

Reticulated Platelets et al. - New Parameters on ADVIA 2120i

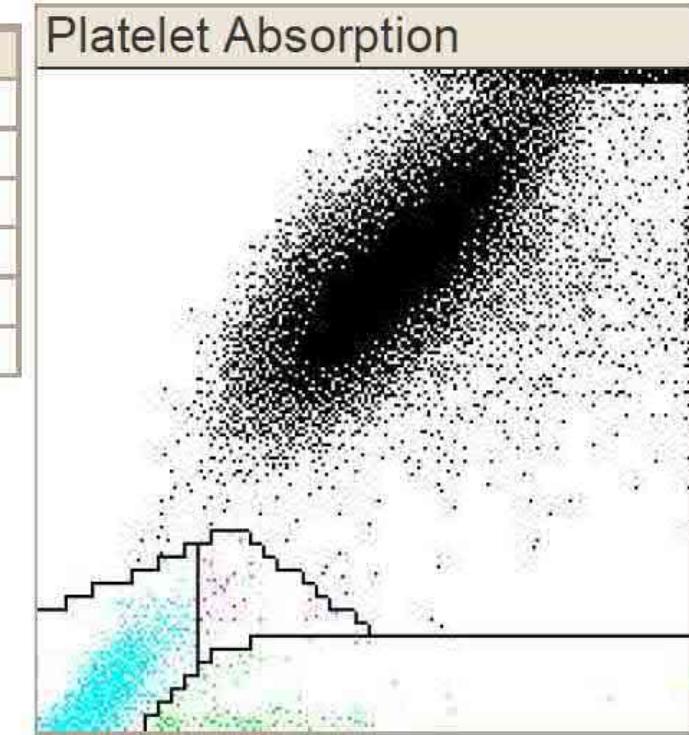
Gottfried Prechtel

new: Platelet Absorption scatter RtcPlts parameters

Reticulated Platelets

- are done in retics channel
- using the same staining reagent
- without any impact on throughput
- are done just by additional software feature
- Same hardware, same reagents, same speed, ...
- Additional information without any costs
- Parameter to check bone marrow in terms of platelet production

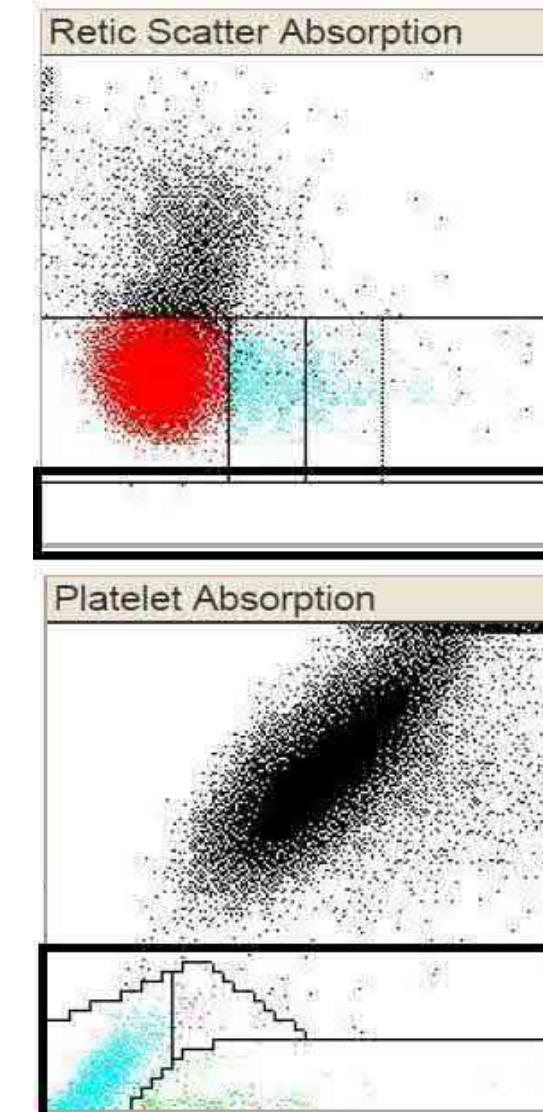
RtcPlts	%RtcPlts	2.61	
RtcPlts Count	29		
RtcPlts Threshold	12		
RtcPlt VI	33.6		
RtcPlt CI	16.6		
NACU Count	90		



new: Platelet Absorption scatter RtcPlts parameters

Reticulated Platelets

- are done making visible what's inside the empty box in Retic Scatter Absorption
- are done by using signals (events) which were not used till now
- are done by processing these signals using several algorithms



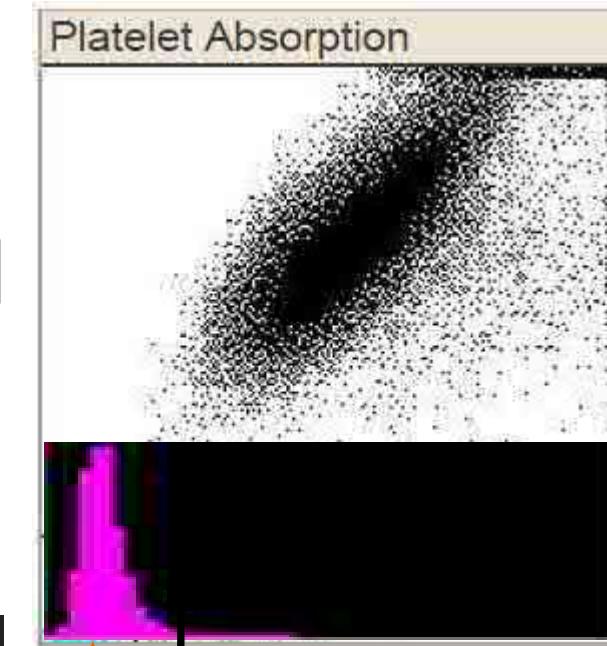
Algorithm for calculation of absorption threshold between mature and reticulated platelets

Reticulated Platelets algorithm

- uses a moving threshold between mature and reticulated platelets
- uses a histogram of stained platelets
- detects the peak of histogram of stained platelets
- adds 8 channels to histogram peak channel and takes this channel as threshold between mature and reticulated platelets

RtcPlts	%RtcPlts	2.61
	RtcPlts Count	29
	RtcPlts Threshold	13
	RtcPlt VI	33.6
	RtcPlt CI	16.6
	NACU Count	90

$$5+8=13$$

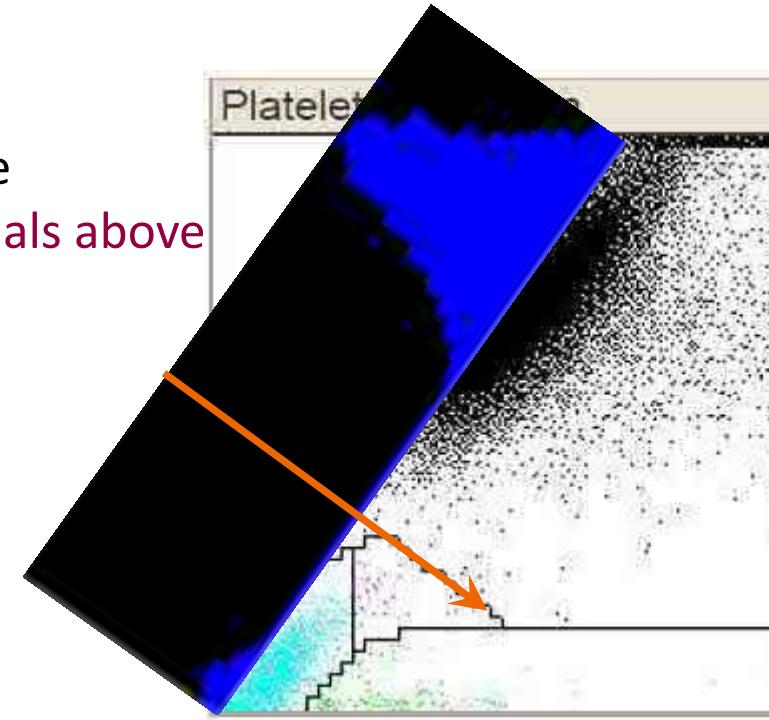
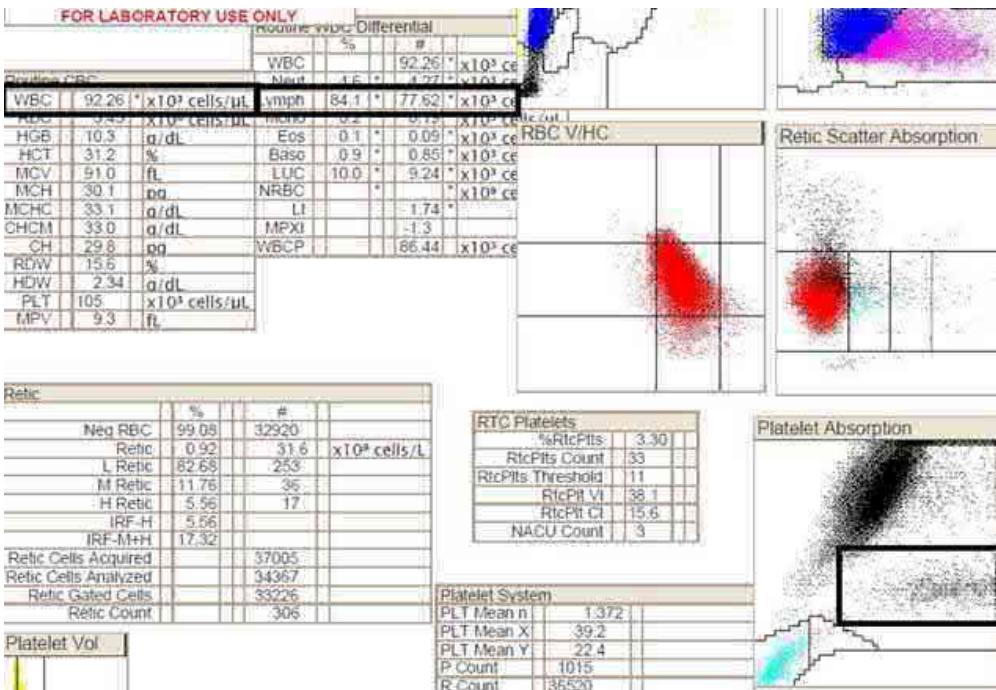


histogram peak
+ 8 channels =
threshold for
reticulated platelets

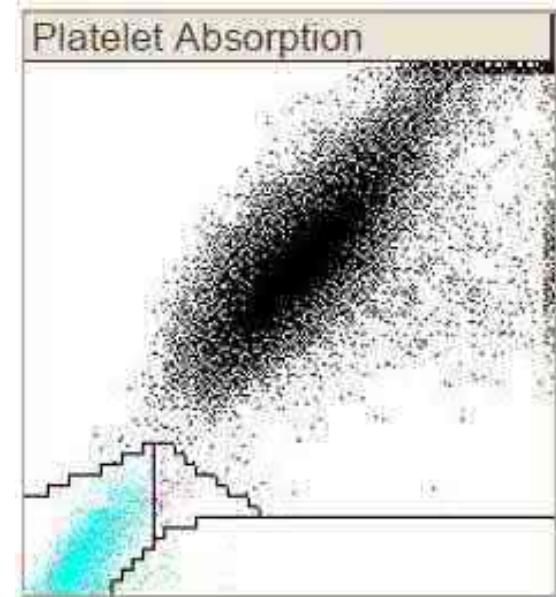
Algorithm for calculation of refractive index threshold between reticulated platelets and other signals (above)

Reticulated Platelets algorithm

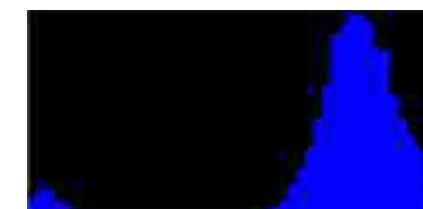
- uses a refractive index histogram to calculate the threshold between reticulated platelets and **signals above** and avoids possible interference coming from **hypochromic erythrocytes, lymphocytes, NRBCs**



lymphocytes



hypochromic erythrocytes

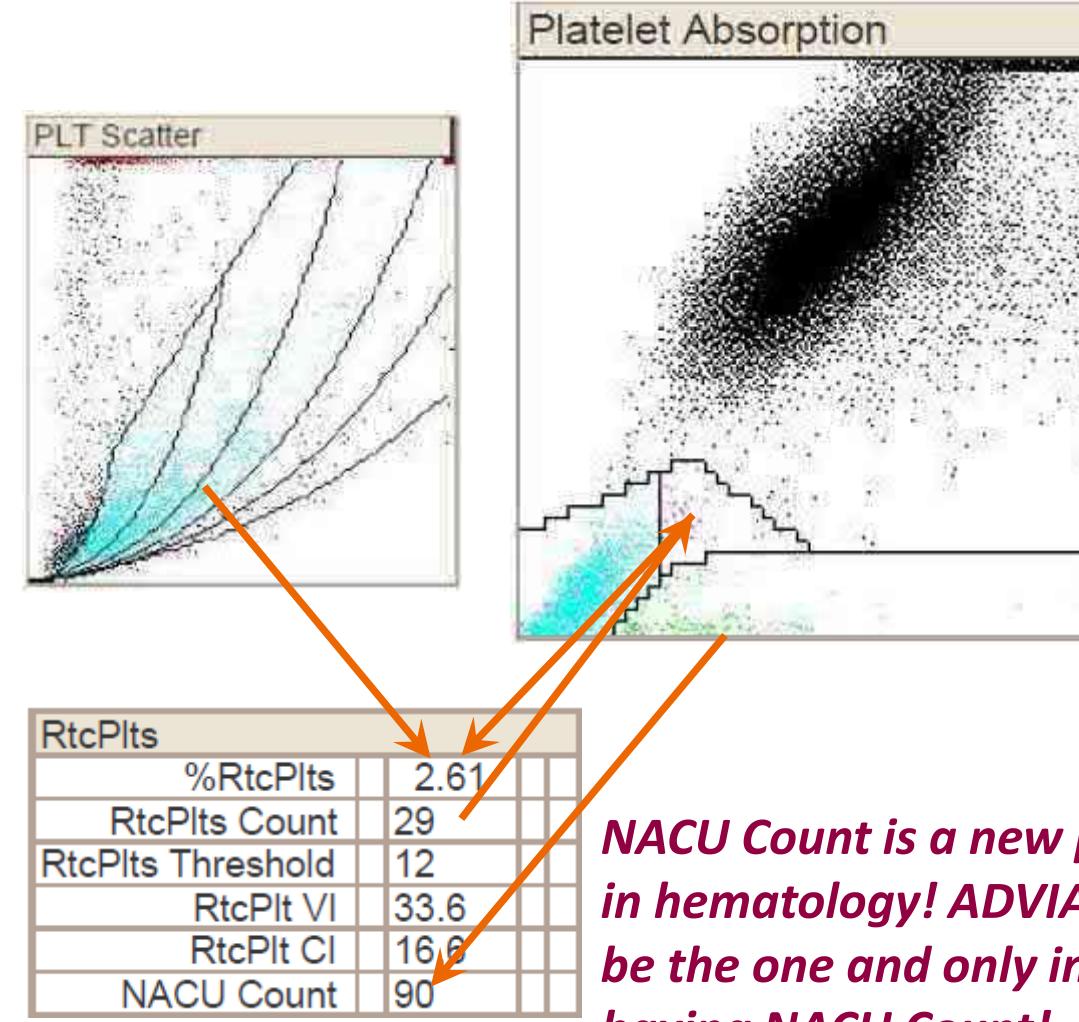


Morphology Flags	
MICRO	+
HYPO	+++

RtcPlts parameters

Reticulated Platelets

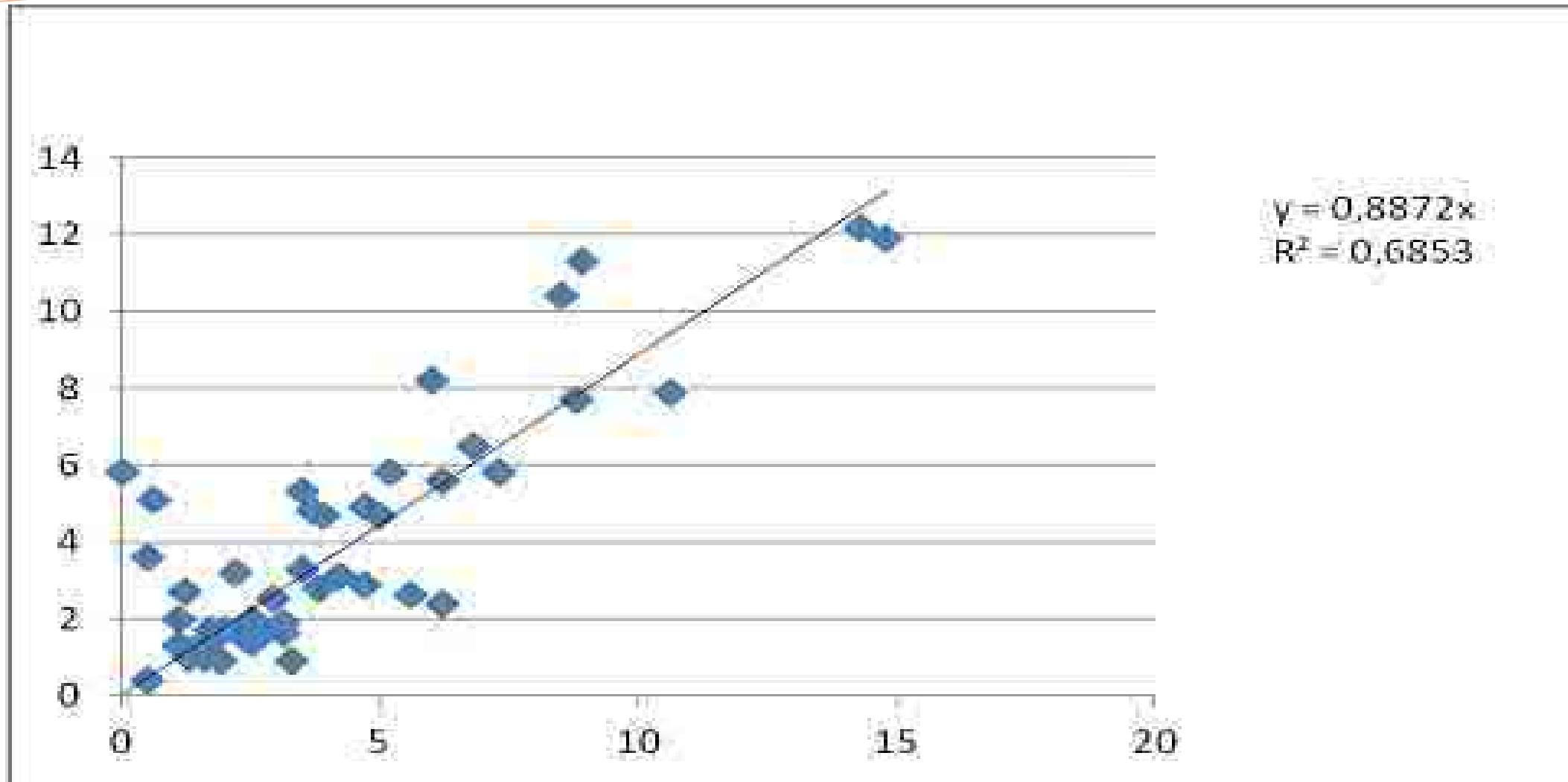
- %RtcPlts are calculated using the reticulated platelets count coming from Platelet Absorption scatter and platelets coming from PLT Scatter
- RtcPlt VI and RtcPlt CI are calculated using the algorithm of MIE map
- NACU Count represents all particles below the reticulated platelets (significant absorption and very low refractive index): bacteria, fungus cells, malaria parasites, NETs, RNA coming from lysed RBCs (retics), DNA strands coming from destroyed WBCs, etc. – NACU stands for nucleic acid containing unit as these signals are cells or just released nucleic acids strands



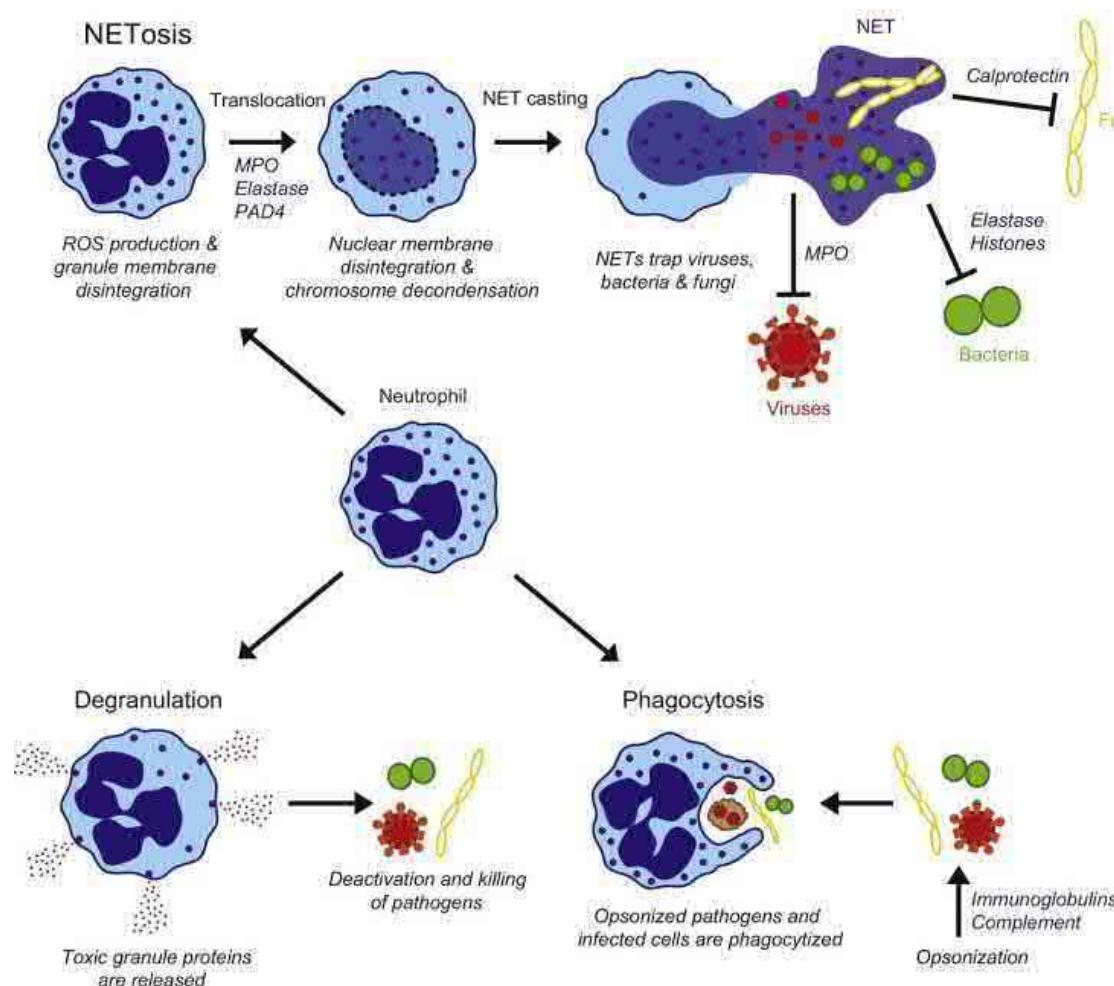
NACU Count is a new parameter in hematology! ADVIA 2120i will be the one and only instrument having NACU Count!

Ret. Platelets / ADVIA 2120i (x axis) versus XN (y axis)

SIEMENS
Healthineers



Neutrophil Extracellular Traps



Paediatric Respiratory Reviews

Volume 21, January 2017, Pages 54-61

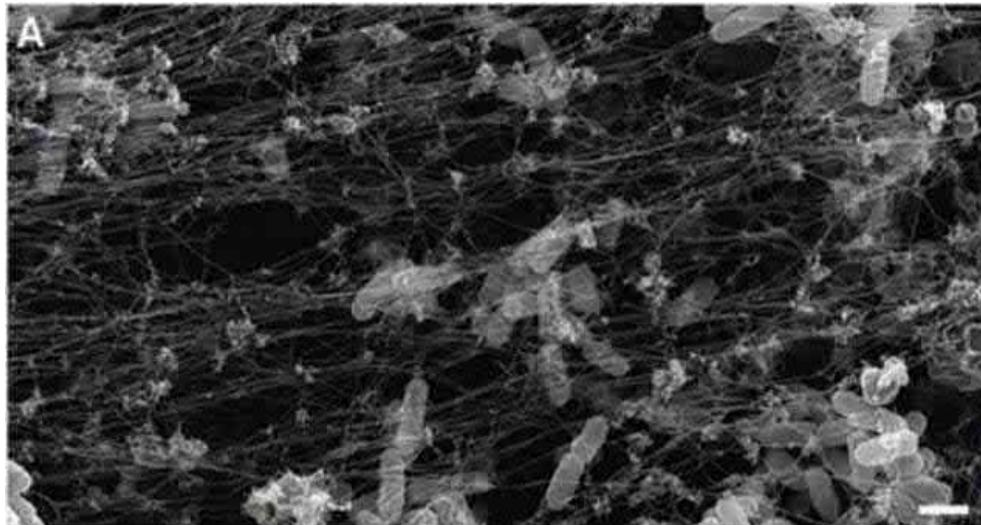


Today's Science - Tomorrow's Medicine

Neutrophil Extracellular Traps in Respiratory Disease: guided anti-microbial traps or toxic webs?

B. Cortjens, J.B.M. van Woensel, R.A. Bem

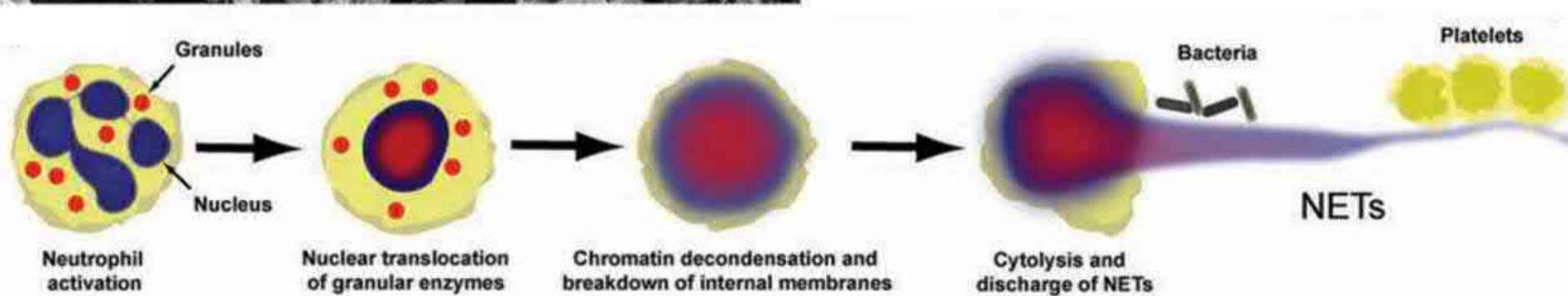
Neutrophil Extracellular Traps

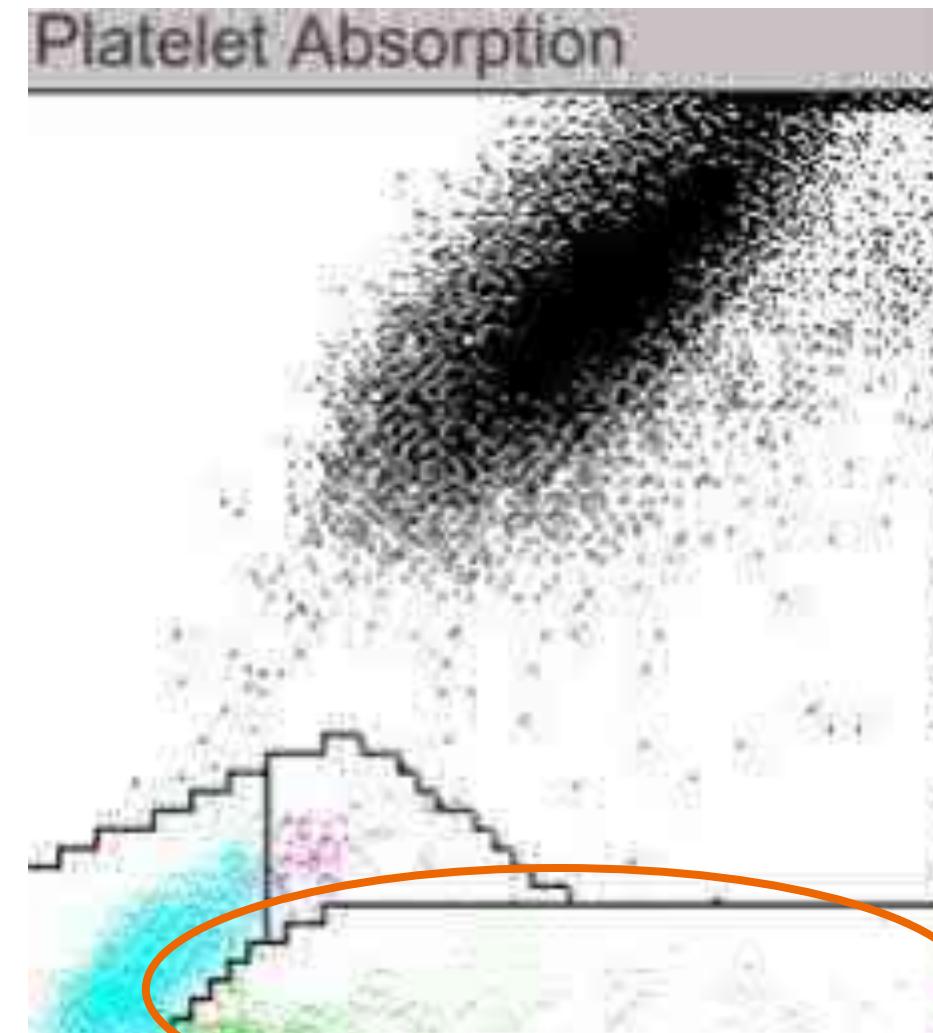


DVT: VENOUS THROMBOEMBOLISM 2012

Neutrophil Extracellular Trap (NET) Impact on Deep Vein Thrombosis

Tobias A. Fuchs, Alexander Brill, Denisa D. Wagner





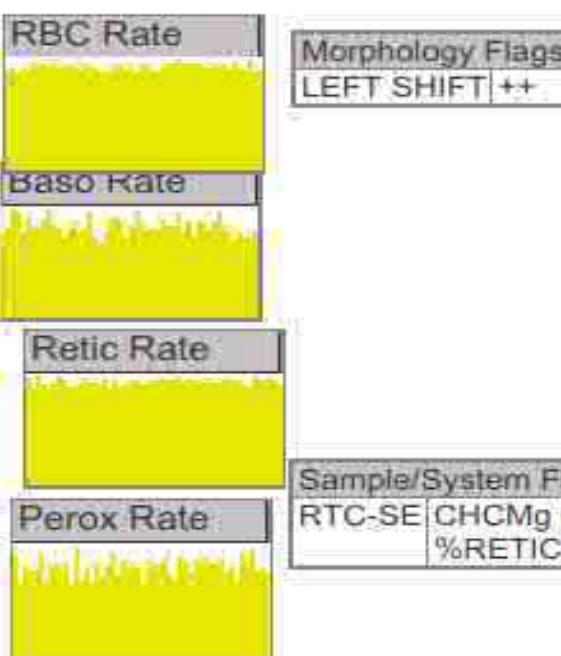
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Cal Factors	Stored
FOR LABORATORY USE ONLY	

Routine CBC	
WBC	6.23 $\times 10^3$ cells/ μ L
RBC	5.44 $\times 10^6$ cells/ μ L
HGB	16.0 g/dL
HCT	47.1 %
MCV	86.6 fL
MCH	29.5 pg
MCHC	34.0 g/dL
CHCM	34.3 g/dL
CH	29.6 pg
RDW	13.1 %
HDW	2.87 g/dL
PLT	180 $\times 10^3$ cells/ μ L
MPV	10.4 fL

Routine Retic	
Retic	% 1.25 *
	# 68.0 * $\times 10^9$ cells/L
CHR	H 32.6 * pg
CHM	29.5 pg

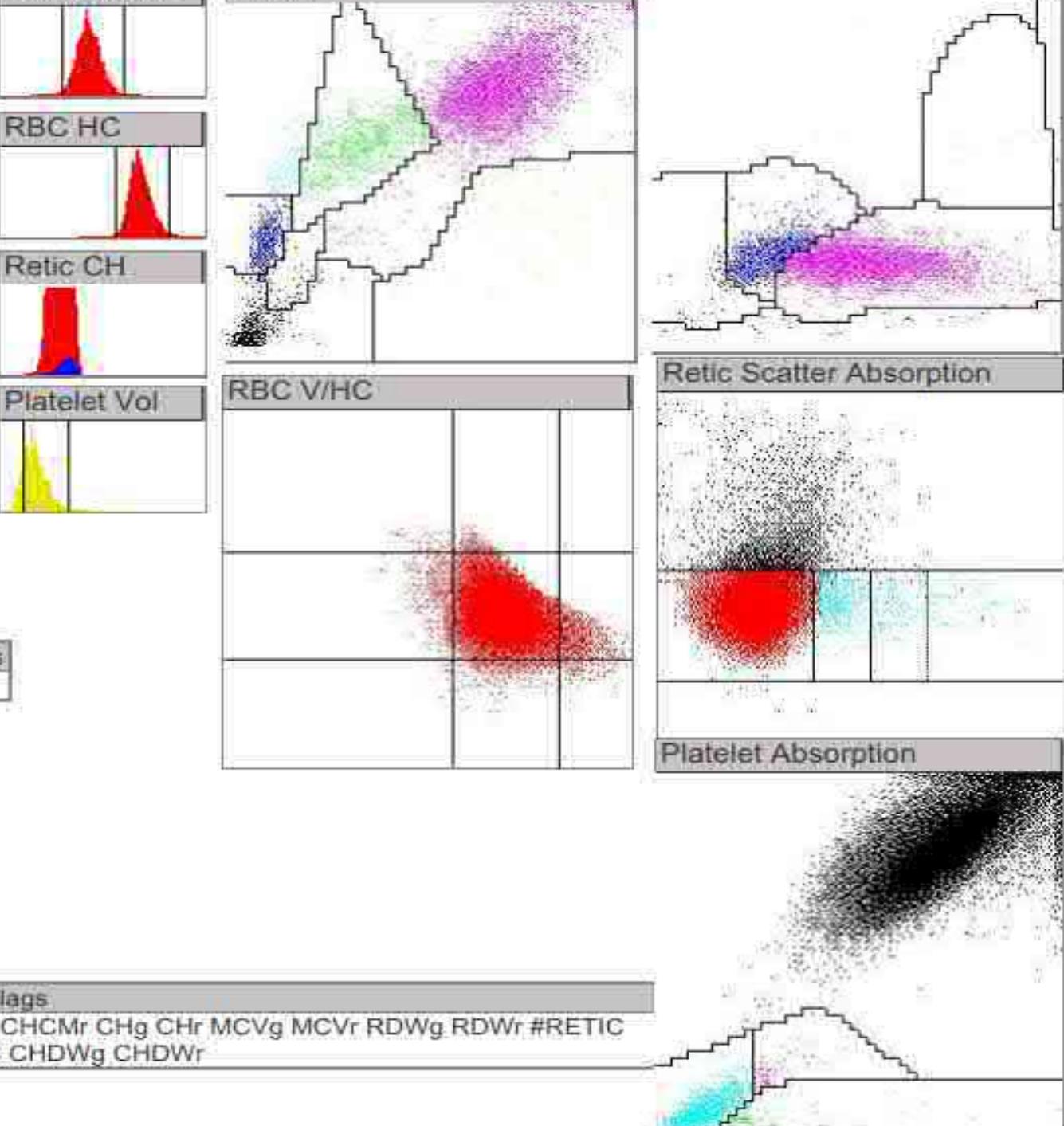
RtcPlts	
%RtcPlts	3.83
RtcPlts Count	50
RtcPlts Threshold	12
RtcPlt VI	28.2
RtcPlt CI	18.6
NACU Count	66

Routine WBC Differential		
	%	#
WBC		6.23 $\times 10^3$ cells/ μ L
Neut	H 76.7	4.78 $\times 10^3$ cells/ μ L
Lymph	L 9.5	L 0.59 $\times 10^3$ cells/ μ L
Mono	H 10.5	0.66 $\times 10^3$ cells/ μ L
Eos	1.8	0.11 $\times 10^3$ cells/ μ L
Baso	0.2	0.01 $\times 10^3$ cells/ μ L
LUC	1.2	0.07 $\times 10^3$ cells/ μ L
NRBC	0.0	0.00 $\times 10^9$ cells/L
LI		L 1.74
MPXI		1.8
WBCP		5.86 $\times 10^3$ cells/ μ L



Sample/System Flags

RTC-SE CHCMg CHCMr CHg Chr MCVg MCVr RDWg RDWr #RETIC %RETIC CHDWg CHDWr

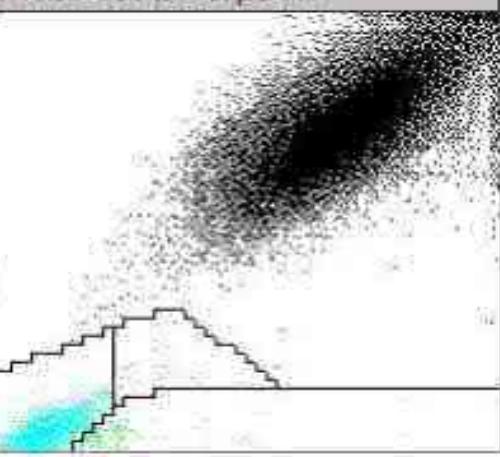
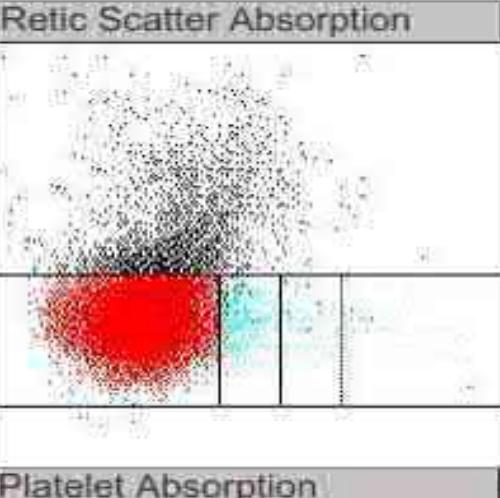
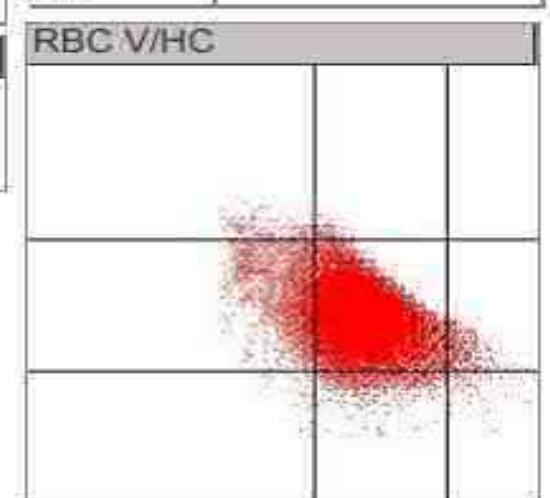
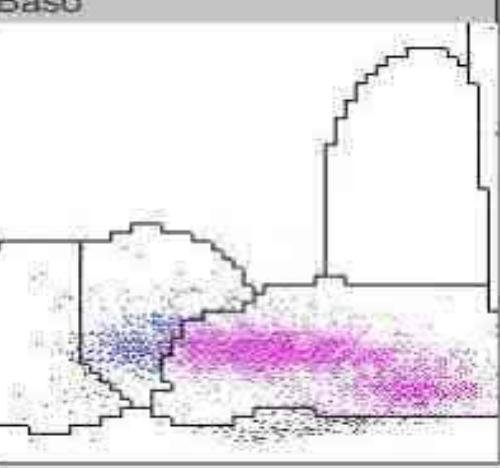
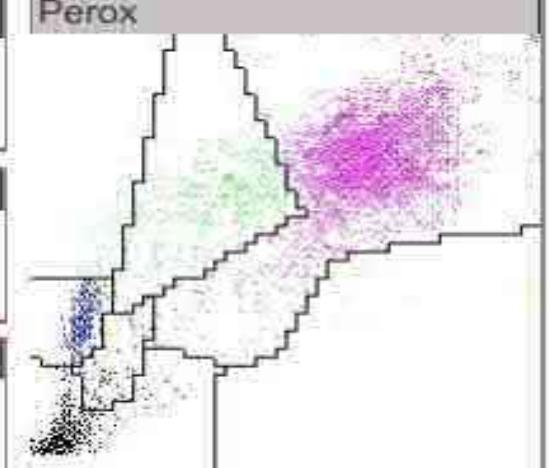
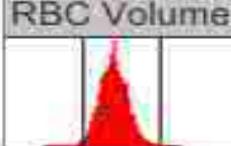
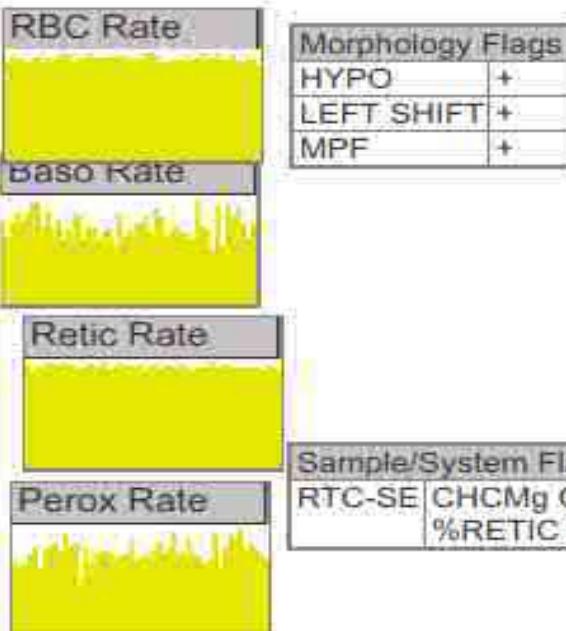


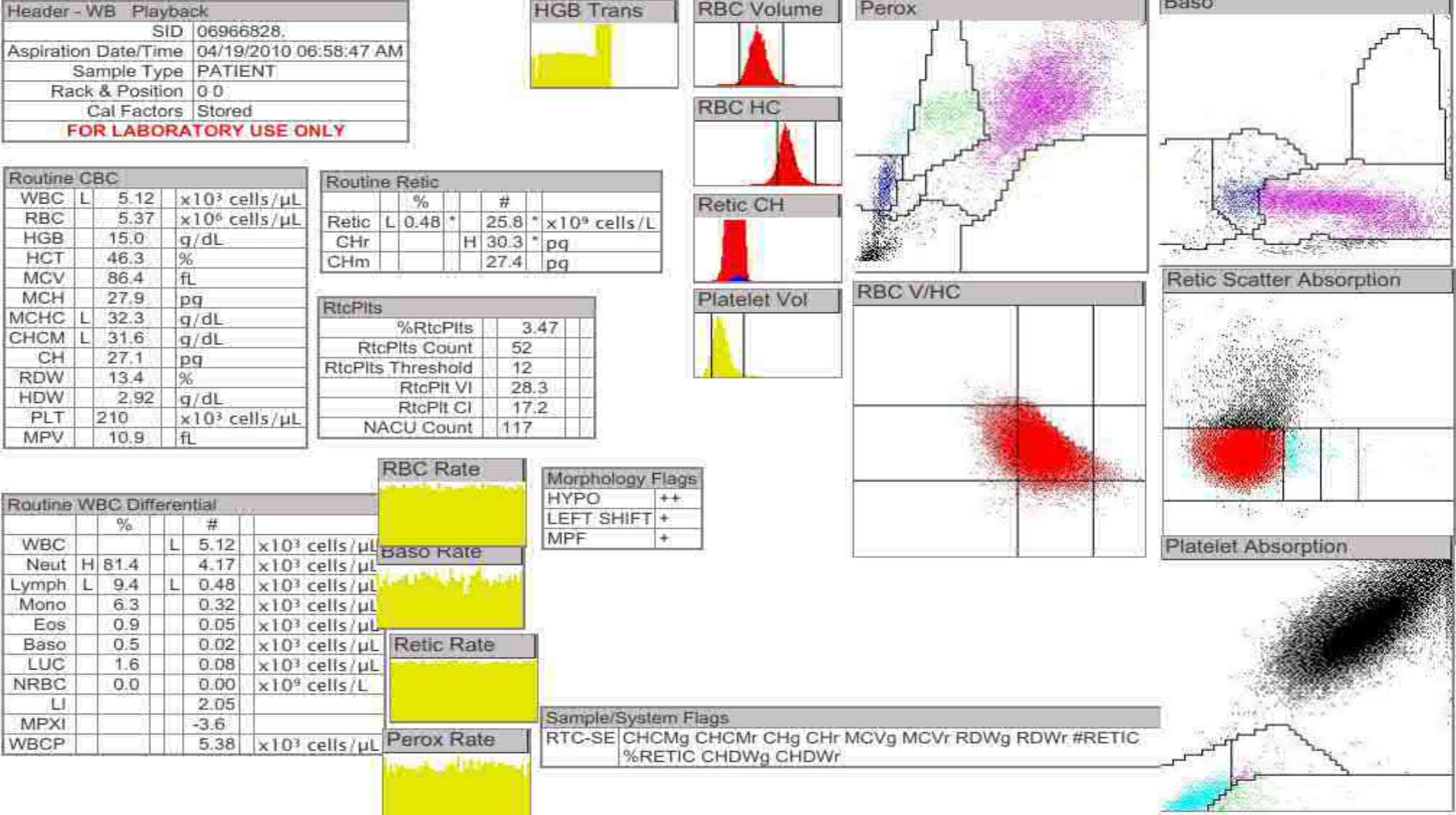
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Cal Factors	Stored
FOR LABORATORY USE ONLY	

Routine CBC			
WBC	L	3.48	$\times 10^3$ cells/ μ L
RBC		5.61	$\times 10^6$ cells/ μ L
HGB		15.7	g/dL
HCT		47.5	%
MCV		84.7	fL
MCH		28.0	pg
MCHC		33.1	g/dL
CHCM	L	32.5	g/dL
CH		27.4	pg
RDW		13.2	%
HDW		2.87	g/dL
PLT		182	$\times 10^3$ cells/ μ L
MPV	H	11.1	fL

Routine Retic			
Retic		%	#
		0.85 *	47.6 * $\times 10^9$ cells/L
CHr		H	30.4 * pg
CHm			27.6 pg

RtcPlts		
	%RtcPlts	1.51
RtcPlts Count		20
RtcPlts Threshold		12
	RtcPlt VI	57.0
	RtcPlt CI	14.8
NACU Count		68





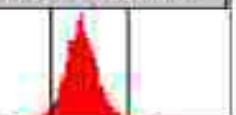
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Cal Factors	Stored
FOR LABORATORY USE ONLY	

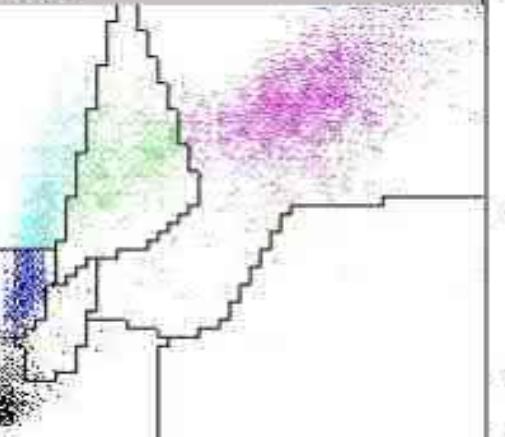
HGB Trans



RBC Volume



Perox



Baso



Routine CBC

WBC	L	3.68	$\times 10^3$ cells/ μ L
RBC		4.91	$\times 10^6$ cells/ μ L
HGB		14.3	g/dL
HCT		41.5	%
MCV		84.5	fL
MCH		29.1	pg
MCHC		34.5	g/dL
CHCM		35.3	g/dL
CH		29.6	pg
RDW		13.5	%
HDW	H	3.24	g/dL
PLT	L	91	$\times 10^3$ cells/ μ L
MPV	H	11.4	fL

Routine Retic

	%	#	
Retic	1.13	55.5	$\times 10^9$ cells/L
Chr		28.0	pg
CHm		29.6	pg

RtcPlts

%RtcPlts	10.71
RtcPlts Count	72
RtcPlts Threshold	12
RtcPlt VI	25.6
RtcPlt CI	17.8
NACU Count	84

RBC Rate



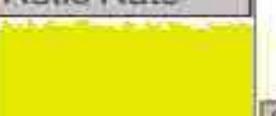
Morphology Flags

HYPER	+
LEFT SHIFT	+++
BLASTS	+
ATYPS	++

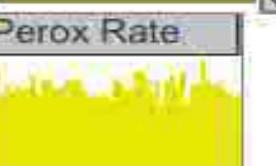
Routine WBC Differential

	%	#	
WBC		L	3.68 $\times 10^3$ cells/ μ L
Neut	56.7		2.08 $\times 10^3$ cells/ μ L
Lymph	22.1	L	0.81 $\times 10^3$ cells/ μ L
Mono	H	9.9	0.37 $\times 10^3$ cells/ μ L
Eos		1.1	0.04 $\times 10^3$ cells/ μ L
Baso		1.1	0.04 $\times 10^3$ cells/ μ L
LUC	H	9.2	0.34 $\times 10^3$ cells/ μ L
NRBC			$\times 10^3$ cells/L
LI		L	1.43
MPXI			-1.9
WBCP			3.41 $\times 10^3$ cells/ μ L

Retic Rate

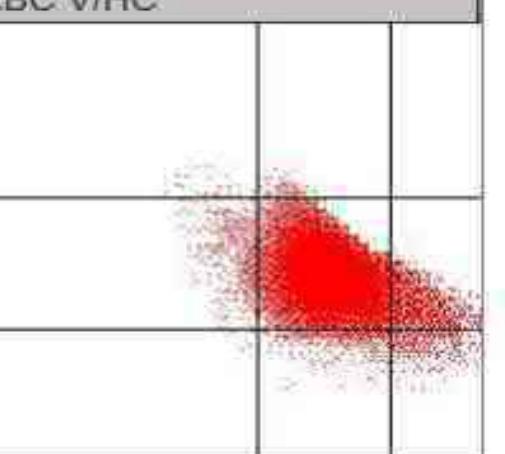


Sample/System Flags

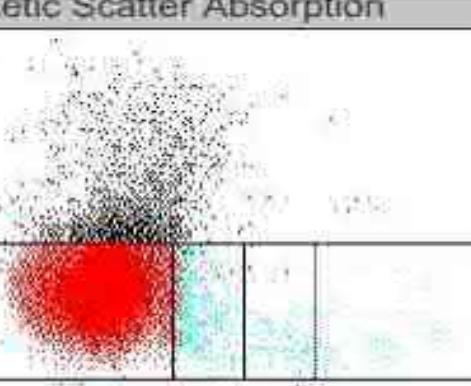


Perox Rate

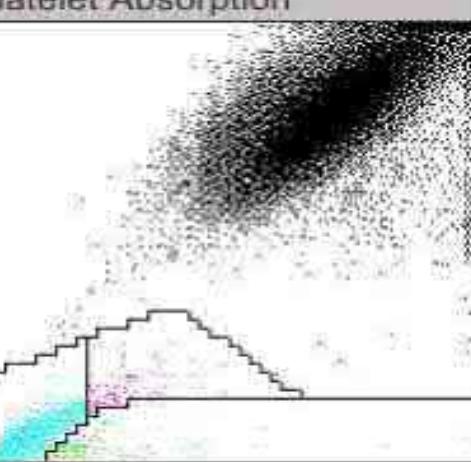
RBC V/HC

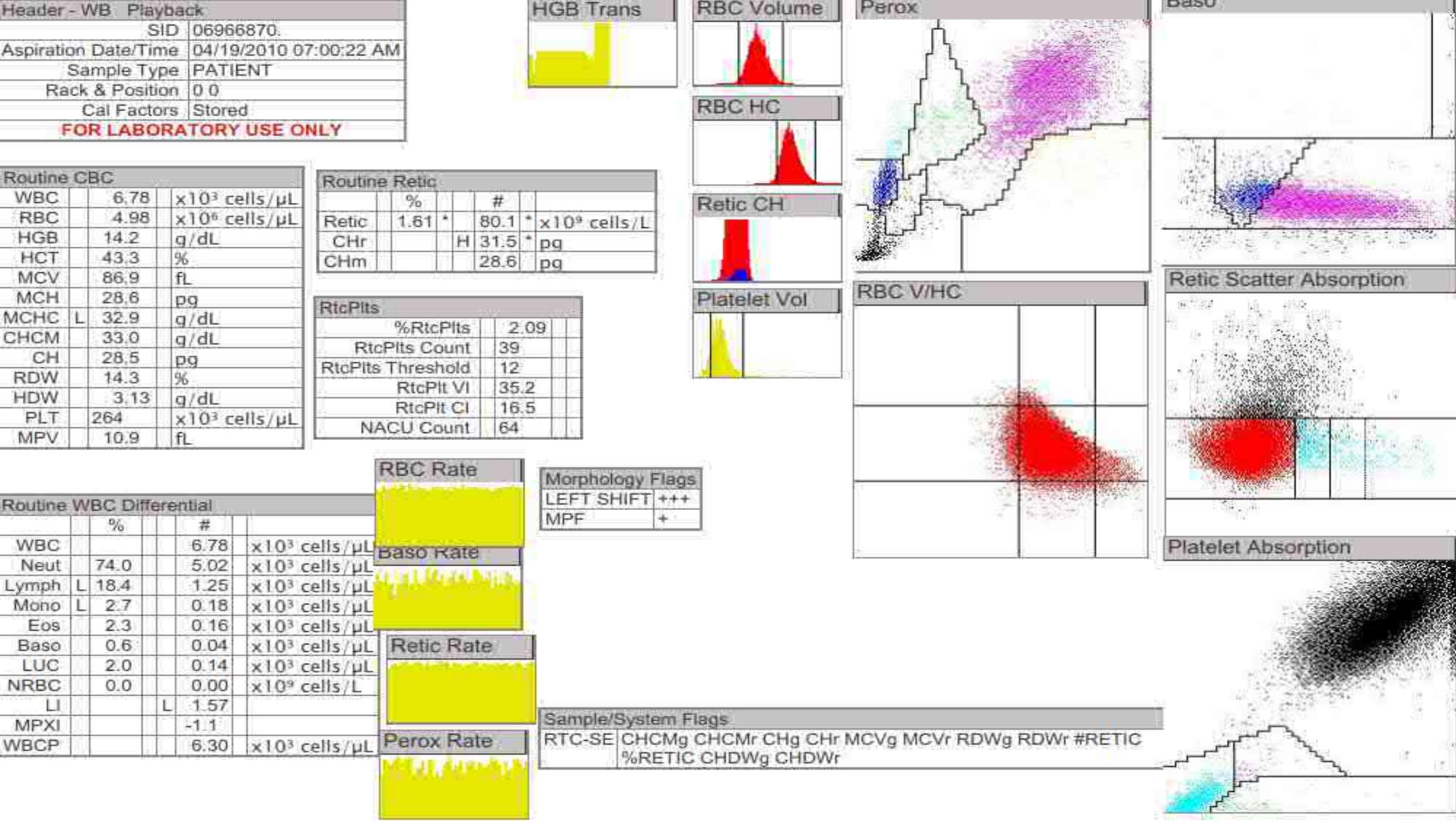


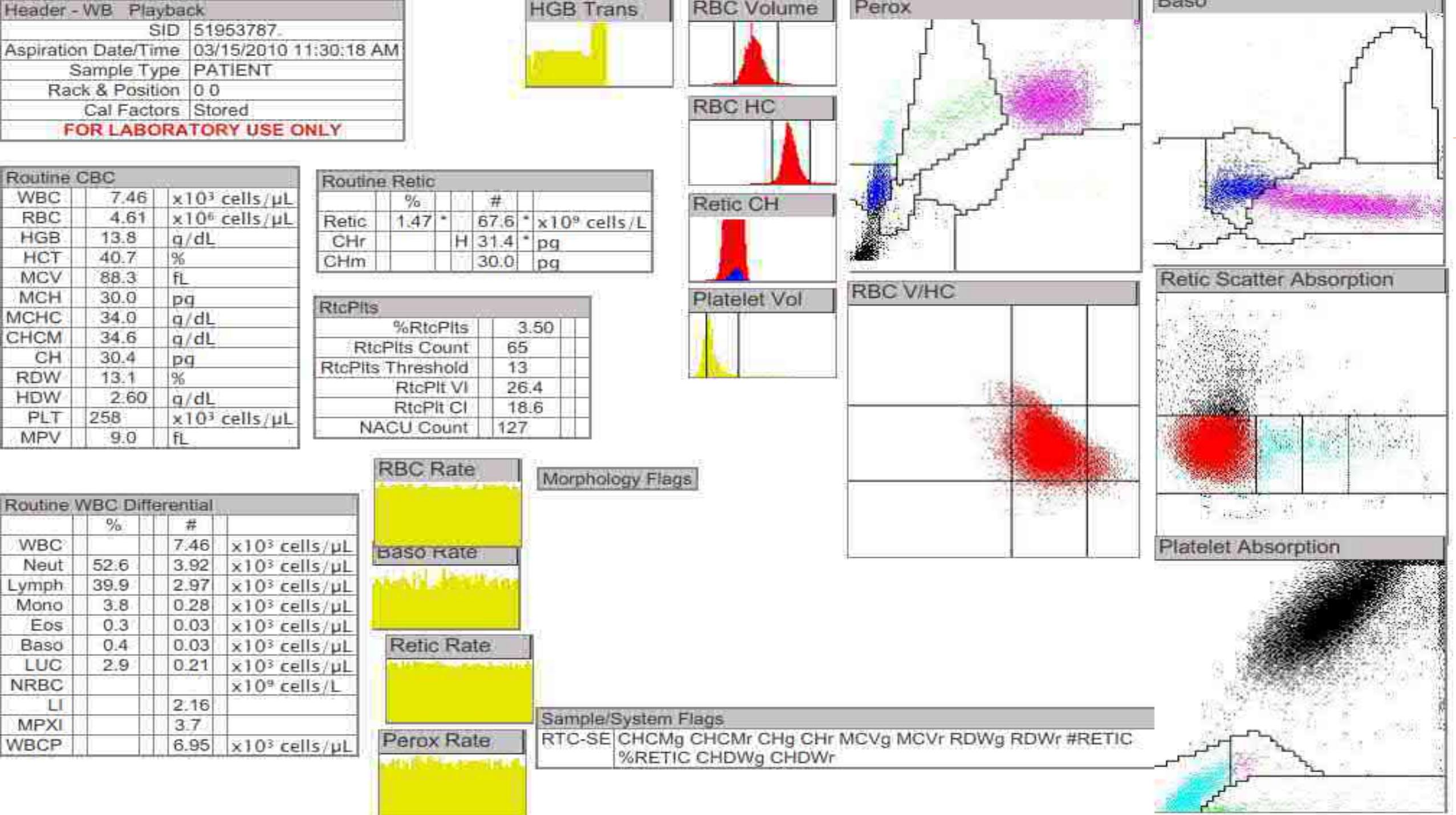
Retic Scatter Absorption

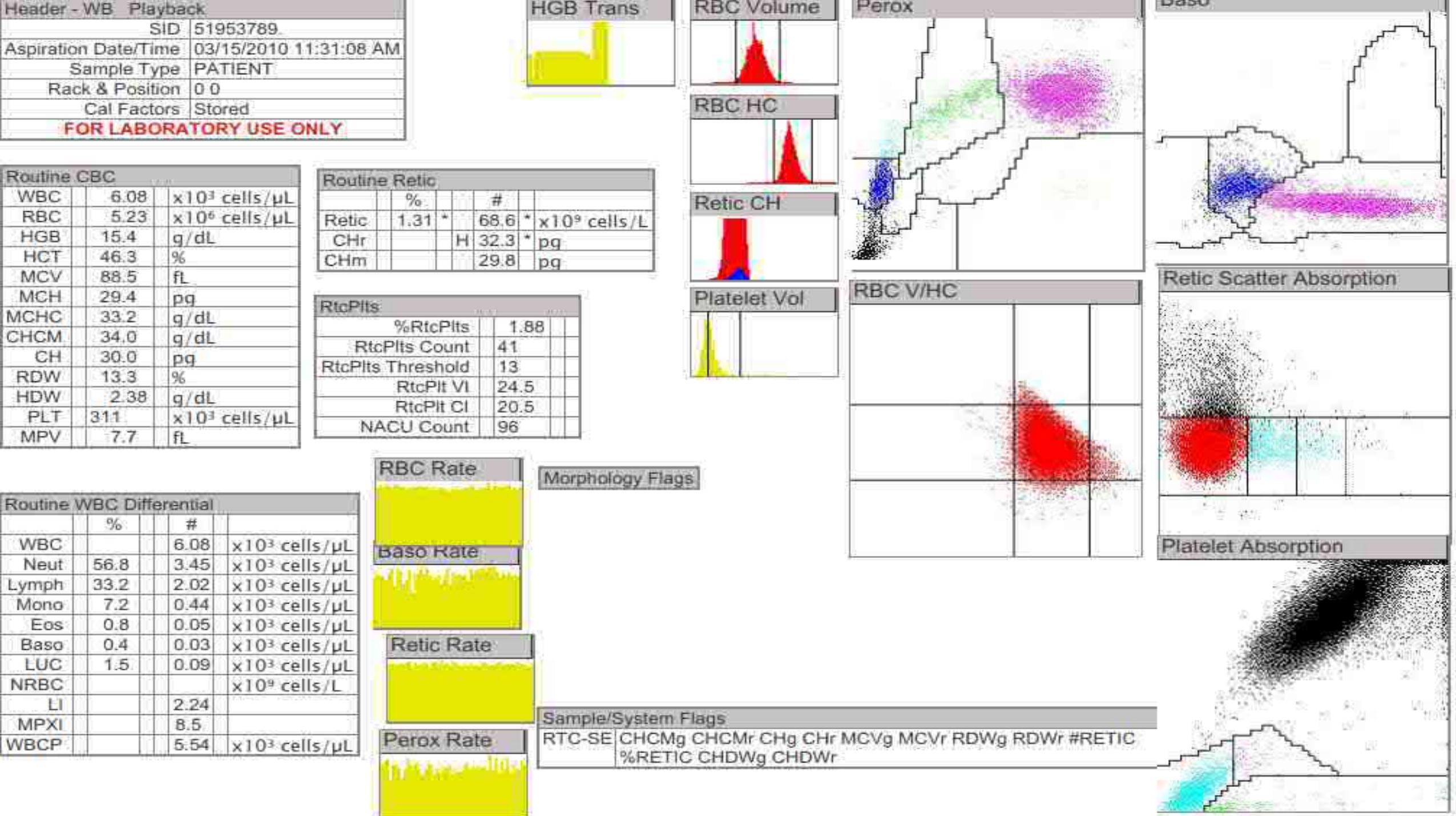


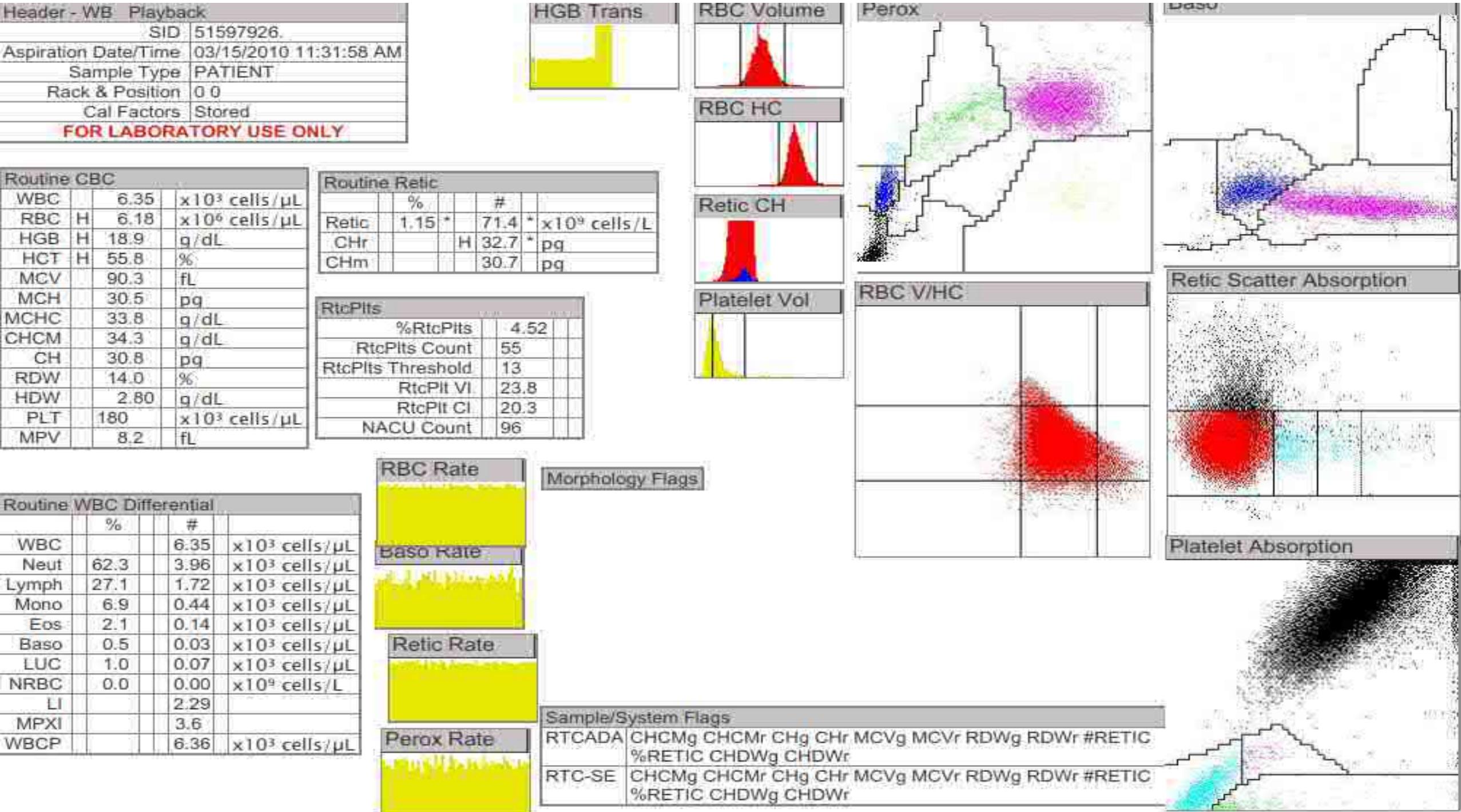
Platelet Absorption





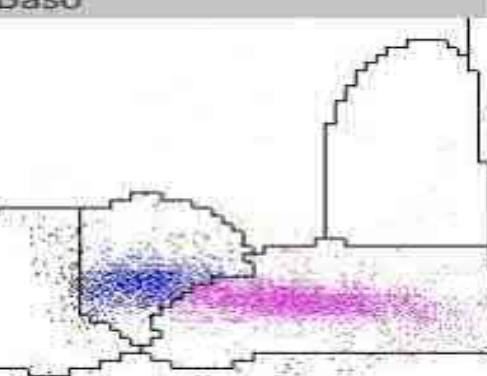
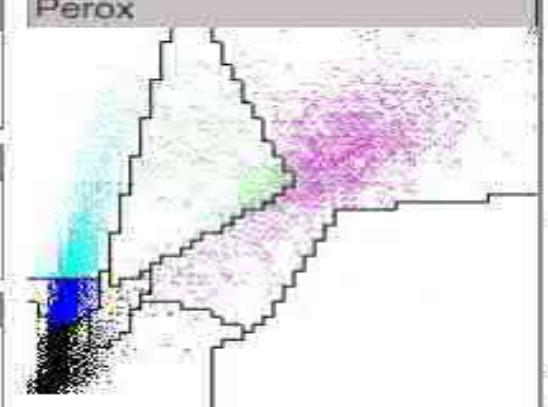
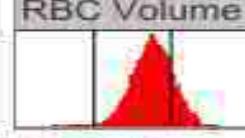
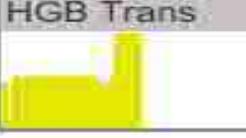






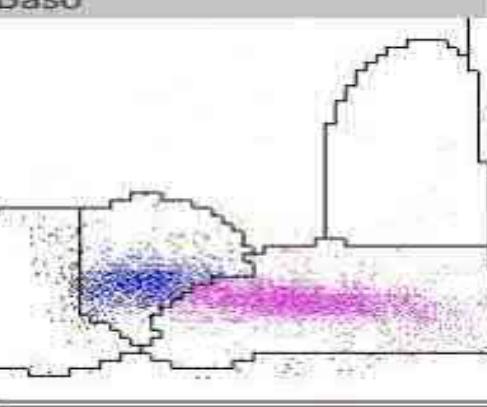
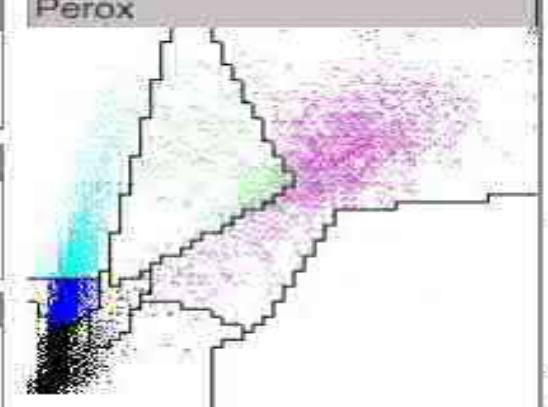
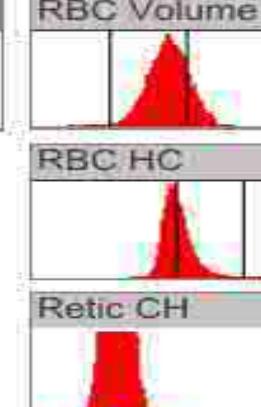
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Cal Factors	Stored
FOR LABORATORY USE ONLY	



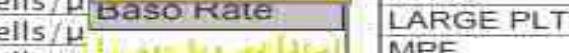
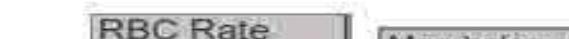
Routine CBC		
WBC	L	3.06 * $\times 10^3$ cells/ μ L
RBC	L	4.24 * $\times 10^6$ cells/ μ L
HGB	L	13.9 * g/dL
HCT		45.2 *
MCV	H	106.5 * fL
MCH	H	32.8 * pg
MCHC	L	30.8 * g/dL
CHCM	L	28.3 * g/dL
CH		29.9 * pg
RDW	H	14.6 * %
HDW		2.85 * g/dL
PLT	L	81 * $\times 10^3$ cells/ μ L
MPV	H	14.6 fL

Routine Retic			
Retic	%	#	$\times 10^9$ cells/L
CHR		H	pg
CHM			pg



Routine WBC Differential		
	%	#
WBC		L 3.06 * $\times 10^3$ cells/ μ L
Neut	53.3 *	L 1.63 * $\times 10^3$ cells/ μ L
Lymph	36.4 *	L 1.11 * $\times 10^3$ cells/ μ L
Mono	8.4 *	L 0.26 * $\times 10^3$ cells/ μ L
Eos	0.6 *	L 0.02 * $\times 10^3$ cells/ μ L
Baso	1.3 *	L 0.04 * $\times 10^3$ cells/ μ L
LUC	0.0 *	L 0.00 * $\times 10^3$ cells/ μ L
NRBC	H 7.2 *	H 0.22 * $\times 10^9$ cells/L
LI		2.14
MPXI		-8.0
WBCP		12.00 * $\times 10^3$ cells/ μ L

RtcPlts		
%RtcPlts		2.29
RtcPlts Count		15
RtcPlts Threshold		11
RtcPlt VI		49.5
RtcPlt CI		15.9
NACU Count		36



Morphology Flags	
MACRO	+++
HYPO	+++
NRBC	+
LARGE PLT	++
MPF	+



Sample/System Flags

CHCMCE CHCM HCT HDW HGB MCH MCHC MCV RBC RDW CH CHD

N-RBC #BASO %BASO #LUC %LUC #LYMPH %LYMPH WBC WBCB
WBCu WBCP #NEUT %NEUT #MONO %MONO #EOS %EOS
%NRBC #NRBC %NEUTu #NEUTu %LYMPHu #LYMPHu
%MONOU #MONOU %EOSu #EOSu %BASOU #BASOU %LUCu
#LUCu

WBC-CE WBC WBCu

NRPXNV #BASO %BASO #LUC %LUC #LYMPH %LYMPH WBC #NEUT
%NEUT #MONO %MONO #EOS %EOS %NRBC #NRBCNRCELL #BASO %BASO #LUC %LUC #LYMPH %LYMPH WBC #NEUT
%NEUT #MONO %MONO #EOS %EOS %NRBC #NRBC

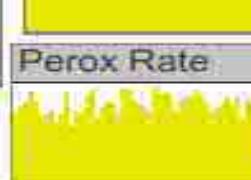
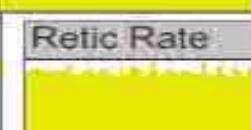
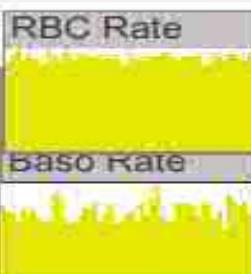
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Cal Factors	Stored
FOR LABORATORY USE ONLY	

Routine CBC	
WBC	L 3.31 * $\times 10^3$ cells/ μ L
RBC	4.58 $\times 10^6$ cells/ μ L
HGB	15.1 g/dL
HCT	48.3 %
MCV	H 105.4 fL
MCH	H 33.0 pg
MCHC	L 31.3 g/dL
CHCM	L 30.3 g/dL
CH	31.8 pg
RDW	12.5 %
HDW	2.81 g/dL
PLT	139 $\times 10^3$ cells/ μ L
MPV	9.1 fL

Routine Retic			
	%	#	$\times 10^9$ cells/L
Retic	1.80	82.5	
CHr		H 30.3	pg
CHm		31.5	pg

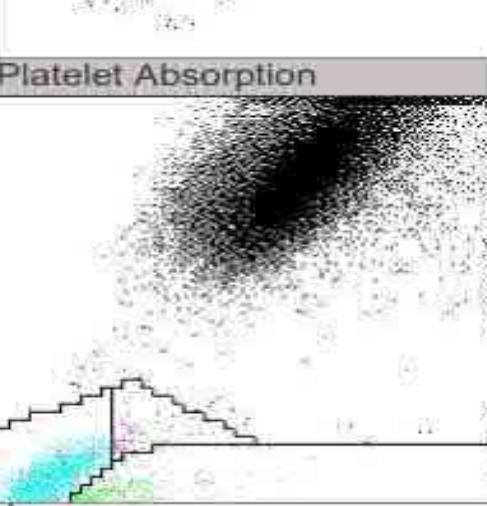
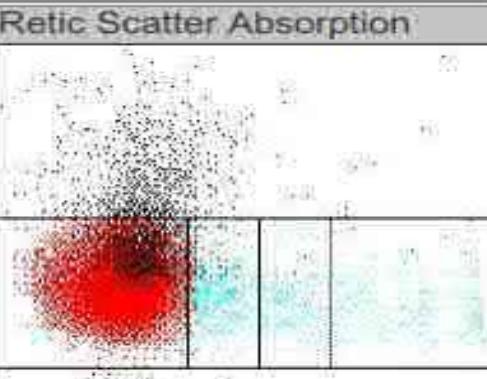
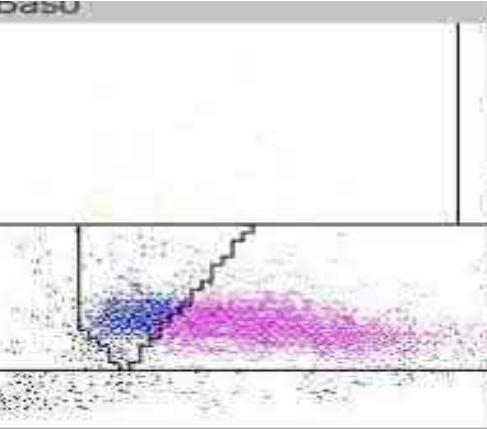
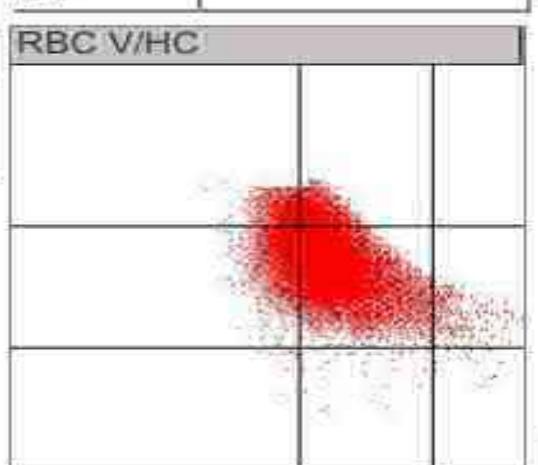
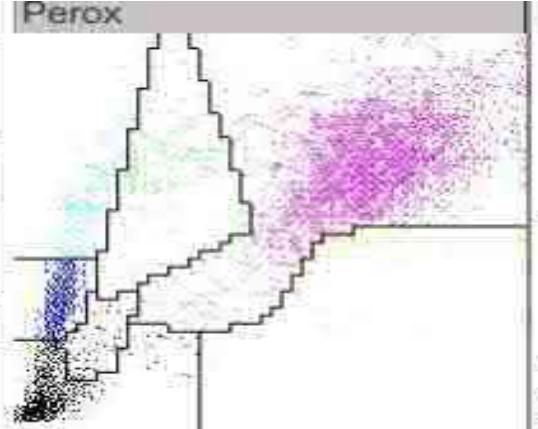
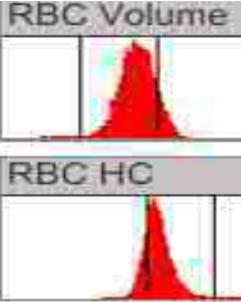
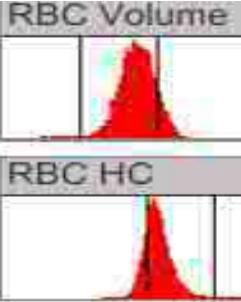
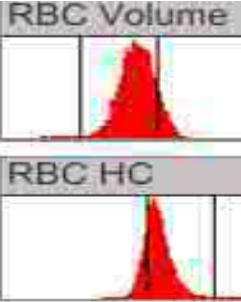
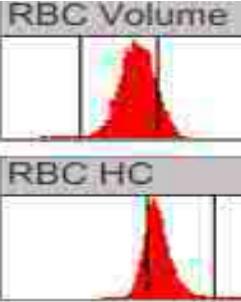
RtcPlts	
%RtcPlts	4.54
RtcPlts Count	47
RtcPlts Threshold	12
RtcPlt VI	29.4
RtcPlt CI	15.8
NACU Count	111



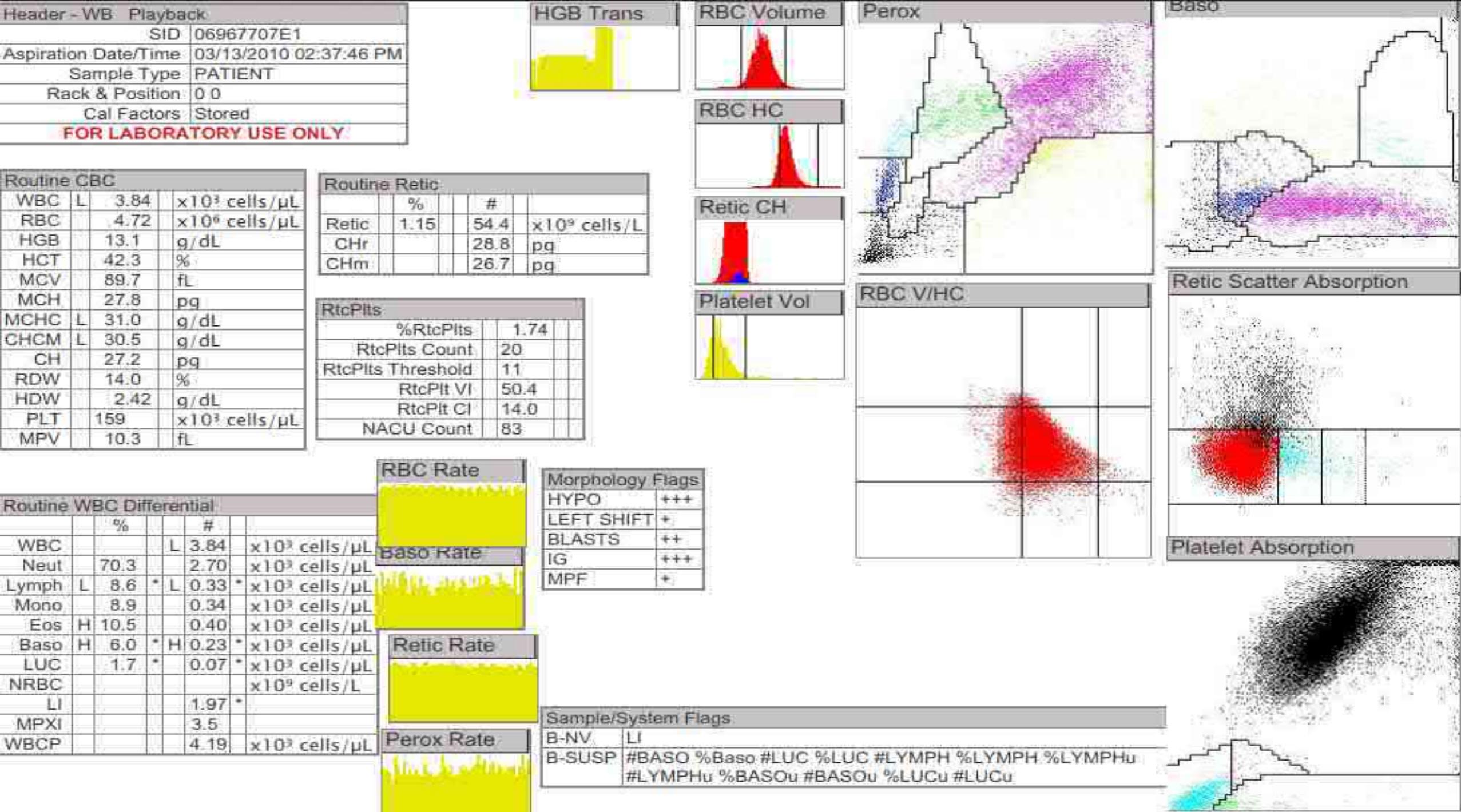
Morphology Flags	
MACRO	+++
HYPO	+++
LEFT SHIFT	+++
NRBC	+
IG	++
MPF	+

Routine WBC Differential

	%	#	
WBC		L 3.31 * $\times 10^3$ cells/ μ L	
Neut	H 76.2 *	2.52 * $\times 10^3$ cells/ μ L	baso rate
Lymph	L 12.8 *	L 0.42 * $\times 10^3$ cells/ μ L	
Mono	L 3.0 *	L 0.10 * $\times 10^3$ cells/ μ L	
Eos	2.2 *	0.07 * $\times 10^3$ cells/ μ L	
Baso	H 1.7 *	0.06 * $\times 10^3$ cells/ μ L	
LUC	H 4.1 *	0.14 * $\times 10^3$ cells/ μ L	
NRBC	H 2.8 *	0.09 * $\times 10^9$ cells/L	
LI		L 1.68 *	
MPXI		5.9	
WBCP		3.26 * $\times 10^3$ cells/ μ L	



Sample/System Flags	
B-NV	LI
N-RBC	#BASO %Baso #LUC %LUC #LYMPH %LYMPH WBC WBCB WBCu WBCP #NEUT %NEUT #MONO %MONO #EOS %EOS %NRBC #NRBC %NEUTu #NEUTu %LYMPHu #LYMPHu %MONOU #MONOU %EOSu #EOSu %BASOU #BASOU %LUCu #LUCu
NR-LPD	#BASO %Baso #LUC %LUC #LYMPH %LYMPH WBC #NEUT %NEUT #MONO %MONO #EOS %EOS %NRBC #NRBC

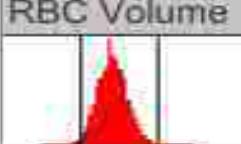


Header - WB Playback

SID	51717023E1
Aspiration Date/Time	01/17/2010 04:23:43 PM
Sample Type	PATIENT
Rack & Position	0 0
Cal Factors	Stored
FOR LABORATORY USE ONLY	

Routine CBC	
WBC	5.36 $\times 10^3$ cells/ μ L
RBC	5.16 $\times 10^6$ cells/ μ L
HGB	14.5 g/dL
HCT	44.1 %
MCV	85.4 fL
MCH	28.2 pg
MCHC	33.0 g/dL
CHCM	33.5 g/dL
CH	28.5 pg
RDW	13.8 %
HDW	2.39 g/dL
PLT	235 $\times 10^3$ cells/ μ L
MPV	7.2 fL

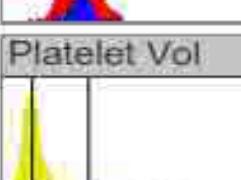
Routine WBC Differential		
	%	#
WBC		5.36 $\times 10^3$ cells/ μ L
Neut	H 90.7	4.86 $\times 10^3$ cells/ μ L
Lymph	L 5.9	0.32 $\times 10^3$ cells/ μ L
Mono	L 2.0	0.11 $\times 10^3$ cells/ μ L
Eos	0.2	0.01 $\times 10^3$ cells/ μ L
Baso	0.6	0.03 $\times 10^3$ cells/ μ L
LUC	0.6	0.03 $\times 10^3$ cells/ μ L
NRBC	0.0	0.00 $\times 10^9$ cells/L
LI		1.93
MPXI		1.9
WBCP		5.17 $\times 10^3$ cells/ μ L



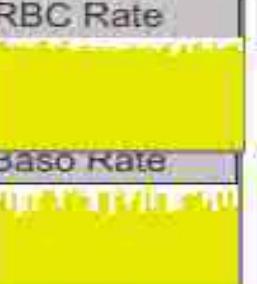
Routine Retic			
	%	#	
Retic	1.69	87.0	$\times 10^9$ cells/L
CHR		H 30.7	pg
CHM		29.4	pg



RtcPlts		
	%RtcPlts	0.67
RtcPlts Count	12	
RtcPlts Threshold	13	
RtcPlt VI	36.0	
RtcPlt CI	16.8	
NACU Count	47	



RBC Rate



Morphology Flags

LEFT SHIFT	+
IG	+

Baso Rate



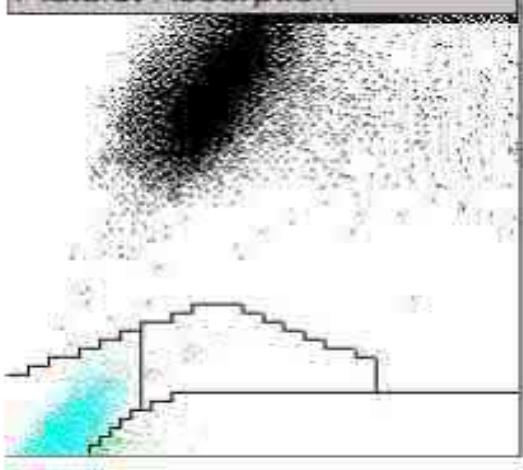
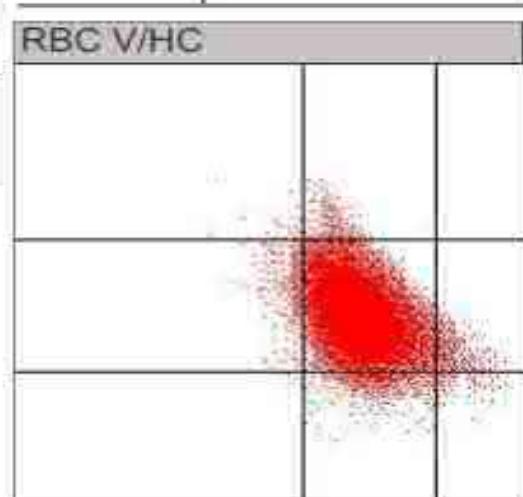
Retic Rate



Perox Rate



Sample/System Flags

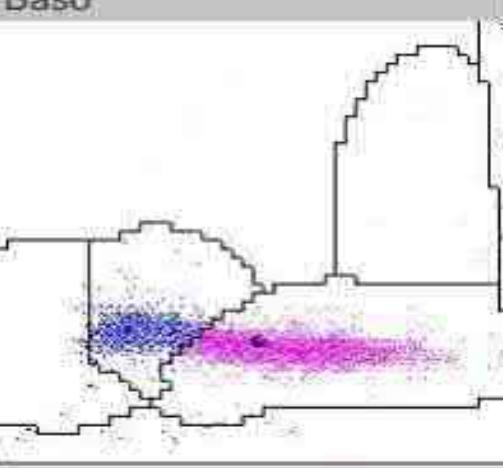
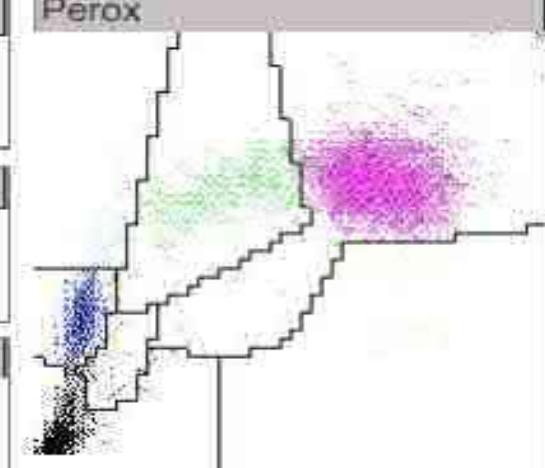
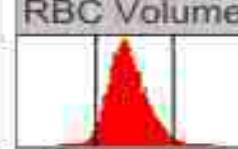


Header - WB Playback

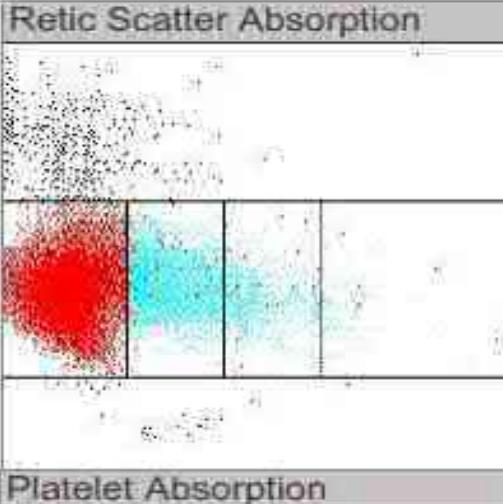
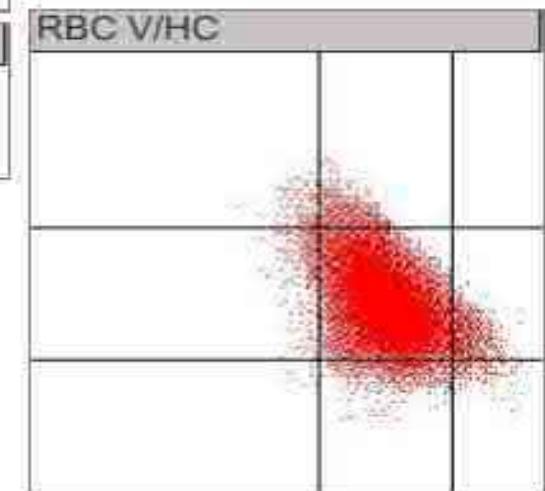
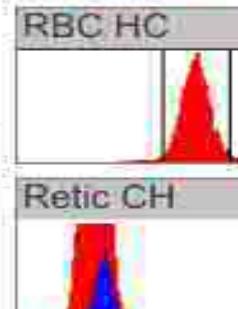
SID	51757237E1
Aspiration Date/Time	01/17/2010 04:24:33 PM
Sample Type	PATIENT
Rack & Position	0 0
Cal Factors	Stored
FOR LABORATORY USE ONLY	

Routine CBC		
WBC	L	4.13 $\times 10^3$ cells/ μ L
RBC	L	3.24 $\times 10^6$ cells/ μ L
HGB	L	9.7 g/dL
HCT	L	27.9 %
MCV		86.0 fl
MCH		30.0 pg
MCHC		34.9 g/dL
CHCM		34.7 g/dL
CH		29.7 pg
RDW	H	16.7 %
HDW		2.87 g/dL
PLT		347 $\times 10^3$ cells/ μ L
MPV		7.7 fl

Routine WBC Differential		
	%	#
WBC		L 4.13 $\times 10^3$ cells/ μ L
Neut	H	76.7 3.17 $\times 10^3$ cells/ μ L
Lymph	L	14.5 L 0.60 $\times 10^3$ cells/ μ L
Mono		7.0 0.29 $\times 10^3$ cells/ μ L
Eos		0.7 0.03 $\times 10^3$ cells/ μ L
Baso		0.1 0.01 $\times 10^3$ cells/ μ L
LUC		0.9 0.04 $\times 10^3$ cells/ μ L
NRBC		0.0 0.00 $\times 10^9$ cells/L
Li		2.10
MPXI		2.4
WBCP		3.99 $\times 10^3$ cells/ μ L

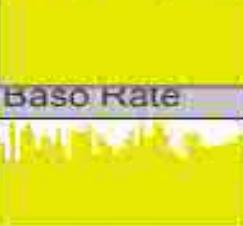


Routine Retic		
Retic	H	7.47 * $\times 10^9$ cells/L
CHr		H 33.9 * pg
CHm		30.2 pg



RtcPlts		
	%RtcPlts	1.87
RtcPlts Count		51
RtcPlts Threshold		13
	RtcPlt VI	34.6
	RtcPlt CI	16.5
	NACU Count	61

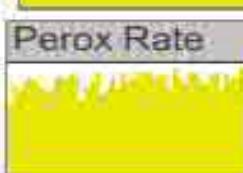
RBC Rate



Morphology Flags

ANISO	+
IG	+
MPF	+

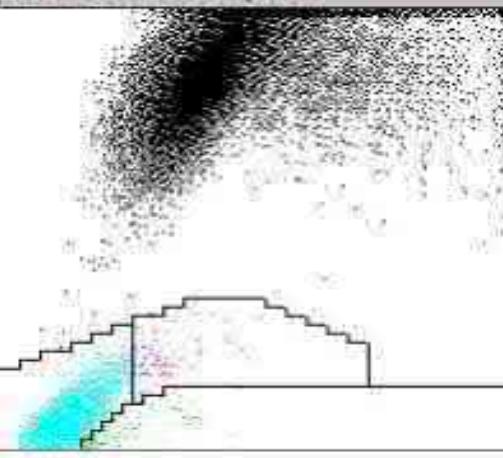
Retic Rate



Sample/System Flags

RTC-FS CHCMg CHCMr CHg CHr MCVg MCVr RDWg RDWr #RETIC
%RETIC CHDWg CHDWr

Platelet Absorption



Header - WB Playback

SID	51326666E1
Aspiration Date/Time	01/17/2010 04:26:41 PM
Sample Type	PATIENT
Rack & Position	0 0
Cal Factors	Stored
FOR LABORATORY USE ONLY	

Routine CBC			
WBC	L	4.86	$\times 10^3$ cells/ μ L
RBC	H	6.75	$\times 10^6$ cells/ μ L
HGB		15.3	g/dL
HCT		49.8	%
MCV	L	73.7	fL
MCH	L	22.6	pg
MCHC	L	30.6	g/dL
CHCM	L	30.8	g/dL
CH		22.5	pg
RDW	H	15.5	%
HDW		2.92	g/dL
PLT		139	$\times 10^3$ cells/ μ L
MPV		8.2	fL

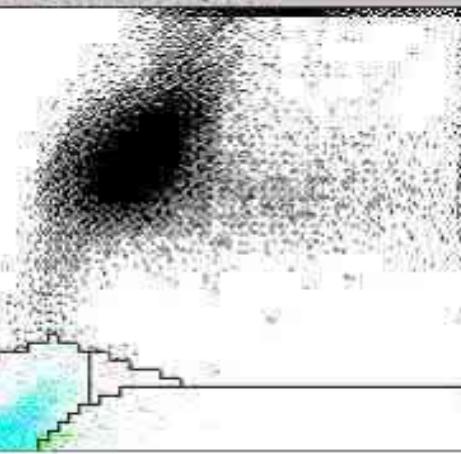
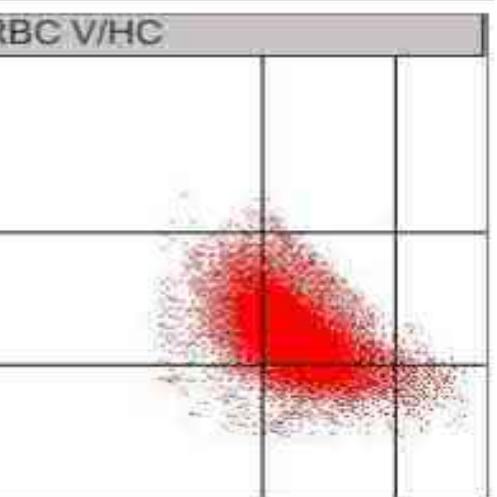
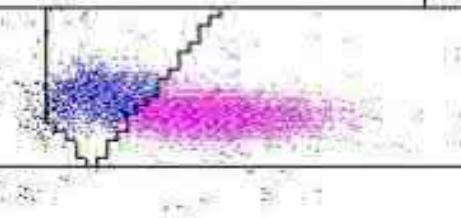
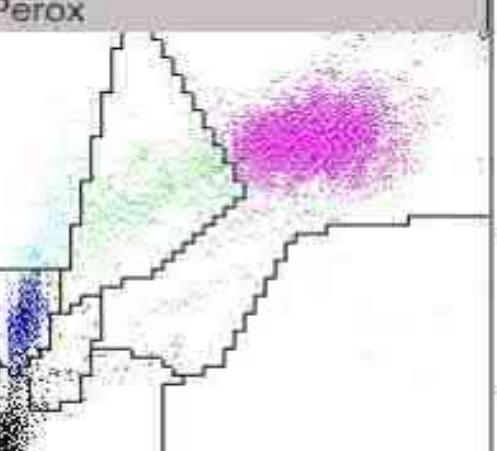
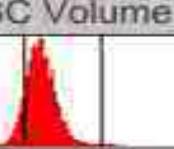
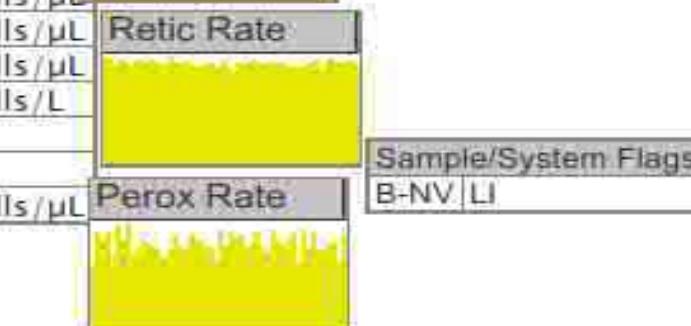
Routine Retic			
Retic	%	#	
	2.41	H 162.5	$\times 10^9$ cells/L
Chr		L 24.3	pg
Chm			pg

RtcPlts			
	%RtcPlts	0.82	
RtcPlts Count		8	
RtcPlts Threshold		13	
	RtcPlt VI	33.3	
	RtcPlt CI	14.1	
NACU Count		72	

RBC Rate			
Baso Rate			
Retic Rate			

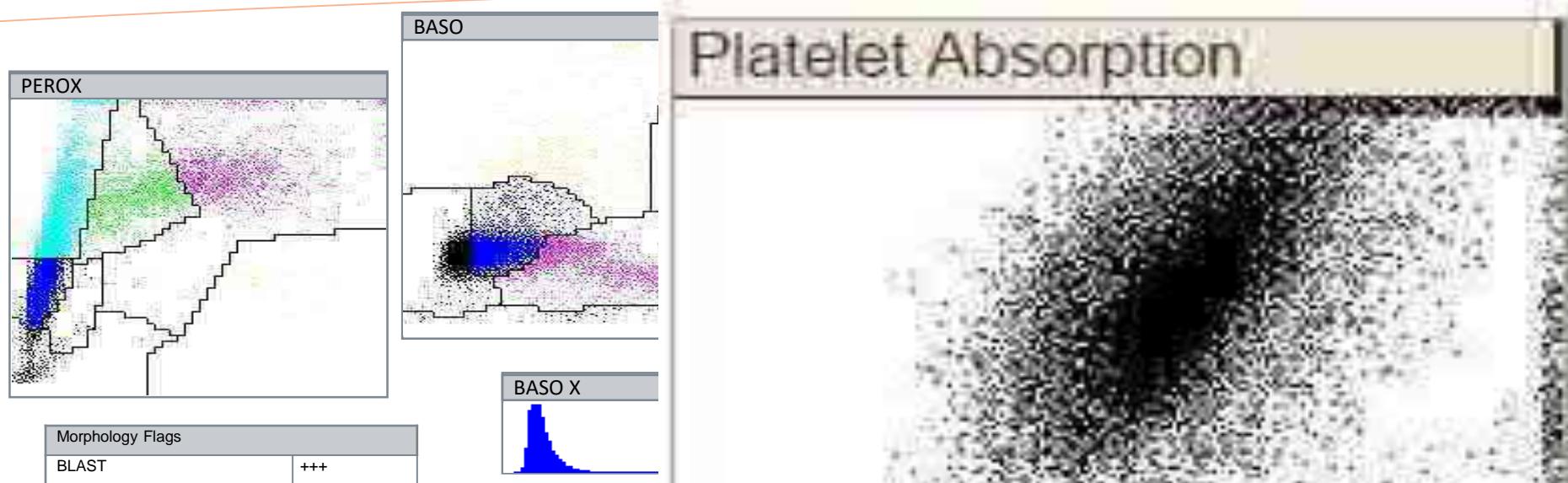
Morphology Flags	
MICRO	++
HYPO	+++
LEFT SHIFT	+++
IG	++
MPF	+

Routine WBC Differential			
	%	#	
WBC		L 4.86	$\times 10^3$ cells/ μ L
Neut	H 76.2	3.70	$\times 10^3$ cells/ μ L
Lymph	L 15.8	0.77	$\times 10^3$ cells/ μ L
Mono	5.1	0.25	$\times 10^3$ cells/ μ L
Eos	0.4	0.02	$\times 10^3$ cells/ μ L
Baso	0.5	0.03	$\times 10^3$ cells/ μ L
LUC	2.0	0.10	$\times 10^3$ cells/ μ L
NRBC			$\times 10^9$ cells/L
LI		L 1.57	*
MPXI		-0.9	
WBCP		4.95	$\times 10^3$ cells/ μ L



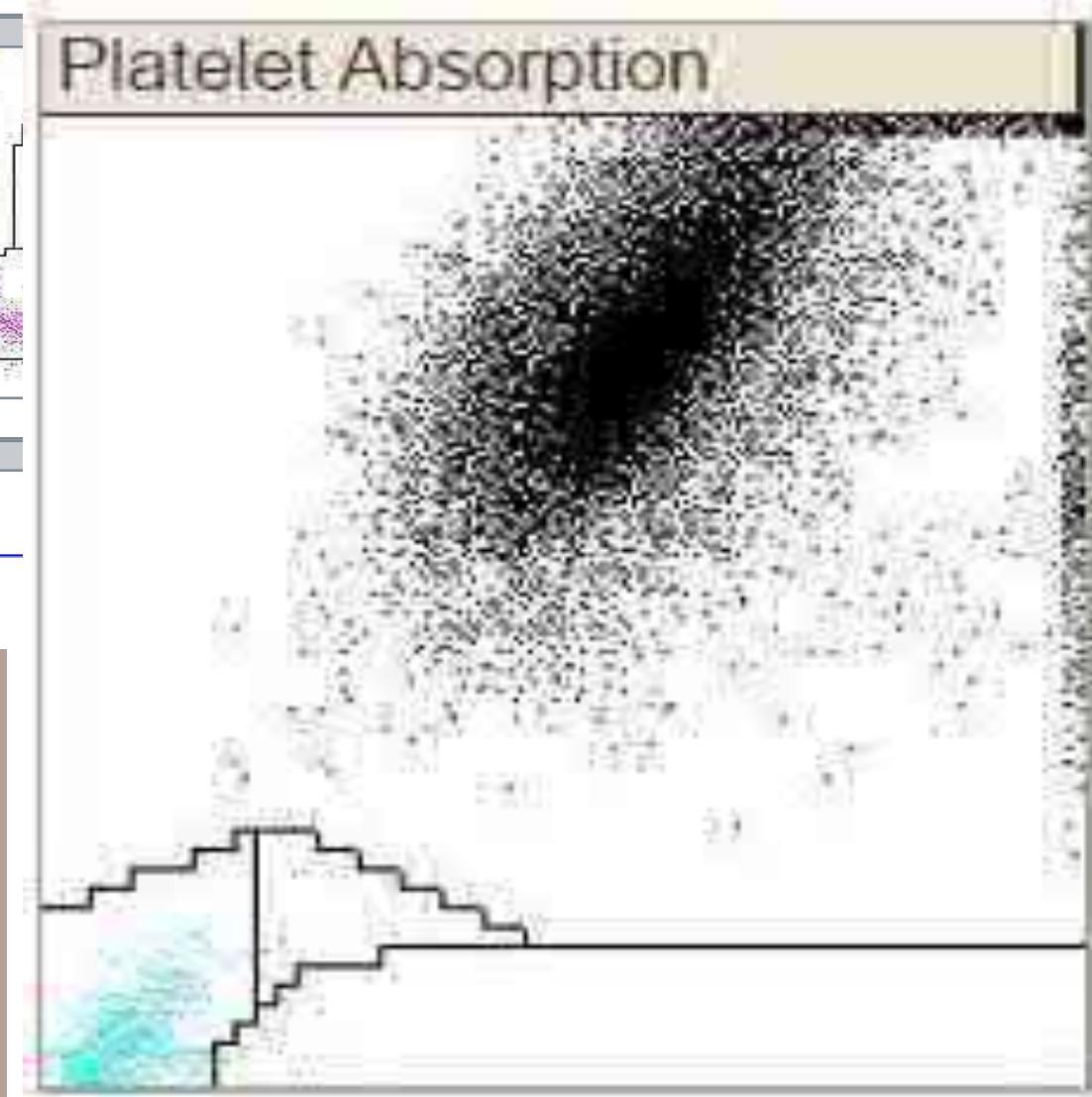
Case Nr. 011217012

Routine CBC			
LEUCO	H	26,84	x10 ³ /µL
ERY	L	2,88	x10 ⁶ /µL
HB	L	8,0	g /dL
HCT	L	25,1	%
MCV		87,3	fL
MCH		27,7	pg
MCHC	L	31,7	g / dL
CHCM	L	32,4	g / dL
CH		28,1	pg
RDW	H	15,7	%
HDW		2,87	g / dL
PLT	L	18	* x10 ³ /µL
MPV		9,4	* fL



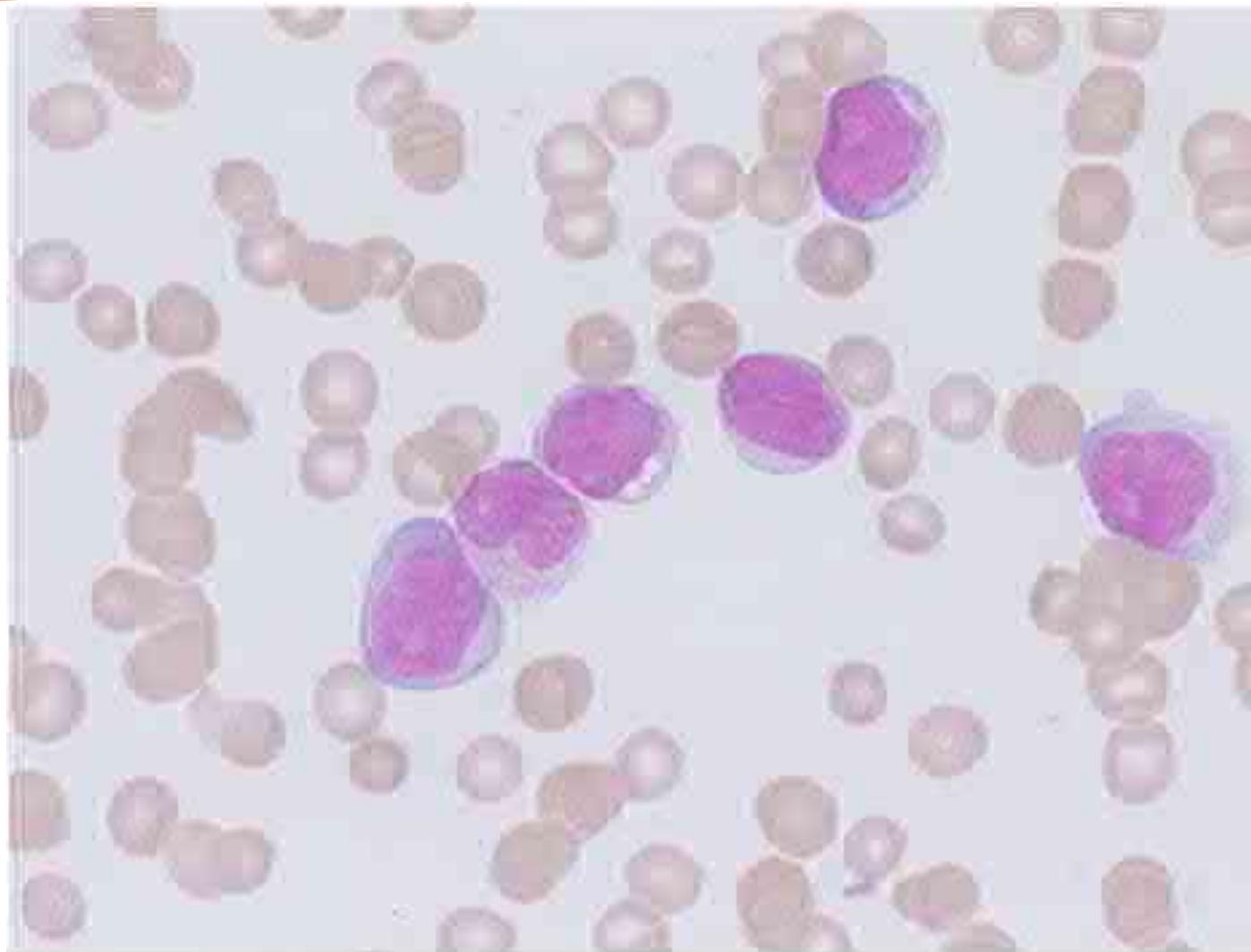
	%	#		
LEUCO		H	26,84	x10 ³ /µL
NEUT	L	4,9	L	1,31 x10 ³ /µL
LYMPH	H	60,1	H	16,14 x10 ³ /µL
MONO		4,2	H	1,14 x10 ³ /µL
EOS		0,1		0,02 x10 ³ /µL
BASO		1,0	H	0,26 x10 ³ /µL
LUC	H	29,7	H	7,97 x10 ³ /µL
LI			L	1,79
MPXI			L	-11,1
LEUCO P				27,38 x10 ³ /µL

RtcPlts	%RtcPlts	1.15
RtcPlts Count	2	
RtcPlt VI	36.0	
RtcPlt CI	12.0	
RtcPlts Threshold	10	
NACU Count	9	



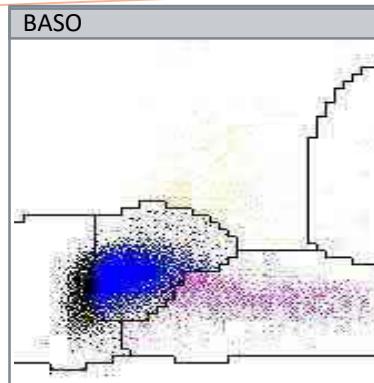
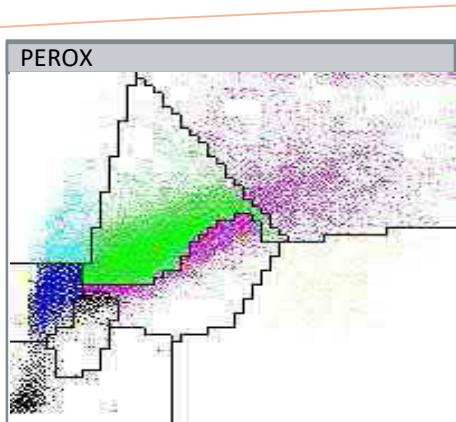
Case Nr. 011217012

SIEMENS
Healthineers

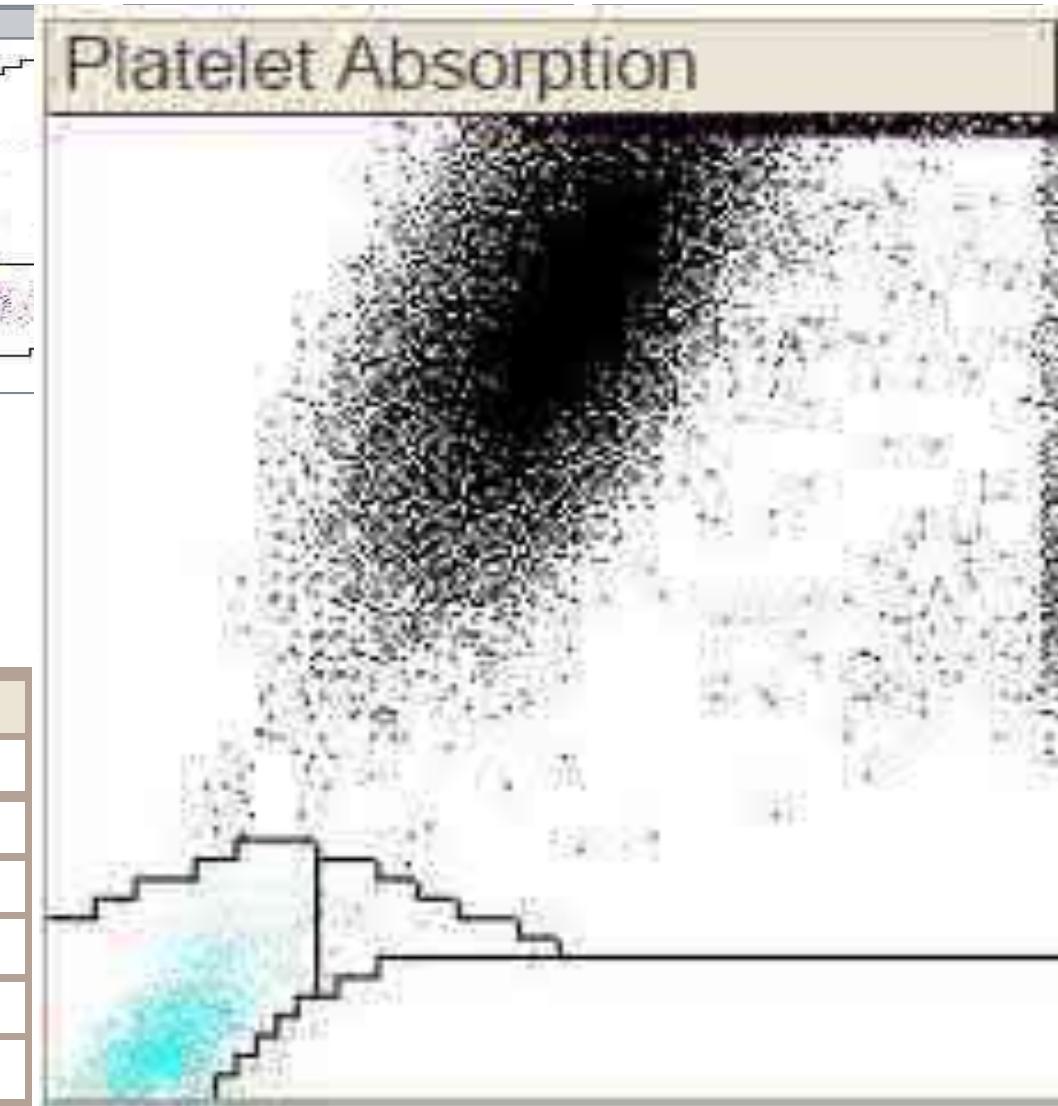


Case Nr. 040118008

Routine CBC			
LEUCO	H	23,11	$\times 10^3/\mu\text{L}$
ERY		4,72	$\times 10^6/\mu\text{L}$
HB		14,3	g / dL
HCT		42,4	%
MCV		89,8	fL
MCH		30,3	pg
MCHC		33,8	g / dL
CHCM		34,3	g / dL
CH		30,6	pg
RDW	H	15,3	%
HDW		2,84	g / dL
PLT	L	50	$\ast \times 10^3/\mu\text{L}$
MPV		8,4	$\ast \text{ fL}$



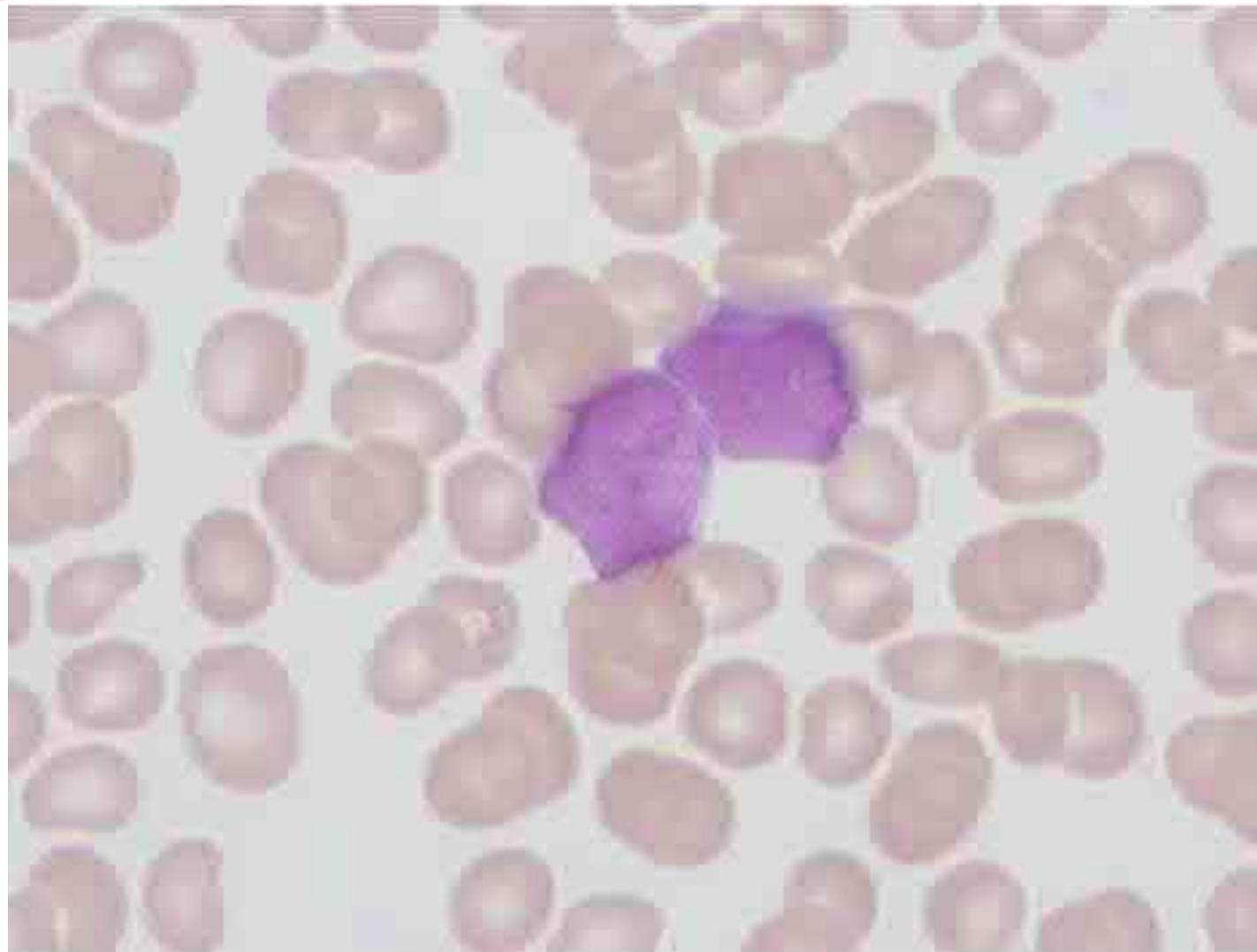
Morphology-Flags	
BLASTS	+++
IG	+++
PLT CLUMPS	+



		%		#	
LEUCO			H	23,11	$\times 10^3/\mu\text{L}$
NEUT	L	16,0		3,69	$\times 10^3/\mu\text{L}$
LYMPH	L	16,5		3,82	$\times 10^3/\mu\text{L}$
MONO	H	62,7		14,48	$\times 10^3/\mu\text{L}$
EOS		0,6		0,13	$\times 10^3/\mu\text{L}$
BASO		0,9	H	0,20	$\times 10^3/\mu\text{L}$
LUC		3,3	H	0,77	$\times 10^3/\mu\text{L}$
NRBC		0,0		0,00	$\times 10^9/\text{L}$
LI			L	1,66	\ast
MPXI			L	-21,1	
LEUCO P				22,82	$\times 10^3/\mu\text{L}$

Case Nr. 040118008

SIEMENS
Healthineers





Siemens Healthineers provide
Some Improvements on ADVIA 2120i

New in 2018/19

 Straw holder	Straw holders are backward compatible with 120/2120/2120.
 Selector Valve and Tubing Assemblies	New selector valve and tubing assemblies are backward compatible with 120/2120/2120.
 Stainless Steel Needles	SS needle is backward compatible with 120/2120/2120.
 New Air Driver Assembly	New driver assembly is backward compatible with 120/2120/2120.
 Auto-wipe Assembly	New wipe assembly is backward compatible with 120/2120/2120.
 50ml and 100ml Syringe Assemblies	New syringes are backward compatible with 120/2120/2120.

New in 2018/19

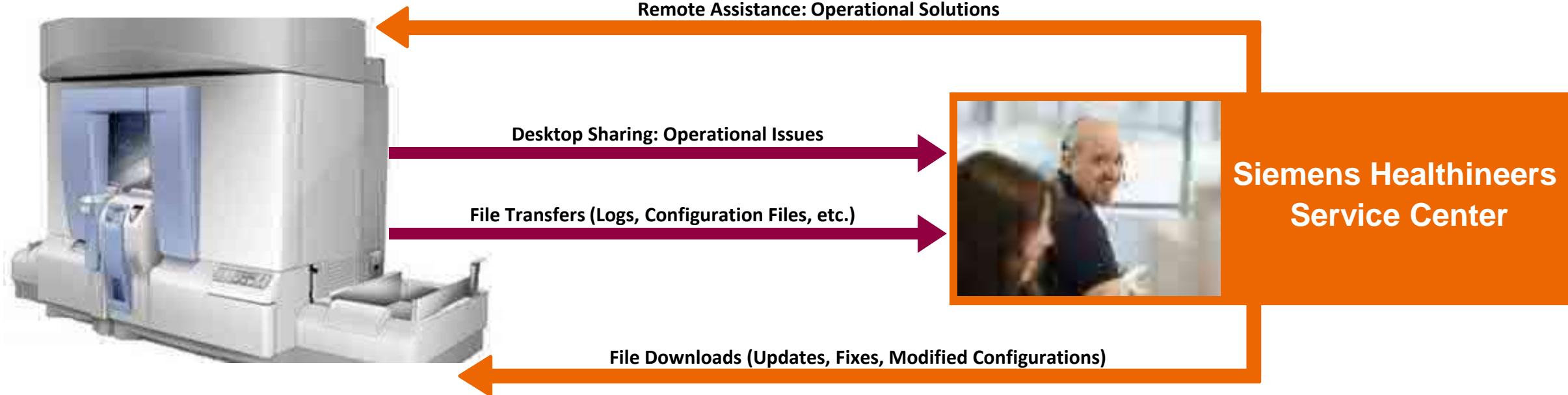
	New scanner is backward compatible with i20/2120/2120i
	New strips are backward compatible with i20/2120/2120i
	New Perox lamp is backward compatible with i20/2120/2120i

	<p>Perox and HgB De-rating</p> <p>ADVIA 2120 3M software</p> <ul style="list-style-type: none">• Makrana Redis RUO• Auto-Reweall cleaning• Auto shear face cleaning• Additional Perox cleaning• Additional V40 cleaning• MCTS cleaning• ISBT barcodes• PLT to toe RUO• No wash skipping• Flagging controls• Utility UFC wash procedure	<p>Requires significant hardware upgrade</p> <ul style="list-style-type: none">• New pneumatics• New HgB colorimeter• Perox De-rate Module• New Perox lamp <p>Software is backward compatible for 2120/2120i</p>
	<p>New MCTS Collet automated cleaning hardware</p>	<p>Requires significant hardware upgrade</p> <ul style="list-style-type: none">• New full aspirate mechanism required
	<p>Siemens Remote Service SRS</p>	<ul style="list-style-type: none">• New 3M software required <p>Backward compatible for instruments with a virtual machine workstation</p>
	<p>Additional pressure diagnostics</p> <p>Flowcell Tubing assemblies less prone to staining</p>	<p>Requires significant hardware upgrade</p> <ul style="list-style-type: none">• New pneumatics assembly• New 3M software required <p>Backward-compatible 120/2120/2120i but requires the new 3M flowcell assembly</p>

New!



Smart Remote Services (SRS) Connectivity



Smart Remote Services (SRS) is a powerful, secure data connection between your lab and Siemens Healthineers service engineers. SRS enables on-demand desktop sharing and file transfers so service engineers can quickly resolve issues from a remote location. SRS also enables labs to download mandatory system updates without the need for an on-site visit. All processes are HIPAA compliant to fully ensure patient and data confidentiality.

**Thank you for
your attention**

Author: Gottfried Prechtl



I'm happy
to answer your
questions about
our products