15.1149	0.4344	2.9
870200_11_LBCMOPI	7	08FEB11	13FEB11	15.1143	0.3579	2.4
870500_11_LBCMOPI	49	17FEB11	21MAR11	14.9653	0.4630	3.1
870900_11_LBCMOPI	9	08MAR11	13MAR11	15.2556	0.3283	2.2
871200_11_LBCMOPI	49	18MAR11	16APR11	15.4306	0.5455	3.5
871100_11_LBCMOPI	10	24MAR11	28MAR11	15.8600	0.5461	3.4
871400_11_LBCMOPI	47	03APR11	07MAY11	15.1894	0.5378	3.5
871500_11_LBCMOPI	14	16APR11	24APR11	14.8357	0.3079	2.1
871900_11_LBCMOPI	44	01MAY11	04JUN11	15.2705	0.4295	2.8
872000_11_LBCMOPI	42	16MAY11	13JUN11	14.9714	0.5237	3.5
872200_11_LBCMOPI	5	04JUN11	06JUN11	15.0400	0.2966	2.0
872600_11_LBCMOPI	34	13JUN11	18JUL11	15.8500	0.5817	3.7
872400_11_LBCMOPI	18	16JUN11	26JUN11	15.5722	0.5443	3.5
873200_11_LBCMOPI	43	17JUL11	05AUG11	15.6372	0.4203	2.7
873700_11_LBCMOPI	25	06AUG11	21AUG11	14.8760	0.5341	3.6
873600_11_LBCMOPI	39	08AUG11	01SEP11	15.3359	0.5219	3.4
873900_11_LBCMOPI	28	27AUG11	12SEP11	15.0036	0.5859	3.9
874100_11_LBCMOPI	17	01SEP11	12SEP11	15.0235	0.7031	4.7
874400_11_LBCMOPI	26	12SEP11	02OCT11	15.1385	0.5269	3.5
874500_11_LBCMOPI	80	20SEP11	04NOV11	14.9600	0.5940	4.0
874900_11_LBCMOPI	26	15OCT11	30OCT11	15.1269	0.5127	3.4
875000_11_LBCMOPI	29	05NOV11	21NOV11	15.4621	0.6155	4.0
875400_11_LBCMOPI	66	10NOV11	19DEC11	14.9894	0.5248	3.5
875700_11_LBCMOPI	37	02DEC11	21DEC11	14.7973	0.2977	2.0
876500_12_LBCMOPI	33	10JAN12	02FEB12	15.1273	0.5530	3.7
876100_12_LBCMOPI	20	12JAN12	23JAN12	15.0600	0.4135	2.7
876800_12_LBCMOPI	60	30JAN12	29FEB12	15.1783	0.6541	4.3
876600_12_LBCMOPI	22	03FEB12	16FEB12	15.3045	0.6067	4.0
877300_12_LBCMOPI	92	20FEB12	02APR12	15.1424	0.7525	5.0
877800_12_LBCMOPI	29	19MAR12	13APR12	15.5138	0.5310	3.4
878200_12_LBCMOPI	44	11APR12	05MAY12	15.7045	0.6633	4.2
878100_12_LBCMOPI	25	27APR12	11MAY12	16.0080	0.6422	4.0
878500_12_LBCMOPI	19	05MAY12	17MAY12	15.9421	0.4682	2.9
878600_12_LBCMOPI	38	11MAY12	06JUN12	14.7974	0.4659	3.1
879000_12_LBCMOPI	74	22MAY12	27JUN12	15.1939	0.5180	3.4
879300_12_LBCMOPI	4	25JUN12	26JUN12	15.3250	0.5909	3.9
870000_12_LBCMOPI	82	14JUL12	11AUG12	14.8677	0.5644	3.8
870500_12_LBCMOPI	43	10AUG12	01SEP12	15.5163	0.5924	3.8
870400_12_LBCMOPI	15	12AUG12	24AUG12	15.0067	0.5244	3.5
870600_12_LBCMOPI	54	29AUG12	30SEP12	15.2352	0.5988	3.9
871400_12_LBCMOPI	71	29AUG12	14NOV12	15.1901	0.5826	3.8
870700_12_LBCMOPI	32	01SEP12	19SEP12	15.2031	0.6203	4.1
870800_12_LBCMOPI	29	18SEP12	08OCT12	15.3793	0.6383	4.2
871200_12_LBCMOPI	48	30SEP12	02NOV12	15.8042	0.6882	4.4
871800_12_LBCMOPI	49	14NOV12	12DEC12	15.7429	0.5176	3.3
872000_12_LBCMOPI	7	12DEC12	16DEC12	15.6000	0.5447	3.5


2011-2012 Monocyte (%) (Abn I) Quality Control
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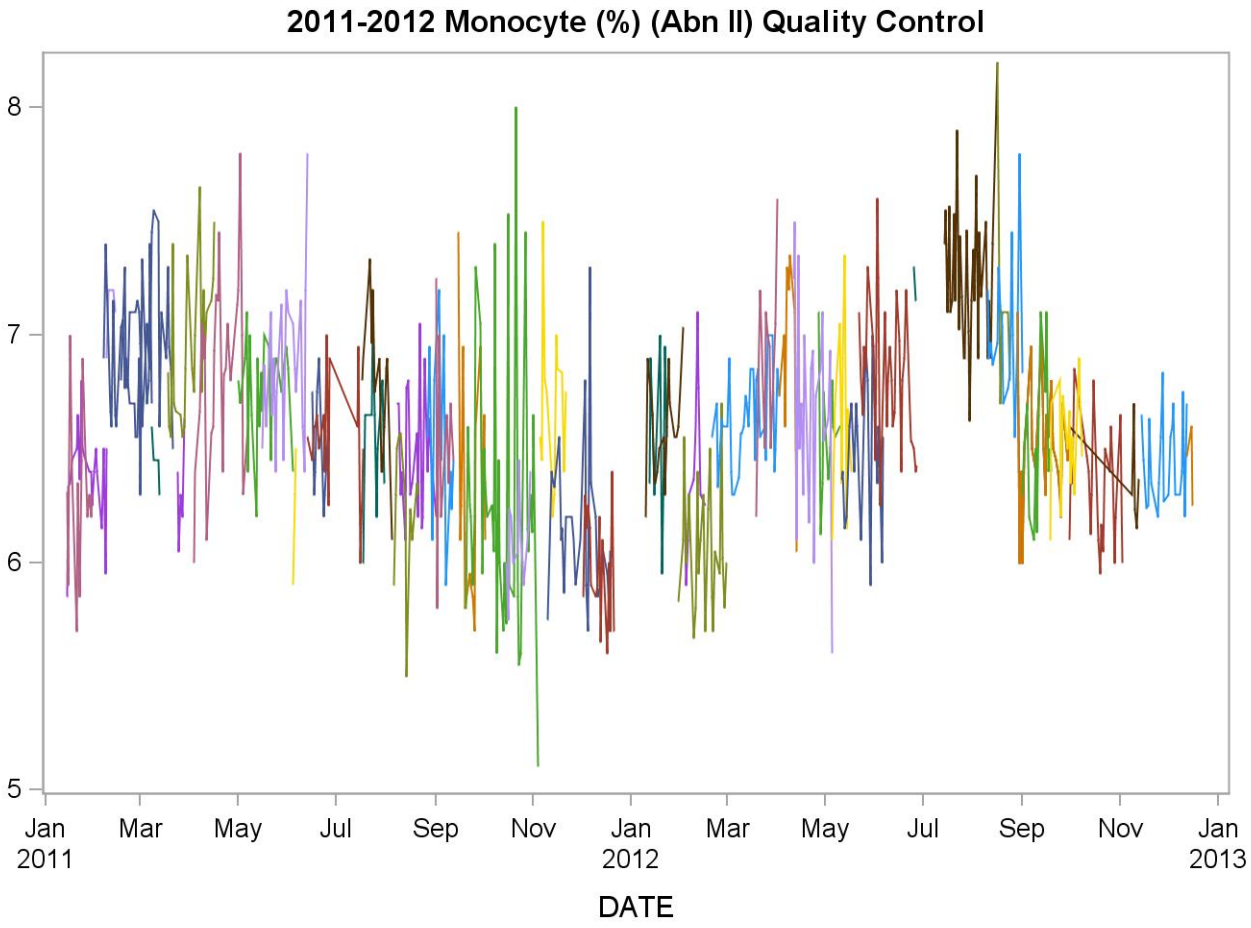
Summary Statistics for Monocyte (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCMOPII	42	14JAN11	08FEB11	6.3762	0.3282	5.1
869600_11_LBCMOPII	33	14JAN11	30JAN11	6.2545	0.4101	6.6
869900_11_LBCMOPII	49	06FEB11	08MAR11	6.8367	0.4271	6.2
869800_11_LBCMOPII	7	08FEB11	13FEB11	7.1286	0.3498	4.9
860100_11_LBCMOPII	52	17FEB11	21MAR11	6.9865	0.3896	5.6
860400_11_LBCMOPII	7	08MAR11	13MAR11	6.4286	0.2498	3.9
860700_11_LBCMOPII	49	18MAR11	16APR11	6.9122	0.4829	7.0
860600_11_LBCMOPII	11	24MAR11	28MAR11	6.3364	0.4225	6.7
860900_11_LBCMOPII	60	03APR11	07MAY11	6.8933	0.5596	8.1
861300_11_LBCMOPII	45	01MAY11	04JUN11	6.7733	0.3394	5.0
861400_11_LBCMOPII	42	16MAY11	13JUN11	6.8810	0.4151	6.0
861700_11_LBCMOPII	5	04JUN11	06JUN11	6.3000	0.5657	9.0
862100_11_LBCMOPII	31	13JUN11	18JUL11	6.5613	0.3801	5.8
861900_11_LBCMOPII	17	16JUN11	26JUN11	6.5412	0.3242	5.0
862800_11_LBCMOPII	24	17JUL11	05AUG11	6.8375	0.4490	6.6
862700_11_LBCMOPII	20	18JUL11	31JUL11	6.5550	0.4571	7.0
863200_11_LBCMOPII	27	06AUG11	21AUG11	6.2222	0.4894	7.9
863100_11_LBCMOPII	40	08AUG11	01SEP11	6.4800	0.4177	6.4
863400_11_LBCMOPII	24	27AUG11	12SEP11	6.5167	0.4669	7.2
863500_11_LBCMOPII	17	01SEP11	12SEP11	6.5529	0.4989	7.6
863800_11_LBCMOPII	25	15SEP11	02OCT11	6.3400	0.8251	13.0
863900_11_LBCMOPII	76	20SEP11	04NOV11	6.3000	0.7993	12.7
864300_11_LBCMOPII	23	15OCT11	30OCT11	6.1130	0.3123	5.1
864400_11_LBCMOPII	27	05NOV11	21NOV11	6.6815	0.4812	7.2
864800_11_LBCMOPII	50	10NOV11	19DEC11	6.1580	0.4491	7.3
865000_11_LBCMOPII	36	02DEC11	21DEC11	6.0083	0.3996	6.6
865800_12_LBCMOPII	32	10JAN12	02FEB12	6.5594	0.3834	5.8
865500_12_LBCMOPII	19	12JAN12	23JAN12	6.5316	0.3384	5.2
866100_12_LBCMOPII	58	30JAN12	29FEB12	6.0517	0.3876	6.4
865900_12_LBCMOPII	23	02FEB12	16FEB12	6.4000	0.5283	8.3
866500_12_LBCMOPII	91	20FEB12	02APR12	6.6154	0.3844	5.8
866900_12_LBCMOPII	15	19MAR12	01APR12	6.9133	0.3420	4.9
867000_12_LBCMOPII	15	02APR12	13APR12	6.8600	0.4997	7.3
867300_12_LBCMOPII	43	11APR12	05MAY12	6.6860	0.5379	8.0
867100_12_LBCMOPII	26	27APR12	11MAY12	6.5423	0.3849	5.9
867500_12_LBCMOPII	20	05MAY12	17MAY12	6.6450	0.4883	7.3
867800_12_LBCMOPII	38	11MAY12	06JUN12	6.4579	0.3681	5.7
868100_12_LBCMOPII	72	22MAY12	27JUN12	6.7653	0.4535	6.7
868300_12_LBCMOPII	4	25JUN12	26JUN12	7.2250	0.1258	1.7
869000_12_LBCMOPII	84	14JUL12	16AUG12	7.2274	0.4392	6.1
869500_12_LBCMOPII	40	10AUG12	01SEP12	6.9625	0.4081	5.9
869400_12_LBCMOPII	11	16AUG12	24AUG12	7.0364	0.4717	6.7
860400_12_LBCMOPII	58	29AUG12	12NOV12	6.4448	0.2848	4.4
869600_12_LBCMOPII	48	29AUG12	30SEP12	6.4729	0.2879	4.4
869700_12_LBCMOPII	31	01SEP12	19SEP12	6.4871	0.4014	6.2
869800_12_LBCMOPII	27	18SEP12	08OCT12	6.5481	0.2737	4.2
860200_12_LBCMOPII	46	30SEP12	02NOV12	6.3196	0.3429	5.4
860800_12_LBCMOPII	51	14NOV12	12DEC12	6.4314	0.3467	5.4
861000_12_LBCMOPII	7	12DEC12	16DEC12	6.4429	0.3047	4.7


2011-2012 Monocyte (%) (Abn II) Quality Control
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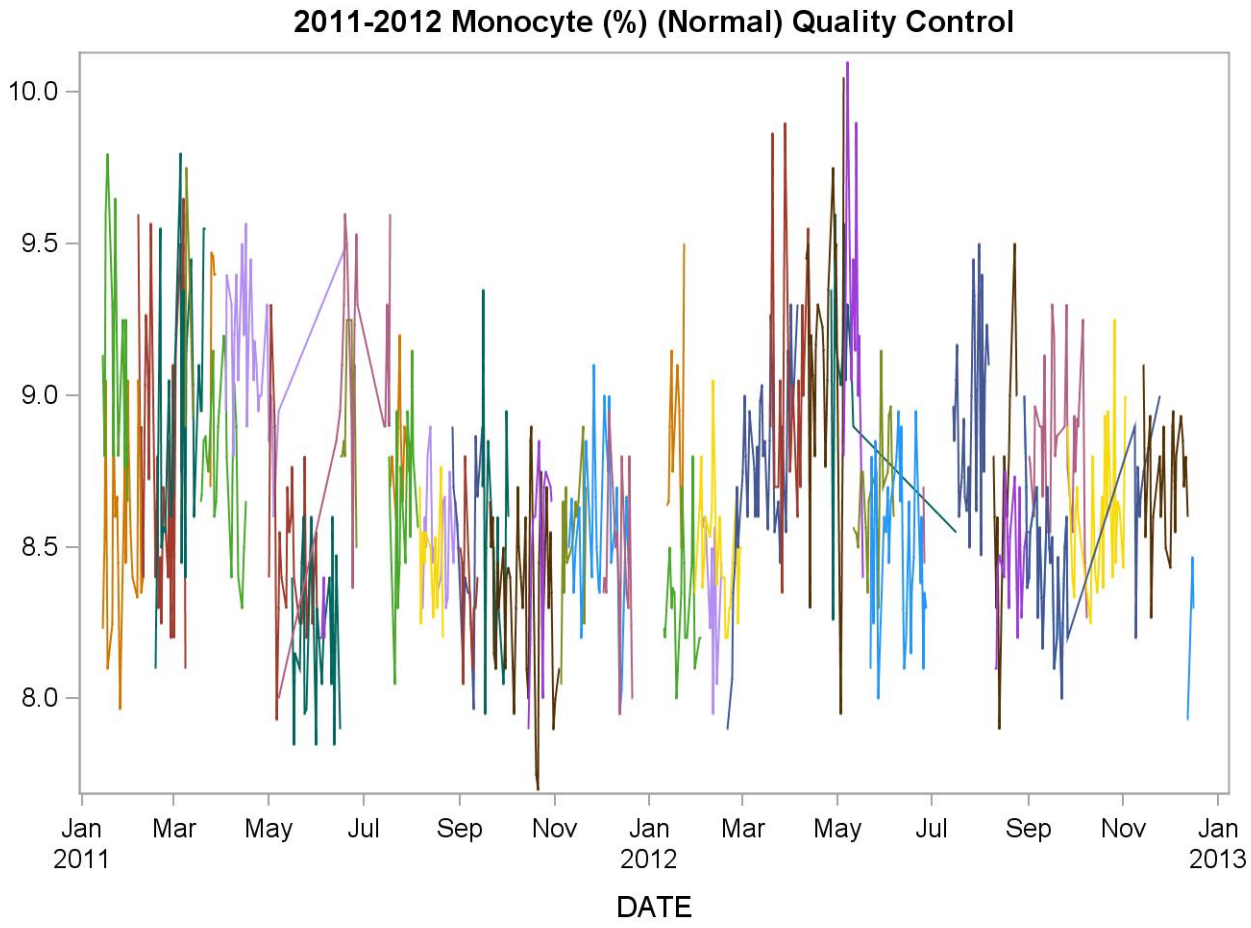
Summary Statistics for Monocyte (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCMOPN	50	14JAN11	09FEB11	8.5660	0.4784	5.6
889900_11_LBCMOPN	24	14JAN11	30JAN11	9.1000	0.3956	4.3
880200_11_LBCMOPN	58	06FEB11	08MAR11	8.8224	0.5974	6.8
880500_11_LBCMOPN	49	17FEB11	21MAR11	8.9633	0.5869	6.5
880700_11_LBCMOPN	9	08MAR11	13MAR11	9.1667	0.7810	8.5
881100_11_LBCMOPN	47	18MAR11	16APR11	8.7830	0.3212	3.7
881000_11_LBCMOPN	19	24MAR11	28MAR11	9.4053	0.4720	5.0
881300_11_LBCMOPN	63	03APR11	20JUN11	9.1365	0.3433	3.8
881700_11_LBCMOPN	47	01MAY11	04JUN11	8.4383	0.4105	4.9
882600_11_LBCMOPN	35	07MAY11	18JUL11	9.0857	0.4609	5.1
881800_11_LBCMOPN	43	16MAY11	16JUN11	8.2349	0.4498	5.5
882100_11_LBCMOPN	5	04JUN11	06JUN11	8.2800	0.4438	5.4
882200_11_LBCMOPN	19	16JUN11	26JUN11	8.9000	0.3621	4.1
883300_11_LBCMOPN	27	17JUL11	05AUG11	8.6370	0.3618	4.2
883200_11_LBCMOPN	19	18JUL11	31JUL11	8.8211	0.2720	3.1
884000_11_LBCMOPN	27	06AUG11	21AUG11	8.4704	0.2985	3.5
883700_11_LBCMOPN	39	08AUG11	01SEP11	8.5154	0.3022	3.5
884100_11_LBCMOPN	29	27AUG11	15SEP11	8.4862	0.4494	5.3
884300_11_LBCMOPN	18	01SEP11	12SEP11	8.3556	0.3451	4.1
884600_11_LBCMOPN	25	15SEP11	02OCT11	8.4920	0.4838	5.7
884700_11_LBCMOPN	79	20SEP11	04NOV11	8.3152	0.4878	5.9
885100_11_LBCMOPN	24	15OCT11	30OCT11	8.5375	0.3645	4.3
885200_11_LBCMOPN	26	05NOV11	21NOV11	8.5385	0.3623	4.2
885600_11_LBCMOPN	66	10NOV11	19DEC11	8.5485	0.4062	4.8
885900_11_LBCMOPN	39	02DEC11	21DEC11	8.4436	0.4235	5.0
886600_12_LBCMOPN	36	10JAN12	03FEB12	8.3389	0.3045	3.7
886300_12_LBCMOPN	23	12JAN12	23JAN12	8.8348	0.4735	5.4
886900_12_LBCMOPN	59	30JAN12	29FEB12	8.4814	0.3980	4.7
886700_12_LBCMOPN	22	03FEB12	16FEB12	8.4182	0.3527	4.2
887400_12_LBCMOPN	94	20FEB12	05APR12	8.7574	0.4476	5.1
887800_12_LBCMOPN	34	19MAR12	13APR12	9.0353	0.5204	5.8
888200_12_LBCMOPN	47	11APR12	05MAY12	9.1553	0.5985	6.5
888100_12_LBCMOPN	30	27APR12	16JUL12	9.0067	0.6833	7.6
888500_12_LBCMOPN	18	05MAY12	17MAY12	9.2611	0.6204	6.7
888700_12_LBCMOPN	39	11MAY12	06JUN12	8.6846	0.3192	3.7
889000_12_LBCMOPN	78	22MAY12	27JUN12	8.4712	0.4228	5.0
889500_12_LBCMOPN	5	25JUN12	26JUN12	8.6000	0.2646	3.1
880100_12_LBCMOPN	76	14JUL12	06AUG12	8.9013	0.5204	5.8
880500_12_LBCMOPN	20	09AUG12	24AUG12	8.7550	0.4524	5.2
880600_12_LBCMOPN	45	10AUG12	01SEP12	8.4467	0.3409	4.0
880700_12_LBCMOPN	50	29AUG12	26SEP12	8.4280	0.4160	4.9
881500_12_LBCMOPN	65	29AUG12	24NOV12	8.4815	0.4058	4.8
880900_12_LBCMOPN	62	01SEP12	08OCT12	8.8339	0.4004	4.5
881300_12_LBCMOPN	58	26SEP12	02NOV12	8.5914	0.3658	4.3
882000_12_LBCMOPN	48	14NOV12	12DEC12	8.7229	0.3953	4.5
882200_12_LBCMOPN	8	12DEC12	16DEC12	8.2250	0.4027	4.9


2011-2012 Monocyte (%) (Normal) Quality Control
10.0
9.5
9.0
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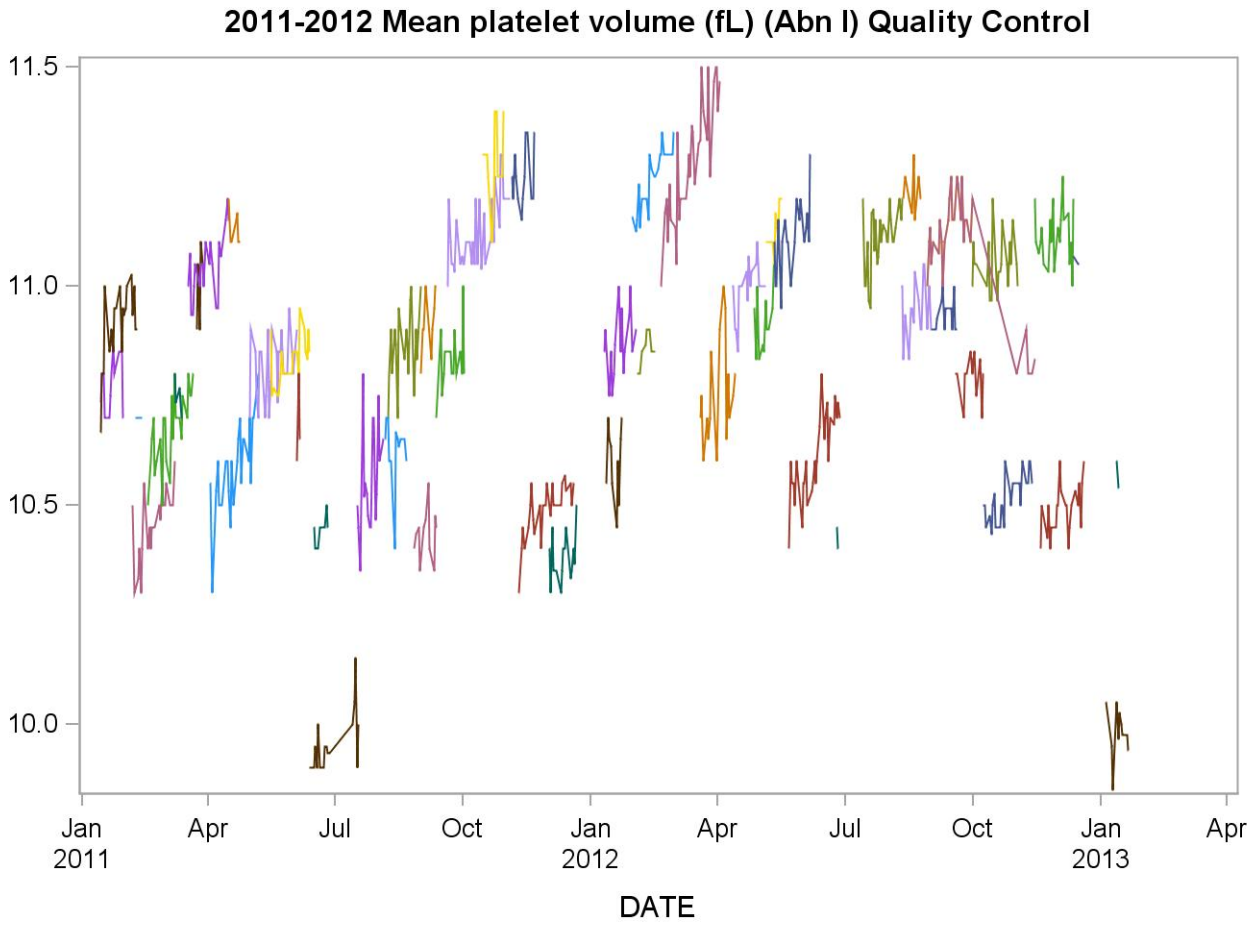
Summary Statistics for Mean platelet volume (fL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCMPVI	25	14JAN11	30JAN11	10.7880	0.0881	0.8
879800_11_LBCMPVI	49	14JAN11	09FEB11	10.9102	0.1046	1.0
870300_11_LBCMPVI	47	06FEB11	08MAR11	10.4532	0.0881	0.8
870200_11_LBCMPVI	7	08FEB11	13FEB11	10.7000	0.0577	0.5
870500_11_LBCMPVI	49	17FEB11	21MAR11	10.6755	0.0969	0.9
870900_11_LBCMPVI	9	08MAR11	13MAR11	10.7444	0.0882	0.8
871200_11_LBCMPVI	48	18MAR11	16APR11	11.0417	0.0871	0.8
871100_11_LBCMPVI	10	24MAR11	28MAR11	11.0200	0.1135	1.0
871400_11_LBCMPVI	47	03APR11	07MAY11	10.5809	0.1014	1.0
871500_11_LBCMPVI	13	16APR11	24APR11	11.1308	0.0480	0.4
871900_11_LBCMPVI	46	01MAY11	04JUN11	10.8109	0.1016	0.9
872000_11_LBCMPVI	42	16MAY11	13JUN11	10.8262	0.0798	0.7
872200_11_LBCMPVI	5	04JUN11	06JUN11	10.7000	0.1000	0.9
872600_11_LBCMPVI	34	13JUN11	18JUL11	9.9559	0.0991	1.0
872400_11_LBCMPVI	18	16JUN11	26JUN11	10.4389	0.0608	0.6
873200_11_LBCMPVI	43	17JUL11	05AUG11	10.5395	0.1664	1.6
873700_11_LBCMPVI	26	06AUG11	21AUG11	10.6269	0.0919	0.9
873600_11_LBCMPVI	39	08AUG11	01SEP11	10.8590	0.1093	1.0
873900_11_LBCMPVI	28	27AUG11	12SEP11	10.4393	0.0737	0.7
874100_11_LBCMPVI	17	01SEP11	12SEP11	10.9176	0.0883	0.8
874400_11_LBCMPVI	26	12SEP11	02OCT11	10.8346	0.0846	0.8
874500_11_LBCMPVI	80	20SEP11	04NOV11	11.1138	0.1177	1.1
874900_11_LBCMPVI	27	15OCT11	30OCT11	11.3000	0.1109	1.0
875000_11_LBCMPVI	29	05NOV11	21NOV11	11.2448	0.1021	0.9
875400_11_LBCMPVI	66	10NOV11	19DEC11	10.4833	0.0834	0.8
875700_11_LBCMPVI	37	02DEC11	21DEC11	10.3784	0.0854	0.8
876500_12_LBCMPVI	33	10JAN12	02FEB12	10.8636	0.0895	0.8
876100_12_LBCMPVI	22	12JAN12	23JAN12	10.6045	0.0999	0.9
876800_12_LBCMPVI	60	30JAN12	29FEB12	11.2333	0.0968	0.9
876600_12_LBCMPVI	22	03FEB12	16FEB12	10.8545	0.0671	0.6
877300_12_LBCMPVI	92	20FEB12	02APR12	11.2848	0.1452	1.3
877800_12_LBCMPVI	29	19MAR12	13APR12	10.7724	0.1251	1.2
878200_12_LBCMPVI	44	11APR12	05MAY12	10.9977	0.0821	0.7
878100_12_LBCMPVI	25	27APR12	11MAY12	10.9040	0.0978	0.9
878500_12_LBCMPVI	19	05MAY12	17MAY12	11.1263	0.0872	0.8
878600_12_LBCMPVI	38	11MAY12	06JUN12	11.1105	0.0924	0.8
879000_12_LBCMPVI	74	22MAY12	27JUN12	10.6318	0.1115	1.0
879300_12_LBCMPVI	4	25JUN12	26JUN12	10.4250	0.0500	0.5
870000_12_LBCMPVI	83	14JUL12	11AUG12	11.1096	0.1007	0.9
870500_12_LBCMPVI	43	10AUG12	01SEP12	10.9395	0.0877	0.8
870400_12_LBCMPVI	15	12AUG12	24AUG12	11.2067	0.0704	0.6
870600_12_LBCMPVI	54	29AUG12	30SEP12	11.1370	0.0896	0.8
871400_12_LBCMPVI	71	29AUG12	14NOV12	11.0592	0.1644	1.5
870700_12_LBCMPVI	32	01SEP12	19SEP12	10.9313	0.0535	0.5
870800_12_LBCMPVI	29	18SEP12	08OCT12	10.8000	0.0886	0.8
871200_12_LBCMPVI	47	30SEP12	02NOV12	11.0447	0.0855	0.8
1.3293E8_12_LBCMPVI	68	08OCT12	12NOV12	10.5162	0.0745	0.7
871800_12_LBCMPVI	49	14NOV12	12DEC12	11.1163	0.0825	0.7
1.3296E8_12_LBCMPVI	47	18NOV12	19DEC12	10.4894	0.0759	0.7
872000_12_LBCMPVI	7	12DEC12	16DEC12	11.0571	0.0535	0.5
1.3297E8_13_LBCMPVI	32	04JAN13	20JAN13	9.9781	0.0751	0.8
1.3296E8_13_LBCMPVI	13	12JAN13	13JAN13	10.5769	0.0599	0.6


2011-2012 Mean platelet volume (fL) (Abn l) Quality Control
11.5
11.0
10.5
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Apr
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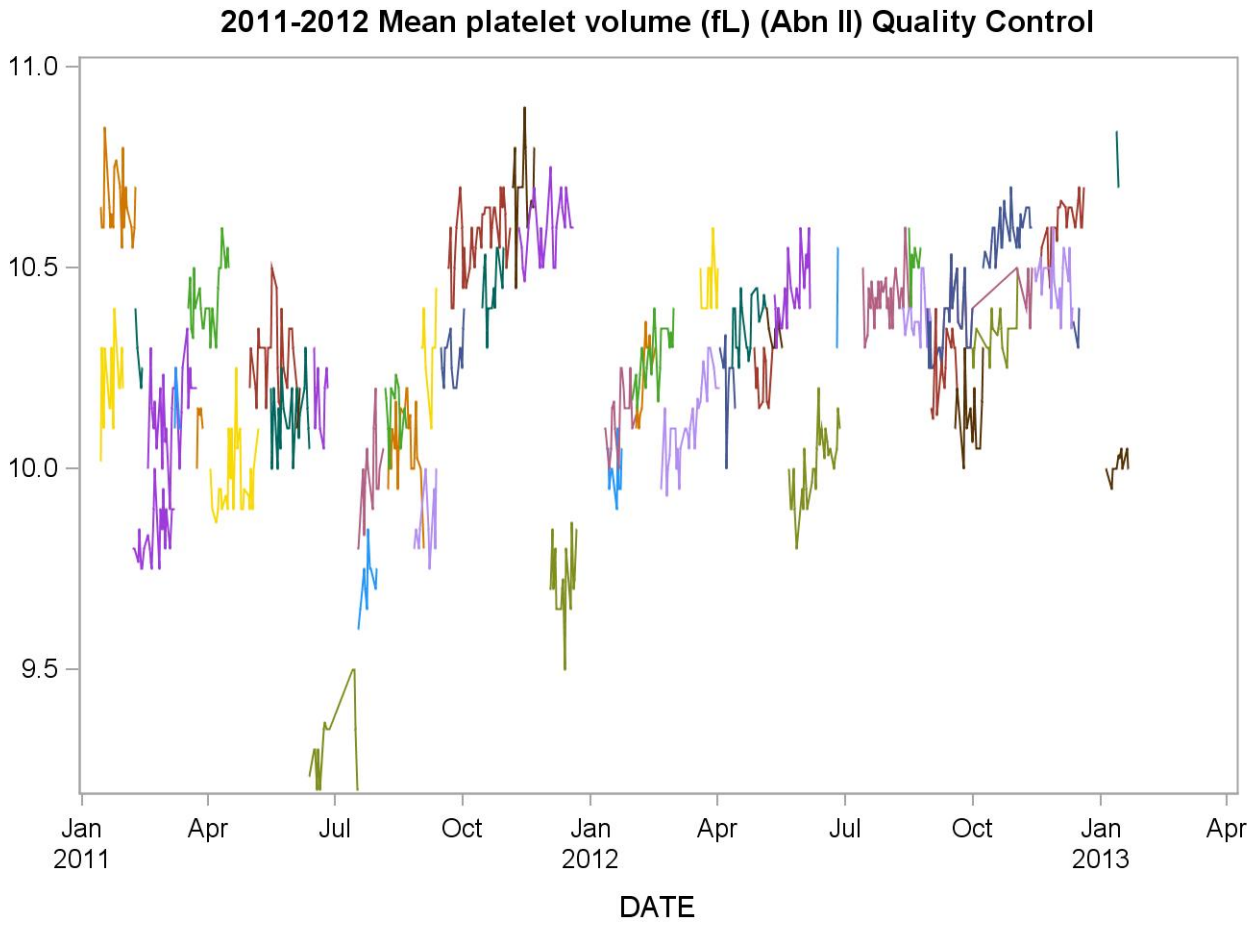
Summary Statistics for Mean platelet volume (fL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCMPVII	46	14JAN11	08FEB11	10.6543	0.1130	1.1
869600_11_LBCMPVII	33	14JAN11	30JAN11	10.1545	0.1543	1.5
869900_11_LBCMPVII	49	06FEB11	08MAR11	9.8347	0.0948	1.0
869800_11_LBCMPVII	7	08FEB11	13FEB11	10.2714	0.1113	1.1
860100_11_LBCMPVII	54	17FEB11	24MAR11	10.1500	0.1240	1.2
860400_11_LBCMPVII	7	08MAR11	13MAR11	10.1429	0.0976	1.0
860700_11_LBCMPVII	49	18MAR11	16APR11	10.4204	0.0935	0.9
860600_11_LBCMPVII	11	24MAR11	28MAR11	10.1182	0.0874	0.9
860900_11_LBCMPVII	60	03APR11	07MAY11	9.9850	0.1624	1.6
861300_11_LBCMPVII	46	01MAY11	04JUN11	10.2739	0.1144	1.1
861400_11_LBCMPVII	43	16MAY11	13JUN11	10.1256	0.1026	1.0
861700_11_LBCMPVII	5	04JUN11	06JUN11	10.1600	0.0548	0.5
862100_11_LBCMPVII	32	13JUN11	18JUL11	9.3219	0.1128	1.2
861900_11_LBCMPVII	18	16JUN11	26JUN11	10.1833	0.1098	1.1
862800_11_LBCMPVII	26	17JUL11	05AUG11	9.9731	0.1218	1.2
862700_11_LBCMPVII	21	18JUL11	31JUL11	9.7143	0.0910	0.9
863200_11_LBCMPVII	28	06AUG11	21AUG11	10.1571	0.1103	1.1
863100_11_LBCMPVII	42	08AUG11	03SEP11	10.0786	0.1298	1.3
863400_11_LBCMPVII	24	27AUG11	12SEP11	9.8667	0.1129	1.1
863500_11_LBCMPVII	19	01SEP11	12SEP11	10.3000	0.1054	1.0
863800_11_LBCMPVII	25	15SEP11	02OCT11	10.2760	0.0723	0.7
863900_11_LBCMPVII	76	20SEP11	04NOV11	10.5711	0.1141	1.1
864300_11_LBCMPVII	23	15OCT11	30OCT11	10.4652	0.1071	1.0
864400_11_LBCMPVII	28	05NOV11	21NOV11	10.7036	0.1319	1.2
864800_11_LBCMPVII	49	10NOV11	19DEC11	10.6000	0.1099	1.0
865000_11_LBCMPVII	36	02DEC11	21DEC11	9.7278	0.1301	1.3
865800_12_LBCMPVII	32	10JAN12	02FEB12	10.1344	0.1310	1.3
865500_12_LBCMPVII	20	12JAN12	23JAN12	10.0000	0.0725	0.7
866100_12_LBCMPVII	58	30JAN12	29FEB12	10.2690	0.1079	1.1
865900_12_LBCMPVII	23	02FEB12	16FEB12	10.2348	0.1335	1.3
866500_12_LBCMPVII	92	20FEB12	02APR12	10.1174	0.1323	1.3
866900_12_LBCMPVII	15	19MAR12	01APR12	10.4533	0.0834	0.8
867000_12_LBCMPVII	19	02APR12	13APR12	10.2579	0.1427	1.4
867300_12_LBCMPVII	43	11APR12	05MAY12	10.3558	0.0983	0.9
867100_12_LBCMPVII	26	27APR12	11MAY12	10.2231	0.1070	1.0
867500_12_LBCMPVII	20	05MAY12	17MAY12	10.3400	0.0821	0.8
867800_12_LBCMPVII	38	11MAY12	06JUN12	10.4342	0.0966	0.9
868100_12_LBCMPVII	73	22MAY12	27JUN12	10.0151	0.1126	1.1
868300_12_LBCMPVII	4	25JUN12	26JUN12	10.4250	0.1708	1.6
869000_12_LBCMPVII	83	14JUL12	16AUG12	10.4217	0.0884	0.8
869500_12_LBCMPVII	40	10AUG12	01SEP12	10.3800	0.0853	0.8
869400_12_LBCMPVII	12	16AUG12	24AUG12	10.5250	0.0866	0.8
860400_12_LBCMPVII	60	29AUG12	12NOV12	10.3783	0.1043	1.0
869600_12_LBCMPVII	49	29AUG12	30SEP12	10.3633	0.1055	1.0
869700_12_LBCMPVII	31	01SEP12	19SEP12	10.2323	0.1222	1.2
869800_12_LBCMPVII	27	18SEP12	08OCT12	10.1370	0.1006	1.0
860200_12_LBCMPVII	46	30SEP12	02NOV12	10.3304	0.0785	0.8
1.4293E8_12_LBCMPVII	64	08OCT12	12NOV12	10.5875	0.0807	0.8
860800_12_LBCMPVII	53	14NOV12	12DEC12	10.4755	0.1090	1.0
1.4296E8_12_LBCMPVII	45	18NOV12	19DEC12	10.6111	0.0745	0.7
861000_12_LBCMPVII	7	12DEC12	16DEC12	10.3571	0.0787	0.8
1.4297E8_13_LBCMPVII	32	04JAN13	20JAN13	10.0156	0.0628	0.6
1.4296E8_13_LBCMPVII	9	12JAN13	13JAN13	10.7778	0.0972	0.9


2011-2012 Mean platelet volume (fL) (Abn ll) Quality Control
11.0
10.5
10.0
9.5
Jan
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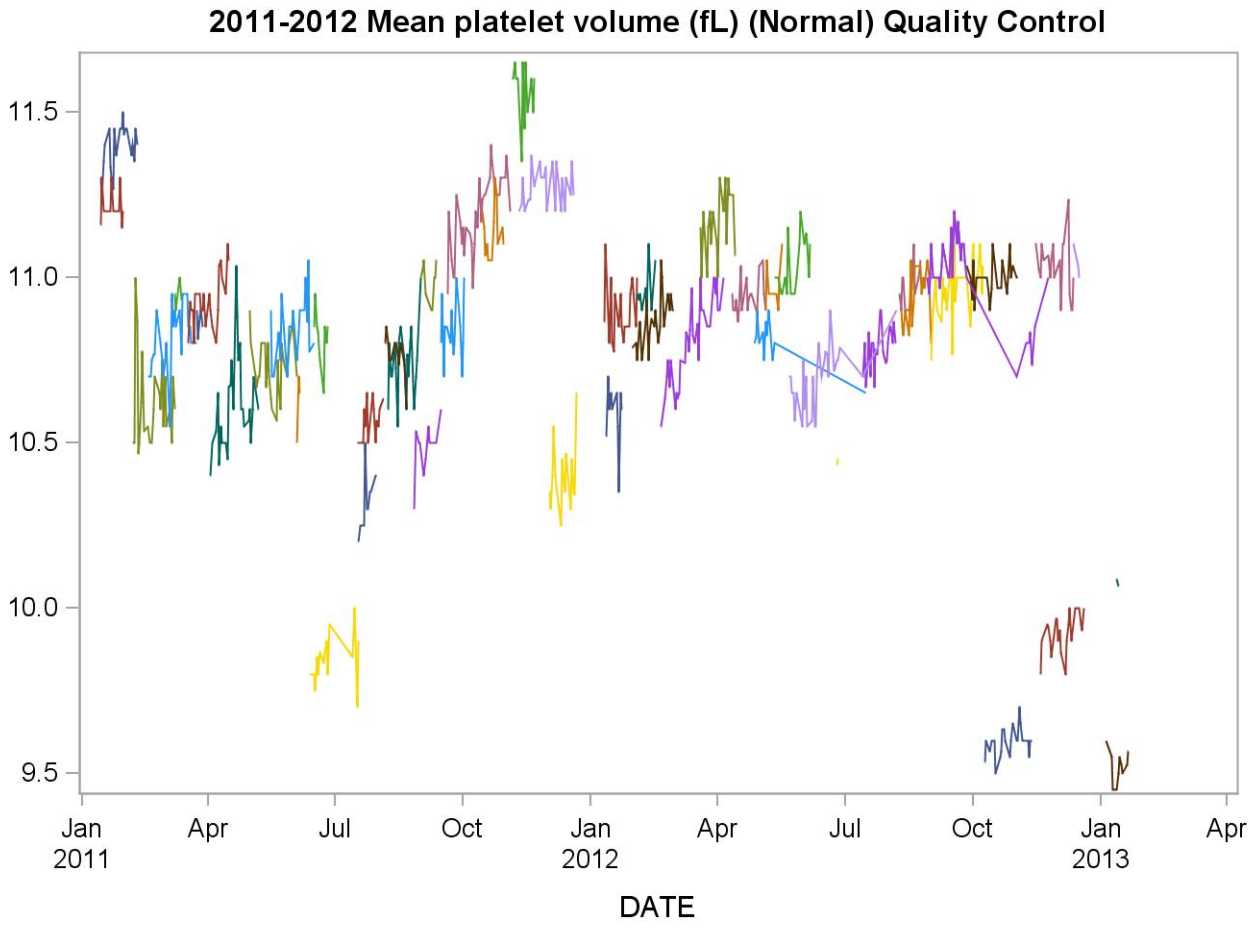
Apr
DATE

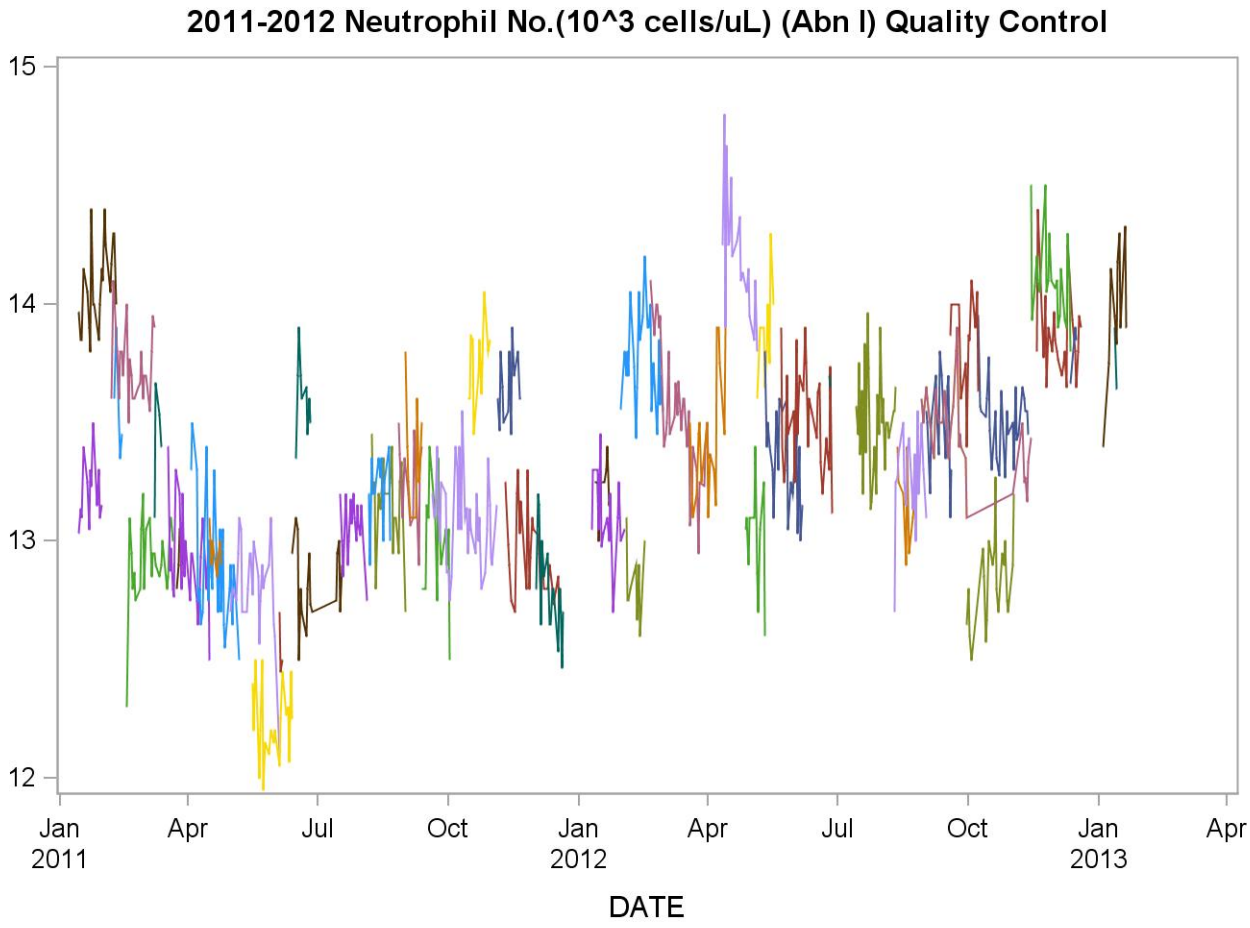
Summary Statistics for Mean platelet volume (fL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCMPVN	49	14JAN11	09FEB11	11.3776	0.1046	0.9
889900_11_LBCMPVN	25	14JAN11	30JAN11	11.2160	0.0898	0.8
880200_11_LBCMPVN	59	06FEB11	08MAR11	10.6102	0.1459	1.4
880500_11_LBCMPVN	51	17FEB11	24MAR11	10.8098	0.1136	1.1
880700_11_LBCMPVN	9	08MAR11	13MAR11	10.9444	0.0882	0.8
881100_11_LBCMPVN	48	18MAR11	16APR11	10.9250	0.1021	0.9
881000_11_LBCMPVN	19	24MAR11	28MAR11	10.8579	0.1387	1.3
881300_11_LBCMPVN	64	03APR11	07MAY11	10.6406	0.1966	1.8
881700_11_LBCMPVN	48	01MAY11	04JUN11	10.7125	0.1196	1.1
881800_11_LBCMPVN	45	16MAY11	16JUN11	10.8378	0.1248	1.2
882100_11_LBCMPVN	5	04JUN11	06JUN11	10.6400	0.0894	0.8
882600_11_LBCMPVN	35	13JUN11	18JUL11	9.8514	0.0919	0.9
882200_11_LBCMPVN	19	16JUN11	26JUN11	10.8211	0.1032	1.0
883300_11_LBCMPVN	27	17JUL11	05AUG11	10.5704	0.0823	0.8
883200_11_LBCMPVN	19	18JUL11	31JUL11	10.3368	0.1012	1.0
884000_11_LBCMPVN	27	06AUG11	21AUG11	10.7704	0.0912	0.8
883700_11_LBCMPVN	40	08AUG11	01SEP11	10.7325	0.1228	1.1
884100_11_LBCMPVN	30	27AUG11	15SEP11	10.4933	0.1048	1.0
884300_11_LBCMPVN	18	01SEP11	12SEP11	10.9889	0.1023	0.9
884600_11_LBCMPVN	25	15SEP11	02OCT11	10.8280	0.1173	1.1
884700_11_LBCMPVN	80	20SEP11	04NOV11	11.1863	0.1532	1.4
885100_11_LBCMPVN	24	15OCT11	30OCT11	11.1292	0.1367	1.2
885200_11_LBCMPVN	26	05NOV11	21NOV11	11.5654	0.1129	1.0
885600_11_LBCMPVN	67	10NOV11	19DEC11	11.2761	0.0986	0.9
885900_11_LBCMPVN	40	02DEC11	21DEC11	10.3950	0.1377	1.3
886600_12_LBCMPVN	36	10JAN12	03FEB12	10.8833	0.1424	1.3
886300_12_LBCMPVN	23	12JAN12	23JAN12	10.5783	0.1166	1.1
886900_12_LBCMPVN	60	30JAN12	29FEB12	10.8567	0.1047	1.0
886700_12_LBCMPVN	22	03FEB12	16FEB12	10.9727	0.0935	0.9
887400_12_LBCMPVN	94	20FEB12	05APR12	10.8053	0.1454	1.3
887800_12_LBCMPVN	34	19MAR12	13APR12	11.1588	0.1104	1.0
888200_12_LBCMPVN	47	11APR12	05MAY12	10.9468	0.1018	0.9
888100_12_LBCMPVN	30	27APR12	16JUL12	10.8100	0.1125	1.0
888500_12_LBCMPVN	18	05MAY12	17MAY12	10.9722	0.1018	0.9
888700_12_LBCMPVN	39	11MAY12	06JUN12	11.0308	0.1004	0.9
889000_12_LBCMPVN	80	22MAY12	07AUG12	10.7056	0.1222	1.1
889500_12_LBCMPVN	5	25JUN12	26JUN12	10.4400	0.0548	0.5
880100_12_LBCMPVN	76	14JUL12	06AUG12	10.7750	0.0802	0.7
880500_12_LBCMPVN	20	09AUG12	24AUG12	10.9700	0.0733	0.7
880600_12_LBCMPVN	45	10AUG12	01SEP12	10.9356	0.1190	1.1
880700_12_LBCMPVN	49	29AUG12	26SEP12	11.0531	0.0981	0.9
881500_12_LBCMPVN	65	29AUG12	24NOV12	10.9923	0.1418	1.3
880900_12_LBCMPVN	62	01SEP12	08OCT12	10.9532	0.1302	1.2
881300_12_LBCMPVN	57	26SEP12	02NOV12	10.9895	0.0859	0.8
1.2293E8_12_LBCMPVN	62	09OCT12	12NOV12	9.5952	0.0612	0.6
882000_12_LBCMPVN	48	14NOV12	12DEC12	11.0479	0.1010	0.9
1.2296E8_12_LBCMPVN	51	18NOV12	19DEC12	9.9333	0.0683	0.7
882200_12_LBCMPVN	8	12DEC12	16DEC12	11.0500	0.1069	1.0
1.2297E8_13_LBCMPVN	32	04JAN13	20JAN13	9.5250	0.0718	0.8
1.2296E8_13_LBCMPVN	11	12JAN13	13JAN13	10.0818	0.0751	0.7


2011-2012 Mean platelet volume (fL) (Normal) Quality Control
11.5
11.0
10.5
10.0
9.5
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for Neutrophil No.(10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCNENI	25	14JAN11	30JAN11	13.1800	0.1979	1.5
879800_11_LBCNENI	49	14JAN11	09FEB11	14.0673	0.2897	2.1
870300_11_LBCNENI	47	06FEB11	08MAR11	13.7277	0.2310	1.7
870200_11_LBCNENI	7	08FEB11	13FEB11	13.5714	0.3039	2.2
870500_11_LBCNENI	48	17FEB11	21MAR11	12.9313	0.2261	1.7
870900_11_LBCNENI	9	08MAR11	13MAR11	13.5000	0.2958	2.2
871200_11_LBCNENI	49	18MAR11	16APR11	12.9143	0.2814	2.2
871100_11_LBCNENI	10	24MAR11	28MAR11	12.9700	0.1567	1.2
871400_11_LBCNENI	47	03APR11	07MAY11	12.8979	0.3124	2.4
871500_11_LBCNENI	14	16APR11	24APR11	12.9500	0.2534	2.0
871900_11_LBCNENI	45	01MAY11	04JUN11	12.8133	0.2642	2.1
872000_11_LBCNENI	42	16MAY11	13JUN11	12.2310	0.2300	1.9
872200_11_LBCNENI	5	04JUN11	06JUN11	12.5200	0.2049	1.6
872600_11_LBCNENI	34	13JUN11	18JUL11	12.8176	0.2552	2.0
872400_11_LBCNENI	18	16JUN11	26JUN11	13.6056	0.2920	2.1
873200_11_LBCNENI	43	17JUL11	05AUG11	13.0372	0.2000	1.5
873700_11_LBCNENI	24	06AUG11	21AUG11	13.2167	0.2514	1.9
873600_11_LBCNENI	39	08AUG11	01SEP11	13.1897	0.2349	1.8
873900_11_LBCNENI	28	27AUG11	12SEP11	13.2429	0.2755	2.1
874100_11_LBCNENI	17	01SEP11	12SEP11	13.3294	0.3037	2.3
874400_11_LBCNENI	26	12SEP11	02OCT11	13.0423	0.2641	2.0
874500_11_LBCNENI	80	20SEP11	04NOV11	13.0788	0.2759	2.1
874900_11_LBCNENI	26	15OCT11	30OCT11	13.7423	0.1770	1.3
875000_11_LBCNENI	29	05NOV11	21NOV11	13.6448	0.2245	1.6
875400_11_LBCNENI	66	10NOV11	19DEC11	12.9333	0.2685	2.1
875700_11_LBCNENI	37	02DEC11	21DEC11	12.7676	0.2322	1.8
876500_12_LBCNENI	33	10JAN12	02FEB12	13.0758	0.2250	1.7
876100_12_LBCNENI	21	12JAN12	23JAN12	13.2286	0.2239	1.7
876800_12_LBCNENI	59	30JAN12	29FEB12	13.7424	0.2866	2.1
876600_12_LBCNENI	22	03FEB12	16FEB12	12.8273	0.2251	1.8
877300_12_LBCNENI	92	20FEB12	02APR12	13.5283	0.3388	2.5
877800_12_LBCNENI	29	19MAR12	13APR12	13.4517	0.3043	2.3
878200_12_LBCNENI	44	11APR12	05MAY12	14.2295	0.3475	2.4
878100_12_LBCNENI	25	27APR12	11MAY12	13.0240	0.3244	2.5
878500_12_LBCNENI	19	05MAY12	17MAY12	13.8579	0.2388	1.7
878600_12_LBCNENI	38	11MAY12	06JUN12	13.3553	0.2892	2.2
879000_12_LBCNENI	74	22MAY12	27JUN12	13.4878	0.2979	2.2
879300_12_LBCNENI	4	25JUN12	26JUN12	13.6750	0.2062	1.5
870000_12_LBCNENI	82	14JUL12	11AUG12	13.5171	0.3227	2.4
870500_12_LBCNENI	43	10AUG12	01SEP12	13.2860	0.2842	2.1
870400_12_LBCNENI	15	12AUG12	24AUG12	13.1267	0.2463	1.9
870600_12_LBCNENI	53	29AUG12	30SEP12	13.5245	0.2441	1.8
871400_12_LBCNENI	69	29AUG12	14NOV12	13.4725	0.2496	1.9
870700_12_LBCNENI	32	01SEP12	19SEP12	13.5156	0.2725	2.0
870800_12_LBCNENI	29	18SEP12	08OCT12	13.7966	0.2921	2.1
871200_12_LBCNENI	48	30SEP12	02NOV12	12.8333	0.3165	2.5
1.3293E8_12_LBCNENI	67	08OCT12	12NOV12	13.5060	0.2679	2.0
871800_12_LBCNENI	49	14NOV12	12DEC12	14.1082	0.2637	1.9
1.3296E8_12_LBCNENI	47	18NOV12	19DEC12	13.8511	0.2404	1.7
872000_12_LBCNENI	7	12DEC12	16DEC12	13.7857	0.2545	1.8
1.3297E8_13_LBCNENI	32	04JAN13	20JAN13	14.0094	0.2955	2.1
1.3296E8_13_LBCNENI	13	12JAN13	13JAN13	13.8000	0.2799	2.0


2011-2012 Neutrophil No.(10^3 cells/uL) (Abn I) Quality Control
15
14
13
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Jan
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Jul
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Jul
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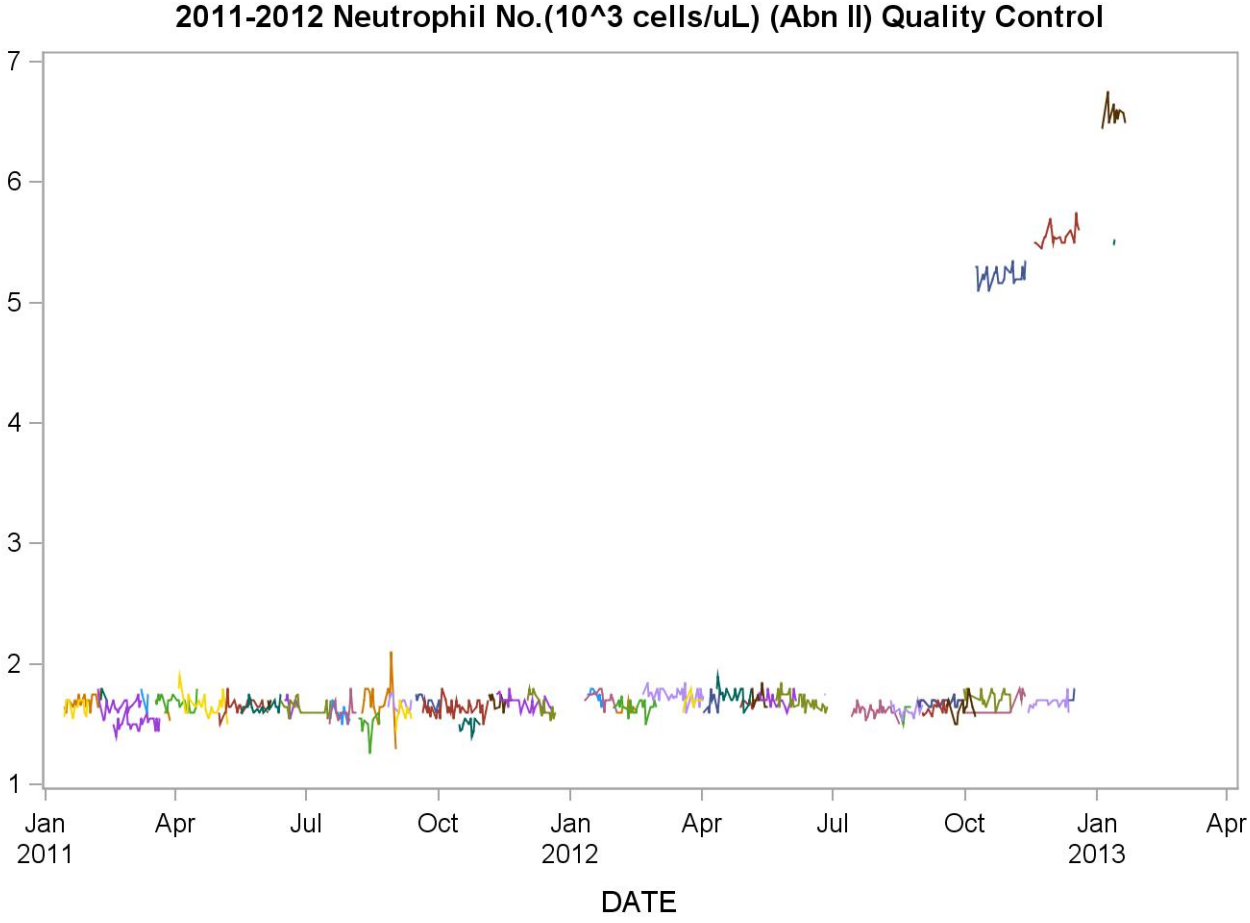
Jan
2013
Apr
DATE

Summary Statistics for Neutrophil No.(10^3 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCNENII	44	14JAN11	08FEB11	1.6864	0.0734	4.4
869600_11_LBCNENII	33	14JAN11	30JAN11	1.6182	0.0882	5.5
869900_11_LBCNENII	49	06FEB11	08MAR11	1.6510	0.0893	5.4
869800_11_LBCNENII	7	08FEB11	13FEB11	1.7286	0.0488	2.8
860100_11_LBCNENII	53	17FEB11	21MAR11	1.5094	0.0766	5.1
860400_11_LBCNENII	7	08MAR11	13MAR11	1.7143	0.1345	7.8
860700_11_LBCNENII	49	18MAR11	16APR11	1.6878	0.0754	4.5
860600_11_LBCNENII	11	24MAR11	28MAR11	1.5909	0.0701	4.4
860900_11_LBCNENII	60	03APR11	07MAY11	1.6550	0.0982	5.9
861300_11_LBCNENII	45	01MAY11	04JUN11	1.6578	0.0690	4.2
861400_11_LBCNENII	41	16MAY11	13JUN11	1.6463	0.0711	4.3
861700_11_LBCNENII	5	04JUN11	06JUN11	1.6800	0.0447	2.7
862100_11_LBCNENII	31	13JUN11	18JUL11	1.6548	0.0850	5.1
861900_11_LBCNENII	18	16JUN11	26JUN11	1.6722	0.0669	4.0
862800_11_LBCNENII	24	17JUL11	05AUG11	1.6042	0.0908	5.7
862700_11_LBCNENII	20	18JUL11	31JUL11	1.5800	0.0951	6.0
863200_11_LBCNENII	27	06AUG11	21AUG11	1.5037	0.1698	11.3
863100_11_LBCNENII	39	08AUG11	01SEP11	1.7231	0.2860	16.6
863400_11_LBCNENII	24	27AUG11	12SEP11	1.6750	0.0737	4.4
863500_11_LBCNENII	17	01SEP11	12SEP11	1.5824	0.0951	6.0
863800_11_LBCNENII	25	15SEP11	02OCT11	1.6920	0.0702	4.2
863900_11_LBCNENII	76	20SEP11	04NOV11	1.6342	0.0888	5.4
864300_11_LBCNENII	23	15OCT11	30OCT11	1.4957	0.0562	3.8
864400_11_LBCNENII	28	05NOV11	21NOV11	1.6929	0.0766	4.5
864800_11_LBCNENII	50	10NOV11	19DEC11	1.6840	0.0889	5.3
865000_11_LBCNENII	36	02DEC11	21DEC11	1.6472	0.1000	6.1
865800_12_LBCNENII	32	10JAN12	02FEB12	1.7250	0.0718	4.2
865500_12_LBCNENII	20	12JAN12	23JAN12	1.7400	0.0883	5.1
866100_12_LBCNENII	57	30JAN12	29FEB12	1.6509	0.0928	5.6
865900_12_LBCNENII	22	02FEB12	16FEB12	1.6182	0.0395	2.4
866500_12_LBCNENII	91	20FEB12	02APR12	1.7429	0.0858	4.9
866900_12_LBCNENII	15	19MAR12	01APR12	1.6933	0.0458	2.7
867000_12_LBCNENII	15	02APR12	13APR12	1.6733	0.1280	7.6
867300_12_LBCNENII	43	11APR12	05MAY12	1.7349	0.0897	5.2
867100_12_LBCNENII	26	27APR12	11MAY12	1.6731	0.0604	3.6
867500_12_LBCNENII	20	05MAY12	17MAY12	1.7150	0.0933	5.4
867800_12_LBCNENII	37	11MAY12	06JUN12	1.7081	0.0547	3.2
868100_12_LBCNENII	73	22MAY12	27JUN12	1.6849	0.0828	4.9
868300_12_LBCNENII	4	25JUN12	26JUN12	1.7500	0.0577	3.3
869000_12_LBCNENII	84	14JUL12	16AUG12	1.6143	0.0604	3.7
869500_12_LBCNENII	39	10AUG12	01SEP12	1.6154	0.0670	4.1
869400_12_LBCNENII	11	16AUG12	24AUG12	1.6000	0.0894	5.6
860400_12_LBCNENII	60	29AUG12	12NOV12	1.6950	0.0622	3.7
869600_12_LBCNENII	49	29AUG12	30SEP12	1.6837	0.0553	3.3
869700_12_LBCNENII	31	01SEP12	19SEP12	1.6323	0.0702	4.3
869800_12_LBCNENII	27	18SEP12	08OCT12	1.6296	0.0869	5.3
860200_12_LBCNENII	46	30SEP12	02NOV12	1.7261	0.0855	5.0
1.4293E8_12_LBCNENII	63	08OCT12	12NOV12	5.2317	0.1029	2.0
860800_12_LBCNENII	53	14NOV12	12DEC12	1.6792	0.0567	3.4
1.4296E8_12_LBCNENII	44	18NOV12	19DEC12	5.5568	0.0950	1.7
861000_12_LBCNENII	7	12DEC12	16DEC12	1.7286	0.0951	5.5
1.4297E8_13_LBCNENII	32	04JAN13	20JAN13	6.5594	0.1624	2.5
1.4296E8_13_LBCNENII	9	12JAN13	13JAN13	5.5000	0.0866	1.6


2011-2012 Neutrophil No.(10^3 cells/uL) (Abn II) Quality Control
7
6
5
4
3
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1
Jan
2011
Apr
Jul
Oct
Jan
2012
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Jul
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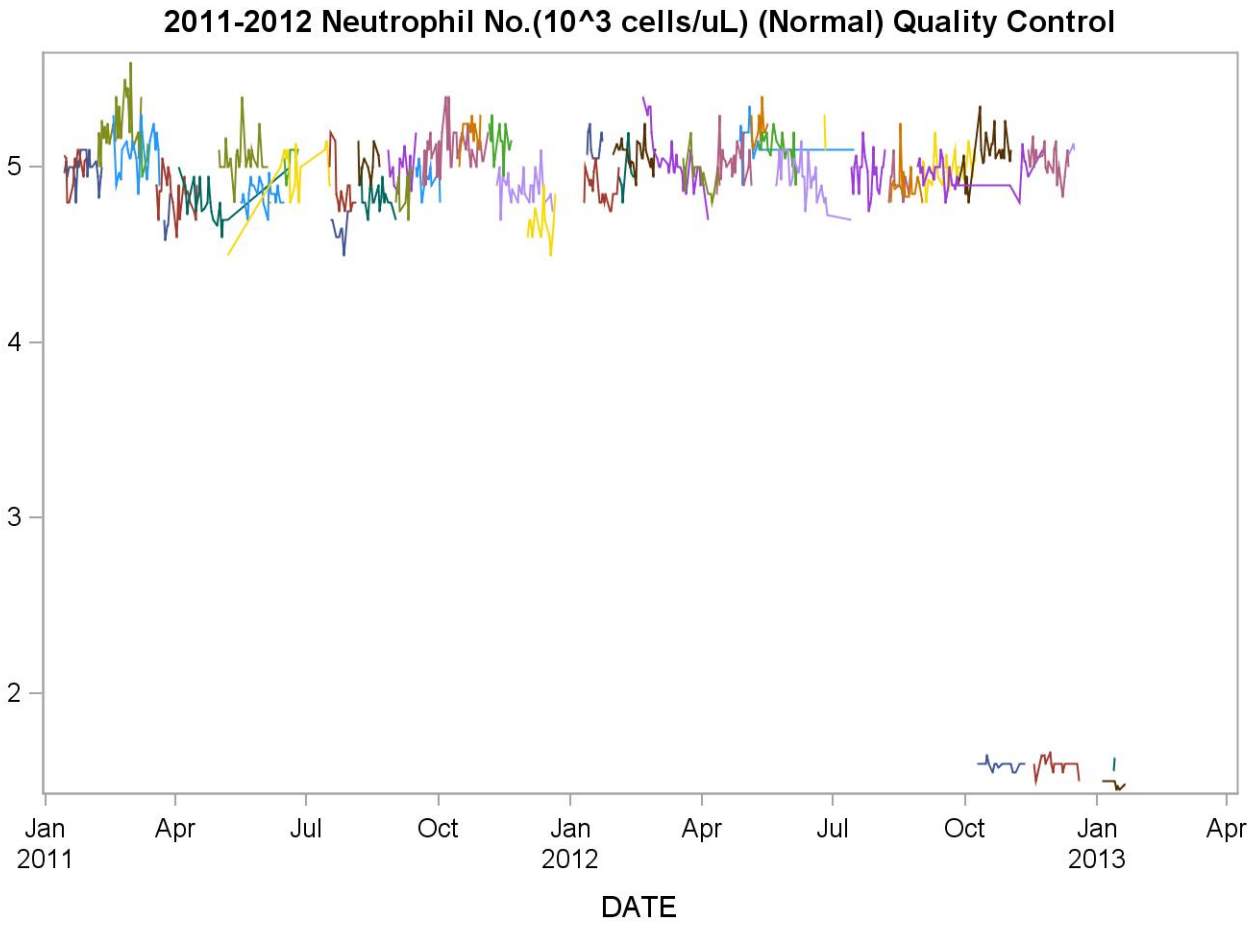
Jan
2013
Apr
DATE

Summary Statistics for Neutrophil No.(10^3 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCNENN	50	14JAN11	09FEB11	4.9900	0.1542	3.1
889900_11_LBCNENN	24	14JAN11	30JAN11	5.0083	0.1139	2.3
880200_11_LBCNENN	59	06FEB11	08MAR11	5.2271	0.1552	3.0
880500_11_LBCNENN	50	17FEB11	21MAR11	5.0580	0.1540	3.0
880700_11_LBCNENN	9	08MAR11	13MAR11	5.0889	0.1537	3.0
881100_11_LBCNENN	47	18MAR11	16APR11	4.8553	0.1501	3.1
881000_11_LBCNENN	19	24MAR11	28MAR11	4.6579	0.1305	2.8
881300_11_LBCNENN	63	03APR11	20JUN11	4.8048	0.1408	2.9
881700_11_LBCNENN	47	01MAY11	04JUN11	5.0511	0.1365	2.7
882600_11_LBCNENN	35	07MAY11	18JUL11	4.9800	0.1677	3.4
881800_11_LBCNENN	44	16MAY11	16JUN11	4.8523	0.1089	2.2
882100_11_LBCNENN	5	04JUN11	06JUN11	4.8000	0.0707	1.5
882200_11_LBCNENN	19	16JUN11	26JUN11	5.0316	0.1057	2.1
883300_11_LBCNENN	27	17JUL11	05AUG11	4.8667	0.1468	3.0
883200_11_LBCNENN	19	18JUL11	31JUL11	4.6474	0.1172	2.5
884000_11_LBCNENN	27	06AUG11	21AUG11	5.0074	0.1328	2.7
883700_11_LBCNENN	40	08AUG11	01SEP11	4.8325	0.1309	2.7
884100_11_LBCNENN	29	27AUG11	15SEP11	4.9931	0.1252	2.5
884300_11_LBCNENN	18	01SEP11	12SEP11	4.8611	0.1092	2.2
884600_11_LBCNENN	25	15SEP11	02OCT11	4.9480	0.1159	2.3
884700_11_LBCNENN	79	20SEP11	04NOV11	5.1089	0.1504	2.9
885100_11_LBCNENN	24	15OCT11	30OCT11	5.1958	0.1160	2.2
885200_11_LBCNENN	26	05NOV11	21NOV11	5.1462	0.1421	2.8
885600_11_LBCNENN	66	10NOV11	19DEC11	4.8773	0.1134	2.3
885900_11_LBCNENN	39	02DEC11	21DEC11	4.6718	0.1276	2.7
886600_12_LBCNENN	36	10JAN12	03FEB12	4.8722	0.1427	2.9
886300_12_LBCNENN	22	12JAN12	23JAN12	5.1182	0.1181	2.3
886900_12_LBCNENN	60	30JAN12	29FEB12	5.0750	0.1336	2.6
886700_12_LBCNENN	22	03FEB12	16FEB12	4.9727	0.1420	2.9
887400_12_LBCNENN	94	20FEB12	05APR12	5.0351	0.1715	3.4
887800_12_LBCNENN	34	19MAR12	13APR12	4.9412	0.1328	2.7
888200_12_LBCNENN	47	11APR12	05MAY12	5.0191	0.1409	2.8
888100_12_LBCNENN	30	27APR12	16JUL12	5.1700	0.1418	2.7
888500_12_LBCNENN	18	05MAY12	17MAY12	5.2222	0.1215	2.3
888700_12_LBCNENN	38	11MAY12	06JUN12	5.1211	0.1189	2.3
889000_12_LBCNENN	79	22MAY12	14JUL12	4.9133	0.1344	2.7
889500_12_LBCNENN	5	25JUN12	26JUN12	5.2200	0.1095	2.1
880100_12_LBCNENN	76	14JUL12	06AUG12	4.9816	0.1614	3.2
880500_12_LBCNENN	20	09AUG12	24AUG12	4.9100	0.1252	2.6
880600_12_LBCNENN	44	10AUG12	01SEP12	4.9068	0.1469	3.0
880700_12_LBCNENN	50	29AUG12	26SEP12	4.9600	0.1088	2.2
881500_12_LBCNENN	66	29AUG12	24NOV12	4.9742	0.1232	2.5
880900_12_LBCNENN	61	01SEP12	08OCT12	5.0033	0.1341	2.7
881300_12_LBCNENN	58	26SEP12	02NOV12	5.0724	0.1652	3.3
1.2293E8_12_LBCNENN	59	09OCT12	12NOV12	1.5932	0.0314	2.0
882000_12_LBCNENN	48	14NOV12	12DEC12	5.0313	0.1291	2.6
1.2296E8_12_LBCNENN	51	18NOV12	19DEC12	1.6039	0.0445	2.8
882200_12_LBCNENN	8	12DEC12	16DEC12	5.1000	0.1309	2.6
1.2297E8_13_LBCNENN	32	04JAN13	20JAN13	1.4781	0.0491	3.3
1.2296E8_13_LBCNENN	11	12JAN13	13JAN13	1.5818	0.0603	3.8


2011-2012 Neutrophil No.(10^3 cells/uL) (Normal) Quality Control
5
4
3
2
Jan
2011
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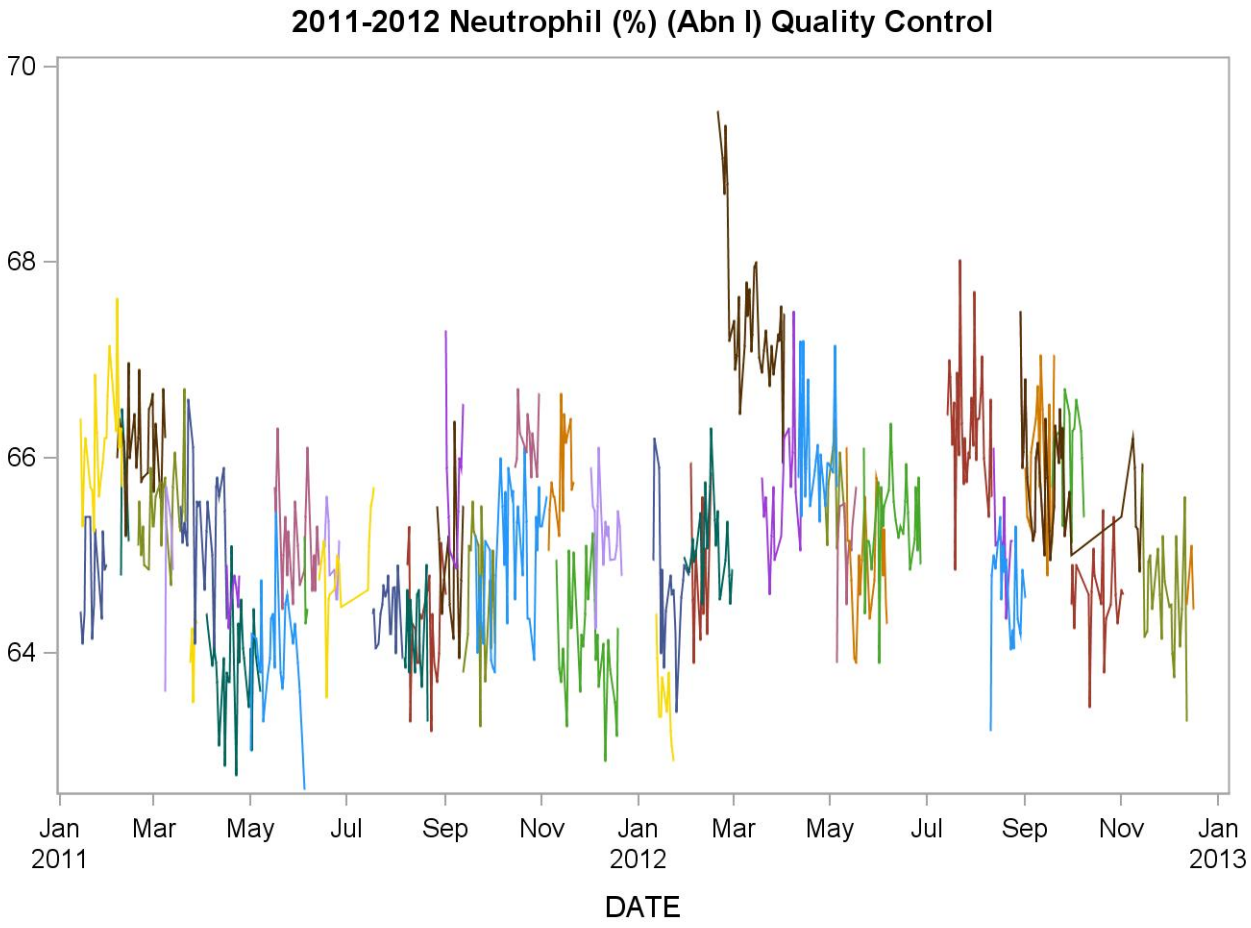
Jan
2013
Apr
DATE

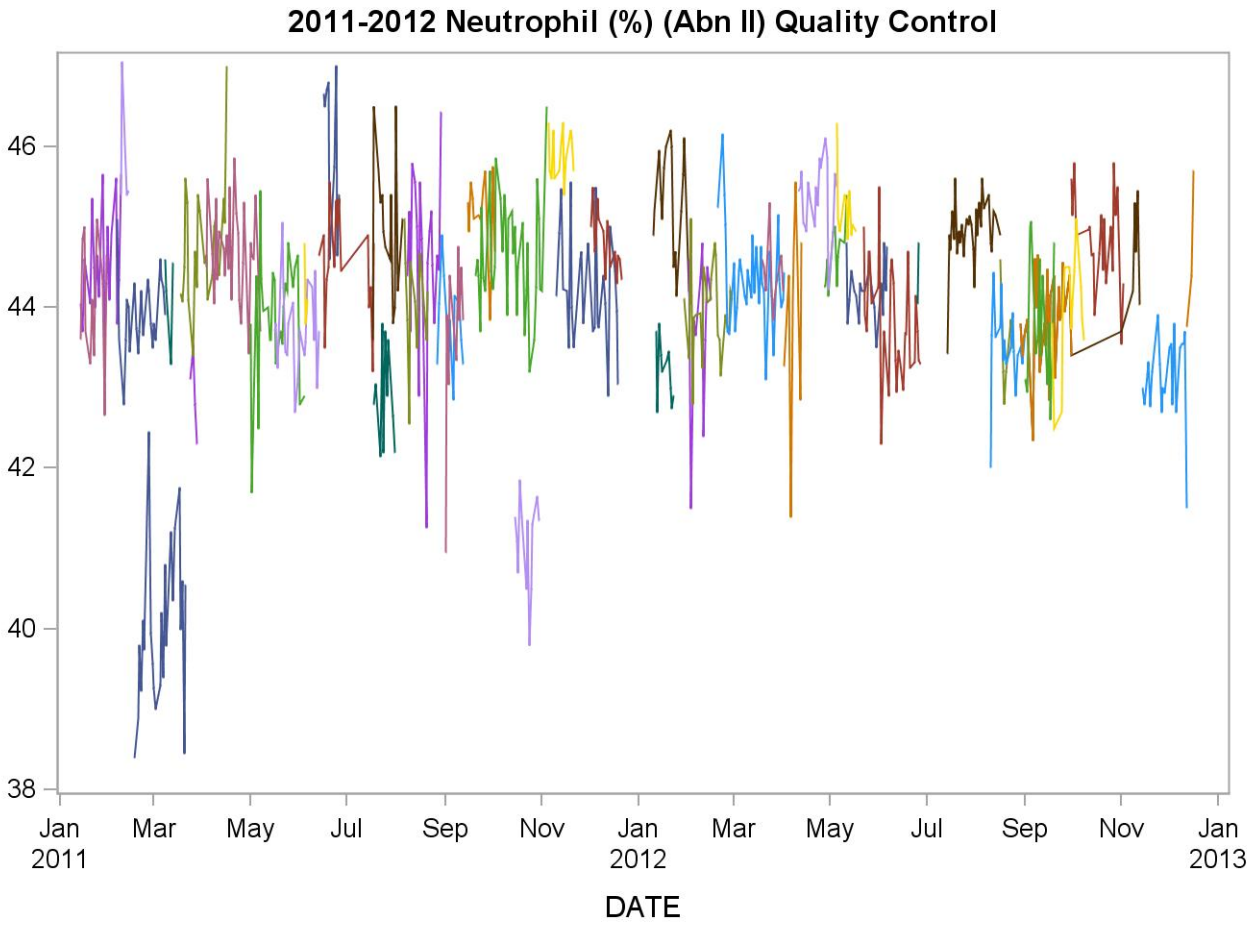
Summary Statistics for Neutrophil (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCNEPI	25	14JAN11	30JAN11	64.7380	0.6821	1.1
879800_11_LBCNEPI	49	14JAN11	09FEB11	66.2245	0.8368	1.3
870300_11_LBCNEPI	47	06FEB11	08MAR11	66.1511	0.6811	1.0
870200_11_LBCNEPI	7	08FEB11	13FEB11	65.6429	0.8502	1.3
870500_11_LBCNEPI	48	19FEB11	21MAR11	65.4333	0.6456	1.0
870900_11_LBCNEPI	9	08MAR11	13MAR11	65.1667	0.8874	1.4
871200_11_LBCNEPI	49	18MAR11	16APR11	65.3061	0.8442	1.3
871100_11_LBCNEPI	10	24MAR11	28MAR11	64.1100	0.5744	0.9
871400_11_LBCNEPI	47	03APR11	07MAY11	63.8213	0.7827	1.2
871500_11_LBCNEPI	14	16APR11	24APR11	64.5714	0.5567	0.9
871900_11_LBCNEPI	45	01MAY11	04JUN11	64.0044	0.6592	1.0
872000_11_LBCNEPI	42	16MAY11	13JUN11	65.1405	0.8115	1.2
872200_11_LBCNEPI	5	04JUN11	06JUN11	64.5400	0.6309	1.0
872600_11_LBCNEPI	34	13JUN11	18JUL11	64.8118	0.7768	1.2
872400_11_LBCNEPI	18	16JUN11	26JUN11	65.0000	0.7738	1.2
873200_11_LBCNEPI	43	17JUL11	05AUG11	64.4605	0.5741	0.9
873700_11_LBCNEPI	25	06AUG11	21AUG11	64.1840	0.7883	1.2
873600_11_LBCNEPI	39	08AUG11	01SEP11	64.3051	0.7359	1.1
873900_11_LBCNEPI	28	27AUG11	12SEP11	64.9036	0.8779	1.4
874100_11_LBCNEPI	17	01SEP11	12SEP11	65.6765	0.9210	1.4
874400_11_LBCNEPI	26	12SEP11	02OCT11	64.6962	0.8605	1.3
874500_11_LBCNEPI	80	20SEP11	04NOV11	64.9213	0.9549	1.5
874900_11_LBCNEPI	26	15OCT11	30OCT11	66.2462	0.4032	0.6
875000_11_LBCNEPI	29	05NOV11	21NOV11	65.7897	0.7641	1.2
875400_11_LBCNEPI	66	10NOV11	19DEC11	64.1576	0.8339	1.3
875700_11_LBCNEPI	37	02DEC11	21DEC11	65.2811	0.6757	1.0
876500_12_LBCNEPI	34	10JAN12	02FEB12	64.5882	0.9309	1.4
876100_12_LBCNEPI	21	12JAN12	23JAN12	63.4857	0.8662	1.4
876800_12_LBCNEPI	60	30JAN12	29FEB12	65.0683	0.7453	1.1
876600_12_LBCNEPI	22	03FEB12	16FEB12	64.7909	0.8234	1.3
877300_12_LBCNEPI	92	20FEB12	02APR12	67.4815	0.9707	1.4
877800_12_LBCNEPI	29	19MAR12	13APR12	65.7276	0.7914	1.2
878200_12_LBCNEPI	44	11APR12	05MAY12	66.0455	0.9908	1.5
878100_12_LBCNEPI	25	27APR12	11MAY12	65.5880	0.5925	0.9
878500_12_LBCNEPI	19	05MAY12	17MAY12	65.1368	0.7065	1.1
878600_12_LBCNEPI	38	11MAY12	06JUN12	64.8868	0.8640	1.3
879000_12_LBCNEPI	74	22MAY12	27JUN12	65.3507	0.8641	1.3
879300_12_LBCNEPI	4	25JUN12	26JUN12	65.0500	0.5323	0.8
870000_12_LBCNEPI	82	14JUL12	11AUG12	66.4000	0.8837	1.3
870500_12_LBCNEPI	43	10AUG12	01SEP12	64.6884	0.8740	1.4
870400_12_LBCNEPI	15	12AUG12	24AUG12	65.1133	0.6791	1.0
870600_12_LBCNEPI	54	29AUG12	30SEP12	65.8370	0.9037	1.4
871400_12_LBCNEPI	70	29AUG12	14NOV12	65.7514	0.8722	1.3
870700_12_LBCNEPI	32	01SEP12	19SEP12	66.0563	0.9308	1.4
870800_12_LBCNEPI	29	18SEP12	08OCT12	66.0310	0.7644	1.2
871200_12_LBCNEPI	48	30SEP12	02NOV12	64.6396	0.7502	1.2
871800_12_LBCNEPI	49	14NOV12	12DEC12	64.6082	0.8319	1.3
872000_12_LBCNEPI	7	12DEC12	16DEC12	64.6571	0.3645	0.6


2011-2012 Neutrophil (%) (Abn I) Quality Control
70
68
66
64
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

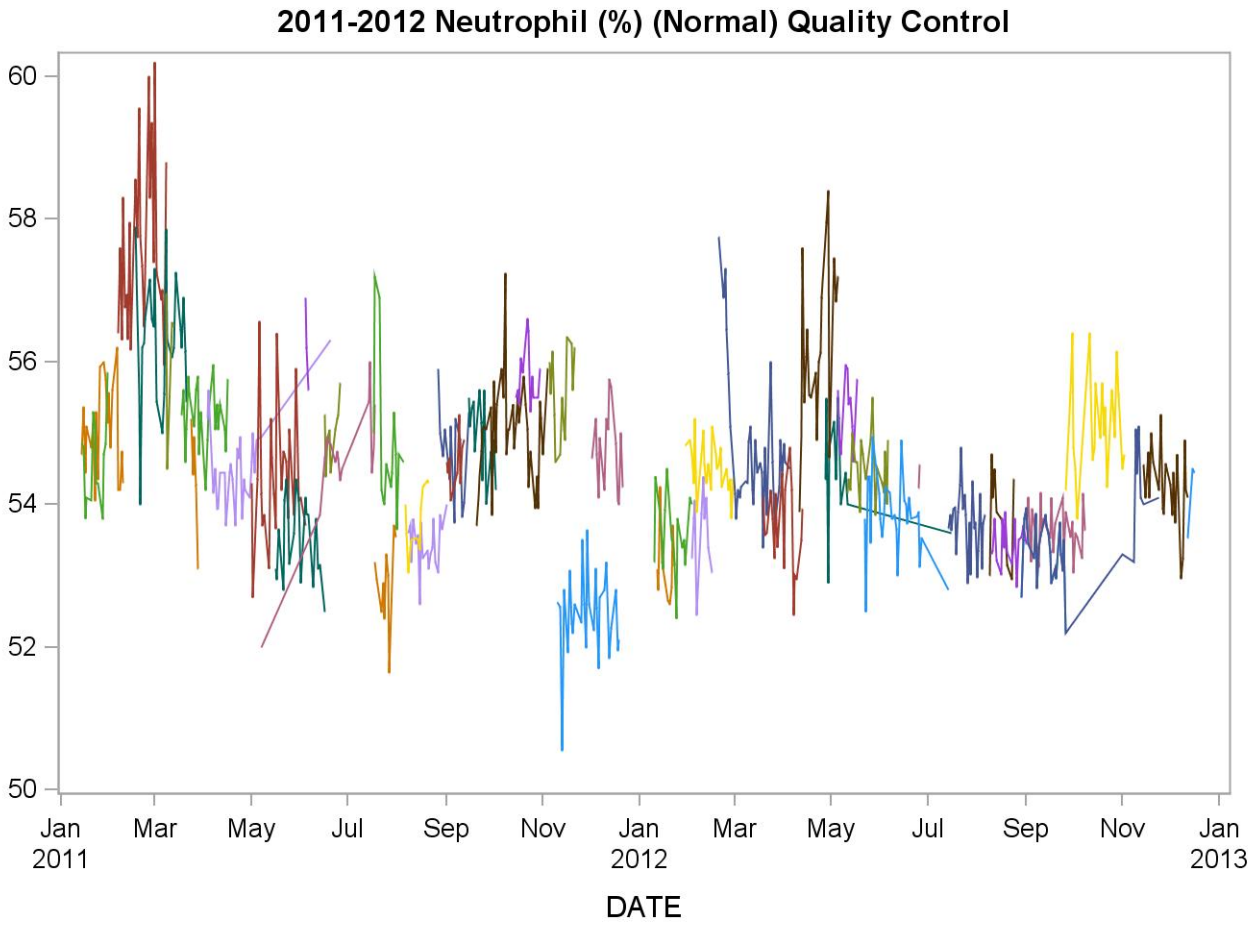
Summary Statistics for Neutrophil (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCNEPII	43	14JAN11	08FEB11	44.4977	0.9114	2.0
869600_11_LBCNEPII	32	14JAN11	30JAN11	43.8938	0.8962	2.0
869900_11_LBCNEPII	49	06FEB11	08MAR11	43.8673	0.9492	2.2
869800_11_LBCNEPII	7	08FEB11	13FEB11	45.8857	1.0479	2.3
860100_11_LBCNEPII	53	17FEB11	21MAR11	40.0396	1.2053	3.0
860400_11_LBCNEPII	7	08MAR11	13MAR11	44.1000	0.7416	1.7
860700_11_LBCNEPII	49	18MAR11	16APR11	44.7041	0.9533	2.1
860600_11_LBCNEPII	11	24MAR11	28MAR11	42.9909	0.8642	2.0
860900_11_LBCNEPII	60	03APR11	07MAY11	44.7067	0.9950	2.2
861300_11_LBCNEPII	44	01MAY11	04JUN11	43.9682	0.8507	1.9
861400_11_LBCNEPII	42	16MAY11	13JUN11	43.7333	0.9225	2.1
861700_11_LBCNEPII	5	04JUN11	06JUN11	44.1200	0.6760	1.5
862100_11_LBCNEPII	31	13JUN11	18JUL11	44.6387	0.8381	1.9
861900_11_LBCNEPII	18	16JUN11	26JUN11	46.0056	1.0120	2.2
862800_11_LBCNEPII	25	17JUL11	05AUG11	45.0920	0.8916	2.0
862700_11_LBCNEPII	20	18JUL11	31JUL11	42.9050	1.3493	3.1
863200_11_LBCNEPII	27	06AUG11	21AUG11	44.1630	1.5280	3.5
863100_11_LBCNEPII	39	08AUG11	29AUG11	44.5872	1.7824	4.0
863400_11_LBCNEPII	24	27AUG11	12SEP11	43.8458	0.7774	1.8
863500_11_LBCNEPII	17	01SEP11	12SEP11	43.5706	1.7018	3.9
863800_11_LBCNEPII	25	15SEP11	02OCT11	45.0840	0.6296	1.4
863900_11_LBCNEPII	73	20SEP11	04NOV11	44.5685	1.0518	2.4
864300_11_LBCNEPII	23	15OCT11	30OCT11	41.1000	0.6068	1.5
864400_11_LBCNEPII	28	05NOV11	21NOV11	45.9000	1.0818	2.4
864800_11_LBCNEPII	50	10NOV11	19DEC11	44.2780	0.9709	2.2
865000_11_LBCNEPII	36	02DEC11	21DEC11	44.7778	0.5227	1.2
865800_12_LBCNEPII	31	10JAN12	02FEB12	45.3452	0.8873	2.0
865500_12_LBCNEPII	20	12JAN12	23JAN12	43.2250	0.7210	1.7
866100_12_LBCNEPII	57	30JAN12	29FEB12	43.9860	0.8715	2.0
865900_12_LBCNEPII	23	02FEB12	16FEB12	43.6130	1.3053	3.0
866500_12_LBCNEPII	90	20FEB12	02APR12	44.3700	0.7866	1.8
866900_12_LBCNEPII	15	19MAR12	01APR12	44.3467	0.6653	1.5
867000_12_LBCNEPII	15	02APR12	13APR12	43.7667	1.5582	3.6
867300_12_LBCNEPII	43	11APR12	05MAY12	45.3140	0.7354	1.6
867100_12_LBCNEPII	26	27APR12	11MAY12	44.5885	0.6965	1.6
867500_12_LBCNEPII	20	05MAY12	17MAY12	45.1550	0.6541	1.4
867800_12_LBCNEPII	38	11MAY12	06JUN12	44.2474	0.5627	1.3
868100_12_LBCNEPII	72	22MAY12	27JUN12	43.7292	1.0314	2.4
868300_12_LBCNEPII	4	25JUN12	26JUN12	44.4250	0.8921	2.0
869000_12_LBCNEPII	83	14JUL12	16AUG12	44.9301	0.6568	1.5
869500_12_LBCNEPII	40	10AUG12	01SEP12	43.5750	0.7045	1.6
869400_12_LBCNEPII	11	16AUG12	24AUG12	43.4636	0.6742	1.6
860400_12_LBCNEPII	60	29AUG12	12NOV12	43.9500	0.8317	1.9
869600_12_LBCNEPII	49	29AUG12	30SEP12	43.8102	0.7885	1.8
869700_12_LBCNEPII	31	01SEP12	19SEP12	43.8097	1.0416	2.4
869800_12_LBCNEPII	27	18SEP12	08OCT12	44.0222	0.7531	1.7
860200_12_LBCNEPII	46	30SEP12	02NOV12	44.8326	0.8305	1.9
860800_12_LBCNEPII	53	14NOV12	12DEC12	43.2019	0.8099	1.9
861000_12_LBCNEPII	7	12DEC12	16DEC12	44.5000	0.9866	2.2


2011-2012 Neutrophil (%) (Abn II) Quality Control
46
44
42
40
38
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

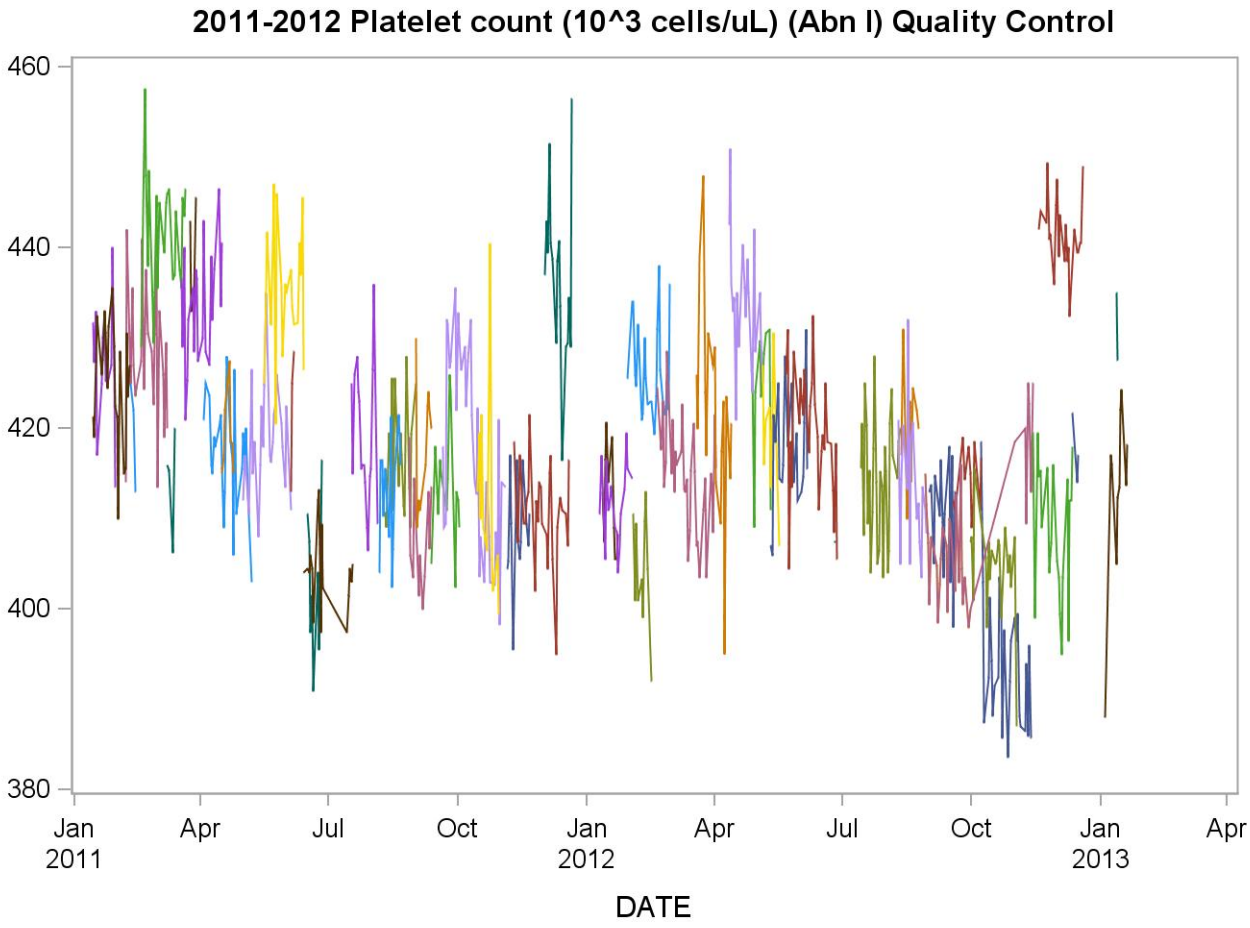
Summary Statistics for Neutrophil (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCNEPN	50	14JAN11	09FEB11	55.0740	1.2760	2.3
889900_11_LBCNEPN	24	14JAN11	30JAN11	54.6958	0.8222	1.5
880200_11_LBCNEPN	59	06FEB11	08MAR11	57.5356	1.5220	2.6
880500_11_LBCNEPN	50	17FEB11	21MAR11	56.2240	1.3734	2.4
880700_11_LBCNEPN	9	08MAR11	13MAR11	56.1667	1.7600	3.1
881100_11_LBCNEPN	47	18MAR11	16APR11	55.2468	0.6403	1.2
881000_11_LBCNEPN	19	24MAR11	28MAR11	54.4263	0.7852	1.4
881300_11_LBCNEPN	64	03APR11	20JUN11	54.4453	0.7178	1.3
881700_11_LBCNEPN	47	01MAY11	04JUN11	54.4936	1.1465	2.1
882600_11_LBCNEPN	34	07MAY11	18JUL11	54.6794	0.9435	1.7
881800_11_LBCNEPN	44	16MAY11	16JUN11	53.5455	0.7203	1.3
882100_11_LBCNEPN	5	04JUN11	06JUN11	56.1000	1.7421	3.1
882200_11_LBCNEPN	19	16JUN11	26JUN11	55.0316	0.6010	1.1
883300_11_LBCNEPN	27	17JUL11	05AUG11	54.6963	1.0260	1.9
883200_11_LBCNEPN	19	18JUL11	31JUL11	52.9000	0.7468	1.4
884000_11_LBCNEPN	26	06AUG11	21AUG11	53.7077	0.6870	1.3
883700_11_LBCNEPN	39	08AUG11	01SEP11	53.4256	0.6051	1.1
884100_11_LBCNEPN	28	27AUG11	15SEP11	54.6536	0.7063	1.3
884300_11_LBCNEPN	18	01SEP11	12SEP11	54.5778	0.7393	1.4
884600_11_LBCNEPN	25	15SEP11	02OCT11	54.9120	0.7230	1.3
884700_11_LBCNEPN	79	20SEP11	04NOV11	55.0633	0.9501	1.7
885100_11_LBCNEPN	24	15OCT11	30OCT11	55.8292	0.5361	1.0
885200_11_LBCNEPN	25	05NOV11	21NOV11	55.5280	0.7419	1.3
885600_11_LBCNEPN	67	10NOV11	19DEC11	52.4910	0.8214	1.6
885900_11_LBCNEPN	39	02DEC11	21DEC11	54.8231	0.6651	1.2
886600_12_LBCNEPN	36	10JAN12	03FEB12	53.5722	0.6839	1.3
886300_12_LBCNEPN	23	12JAN12	23JAN12	53.1304	0.6241	1.2
886900_12_LBCNEPN	60	30JAN12	29FEB12	54.6000	0.6407	1.2
886700_12_LBCNEPN	22	03FEB12	16FEB12	53.6227	0.7191	1.3
887400_12_LBCNEPN	93	20FEB12	05APR12	54.7409	1.0699	2.0
887800_12_LBCNEPN	34	19MAR12	13APR12	53.7559	0.9481	1.8
888200_12_LBCNEPN	46	11APR12	05MAY12	56.1522	1.1498	2.0
888100_12_LBCNEPN	30	27APR12	16JUL12	54.7667	1.0463	1.9
888500_12_LBCNEPN	18	05MAY12	17MAY12	55.3778	0.6367	1.1
888700_12_LBCNEPN	38	11MAY12	06JUN12	54.4763	0.7372	1.4
889000_12_LBCNEPN	79	22MAY12	14JUL12	53.8133	0.6638	1.2
889500_12_LBCNEPN	5	25JUN12	26JUN12	54.3600	0.3647	0.7
880100_12_LBCNEPN	75	14JUL12	06AUG12	53.7533	0.8123	1.5
880500_12_LBCNEPN	20	09AUG12	24AUG12	53.7550	0.7067	1.3
880600_12_LBCNEPN	45	10AUG12	01SEP12	53.4489	0.7263	1.4
880700_12_LBCNEPN	50	29AUG12	26SEP12	53.3820	0.7190	1.3
881500_12_LBCNEPN	66	29AUG12	24NOV12	53.6167	0.8822	1.6
880900_12_LBCNEPN	62	01SEP12	08OCT12	53.6565	0.7222	1.3
881300_12_LBCNEPN	58	26SEP12	02NOV12	55.1500	0.8488	1.5
882000_12_LBCNEPN	48	14NOV12	12DEC12	54.2354	0.8068	1.5
882200_12_LBCNEPN	8	12DEC12	16DEC12	54.1250	0.7924	1.5


2011-2012 Neutrophil (%) (Normal) Quality Control
60
58
56
54
52
50
Jan
2011
Mar
May
Jul
Sep
Nov
Jan
2012
Mar
May
Jul
Sep
Nov
Jan
2013
DATE

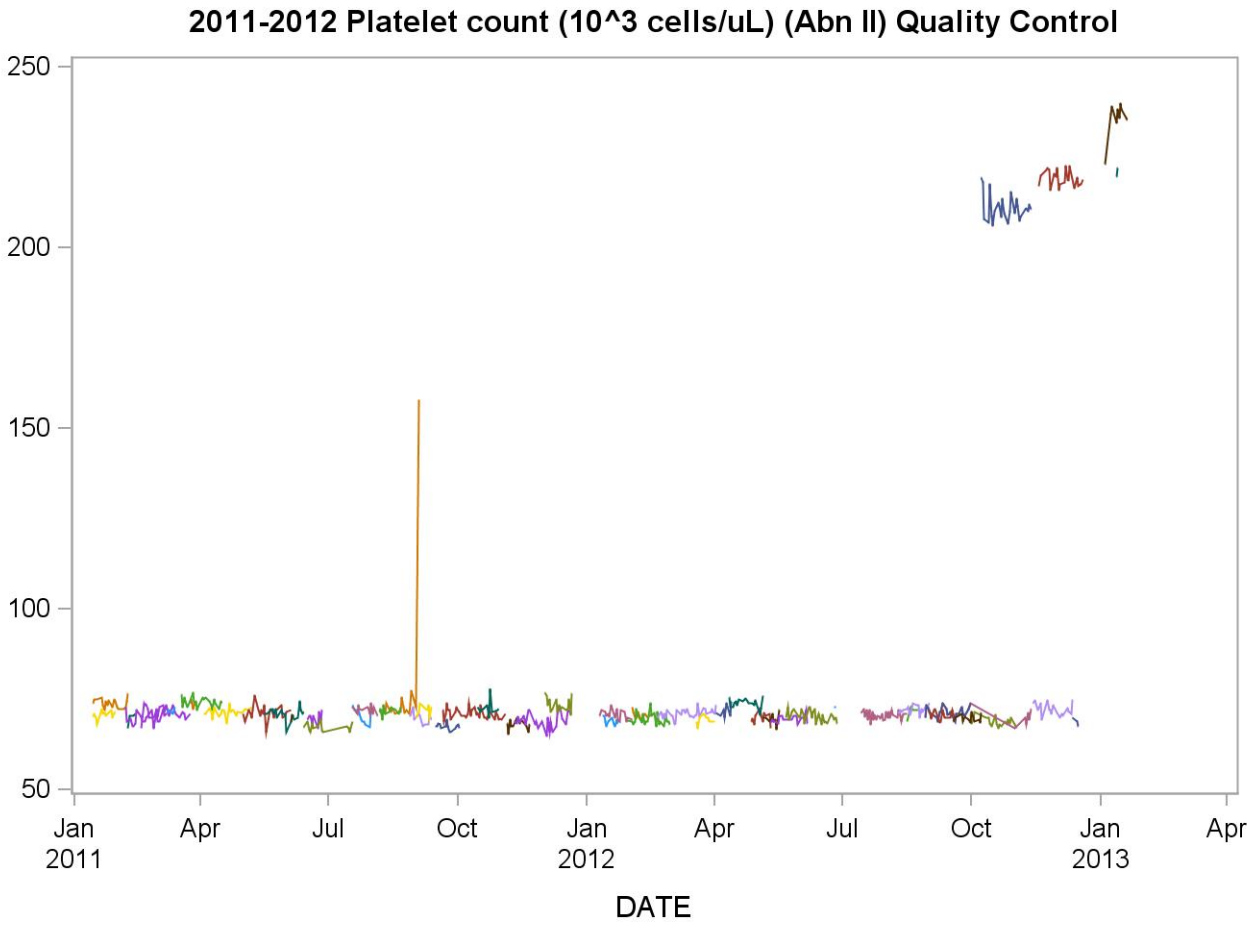
Summary Statistics for Platelet count (10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCPLTI	25	14JAN11	30JAN11	427.4000	7.3541	1.7
879800_11_LBCPLTI	49	14JAN11	09FEB11	424.7959	8.6337	2.0
870300_11_LBCPLTI	47	06FEB11	08MAR11	427.8298	9.4370	2.2
870200_11_LBCPLTI	7	08FEB11	13FEB11	420.8571	8.8398	2.1
870500_11_LBCPLTI	49	17FEB11	21MAR11	442.0816	8.3886	1.9
870900_11_LBCPLTI	9	08MAR11	13MAR11	413.4444	7.1434	1.7
871200_11_LBCPLTI	49	18MAR11	16APR11	433.3673	9.5125	2.2
871100_11_LBCPLTI	10	24MAR11	28MAR11	437.3000	8.6929	2.0
871400_11_LBCPLTI	47	03APR11	07MAY11	417.1702	7.6480	1.8
871500_11_LBCPLTI	14	16APR11	24APR11	419.5714	6.9803	1.7
871900_11_LBCPLTI	46	01MAY11	04JUN11	419.3261	8.3694	2.0
872000_11_LBCPLTI	42	16MAY11	13JUN11	435.6190	10.6975	2.5
872200_11_LBCPLTI	5	04JUN11	06JUN11	424.0000	8.3066	2.0
872600_11_LBCPLTI	34	13JUN11	18JUL11	404.8529	7.3490	1.8
872400_11_LBCPLTI	18	16JUN11	26JUN11	403.4444	8.8332	2.2
873200_11_LBCPLTI	43	17JUL11	05AUG11	418.0930	10.5938	2.5
873700_11_LBCPLTI	26	06AUG11	21AUG11	412.7308	9.2458	2.2
873600_11_LBCPLTI	39	08AUG11	01SEP11	415.7949	8.4889	2.0
873900_11_LBCPLTI	28	27AUG11	12SEP11	406.8571	8.3165	2.0
874100_11_LBCPLTI	17	01SEP11	12SEP11	417.4706	9.0147	2.2
874400_11_LBCPLTI	26	12SEP11	02OCT11	413.0385	7.1525	1.7
874500_11_LBCPLTI	80	20SEP11	04NOV11	417.9375	13.4732	3.2
874900_11_LBCPLTI	27	15OCT11	30OCT11	416.0370	15.4906	3.7
875000_11_LBCPLTI	29	05NOV11	21NOV11	408.4828	8.7080	2.1
875400_11_LBCPLTI	65	10NOV11	19DEC11	410.6000	7.6929	1.9
875700_11_LBCPLTI	37	02DEC11	21DEC11	436.4595	14.1512	3.2
876500_12_LBCPLTI	34	10JAN12	02FEB12	411.7647	7.3775	1.8
876100_12_LBCPLTI	22	12JAN12	23JAN12	412.1364	7.2262	1.8
876800_12_LBCPLTI	60	30JAN12	29FEB12	426.2667	8.5010	2.0
876600_12_LBCPLTI	22	03FEB12	16FEB12	405.1818	10.9093	2.7
877300_12_LBCPLTI	92	20FEB12	02APR12	414.6522	8.6195	2.1
877800_12_LBCPLTI	29	19MAR12	13APR12	420.8966	10.5977	2.5
878200_12_LBCPLTI	44	11APR12	05MAY12	433.9545	8.9025	2.1
878100_12_LBCPLTI	25	27APR12	11MAY12	425.7200	7.1445	1.7
878500_12_LBCPLTI	19	05MAY12	17MAY12	420.2105	8.9354	2.1
878600_12_LBCPLTI	38	11MAY12	06JUN12	417.3684	9.2017	2.2
879000_12_LBCPLTI	74	22MAY12	27JUN12	418.5203	10.6670	2.5
879300_12_LBCPLTI	4	25JUN12	26JUN12	407.5000	14.9778	3.7
870000_12_LBCPLTI	83	14JUL12	11AUG12	414.4699	9.5730	2.3
870500_12_LBCPLTI	43	10AUG12	01SEP12	413.7442	9.0398	2.2
870400_12_LBCPLTI	15	12AUG12	24AUG12	421.0000	8.8398	2.1
870600_12_LBCPLTI	54	29AUG12	30SEP12	405.4444	8.5488	2.1
871400_12_LBCPLTI	71	29AUG12	14NOV12	408.8310	10.5194	2.6
870700_12_LBCPLTI	31	01SEP12	19SEP12	411.2581	7.7200	1.9
870800_12_LBCPLTI	29	18SEP12	08OCT12	413.9655	8.3815	2.0
871200_12_LBCPLTI	48	30SEP12	02NOV12	405.2917	7.0257	1.7
1.3293E8_12_LBCPLTI	68	08OCT12	12NOV12	393.3676	10.2213	2.6
871800_12_LBCPLTI	49	14NOV12	12DEC12	409.3061	11.3141	2.8
1.3296E8_12_LBCPLTI	47	18NOV12	19DEC12	441.6809	7.0837	1.6
872000_12_LBCPLTI	7	12DEC12	16DEC12	418.1429	8.5524	2.0
1.3297E8_13_LBCPLTI	31	04JAN13	20JAN13	415.6774	9.2065	2.2
1.3296E8_13_LBCPLTI	13	12JAN13	13JAN13	432.1538	7.1513	1.7


2011-2012 Platelet count (10^3 cells/uL) (Abn l) Quality Control
460
440
420
400
380
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for Platelet count (10^3 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCPLTII	46	14JAN11	08FEB11	73.8696	2.1041	2.8
869600_11_LBCPLTII	33	14JAN11	30JAN11	70.7879	1.5362	2.2
869900_11_LBCPLTII	49	06FEB11	08MAR11	69.7551	2.1940	3.1
869800_11_LBCPLTII	7	08FEB11	13FEB11	70.1429	1.6762	2.4
860100_11_LBCPLTII	54	17FEB11	24MAR11	71.6296	2.1657	3.0
860400_11_LBCPLTII	7	08MAR11	13MAR11	71.8571	2.6095	3.6
860700_11_LBCPLTII	50	18MAR11	16APR11	74.1600	2.0340	2.7
860600_11_LBCPLTII	11	24MAR11	28MAR11	73.5455	2.0671	2.8
860900_11_LBCPLTII	60	03APR11	07MAY11	71.6000	1.6794	2.3
861300_11_LBCPLTII	46	01MAY11	04JUN11	71.5652	2.1463	3.0
861400_11_LBCPLTII	43	16MAY11	13JUN11	71.0465	1.9755	2.8
861700_11_LBCPLTII	5	04JUN11	06JUN11	70.2000	1.3038	1.9
862100_11_LBCPLTII	31	13JUN11	18JUL11	67.4839	1.3133	1.9
861900_11_LBCPLTII	18	16JUN11	26JUN11	69.9444	2.0428	2.9
862800_11_LBCPLTII	26	17JUL11	05AUG11	72.3846	1.4164	2.0
862700_11_LBCPLTII	21	18JUL11	31JUL11	70.2381	2.7732	3.9
863200_11_LBCPLTII	28	06AUG11	21AUG11	71.8929	1.6631	2.3
863100_11_LBCPLTII	41	08AUG11	03SEP11	74.6341	13.6084	18.2
863400_11_LBCPLTII	24	27AUG11	12SEP11	70.0417	2.1964	3.1
863500_11_LBCPLTII	19	01SEP11	12SEP11	71.8947	2.1316	3.0
863800_11_LBCPLTII	25	15SEP11	02OCT11	67.6000	1.2247	1.8
863900_11_LBCPLTII	75	20SEP11	04NOV11	71.0533	1.7312	2.4
864300_11_LBCPLTII	23	15OCT11	30OCT11	72.2174	2.2755	3.2
864400_11_LBCPLTII	28	05NOV11	21NOV11	68.1786	1.9636	2.9
864800_11_LBCPLTII	50	10NOV11	19DEC11	69.3200	2.4944	3.6
865000_11_LBCPLTII	36	02DEC11	21DEC11	73.3056	2.3643	3.2
865800_12_LBCPLTII	32	10JAN12	02FEB12	70.7188	1.8877	2.7
865500_12_LBCPLTII	20	12JAN12	23JAN12	69.0000	1.8353	2.7
866100_12_LBCPLTII	58	30JAN12	29FEB12	69.5517	2.3707	3.4
865900_12_LBCPLTII	23	02FEB12	16FEB12	70.4783	1.5917	2.3
866500_12_LBCPLTII	92	20FEB12	02APR12	71.1957	2.0662	2.9
866900_12_LBCPLTII	15	19MAR12	01APR12	69.4000	1.6388	2.4
867000_12_LBCPLTII	19	02APR12	13APR12	71.6842	2.1357	3.0
867300_12_LBCPLTII	43	11APR12	05MAY12	73.9767	2.0643	2.8
867100_12_LBCPLTII	26	27APR12	11MAY12	70.1538	2.0336	2.9
867500_12_LBCPLTII	20	05MAY12	17MAY12	69.3500	2.1343	3.1
867800_12_LBCPLTII	38	11MAY12	06JUN12	69.6053	1.2420	1.8
868100_12_LBCPLTII	73	22MAY12	27JUN12	70.3151	2.3739	3.4
868300_12_LBCPLTII	4	25JUN12	26JUN12	73.0000	0.8165	1.1
869000_12_LBCPLTII	83	14JUL12	16AUG12	70.5783	1.9885	2.8
869500_12_LBCPLTII	40	10AUG12	01SEP12	72.2750	1.9347	2.7
869400_12_LBCPLTII	12	16AUG12	24AUG12	71.6667	1.4975	2.1
860400_12_LBCPLTII	59	29AUG12	12NOV12	71.3051	2.1355	3.0
869600_12_LBCPLTII	48	29AUG12	30SEP12	71.5000	1.7504	2.4
869700_12_LBCPLTII	30	01SEP12	19SEP12	70.4333	1.4308	2.0
869800_12_LBCPLTII	27	18SEP12	08OCT12	69.7778	2.0631	3.0
860200_12_LBCPLTII	46	30SEP12	02NOV12	69.0000	1.7256	2.5
1.4293E8_12_LBCPLTII	64	08OCT12	12NOV12	211.1875	5.6171	2.7
860800_12_LBCPLTII	53	14NOV12	12DEC12	72.3208	2.6441	3.7
1.4296E8_12_LBCPLTII	45	18NOV12	19DEC12	219.1778	3.2001	1.5
861000_12_LBCPLTII	7	12DEC12	16DEC12	69.0000	1.8257	2.6
1.4297E8_13_LBCPLTII	32	04JAN13	20JAN13	236.2500	5.9079	2.5
1.4296E8_13_LBCPLTII	9	12JAN13	13JAN13	220.6667	5.9582	2.7


2011-2012 Platelet count (10^3 cells/uL) (Abn ll) Quality Control
250
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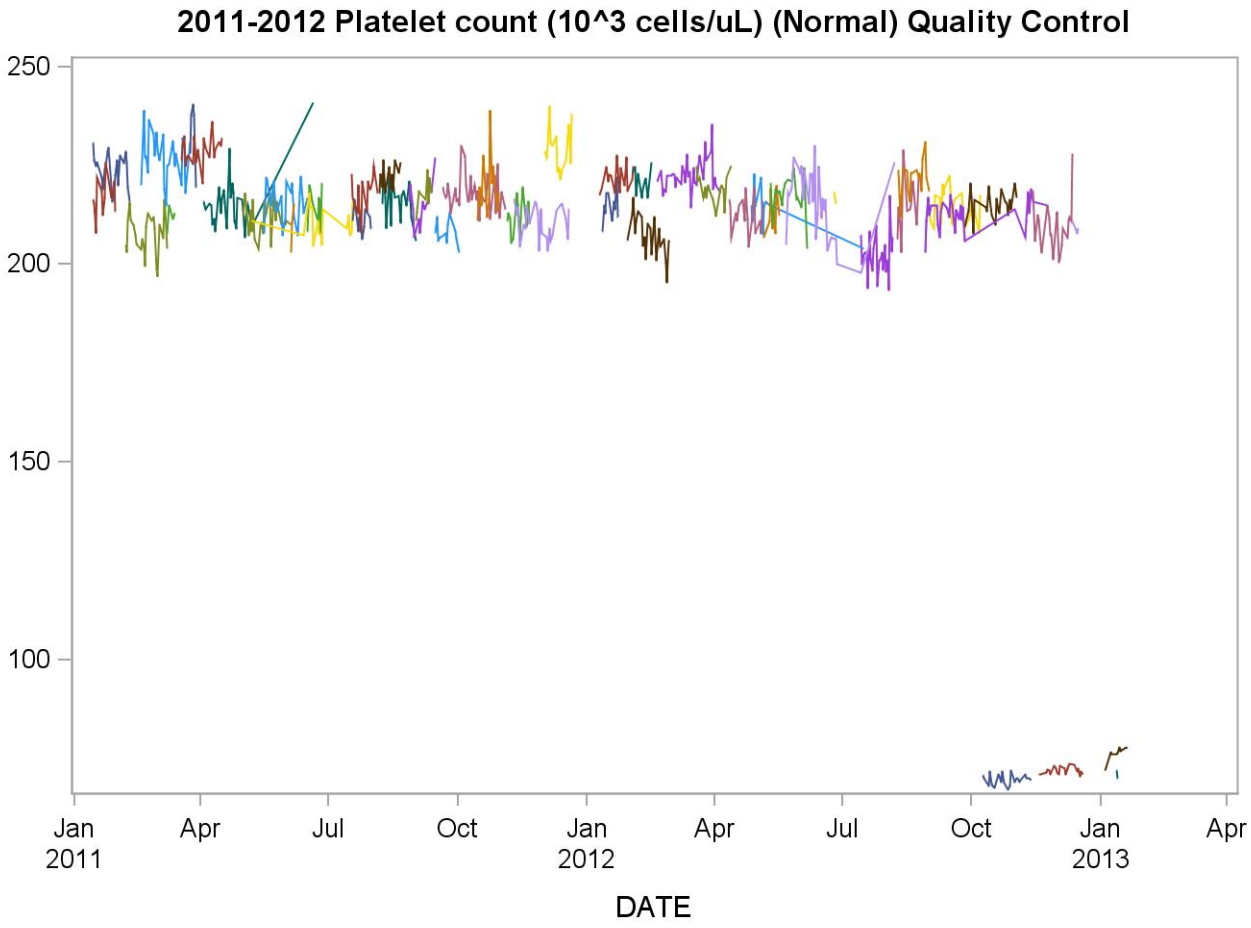
Summary Statistics for Platelet count (10^3 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCPLTN	50	14JAN11	09FEB11	224.4600	5.1674	2.3
889900_11_LBCPLTN	26	14JAN11	30JAN11	217.0769	6.6988	3.1
880200_11_LBCPLTN	59	06FEB11	08MAR11	208.0678	6.9775	3.4
880500_11_LBCPLTN	51	17FEB11	24MAR11	226.9412	7.4119	3.3
880700_11_LBCPLTN	9	08MAR11	13MAR11	212.0000	9.3140	4.4
881100_11_LBCPLTN	48	18MAR11	16APR11	229.0208	5.7519	2.5
881000_11_LBCPLTN	19	24MAR11	28MAR11	236.1053	8.6852	3.7
881300_11_LBCPLTN	65	03APR11	20JUN11	215.6615	8.9150	4.1
881700_11_LBCPLTN	48	01MAY11	04JUN11	212.0000	6.1333	2.9
882600_11_LBCPLTN	36	07MAY11	18JUL11	210.1944	5.0530	2.4
881800_11_LBCPLTN	45	16MAY11	16JUN11	216.2000	6.7608	3.1
882100_11_LBCPLTN	5	04JUN11	06JUN11	211.0000	5.9582	2.8
882200_11_LBCPLTN	19	16JUN11	26JUN11	215.0526	5.8068	2.7
883300_11_LBCPLTN	27	17JUL11	05AUG11	217.8148	7.8154	3.6
883200_11_LBCPLTN	19	18JUL11	31JUL11	210.7368	4.9198	2.3
884000_11_LBCPLTN	26	06AUG11	21AUG11	222.0000	4.3909	2.0
883700_11_LBCPLTN	40	08AUG11	01SEP11	216.2750	6.4131	3.0
884100_11_LBCPLTN	29	27AUG11	15SEP11	215.8621	6.3286	2.9
884300_11_LBCPLTN	18	01SEP11	12SEP11	217.0556	5.2071	2.4
884600_11_LBCPLTN	25	15SEP11	02OCT11	207.8000	4.1733	2.0
884700_11_LBCPLTN	79	20SEP11	04NOV11	217.8861	5.7490	2.6
885100_11_LBCPLTN	24	15OCT11	30OCT11	218.9583	7.9699	3.6
885200_11_LBCPLTN	26	05NOV11	21NOV11	211.8462	5.7389	2.7
885600_11_LBCPLTN	68	10NOV11	19DEC11	211.2647	6.0634	2.9
885900_11_LBCPLTN	40	02DEC11	21DEC11	228.6250	7.6114	3.3
886600_12_LBCPLTN	36	10JAN12	03FEB12	222.1389	6.2205	2.8
886300_12_LBCPLTN	23	12JAN12	23JAN12	213.9130	6.4801	3.0
886900_12_LBCPLTN	60	30JAN12	29FEB12	207.2167	7.2090	3.5
886700_12_LBCPLTN	21	03FEB12	16FEB12	220.9048	4.6358	2.1
887400_12_LBCPLTN	94	20FEB12	05APR12	222.6489	5.9761	2.7
887800_12_LBCPLTN	33	19MAR12	13APR12	219.5152	5.6020	2.6
888200_12_LBCPLTN	47	11APR12	05MAY12	212.4681	6.1392	2.9
888100_12_LBCPLTN	30	27APR12	16JUL12	214.1000	6.8044	3.2
888500_12_LBCPLTN	18	05MAY12	17MAY12	211.3333	5.9508	2.8
888700_12_LBCPLTN	39	11MAY12	06JUN12	218.0769	6.3800	2.9
889000_12_LBCPLTN	80	22MAY12	07AUG12	213.7313	10.3841	4.9
889500_12_LBCPLTN	5	25JUN12	26JUN12	217.2000	6.6106	3.0
880100_12_LBCPLTN	76	14JUL12	06AUG12	202.6053	6.8820	3.4
880500_12_LBCPLTN	20	09AUG12	24AUG12	214.1500	7.3361	3.4
880600_12_LBCPLTN	45	10AUG12	01SEP12	221.8889	6.4004	2.9
880700_12_LBCPLTN	50	29AUG12	26SEP12	212.9000	5.8806	2.8
881500_12_LBCPLTN	66	29AUG12	24NOV12	213.4242	5.8601	2.7
880900_12_LBCPLTN	62	01SEP12	08OCT12	215.0323	5.6014	2.6
881300_12_LBCPLTN	58	26SEP12	02NOV12	215.1552	5.7638	2.7
1.2293E8_12_LBCPLTN	62	09OCT12	12NOV12	69.5806	1.6942	2.4
882000_12_LBCPLTN	48	14NOV12	12DEC12	208.8958	8.3850	4.0
1.2296E8_12_LBCPLTN	51	18NOV12	19DEC12	72.0588	1.3328	1.8
882200_12_LBCPLTN	8	12DEC12	16DEC12	209.3750	4.9262	2.4
1.2297E8_13_LBCPLTN	31	04JAN13	20JAN13	76.9032	1.5134	2.0
1.2296E8_13_LBCPLTN	10	12JAN13	13JAN13	71.4000	1.0750	1.5


2011-2012 Platelet count (10^3 cells/uL) (Normal) Quality Control
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200
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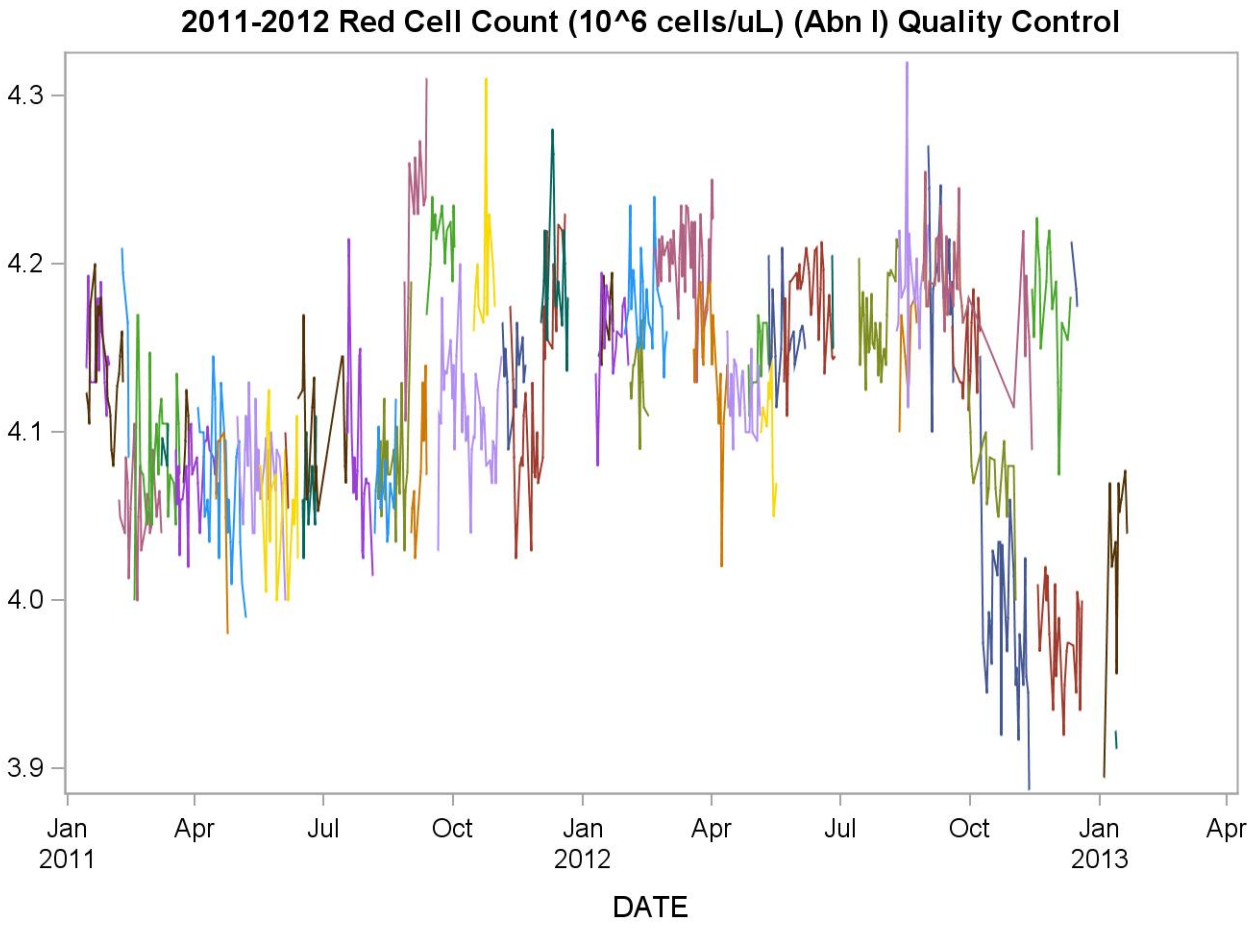
DATE

Summary Statistics for Red Cell Count (10^6 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCRBCI	25	14JAN11	30JAN11	4.1474	0.0423	1.0
879800_11_LBCRBCI	48	14JAN11	09FEB11	4.1371	0.0395	1.0
870300_11_LBCRBCI	47	06FEB11	08MAR11	4.0526	0.0358	0.9
870200_11_LBCRBCI	7	08FEB11	13FEB11	4.1571	0.0739	1.8
870500_11_LBCRBCI	49	17FEB11	21MAR11	4.0902	0.0509	1.2
870900_11_LBCRBCI	9	08MAR11	13MAR11	4.0911	0.0190	0.5
871200_11_LBCRBCI	49	18MAR11	16APR11	4.0743	0.0432	1.1
871100_11_LBCRBCI	10	24MAR11	28MAR11	4.1000	0.0313	0.8
871400_11_LBCRBCI	47	03APR11	07MAY11	4.0704	0.0431	1.1
871500_11_LBCRBCI	14	16APR11	24APR11	4.0729	0.0425	1.0
871900_11_LBCRBCI	46	01MAY11	04JUN11	4.0807	0.0346	0.8
872000_11_LBCRBCI	42	16MAY11	13JUN11	4.0552	0.0497	1.2
872200_11_LBCRBCI	5	04JUN11	06JUN11	4.0720	0.0409	1.0
872600_11_LBCRBCI	34	13JUN11	18JUL11	4.1026	0.0488	1.2
872400_11_LBCRBCI	18	16JUN11	26JUN11	4.0683	0.0474	1.2
873200_11_LBCRBCI	43	17JUL11	05AUG11	4.0805	0.0526	1.3
873700_11_LBCRBCI	26	06AUG11	21AUG11	4.0669	0.0339	0.8
873600_11_LBCRBCI	39	08AUG11	01SEP11	4.0797	0.0491	1.2
873900_11_LBCRBCI	28	27AUG11	12SEP11	4.2261	0.0677	1.6
874100_11_LBCRBCI	17	01SEP11	12SEP11	4.0765	0.0374	0.9
874400_11_LBCRBCI	26	12SEP11	02OCT11	4.2181	0.0250	0.6
874500_11_LBCRBCI	79	20SEP11	04NOV11	4.1109	0.0434	1.1
874900_11_LBCRBCI	27	15OCT11	30OCT11	4.2078	0.0561	1.3
875000_11_LBCRBCI	28	05NOV11	21NOV11	4.1361	0.0341	0.8
875400_11_LBCRBCI	66	10NOV11	19DEC11	4.1282	0.0684	1.7
875700_11_LBCRBCI	37	02DEC11	21DEC11	4.1886	0.0540	1.3
876500_12_LBCRBCI	34	10JAN12	02FEB12	4.1621	0.0445	1.1
876100_12_LBCRBCI	22	12JAN12	23JAN12	4.1659	0.0270	0.6
876800_12_LBCRBCI	60	30JAN12	29FEB12	4.1730	0.0468	1.1
876600_12_LBCRBCI	22	03FEB12	16FEB12	4.1345	0.0346	0.8
877300_12_LBCRBCI	92	20FEB12	02APR12	4.2065	0.0431	1.0
877800_12_LBCRBCI	29	19MAR12	13APR12	4.1372	0.0416	1.0
878200_12_LBCRBCI	44	11APR12	05MAY12	4.1218	0.0397	1.0
878100_12_LBCRBCI	25	27APR12	11MAY12	4.1412	0.0400	1.0
878500_12_LBCRBCI	19	05MAY12	17MAY12	4.1063	0.0382	0.9
878600_12_LBCRBCI	37	11MAY12	06JUN12	4.1570	0.0304	0.7
879000_12_LBCRBCI	74	22MAY12	27JUN12	4.1767	0.0359	0.9
879300_12_LBCRBCI	4	25JUN12	26JUN12	4.1775	0.0780	1.9
870000_12_LBCRBCI	82	14JUL12	11AUG12	4.1651	0.0423	1.0
870500_12_LBCRBCI	43	10AUG12	01SEP12	4.1963	0.0664	1.6
870400_12_LBCRBCI	15	12AUG12	24AUG12	4.1513	0.0336	0.8
870600_12_LBCRBCI	53	29AUG12	30SEP12	4.1958	0.0402	1.0
871400_12_LBCRBCI	70	29AUG12	14NOV12	4.1847	0.0474	1.1
870700_12_LBCRBCI	32	01SEP12	19SEP12	4.2050	0.0577	1.4
870800_12_LBCRBCI	29	18SEP12	08OCT12	4.1469	0.0327	0.8
871200_12_LBCRBCI	48	30SEP12	02NOV12	4.0754	0.0329	0.8
1.3293E8_12_LBCRBCI	68	08OCT12	12NOV12	3.9825	0.0781	2.0
871800_12_LBCRBCI	49	14NOV12	12DEC12	4.1778	0.0468	1.1
1.3296E8_12_LBCRBCI	47	18NOV12	19DEC12	3.9798	0.0407	1.0
872000_12_LBCRBCI	7	12DEC12	16DEC12	4.1943	0.0553	1.3
1.3297E8_13_LBCRBCI	32	04JAN13	20JAN13	4.0359	0.0703	1.7
1.3296E8_13_LBCRBCI	13	12JAN13	13JAN13	3.9185	0.0653	1.7


2011-2012 Red Cell Count (10^6 cells/uL) (Abn I) Quality Control
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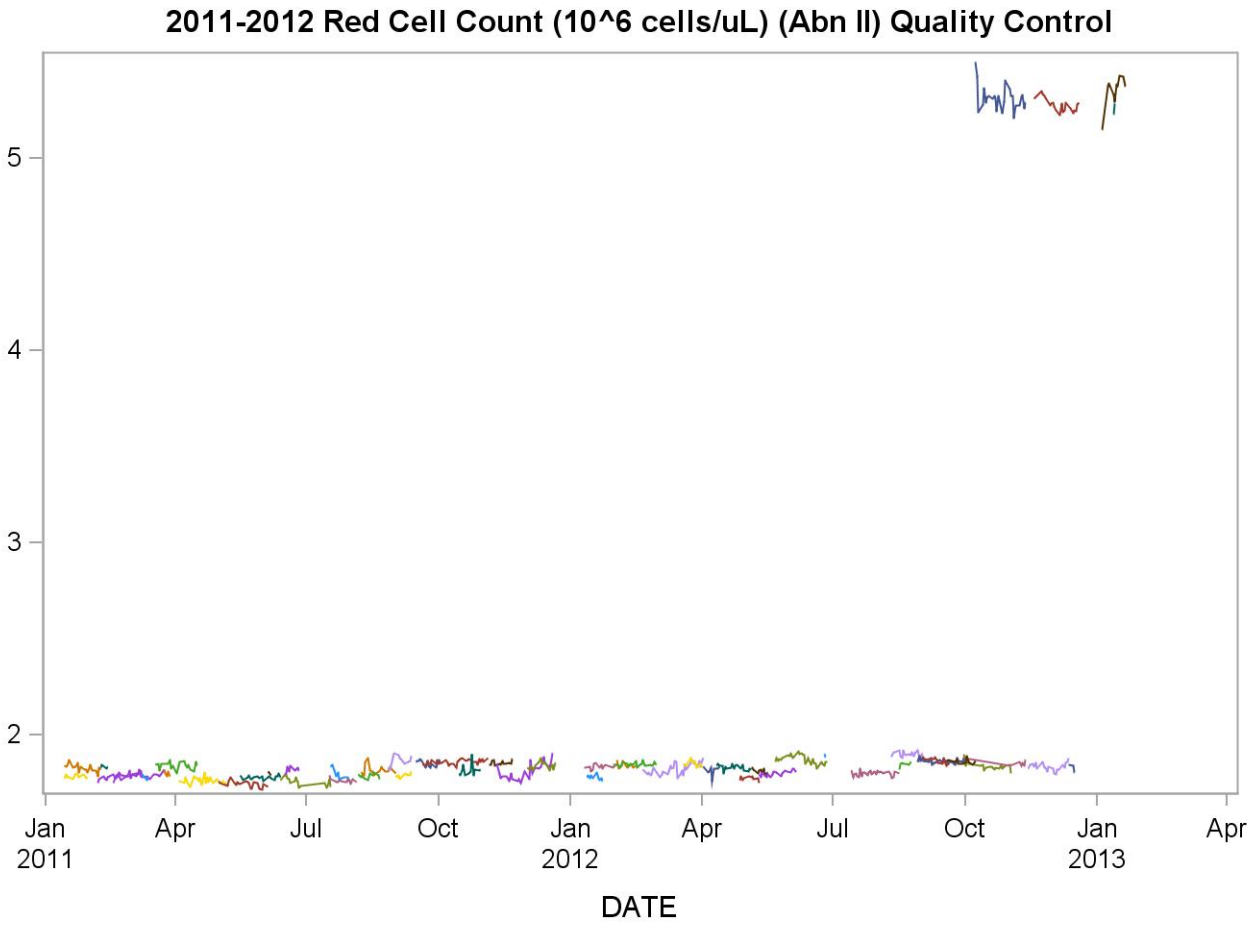
DATE

Summary Statistics for Red Cell Count (10^6 cells/uL) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCRBCII	46	14JAN11	08FEB11	1.8278	0.0252	1.4
869600_11_LBCRBCII	33	14JAN11	30JAN11	1.7821	0.0163	0.9
869900_11_LBCRBCII	49	06FEB11	08MAR11	1.7839	0.0201	1.1
869800_11_LBCRBCII	7	08FEB11	13FEB11	1.8343	0.0151	0.8
860100_11_LBCRBCII	53	17FEB11	24MAR11	1.7919	0.0195	1.1
860400_11_LBCRBCII	7	08MAR11	13MAR11	1.7800	0.0153	0.9
860700_11_LBCRBCII	50	18MAR11	16APR11	1.8414	0.0208	1.1
860600_11_LBCRBCII	11	24MAR11	28MAR11	1.7945	0.0250	1.4
860900_11_LBCRBCII	60	03APR11	07MAY11	1.7633	0.0253	1.4
861300_11_LBCRBCII	46	01MAY11	04JUN11	1.7450	0.0200	1.1
861400_11_LBCRBCII	43	16MAY11	13JUN11	1.7793	0.0172	1.0
861700_11_LBCRBCII	5	04JUN11	06JUN11	1.8000	0.0158	0.9
862100_11_LBCRBCII	32	13JUN11	18JUL11	1.7581	0.0233	1.3
861900_11_LBCRBCII	18	16JUN11	26JUN11	1.8172	0.0274	1.5
862800_11_LBCRBCII	26	17JUL11	05AUG11	1.7592	0.0181	1.0
862700_11_LBCRBCII	21	18JUL11	31JUL11	1.7900	0.0332	1.9
863200_11_LBCRBCII	28	06AUG11	21AUG11	1.7868	0.0213	1.2
863100_11_LBCRBCII	40	08AUG11	01SEP11	1.8175	0.0267	1.5
863400_11_LBCRBCII	24	27AUG11	12SEP11	1.8688	0.0264	1.4
863500_11_LBCRBCII	19	01SEP11	12SEP11	1.7905	0.0135	0.8
863800_11_LBCRBCII	25	15SEP11	02OCT11	1.8544	0.0208	1.1
863900_11_LBCRBCII	75	20SEP11	04NOV11	1.8596	0.0190	1.0
864300_11_LBCRBCII	23	15OCT11	30OCT11	1.8135	0.0293	1.6
864400_11_LBCRBCII	27	05NOV11	21NOV11	1.8541	0.0195	1.0
864800_11_LBCRBCII	50	10NOV11	19DEC11	1.8114	0.0476	2.6
865000_11_LBCRBCII	36	02DEC11	21DEC11	1.8406	0.0230	1.3
865800_12_LBCRBCII	32	10JAN12	02FEB12	1.8363	0.0170	0.9
865500_12_LBCRBCII	20	12JAN12	23JAN12	1.7790	0.0213	1.2
866100_12_LBCRBCII	57	30JAN12	29FEB12	1.8465	0.0180	1.0
865900_12_LBCRBCII	22	02FEB12	16FEB12	1.8409	0.0154	0.8
866500_12_LBCRBCII	91	20FEB12	02APR12	1.8238	0.0384	2.1
866900_12_LBCRBCII	15	19MAR12	01APR12	1.8520	0.0152	0.8
867000_12_LBCRBCII	19	02APR12	13APR12	1.8168	0.0233	1.3
867300_12_LBCRBCII	43	11APR12	05MAY12	1.8305	0.0180	1.0
867100_12_LBCRBCII	26	27APR12	11MAY12	1.7773	0.0166	0.9
867500_12_LBCRBCII	20	05MAY12	17MAY12	1.8095	0.0237	1.3
867800_12_LBCRBCII	38	11MAY12	06JUN12	1.8013	0.0173	1.0
868100_12_LBCRBCII	73	22MAY12	27JUN12	1.8708	0.0330	1.8
868300_12_LBCRBCII	4	25JUN12	26JUN12	1.8925	0.0150	0.8
869000_12_LBCRBCII	83	14JUL12	16AUG12	1.8017	0.0190	1.1
869500_12_LBCRBCII	40	10AUG12	01SEP12	1.9015	0.0252	1.3
869400_12_LBCRBCII	12	16AUG12	24AUG12	1.8500	0.0141	0.8
860400_12_LBCRBCII	59	29AUG12	12NOV12	1.8620	0.0220	1.2
869600_12_LBCRBCII	48	29AUG12	30SEP12	1.8638	0.0203	1.1
869700_12_LBCRBCII	31	01SEP12	19SEP12	1.8719	0.0282	1.5
869800_12_LBCRBCII	27	18SEP12	08OCT12	1.8593	0.0144	0.8
860200_12_LBCRBCII	46	30SEP12	02NOV12	1.8367	0.0225	1.2
1.4293E8_12_LBCRBCII	64	08OCT12	12NOV12	5.3134	0.0958	1.8
860800_12_LBCRBCII	53	14NOV12	12DEC12	1.8360	0.0294	1.6
1.4296E8_12_LBCRBCII	45	18NOV12	19DEC12	5.2780	0.0477	0.9
861000_12_LBCRBCII	7	12DEC12	16DEC12	1.8314	0.0348	1.9
1.4297E8_13_LBCRBCII	32	04JAN13	20JAN13	5.3659	0.1044	1.9
1.4296E8_13_LBCRBCII	9	12JAN13	13JAN13	5.2533	0.0863	1.6


2011-2012 Red Cell Count (10^6 cells/uL) (Abn ll) Quality Control
5
4
3
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Jan
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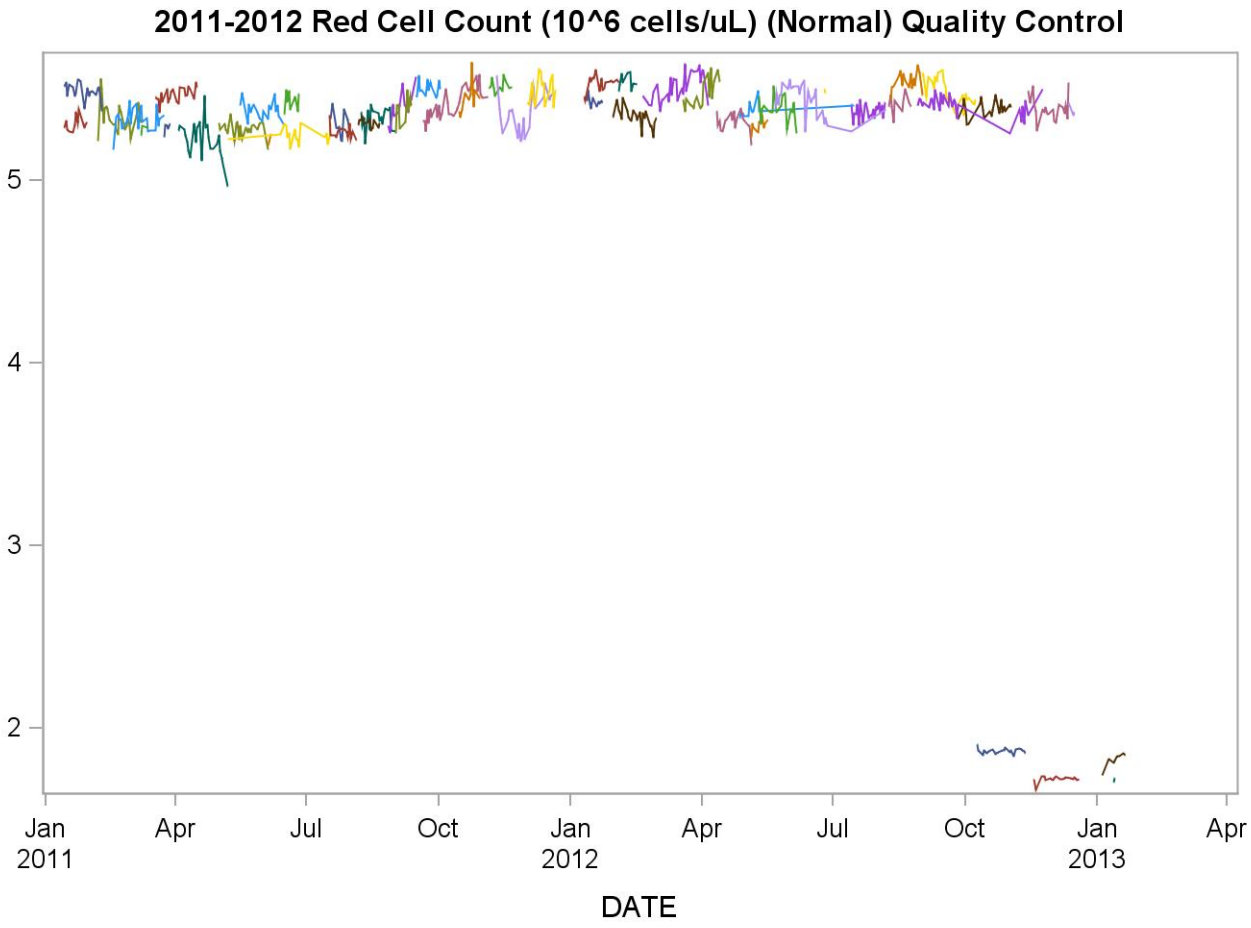
Jan
2013
Apr
DATE

Summary Statistics for Red Cell Count (10^6 cells/uL) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCRBCN	50	14JAN11	09FEB11	5.4958	0.0737	1.3
889900_11_LBCRBCN	26	14JAN11	30JAN11	5.3092	0.0531	1.0
880200_11_LBCRBCN	59	06FEB11	08MAR11	5.3500	0.0981	1.8
880500_11_LBCRBCN	51	17FEB11	24MAR11	5.3339	0.0759	1.4
880700_11_LBCRBCN	9	08MAR11	13MAR11	5.2878	0.0552	1.0
881100_11_LBCRBCN	48	18MAR11	16APR11	5.4677	0.0547	1.0
881000_11_LBCRBCN	19	24MAR11	28MAR11	5.2979	0.0592	1.1
881300_11_LBCRBCN	64	03APR11	07MAY11	5.2408	0.1277	2.4
881700_11_LBCRBCN	48	01MAY11	04JUN11	5.2898	0.0468	0.9
882600_11_LBCRBCN	36	07MAY11	18JUL11	5.2456	0.0571	1.1
881800_11_LBCRBCN	45	16MAY11	16JUN11	5.3876	0.0657	1.2
882100_11_LBCRBCN	5	04JUN11	06JUN11	5.2240	0.0647	1.2
882200_11_LBCRBCN	19	16JUN11	26JUN11	5.4400	0.0939	1.7
883300_11_LBCRBCN	26	17JUL11	05AUG11	5.2688	0.0408	0.8
883200_11_LBCRBCN	19	18JUL11	31JUL11	5.3047	0.0783	1.5
884000_11_LBCRBCN	27	06AUG11	21AUG11	5.3148	0.0443	0.8
883700_11_LBCRBCN	40	08AUG11	01SEP11	5.3480	0.0724	1.4
884100_11_LBCRBCN	30	27AUG11	15SEP11	5.4070	0.0929	1.7
884300_11_LBCRBCN	18	01SEP11	12SEP11	5.3894	0.0736	1.4
884600_11_LBCRBCN	25	15SEP11	02OCT11	5.5020	0.0447	0.8
884700_11_LBCRBCN	80	20SEP11	04NOV11	5.4265	0.0882	1.6
885100_11_LBCRBCN	24	15OCT11	30OCT11	5.4446	0.0727	1.3
885200_11_LBCRBCN	26	05NOV11	21NOV11	5.5188	0.0495	0.9
885600_11_LBCRBCN	68	10NOV11	19DEC11	5.3797	0.1153	2.1
885900_11_LBCRBCN	40	02DEC11	21DEC11	5.4825	0.0981	1.8
886600_12_LBCRBCN	36	10JAN12	03FEB12	5.5372	0.0659	1.2
886300_12_LBCRBCN	23	12JAN12	23JAN12	5.4352	0.0469	0.9
886900_12_LBCRBCN	60	30JAN12	29FEB12	5.3532	0.0683	1.3
886700_12_LBCRBCN	22	03FEB12	16FEB12	5.5450	0.0705	1.3
887400_12_LBCRBCN	94	20FEB12	05APR12	5.5077	0.0953	1.7
887800_12_LBCRBCN	34	19MAR12	13APR12	5.4824	0.0974	1.8
888200_12_LBCRBCN	47	11APR12	05MAY12	5.3211	0.0639	1.2
888100_12_LBCRBCN	30	27APR12	16JUL12	5.3853	0.0540	1.0
888500_12_LBCRBCN	18	05MAY12	17MAY12	5.3094	0.0476	0.9
888700_12_LBCRBCN	39	11MAY12	06JUN12	5.3992	0.0741	1.4
889000_12_LBCRBCN	80	22MAY12	07AUG12	5.4308	0.1084	2.0
889500_12_LBCRBCN	5	25JUN12	26JUN12	5.4940	0.0754	1.4
880100_12_LBCRBCN	76	14JUL12	06AUG12	5.3792	0.0693	1.3
880500_12_LBCRBCN	20	09AUG12	24AUG12	5.4185	0.0546	1.0
880600_12_LBCRBCN	45	10AUG12	01SEP12	5.5471	0.0733	1.3
880700_12_LBCRBCN	50	29AUG12	26SEP12	5.4352	0.0744	1.4
881500_12_LBCRBCN	66	29AUG12	24NOV12	5.4203	0.0803	1.5
880900_12_LBCRBCN	62	01SEP12	08OCT12	5.4923	0.0889	1.6
881300_12_LBCRBCN	58	26SEP12	02NOV12	5.3903	0.0682	1.3
1.2293E8_12_LBCRBCN	62	09OCT12	12NOV12	1.8702	0.0223	1.2
882000_12_LBCRBCN	48	14NOV12	12DEC12	5.3975	0.0895	1.7
1.2296E8_12_LBCRBCN	51	18NOV12	19DEC12	1.7229	0.0142	0.8
882200_12_LBCRBCN	8	12DEC12	16DEC12	5.3900	0.0561	1.0
1.2297E8_13_LBCRBCN	32	04JAN13	20JAN13	1.8375	0.0352	1.9
1.2296E8_13_LBCRBCN	11	12JAN13	13JAN13	1.7091	0.0217	1.3


2011-2012 Red Cell Count (10^6 cells/uL) (Normal) Quality Control
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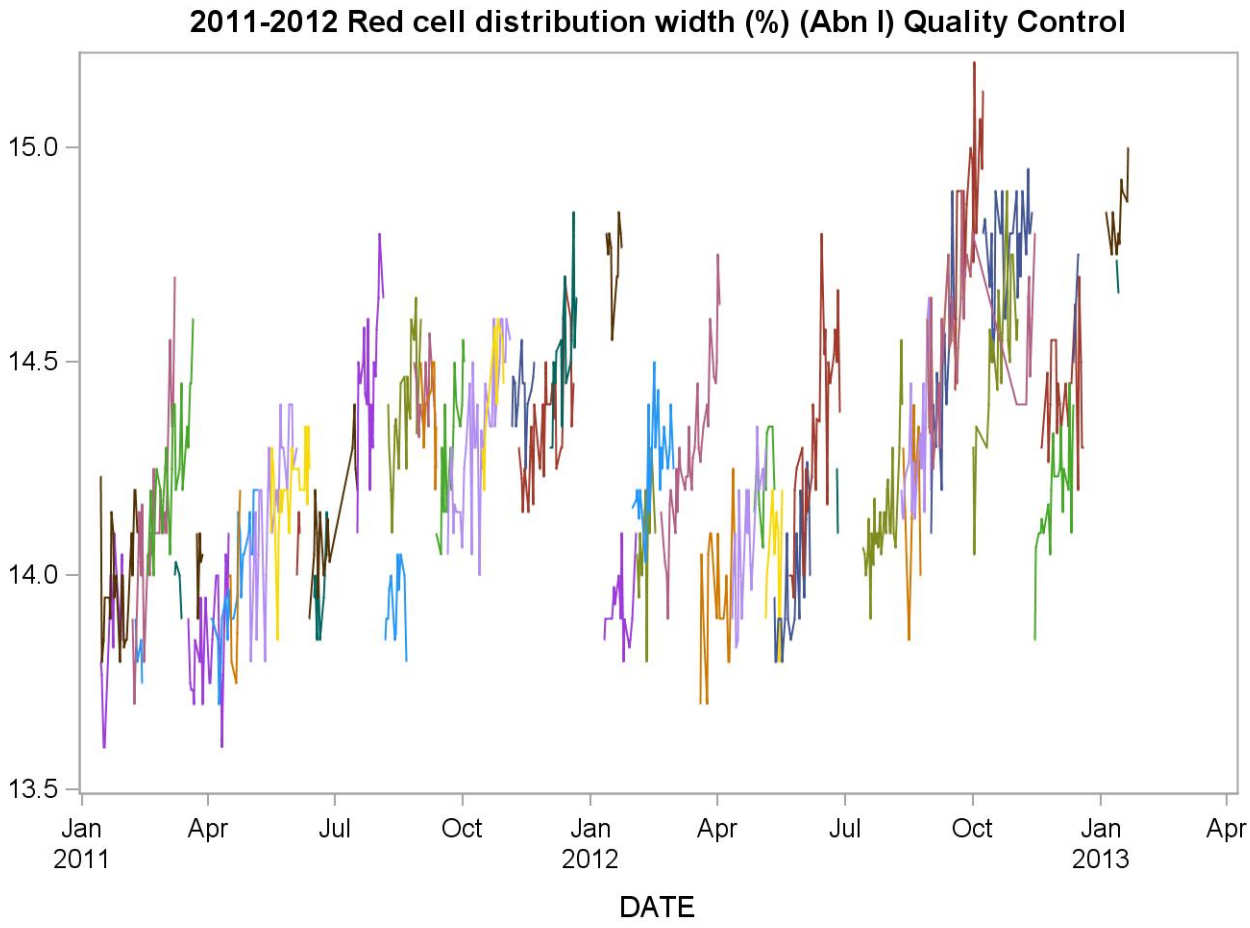
Summary Statistics for Red cell distribution width (%) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCRDWI	25	14JAN11	30JAN11	13.8640	0.1411	1.0
879800_11_LBCRDWI	49	14JAN11	09FEB11	13.9939	0.1651	1.2
870300_11_LBCRDWI	47	06FEB11	08MAR11	14.1319	0.2044	1.4
870200_11_LBCRDWI	7	08FEB11	13FEB11	13.8143	0.1345	1.0
870500_11_LBCRDWI	49	17FEB11	21MAR11	14.2531	0.1815	1.3
870900_11_LBCRDWI	9	08MAR11	13MAR11	13.9889	0.1054	0.8
871200_11_LBCRDWI	49	18MAR11	16APR11	13.8347	0.1665	1.2
871100_11_LBCRDWI	10	24MAR11	28MAR11	14.0300	0.1252	0.9
871400_11_LBCRDWI	47	03APR11	07MAY11	13.9638	0.1466	1.0
871500_11_LBCRDWI	14	16APR11	24APR11	13.9357	0.1692	1.2
871900_11_LBCRDWI	46	01MAY11	04JUN11	14.1761	0.1779	1.3
872000_11_LBCRDWI	42	16MAY11	13JUN11	14.2024	0.1675	1.2
872200_11_LBCRDWI	5	04JUN11	06JUN11	14.1000	0.0707	0.5
872600_11_LBCRDWI	34	13JUN11	18JUL11	14.1088	0.1525	1.1
872400_11_LBCRDWI	18	16JUN11	26JUN11	13.9889	0.1278	0.9
873200_11_LBCRDWI	42	17JUL11	05AUG11	14.4905	0.1665	1.1
873700_11_LBCRDWI	26	06AUG11	21AUG11	13.9385	0.1169	0.8
873600_11_LBCRDWI	39	08AUG11	01SEP11	14.3897	0.1729	1.2
873900_11_LBCRDWI	28	27AUG11	12SEP11	14.4071	0.1438	1.0
874100_11_LBCRDWI	17	01SEP11	12SEP11	14.4059	0.1784	1.2
874400_11_LBCRDWI	26	12SEP11	02OCT11	14.3038	0.1907	1.3
874500_11_LBCRDWI	80	20SEP11	04NOV11	14.3238	0.2008	1.4
874900_11_LBCRDWI	27	15OCT11	30OCT11	14.4556	0.1783	1.2
875000_11_LBCRDWI	29	05NOV11	21NOV11	14.4276	0.1533	1.1
875400_11_LBCRDWI	66	10NOV11	19DEC11	14.3561	0.1866	1.3
875700_11_LBCRDWI	37	02DEC11	21DEC11	14.5189	0.1777	1.2
876500_12_LBCRDWI	33	10JAN12	02FEB12	13.9273	0.1126	0.8
876100_12_LBCRDWI	22	12JAN12	23JAN12	14.7500	0.1439	1.0
876800_12_LBCRDWI	60	30JAN12	29FEB12	14.2400	0.1628	1.1
876600_12_LBCRDWI	22	03FEB12	16FEB12	14.1227	0.1798	1.3
877300_12_LBCRDWI	92	20FEB12	02APR12	14.2891	0.2035	1.4
877800_12_LBCRDWI	29	19MAR12	13APR12	13.9724	0.1888	1.4
878200_12_LBCRDWI	44	11APR12	05MAY12	14.0841	0.1928	1.4
878100_12_LBCRDWI	25	27APR12	11MAY12	14.2280	0.1514	1.1
878500_12_LBCRDWI	19	05MAY12	17MAY12	14.0895	0.1370	1.0
878600_12_LBCRDWI	38	11MAY12	06JUN12	13.9763	0.1792	1.3
879000_12_LBCRDWI	74	22MAY12	27JUN12	14.3493	0.2374	1.7
879300_12_LBCRDWI	4	25JUN12	26JUN12	14.1750	0.1708	1.2
870000_12_LBCRDWI	82	14JUL12	11AUG12	14.1256	0.1522	1.1
870500_12_LBCRDWI	43	10AUG12	01SEP12	14.2721	0.1804	1.3
870400_12_LBCRDWI	15	12AUG12	24AUG12	14.1467	0.1885	1.3
870600_12_LBCRDWI	54	29AUG12	30SEP12	14.5593	0.1918	1.3
871400_12_LBCRDWI	71	29AUG12	14NOV12	14.5690	0.1997	1.4
870700_12_LBCRDWI	32	01SEP12	19SEP12	14.4688	0.2608	1.8
870800_12_LBCRDWI	29	18SEP12	08OCT12	14.8966	0.2383	1.6
871200_12_LBCRDWI	48	30SEP12	02NOV12	14.5042	0.2062	1.4
1.3293E8_12_LBCRDWI	67	08OCT12	12NOV12	14.7522	0.1812	1.2
871800_12_LBCRDWI	49	14NOV12	12DEC12	14.1816	0.1654	1.2
1.3296E8_12_LBCRDWI	47	18NOV12	19DEC12	14.4213	0.1587	1.1
872000_12_LBCRDWI	7	12DEC12	16DEC12	14.6429	0.2370	1.6
1.3297E8_13_LBCRDWI	32	04JAN13	20JAN13	14.8656	0.2042	1.4
1.3296E8_13_LBCRDWI	13	12JAN13	13JAN13	14.7077	0.1605	1.1


2011-2012 Red cell distribution width (%) (Abn l) Quality Control
15.0
14.5
14.0
13.5
Jan
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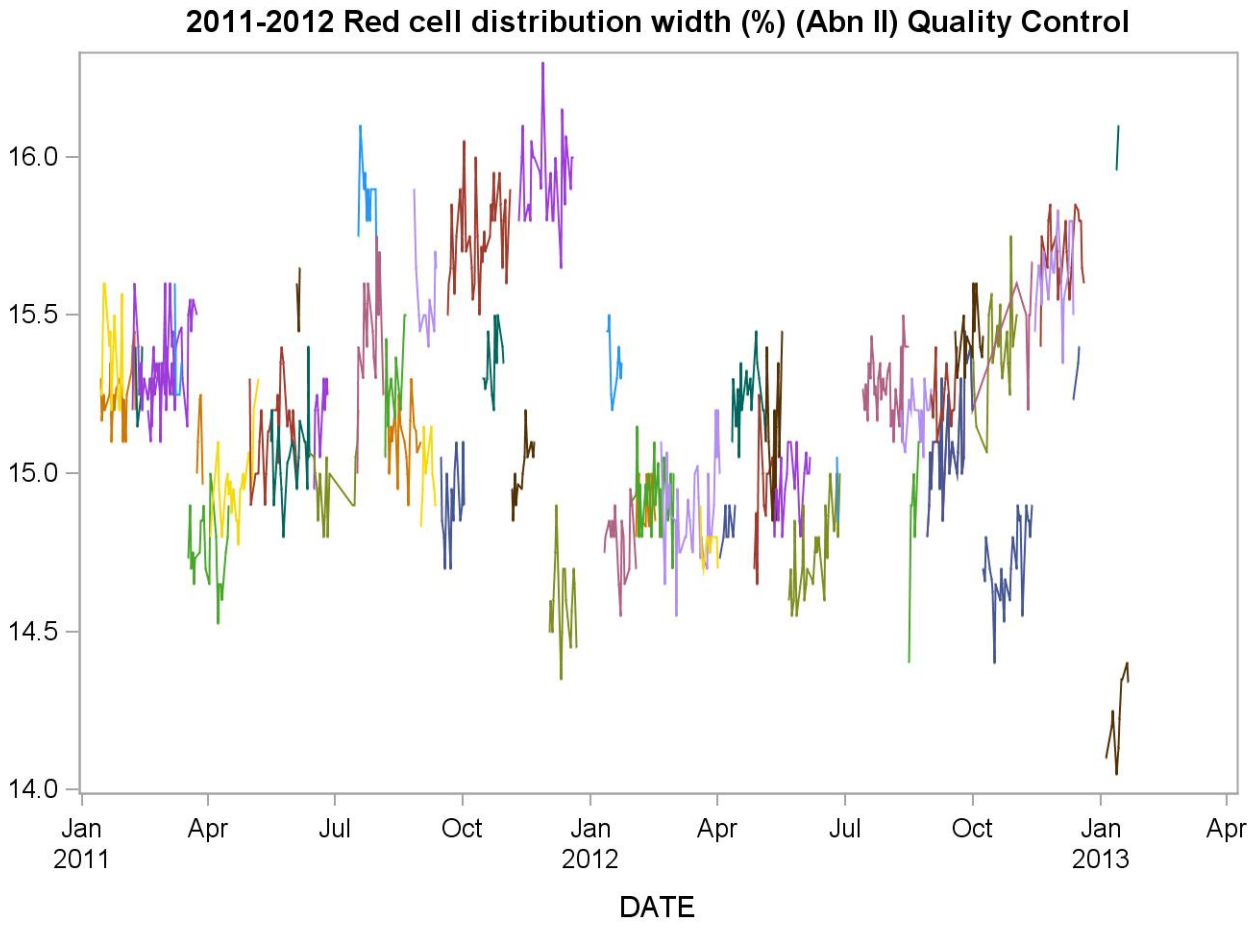
Jan
2013
Apr
DATE

Summary Statistics for Red cell distribution width (%) (Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCRDWII	45	14JAN11	08FEB11	15.2467	0.1604	1.1
869600_11_LBCRDWII	32	14JAN11	30JAN11	15.3313	0.1712	1.1
869900_11_LBCRDWII	49	06FEB11	08MAR11	15.2898	0.1782	1.2
869800_11_LBCRDWII	7	08FEB11	13FEB11	15.2857	0.2734	1.8
860100_11_LBCRDWII	54	17FEB11	24MAR11	15.3852	0.1763	1.1
860400_11_LBCRDWII	7	08MAR11	13MAR11	15.3286	0.1380	0.9
860700_11_LBCRDWII	49	18MAR11	16APR11	14.7551	0.1709	1.2
860600_11_LBCRDWII	11	24MAR11	28MAR11	15.1182	0.1471	1.0
860900_11_LBCRDWII	60	03APR11	07MAY11	14.9467	0.1546	1.0
861300_11_LBCRDWII	46	01MAY11	04JUN11	15.1370	0.1624	1.1
861400_11_LBCRDWII	43	16MAY11	13JUN11	15.0651	0.1541	1.0
861700_11_LBCRDWII	5	04JUN11	06JUN11	15.5600	0.1517	1.0
862100_11_LBCRDWII	31	13JUN11	18JUL11	14.9645	0.1404	0.9
861900_11_LBCRDWII	18	16JUN11	26JUN11	15.1889	0.1491	1.0
862800_11_LBCRDWII	26	17JUL11	05AUG11	15.4654	0.2171	1.4
862700_11_LBCRDWII	21	18JUL11	31JUL11	15.8619	0.1532	1.0
863200_11_LBCRDWII	28	06AUG11	21AUG11	15.2857	0.2085	1.4
863100_11_LBCRDWII	40	08AUG11	01SEP11	15.1075	0.1591	1.1
863400_11_LBCRDWII	24	27AUG11	12SEP11	15.5708	0.1781	1.1
863500_11_LBCRDWII	19	01SEP11	12SEP11	14.9789	0.1437	1.0
863800_11_LBCRDWII	25	15SEP11	02OCT11	14.9000	0.1708	1.1
863900_11_LBCRDWII	76	20SEP11	04NOV11	15.7553	0.1692	1.1
864300_11_LBCRDWII	22	15OCT11	30OCT11	15.3409	0.1297	0.8
864400_11_LBCRDWII	28	05NOV11	21NOV11	15.0143	0.1297	0.9
864800_11_LBCRDWII	50	10NOV11	19DEC11	15.9420	0.1774	1.1
865000_11_LBCRDWII	36	02DEC11	21DEC11	14.6028	0.1765	1.2
865800_12_LBCRDWII	32	10JAN12	02FEB12	14.7781	0.1773	1.2
865500_12_LBCRDWII	20	12JAN12	23JAN12	15.3550	0.1432	0.9
866100_12_LBCRDWII	57	30JAN12	29FEB12	14.9298	0.1636	1.1
865900_12_LBCRDWII	23	02FEB12	16FEB12	14.8826	0.0984	0.7
866500_12_LBCRDWII	92	20FEB12	02APR12	14.8772	0.2049	1.4
866900_12_LBCRDWII	15	19MAR12	01APR12	14.7800	0.1207	0.8
867000_12_LBCRDWII	19	02APR12	13APR12	14.8421	0.1539	1.0
867300_12_LBCRDWII	43	11APR12	05MAY12	15.2465	0.1548	1.0
867100_12_LBCRDWII	26	27APR12	11MAY12	14.9231	0.2065	1.4
867500_12_LBCRDWII	20	05MAY12	17MAY12	15.1300	0.2227	1.5
867800_12_LBCRDWII	38	11MAY12	06JUN12	14.9658	0.1475	1.0
868100_12_LBCRDWII	72	22MAY12	27JUN12	14.7722	0.1900	1.3
868300_12_LBCRDWII	4	25JUN12	26JUN12	14.9500	0.1291	0.9
869000_12_LBCRDWII	84	14JUL12	16AUG12	15.2762	0.1705	1.1
869500_12_LBCRDWII	40	10AUG12	01SEP12	15.1875	0.1697	1.1
869400_12_LBCRDWII	12	16AUG12	24AUG12	14.9167	0.2125	1.4
860400_12_LBCRDWII	60	29AUG12	12NOV12	15.1767	0.2554	1.7
869600_12_LBCRDWII	49	29AUG12	30SEP12	15.0980	0.1876	1.2
869700_12_LBCRDWII	31	01SEP12	19SEP12	15.2290	0.1442	0.9
869800_12_LBCRDWII	27	18SEP12	08OCT12	15.4333	0.1732	1.1
860200_12_LBCRDWII	46	30SEP12	02NOV12	15.4043	0.2097	1.4
1.4293E8_12_LBCRDWII	64	08OCT12	12NOV12	14.7078	0.1784	1.2
860800_12_LBCRDWII	53	14NOV12	12DEC12	15.6283	0.1598	1.0
1.4296E8_12_LBCRDWII	45	18NOV12	19DEC12	15.7022	0.1340	0.9
861000_12_LBCRDWII	7	12DEC12	16DEC12	15.3143	0.1345	0.9
1.4297E8_13_LBCRDWII	32	04JAN13	20JAN13	14.2688	0.1655	1.2
1.4296E8_13_LBCRDWII	9	12JAN13	13JAN13	16.0222	0.2489	1.6


2011-2012 Red cell distribution width (%) (Abn II) Quality Control
16.0
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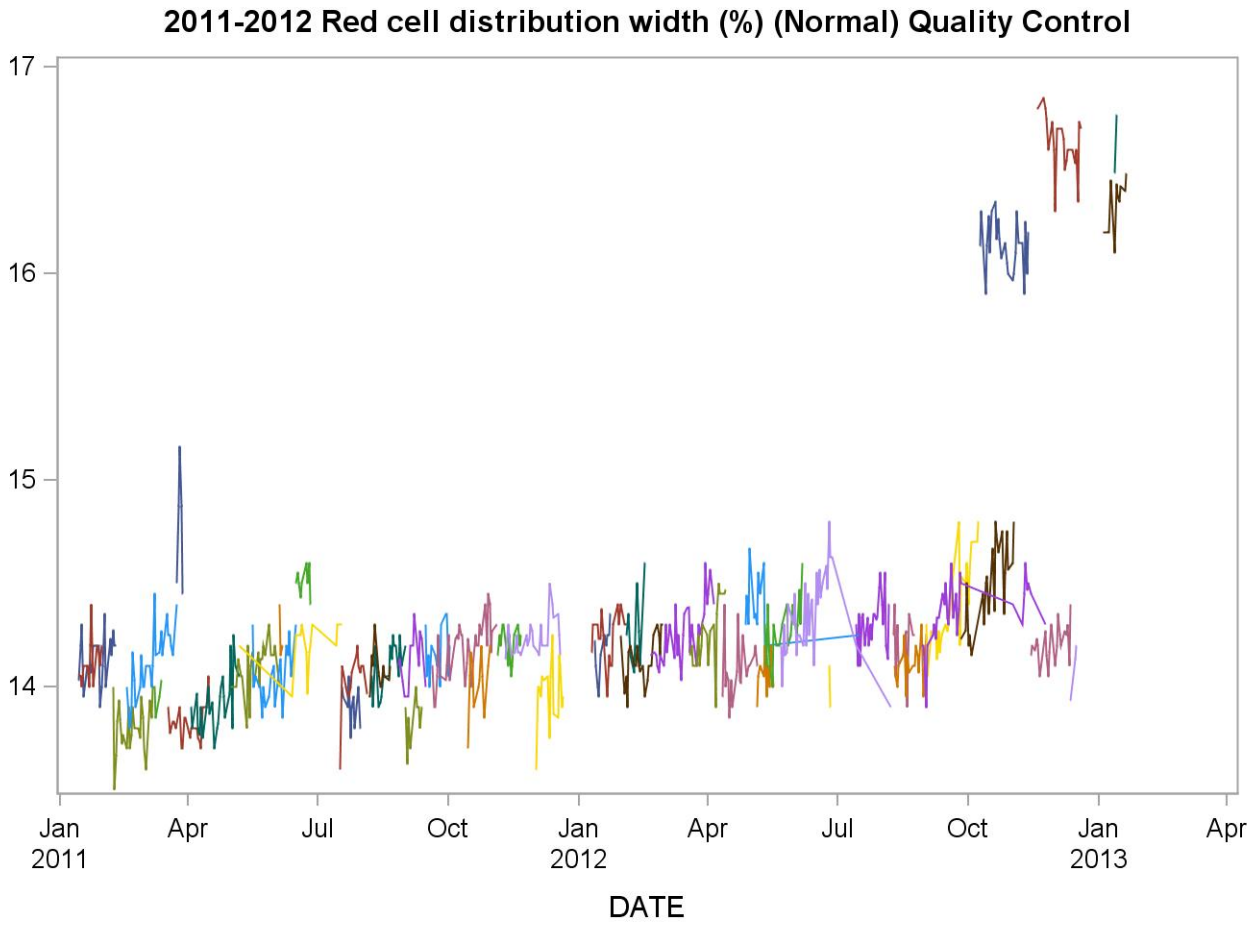
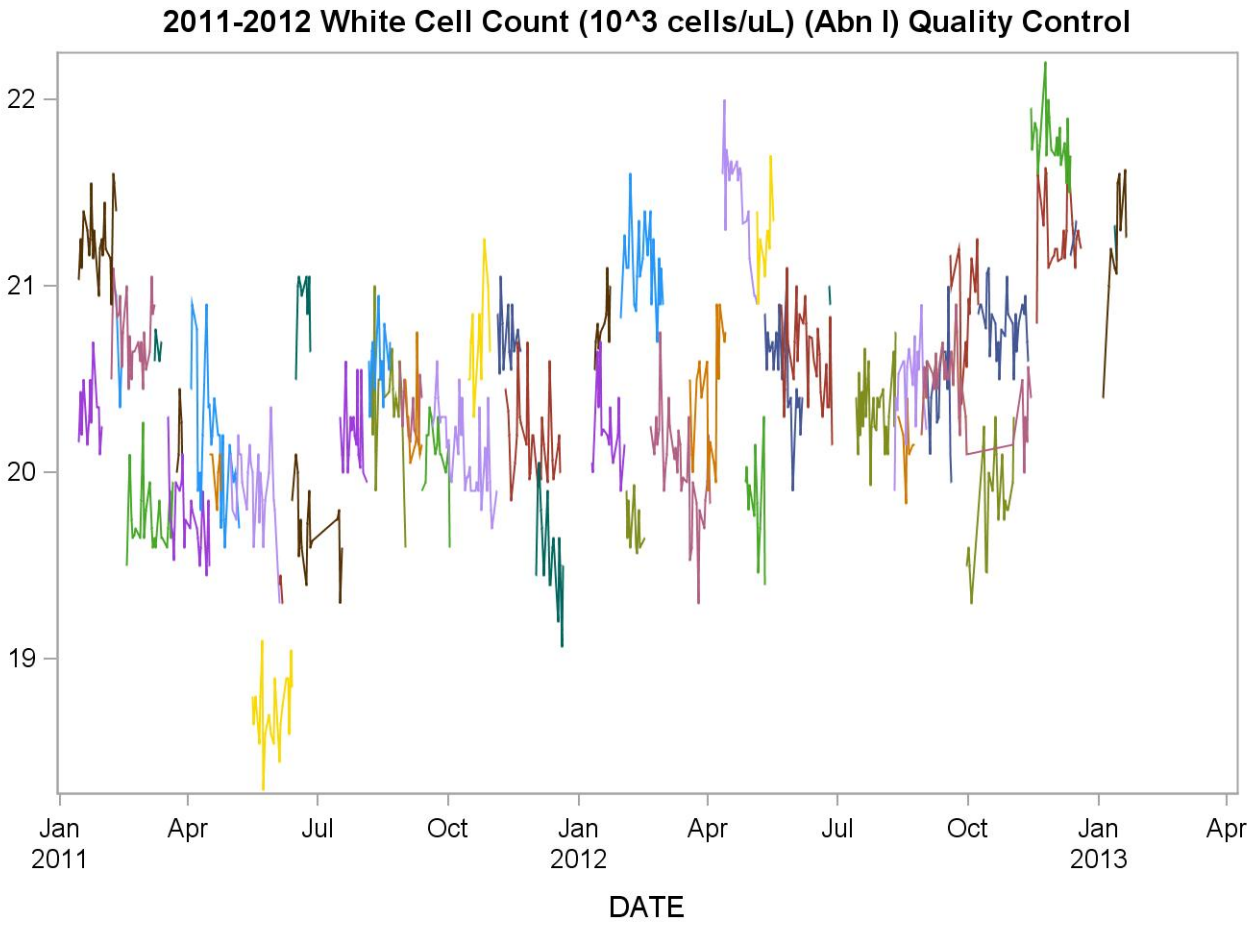
Summary Statistics for Red cell distribution width (%) (Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCRDWN	50	14JAN11	09FEB11	14.1380	0.1640	1.2
889900_11_LBCRDWN	26	14JAN11	30JAN11	14.1154	0.1190	0.8
880200_11_LBCRDWN	58	07FEB11	08MAR11	13.8069	0.1532	1.1
880500_11_LBCRDWN	51	17FEB11	24MAR11	14.1275	0.1812	1.3
880700_11_LBCRDWN	9	08MAR11	13MAR11	13.9667	0.1581	1.1
881100_11_LBCRDWN	48	18MAR11	16APR11	13.8146	0.1304	0.9
881000_11_LBCRDWN	19	24MAR11	28MAR11	14.8842	0.3236	2.2
881300_11_LBCRDWN	64	03APR11	07MAY11	13.9125	0.1839	1.3
881700_11_LBCRDWN	48	01MAY11	04JUN11	14.1042	0.1352	1.0
882600_11_LBCRDWN	36	07MAY11	18JUL11	14.2028	0.1647	1.2
881800_11_LBCRDWN	45	16MAY11	16JUN11	14.0556	0.1803	1.3
882100_11_LBCRDWN	5	04JUN11	06JUN11	14.2200	0.1095	0.8
882200_11_LBCRDWN	19	16JUN11	26JUN11	14.5053	0.1393	1.0
883300_11_LBCRDWN	27	17JUL11	05AUG11	14.0333	0.1593	1.1
883200_11_LBCRDWN	19	18JUL11	31JUL11	13.9053	0.1353	1.0
884000_11_LBCRDWN	27	06AUG11	21AUG11	14.0630	0.1245	0.9
883700_11_LBCRDWN	40	08AUG11	01SEP11	14.0875	0.1620	1.2
884100_11_LBCRDWN	30	27AUG11	15SEP11	14.1467	0.1814	1.3
884300_11_LBCRDWN	18	01SEP11	12SEP11	13.8167	0.1654	1.2
884600_11_LBCRDWN	25	15SEP11	02OCT11	14.1720	0.1487	1.0
884700_11_LBCRDWN	80	20SEP11	04NOV11	14.1850	0.1527	1.1
885100_11_LBCRDWN	24	15OCT11	30OCT11	14.0417	0.1863	1.3
885200_11_LBCRDWN	26	05NOV11	21NOV11	14.2077	0.1547	1.1
885600_11_LBCRDWN	67	10NOV11	19DEC11	14.2328	0.1284	0.9
885900_11_LBCRDWN	40	02DEC11	21DEC11	13.9650	0.2095	1.5
886600_12_LBCRDWN	36	10JAN12	03FEB12	14.2500	0.1521	1.1
886300_12_LBCRDWN	23	12JAN12	23JAN12	14.1783	0.2022	1.4
886900_12_LBCRDWN	59	30JAN12	29FEB12	14.1271	0.1495	1.1
886700_12_LBCRDWN	22	03FEB12	16FEB12	14.2818	0.2322	1.6
887400_12_LBCRDWN	94	20FEB12	05APR12	14.2500	0.1854	1.3
887800_12_LBCRDWN	34	19MAR12	13APR12	14.2559	0.1910	1.3
888200_12_LBCRDWN	47	11APR12	05MAY12	14.0723	0.1778	1.3
888100_12_LBCRDWN	30	27APR12	16JUL12	14.4233	0.1832	1.3
888500_12_LBCRDWN	18	05MAY12	17MAY12	14.0556	0.1097	0.8
888700_12_LBCRDWN	39	11MAY12	06JUN12	14.2692	0.1838	1.3
889000_12_LBCRDWN	80	22MAY12	07AUG12	14.4106	0.2106	1.5
889500_12_LBCRDWN	5	25JUN12	26JUN12	14.0200	0.1483	1.1
880100_12_LBCRDWN	76	14JUL12	06AUG12	14.3079	0.1817	1.3
880500_12_LBCRDWN	20	09AUG12	24AUG12	14.2250	0.1916	1.3
880600_12_LBCRDWN	45	10AUG12	01SEP12	14.1089	0.1345	1.0
880700_12_LBCRDWN	50	29AUG12	26SEP12	14.3140	0.1906	1.3
881500_12_LBCRDWN	66	29AUG12	24NOV12	14.3515	0.1850	1.3
880900_12_LBCRDWN	62	01SEP12	08OCT12	14.3935	0.2475	1.7
881300_12_LBCRDWN	58	26SEP12	02NOV12	14.4897	0.2261	1.6
1.2293E8_12_LBCRDWN	62	09OCT12	12NOV12	16.1371	0.2010	1.2
882000_12_LBCRDWN	48	14NOV12	12DEC12	14.2042	0.1637	1.2
1.2296E8_12_LBCRDWN	52	18NOV12	19DEC12	16.6462	0.2155	1.3
882200_12_LBCRDWN	8	12DEC12	16DEC12	14.0750	0.2053	1.5
1.2297E8_13_LBCRDWN	32	04JAN13	20JAN13	16.3781	0.2196	1.3
1.2296E8_13_LBCRDWN	11	12JAN13	13JAN13	16.5636	0.2157	1.3


2011-2012 Red cell distribution width (%) (Normal) Quality Control
17
16
15
14
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for White Cell Count (10^3 cells/uL) (Abn I)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
870000_11_LBCWBCI	25	14JAN11	30JAN11	20.3000	0.2141	1.1
879800_11_LBCWBCI	49	14JAN11	09FEB11	21.2327	0.3003	1.4
870300_11_LBCWBCI	47	06FEB11	08MAR11	20.7170	0.2548	1.2
870200_11_LBCWBCI	7	08FEB11	13FEB11	20.7000	0.3162	1.5
870500_11_LBCWBCI	48	17FEB11	21MAR11	19.7583	0.2688	1.4
870900_11_LBCWBCI	9	08MAR11	13MAR11	20.6778	0.2438	1.2
871200_11_LBCWBCI	49	18MAR11	16APR11	19.7469	0.2994	1.5
871100_11_LBCWBCI	10	24MAR11	28MAR11	20.1800	0.2440	1.2
871400_11_LBCWBCI	47	03APR11	07MAY11	20.1766	0.3783	1.9
871500_11_LBCWBCI	14	16APR11	24APR11	20.0214	0.2833	1.4
871900_11_LBCWBCI	45	01MAY11	04JUN11	19.9444	0.2768	1.4
872000_11_LBCWBCI	42	16MAY11	13JUN11	18.7262	0.2732	1.5
872200_11_LBCWBCI	5	04JUN11	06JUN11	19.3800	0.3564	1.8
872600_11_LBCWBCI	34	13JUN11	18JUL11	19.7176	0.2564	1.3
872400_11_LBCWBCI	18	16JUN11	26JUN11	20.9000	0.3881	1.9
873200_11_LBCWBCI	43	17JUL11	05AUG11	20.1721	0.2720	1.3
873700_11_LBCWBCI	25	06AUG11	21AUG11	20.5920	0.2290	1.1
873600_11_LBCWBCI	39	08AUG11	01SEP11	20.4667	0.3351	1.6
873900_11_LBCWBCI	28	27AUG11	12SEP11	20.3536	0.3237	1.6
874100_11_LBCWBCI	17	01SEP11	12SEP11	20.2647	0.3161	1.6
874400_11_LBCWBCI	26	12SEP11	02OCT11	20.1231	0.2084	1.0
874500_11_LBCWBCI	80	20SEP11	04NOV11	20.1088	0.3070	1.5
874900_11_LBCWBCI	27	15OCT11	30OCT11	20.7037	0.2766	1.3
875000_11_LBCWBCI	29	05NOV11	21NOV11	20.7241	0.2474	1.2
875400_11_LBCWBCI	66	10NOV11	19DEC11	20.1636	0.3092	1.5
875700_11_LBCWBCI	37	02DEC11	21DEC11	19.5297	0.3315	1.7
876500_12_LBCWBCI	34	10JAN12	02FEB12	20.2382	0.2775	1.4
876100_12_LBCWBCI	22	12JAN12	23JAN12	20.7955	0.2554	1.2
876800_12_LBCWBCI	59	30JAN12	29FEB12	21.0763	0.3234	1.5
876600_12_LBCWBCI	22	03FEB12	16FEB12	19.7273	0.2472	1.3
877300_12_LBCWBCI	92	20FEB12	02APR12	20.0239	0.3421	1.7
877800_12_LBCWBCI	29	19MAR12	13APR12	20.4241	0.3642	1.8
878200_12_LBCWBCI	44	11APR12	05MAY12	21.4864	0.3414	1.6
878100_12_LBCWBCI	25	27APR12	11MAY12	19.8600	0.4143	2.1
878500_12_LBCWBCI	19	05MAY12	17MAY12	21.2368	0.1978	0.9
878600_12_LBCWBCI	37	11MAY12	06JUN12	20.5622	0.3235	1.6
879000_12_LBCWBCI	74	22MAY12	27JUN12	20.6020	0.3824	1.9
879300_12_LBCWBCI	4	25JUN12	26JUN12	20.9500	0.1732	0.8
870000_12_LBCWBCI	80	14JUL12	11AUG12	20.3619	0.2876	1.4
870500_12_LBCWBCI	43	10AUG12	01SEP12	20.4860	0.3204	1.6
870400_12_LBCWBCI	15	12AUG12	24AUG12	20.1333	0.2769	1.4
870600_12_LBCWBCI	53	29AUG12	30SEP12	20.5094	0.2506	1.2
871400_12_LBCWBCI	70	29AUG12	14NOV12	20.4586	0.2618	1.3
870700_12_LBCWBCI	32	01SEP12	19SEP12	20.4438	0.2850	1.4
870800_12_LBCWBCI	29	18SEP12	08OCT12	20.8931	0.3595	1.7
871200_12_LBCWBCI	48	30SEP12	02NOV12	19.8438	0.4346	2.2
1.3293E8_12_LBCWBCI	68	08OCT12	12NOV12	20.7838	0.2996	1.4
871800_12_LBCWBCI	49	14NOV12	12DEC12	21.7939	0.2322	1.1
1.3296E8_12_LBCWBCI	47	18NOV12	19DEC12	21.2830	0.2839	1.3
872000_12_LBCWBCI	7	12DEC12	16DEC12	21.2571	0.3047	1.4
1.3297E8_13_LBCWBCI	32	04JAN13	20JAN13	21.2875	0.3499	1.6
1.3296E8_13_LBCWBCI	13	12JAN13	13JAN13	21.2538	0.3950	1.9


2011-2012 White Cell Count (10^3 cells/uL) (Abn l) Quality Control
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21
20
19
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2011
Apr
Jul
Oct
Jan
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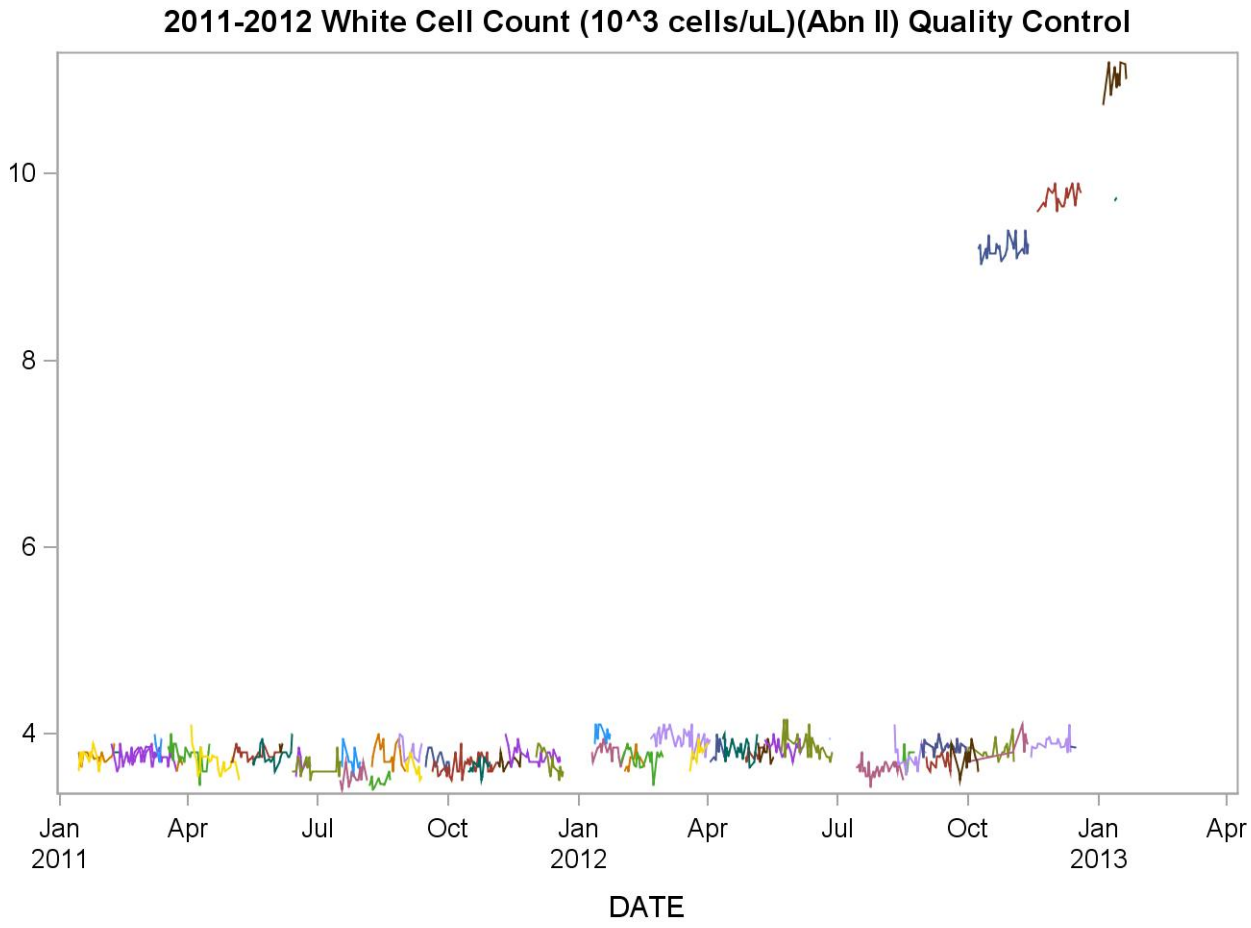
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for White Cell Count (10^3 cells/uL)(Abn II)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
869400_11_LBCWBCII	46	14JAN11	08FEB11	3.7543	0.0836	2.2
869600_11_LBCWBCII	33	14JAN11	30JAN11	3.6939	0.1223	3.3
869900_11_LBCWBCII	49	06FEB11	08MAR11	3.7653	0.1422	3.8
869800_11_LBCWBCII	7	08FEB11	13FEB11	3.7857	0.0690	1.8
860100_11_LBCWBCII	54	17FEB11	24MAR11	3.7519	0.1023	2.7
860400_11_LBCWBCII	7	08MAR11	13MAR11	3.8714	0.2360	6.1
860700_11_LBCWBCII	50	18MAR11	16APR11	3.7820	0.1508	4.0
860600_11_LBCWBCII	11	24MAR11	28MAR11	3.7000	0.1265	3.4
860900_11_LBCWBCII	60	03APR11	07MAY11	3.6917	0.1453	3.9
861300_11_LBCWBCII	45	01MAY11	04JUN11	3.7756	0.0933	2.5
861400_11_LBCWBCII	42	16MAY11	13JUN11	3.7714	0.1235	3.3
861700_11_LBCWBCII	5	04JUN11	06JUN11	3.8600	0.0894	2.3
862100_11_LBCWBCII	32	13JUN11	18JUL11	3.6500	0.1270	3.5
861900_11_LBCWBCII	18	16JUN11	26JUN11	3.6889	0.1410	3.8
862800_11_LBCWBCII	25	17JUL11	05AUG11	3.5280	0.1021	2.9
862700_11_LBCWBCII	21	18JUL11	31JUL11	3.7143	0.1797	4.8
863200_11_LBCWBCII	28	06AUG11	21AUG11	3.4786	0.1197	3.4
863100_11_LBCWBCII	39	08AUG11	01SEP11	3.7846	0.1755	4.6
863400_11_LBCWBCII	24	27AUG11	12SEP11	3.8292	0.1301	3.4
863500_11_LBCWBCII	19	01SEP11	12SEP11	3.6368	0.1640	4.5
863800_11_LBCWBCII	25	15SEP11	02OCT11	3.7320	0.1030	2.8
863900_11_LBCWBCII	74	20SEP11	04NOV11	3.6608	0.1291	3.5
864300_11_LBCWBCII	23	15OCT11	30OCT11	3.6478	0.1082	3.0
864400_11_LBCWBCII	27	05NOV11	21NOV11	3.6926	0.0829	2.2
864800_11_LBCWBCII	49	10NOV11	19DEC11	3.7837	0.1231	3.3
865000_11_LBCWBCII	36	02DEC11	21DEC11	3.6750	0.1680	4.6
865800_12_LBCWBCII	33	10JAN12	02FEB12	3.8182	0.1185	3.1
865500_12_LBCWBCII	20	12JAN12	23JAN12	4.0050	0.1356	3.4
866100_12_LBCWBCII	57	30JAN12	29FEB12	3.7421	0.1546	4.1
865900_12_LBCWBCII	23	02FEB12	16FEB12	3.7000	0.0905	2.4
866500_12_LBCWBCII	92	20FEB12	02APR12	3.9457	0.1500	3.8
866900_12_LBCWBCII	15	19MAR12	01APR12	3.8200	0.1082	2.8
867000_12_LBCWBCII	19	02APR12	13APR12	3.7895	0.1696	4.5
867300_12_LBCWBCII	43	11APR12	05MAY12	3.8163	0.1362	3.6
867100_12_LBCWBCII	26	27APR12	11MAY12	3.7769	0.1306	3.5
867500_12_LBCWBCII	20	05MAY12	17MAY12	3.7950	0.1317	3.5
867800_12_LBCWBCII	37	11MAY12	06JUN12	3.8730	0.0902	2.3
868100_12_LBCWBCII	73	22MAY12	27JUN12	3.8630	0.1577	4.1
868300_12_LBCWBCII	4	25JUN12	26JUN12	3.9500	0.0577	1.5
869000_12_LBCWBCII	84	14JUL12	16AUG12	3.6214	0.1109	3.1
869500_12_LBCWBCII	39	10AUG12	01SEP12	3.7282	0.1468	3.9
869400_12_LBCWBCII	12	16AUG12	24AUG12	3.7250	0.1603	4.3
860400_12_LBCWBCII	60	29AUG12	12NOV12	3.8717	0.1027	2.7
869600_12_LBCWBCII	49	29AUG12	30SEP12	3.8592	0.0977	2.5
869700_12_LBCWBCII	31	01SEP12	19SEP12	3.7161	0.1098	3.0
869800_12_LBCWBCII	27	18SEP12	08OCT12	3.7037	0.1506	4.1
860200_12_LBCWBCII	45	30SEP12	02NOV12	3.8222	0.1241	3.2
1.4293E8_12_LBCWBCII	64	08OCT12	12NOV12	9.2016	0.1608	1.7
860800_12_LBCWBCII	53	14NOV12	12DEC12	3.8849	0.0886	2.3
1.4296E8_12_LBCWBCII	45	18NOV12	19DEC12	9.7511	0.1272	1.3
861000_12_LBCWBCII	7	12DEC12	16DEC12	3.8571	0.1272	3.3
1.4297E8_13_LBCWBCII	32	04JAN13	20JAN13	11.0438	0.1900	1.7
1.4296E8_13_LBCWBCII	9	12JAN13	13JAN13	9.7333	0.1414	1.5


2011-2012 White Cell Count (10^3 cells/uL)(Abn ll) Quality Control
10
8
6
4
Jan
2011
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Jul
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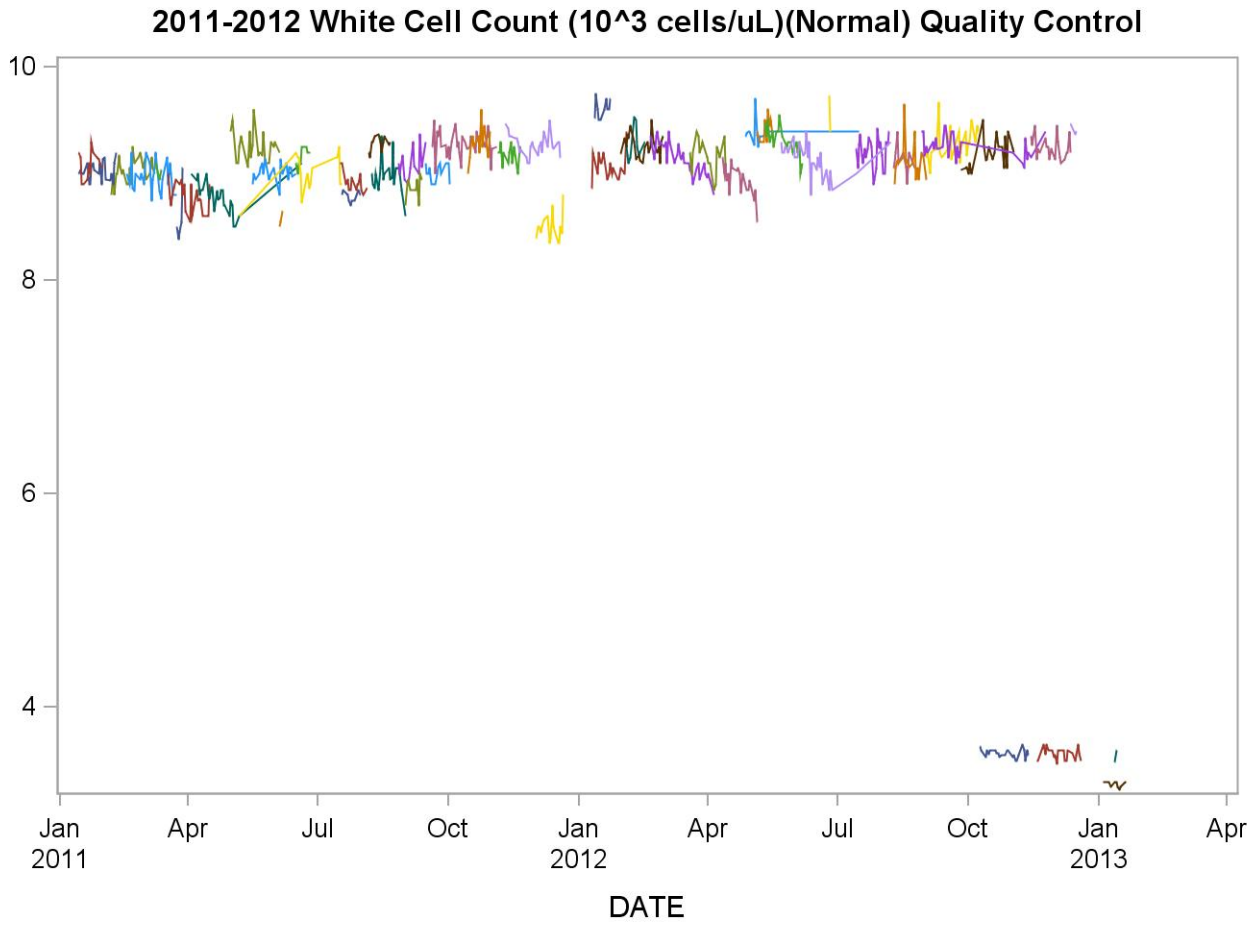
Jan
2012
Apr
Jul
Oct
Jan
2013
Apr
DATE

Summary Statistics for White Cell Count (10^3 cells/uL)(Normal)

Lot	N	Start Date	End Date	Mean	Standard Deviation	Coefficient of Variation
889700_11_LBCWBCN	50	14JAN11	09FEB11	9.0140	0.1429	1.6
889900_11_LBCWBCN	26	14JAN11	30JAN11	9.1038	0.1183	1.3
880200_11_LBCWBCN	59	06FEB11	08MAR11	9.0339	0.1409	1.6
880500_11_LBCWBCN	51	17FEB11	24MAR11	8.9588	0.1687	1.9
880700_11_LBCWBCN	9	08MAR11	13MAR11	9.0444	0.1130	1.2
881100_11_LBCWBCN	47	18MAR11	16APR11	8.7915	0.1932	2.2
881000_11_LBCWBCN	19	24MAR11	28MAR11	8.5158	0.2566	3.0
881300_11_LBCWBCN	63	03APR11	20JUN11	8.7921	0.1825	2.1
881700_11_LBCWBCN	48	01MAY11	04JUN11	9.2229	0.1627	1.8
882600_11_LBCWBCN	36	07MAY11	18JUL11	9.0083	0.1857	2.1
881800_11_LBCWBCN	44	16MAY11	16JUN11	9.0182	0.1386	1.5
882100_11_LBCWBCN	5	04JUN11	06JUN11	8.5800	0.1304	1.5
882200_11_LBCWBCN	19	16JUN11	26JUN11	9.1526	0.1867	2.0
883300_11_LBCWBCN	27	17JUL11	05AUG11	8.9148	0.1292	1.4
883200_11_LBCWBCN	19	18JUL11	31JUL11	8.7789	0.1357	1.5
884000_11_LBCWBCN	27	06AUG11	21AUG11	9.2815	0.1178	1.3
883700_11_LBCWBCN	40	08AUG11	01SEP11	8.9925	0.2117	2.4
884100_11_LBCWBCN	30	27AUG11	15SEP11	9.1033	0.1771	1.9
884300_11_LBCWBCN	18	01SEP11	12SEP11	8.8778	0.1353	1.5
884600_11_LBCWBCN	25	15SEP11	02OCT11	9.0240	0.1165	1.3
884700_11_LBCWBCN	79	20SEP11	04NOV11	9.2696	0.1697	1.8
885100_11_LBCWBCN	24	15OCT11	30OCT11	9.2792	0.1668	1.8
885200_11_LBCWBCN	25	05NOV11	21NOV11	9.1840	0.1491	1.6
885600_11_LBCWBCN	68	10NOV11	19DEC11	9.2779	0.1434	1.5
885900_11_LBCWBCN	39	02DEC11	21DEC11	8.4846	0.1694	2.0
886600_12_LBCWBCN	36	10JAN12	03FEB12	9.0556	0.1827	2.0
886300_12_LBCWBCN	22	12JAN12	23JAN12	9.6000	0.1512	1.6
886900_12_LBCWBCN	60	30JAN12	29FEB12	9.2467	0.1732	1.9
886700_12_LBCWBCN	22	03FEB12	16FEB12	9.2545	0.2017	2.2
887400_12_LBCWBCN	94	20FEB12	05APR12	9.1383	0.1924	2.1
887800_12_LBCWBCN	34	19MAR12	13APR12	9.1471	0.1779	1.9
888200_12_LBCWBCN	47	11APR12	05MAY12	8.9340	0.1970	2.2
888100_12_LBCWBCN	30	27APR12	16JUL12	9.3700	0.1860	2.0
888500_12_LBCWBCN	18	05MAY12	17MAY12	9.3944	0.1474	1.6
888700_12_LBCWBCN	39	11MAY12	06JUN12	9.3308	0.1779	1.9
889000_12_LBCWBCN	79	22MAY12	07AUG12	9.1025	0.2032	2.2
889500_12_LBCWBCN	5	25JUN12	26JUN12	9.6000	0.1871	1.9
880100_12_LBCWBCN	76	14JUL12	06AUG12	9.2171	0.2187	2.4
880500_12_LBCWBCN	20	09AUG12	24AUG12	9.1200	0.1795	2.0
880600_12_LBCWBCN	44	10AUG12	01SEP12	9.1295	0.2041	2.2
880700_12_LBCWBCN	50	29AUG12	26SEP12	9.2680	0.1571	1.7
881500_12_LBCWBCN	66	29AUG12	24NOV12	9.2500	0.1610	1.7
880900_12_LBCWBCN	60	01SEP12	08OCT12	9.2900	0.2072	2.2
881300_12_LBCWBCN	58	26SEP12	02NOV12	9.1845	0.2042	2.2
1.2293E8_12_LBCWBCN	62	09OCT12	12NOV12	3.5677	0.0621	1.7
882000_12_LBCWBCN	48	14NOV12	12DEC12	9.2458	0.1584	1.7
1.2296E8_12_LBCWBCN	51	18NOV12	19DEC12	3.5627	0.0799	2.2
882200_12_LBCWBCN	8	12DEC12	16DEC12	9.4125	0.1553	1.6
1.2297E8_13_LBCWBCN	32	04JAN13	20JAN13	3.2750	0.0568	1.7
1.2296E8_13_LBCWBCN	11	12JAN13	13JAN13	3.5182	0.0874	2.5


2011-2012 White Cell Count (10^3 cells/uL)(Normal) Quality Control
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Apr
DATE

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