

# Krevní obrazy

*procvičování hodnocení*

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# Při hodnocení sledovat

- vyšetření poprvé / opakovaně
- typ diagnózy
- pacient: ambulantní, lůžkové odd., JIP...
- vyšetření rutinní, statimové, speciální, vitální indikace
- výsledky jsou mimo referenční rozmezí
- náhlé změny v KO
- interference
- patologická hlášení
- správný odběr, typ vyšetřovaného materiálu

# Laboratorní informační systém

Pojišťovna...	VZP	BM...	.....
Oddělení.....	Zo..E	.....	.....
Lékař.....		.....	.....
Diagnoza.....		.....	Výška [cm]
F1 Komentář.....		.....	Váha [kg]
---Dat.nar.-----	5/ 9/1943-Ž-(M/Ž)		
F9 VYŠETŘENÍ.....		F3 Sign(+-) *	11636/21/02

KO = 0	MPV = 9.30	MONO= 1.08	Eos9= 2.00	NRBC= 9	LGLh= 4
WBC = 9.18	PCT = 2.80	EOS = 0.13	Bas9= 3.00	HodE=polychr	= 0.26
RBC = 3.85	PDW = 10.00	BASO= 0.31	META= 8.00	HodL=hypogra	AKRE=
HGB = 115.00	NEU%= 69.10	NRBC= 0.71	MYEL= 6.00	HodL=	AU =XE-5000
HCT = 0.33	LYM%= 14.30	NR/W= 7.70	PROM= 0.00	HodP=anizo P	KOME=Left Sh
MCV = 86.20	MON%= 11.80	Dif	MYBL= 0.00	Dif:=RNDr. L	= 0
PLT = 299.00	EOS%= 1.40	Neu9= 52.00	Prol= 0.00	Dif:=	K_LA= 198
MCH = 29.90	BAS%= 3.40	Ban9= 13.00	Plb = 0.00	Dif:=	K_S = 44
MCHC= 346.00	NEU = 6.35	Lym9= 12.00	NeBu= 0.00	H100= 100.00	SUIT= 12939
RDW = 17.80	LYM = 1.31	Mon9= 3.00	NeBl= 1.00	LGL = 0.367	UPO =Výsledk

# Laboratorní informační systém – historie vyšetření

21/02/2014	10/01/2014	27/11/2013	27/11/2013	27/11/2013	25/10/2013
WBC = 9.18	WBC = 10.30		WBC = 11.30		WBC = 9.33
RBC = 3.85	RBC = 3.52		RBC = 3.68		RBC = 3.36
HGB = 115.00	HGB = 110.00		HGB = 108.00		HGB = 102.00
HCT = 0.33	HCT = 0.30		HCT = 0.31		HCT = 0.29
MCV = 86.20	MCV = 86.10		MCV = 84.50		MCV = 86.30
PLT = 299.00	PLT = 362.00		PLT = 423.00		PLT = 352.00
MCH = 29.90	MCH = 31.10		MCH = 29.30		MCH = 30.40
MCHC= 346.00	MCHC= 361.00		MCHC= 347.00		MCHC= 352.00
RDW = 17.80	RDW = 16.90		RDW = 17.00		RDW = 17.40
MPV = 9.30	MPV = 7.18		MPV = 6.95		MPV = 8.90
PCT = 2.80	PCT = 2.60		PCT = 2.94		PCT = 3.10
PDW = 10.00	PDW = 16.70		PDW = 17.00		PDW = 9.30
NEU = 6.35	NEU = 7.82		NEU = 7.35		NEU = 6.63
LYM = 1.31	LYM = 1.54		LYM = 2.66		LYM = 1.14
MONO= 1.08	MONO= 0.82		MONO= 1.10		MONO= 1.11
EOS = 0.13	EOS = 0.09		EOS = 0.11		EOS = 0.17
BASO= 0.31	BASO= 0.01		BASO= 0.04		BASO= 0.28
NEU%= 69.10	NEU%= 76.00		NEU%= 65.30		NEU%= 71.10
LYM%= 14.30	LYM%= 14.90		LYM%= 23.60		LYM%= 12.20
MON%= 11.80	MON%= 8.00		MON%= 9.81		MON%= 11.90
EOS%= 1.40	EOS%= 0.90		EOS%= 0.95		EOS%= 1.80

Komentář

konc=ESC

F2=Tisk

F5=Filtr metod

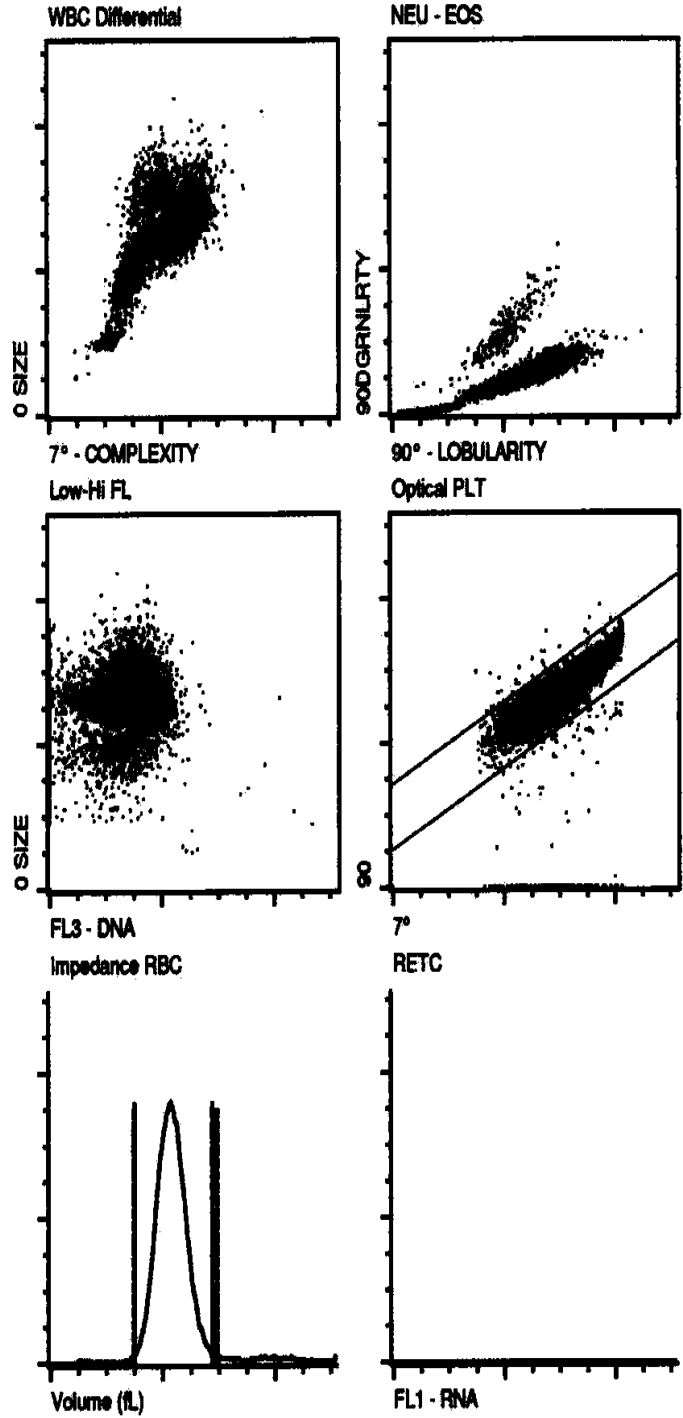
<- ->

DOB:  
 Sex:  
 Doctor:  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	9.36	10e9/L		
NEU	5.55		%N	59.3
LYM	2.40		%L	25.6
MONO	.896		%M	9.57
EOS	.450		%E	4.81
BASO	.066		%B	.703

RBC	4.28	10e12/L		
HGB	138.	g/L		
HCT	.373	L/L		
MCV	87.1	fL		
MCH	32.3	pg		
MCHC	371.	g/L		
RDW	11.6	%CV		
RETc	---	10e9/L	%R	---
IRF	---			
NRBC	0.00	10e9/L	NR/W	0.00

PLT	190.	10e9/L
MPV	8.53	fL



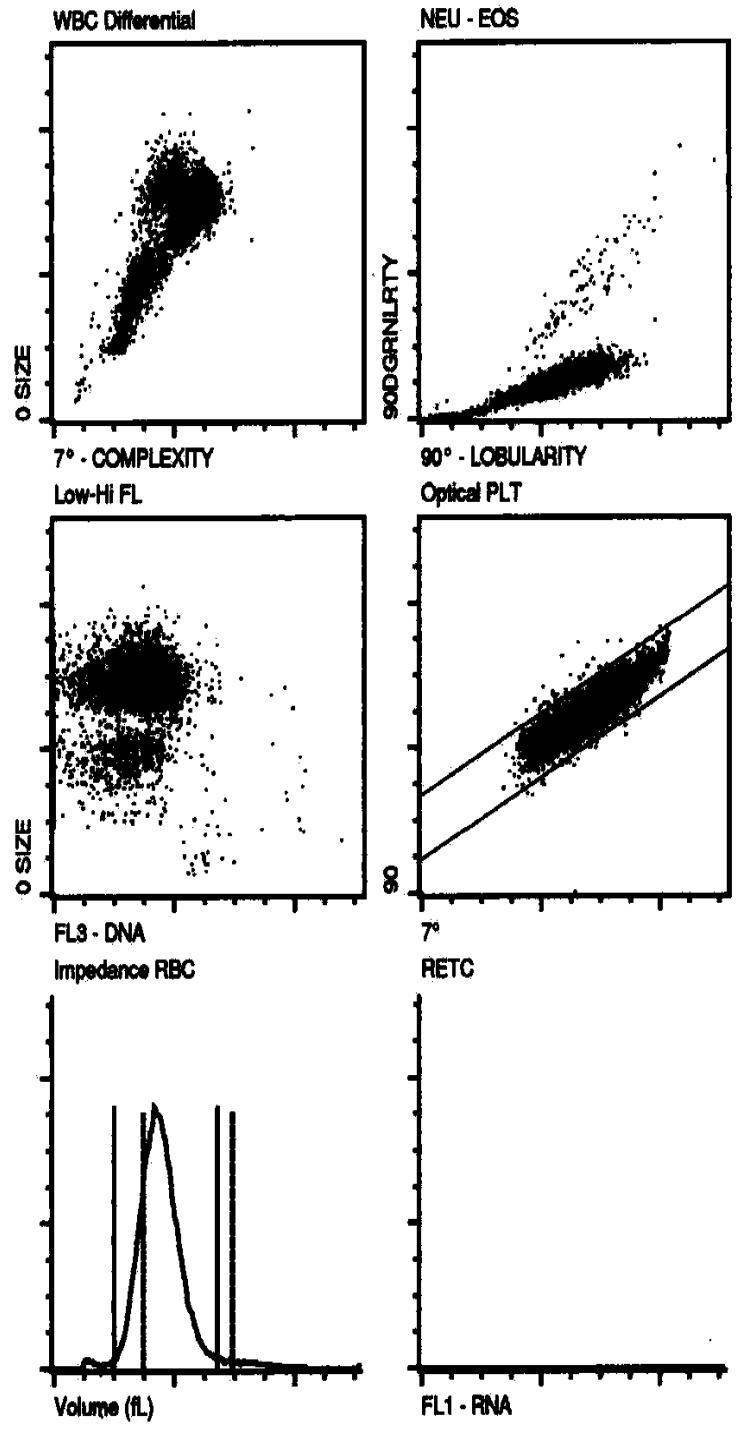
KO v normě



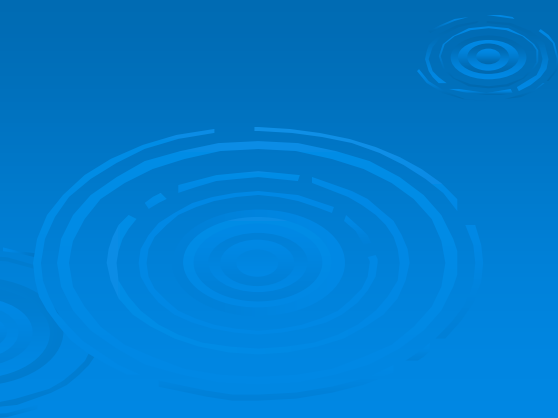
DOB: 06/17/21  
 Sex: F  
 Doctor: 0589/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	8.02	10e9/L	✓	
NEU	5.34	%N	66.6	
LYM	1.61	%L	20.1	↔
MONO	.836	%M	10.4	
EOS	.171	%E	2.14	
BASO	.060	%B	.749	

RBC	3.97	10e12/L	✓	
HGB	88.7	g/L	↓	
HCT	28.2	L/L		
MCV	71.1	fL		
MCH	22.3	pg		
MCHC	314.	g/L		
RDW	17.4	%CV	↔	
RETc	---	10e9/L	%R	---
IRF	---			
NRBC	0.00	10e9/L	NRW	0.00
PLT	499.	10e9/L	↑	
MPV	9.05	fL		



patologický KO



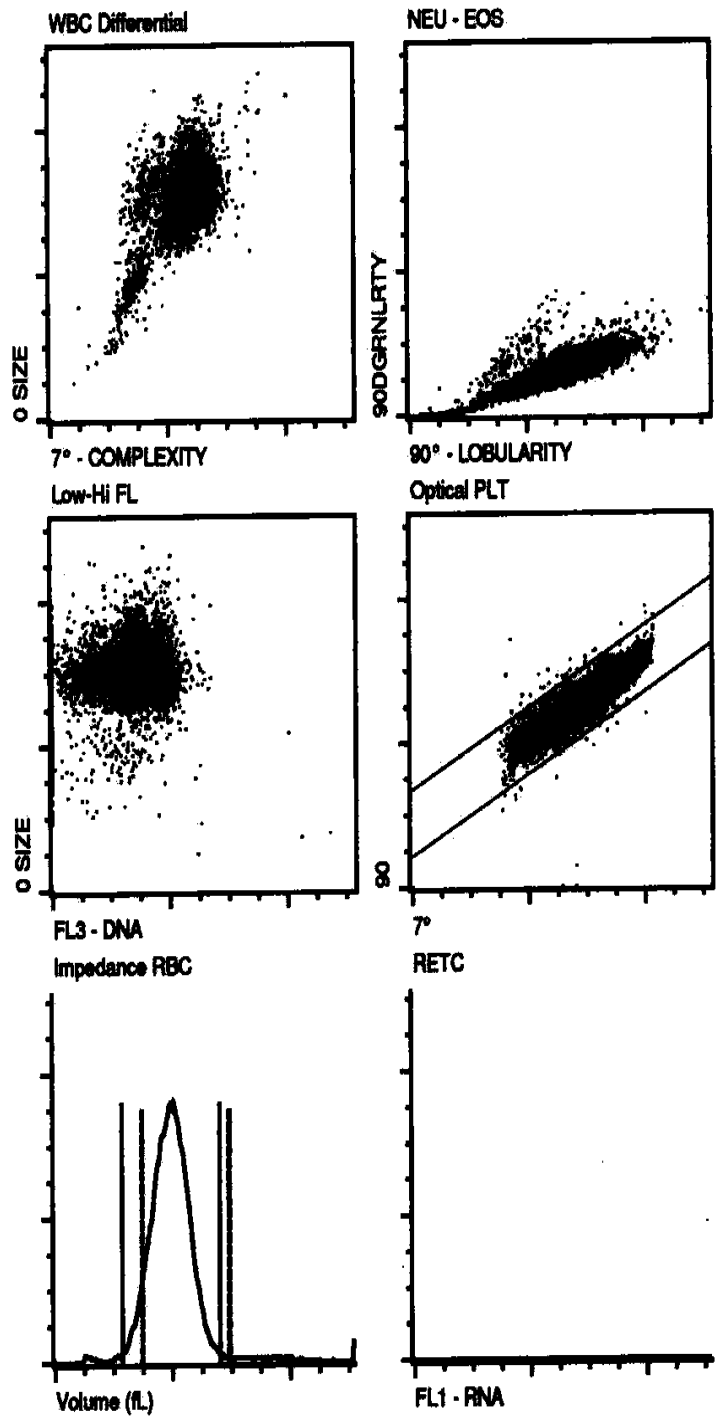
DOB: 09/05/56  
 Sex: F  
 Doctor: 0542/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	<u>25.4</u>	10e9/L	↑	%N	<u>86.3s</u>	↑
NEU	<u>21.9s</u>			%L	<u>5.06</u>	↓
LYM	1.28			%M	6.19	
MONO	<u>1.57</u>			%E	2.43	
EOS	<u>.616</u>			%B	.055	
BASO	.014					

RBC	<u>3.08</u>	10e12/L	↓	%R	---
HGB	<u>82.1</u>	g/L			
HCT	<u>244</u>	L/L			
MCV	<u>79.3</u>	fL			
MCH	<u>26.7</u>	pg			
MCHC	337.	g/L			
RDW	<u>15.5</u>	%CV	↔		
RETc	---	10e9/L			
IRF	---				
NRBC	0.00	10e9/L		NRW	0.00

PLT	256.	10e9/L	✓
MPV	8.75	fL	

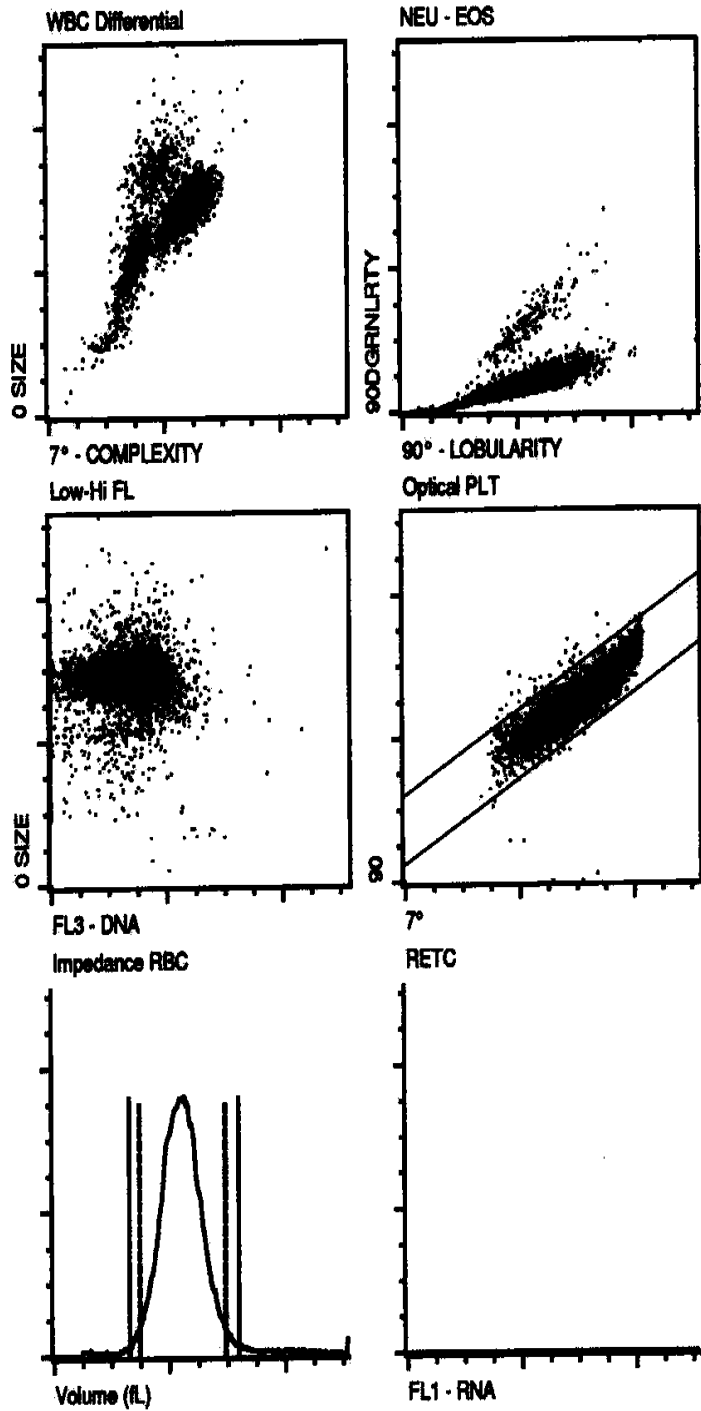


patologický KO

DOB: 26/02/48  
 Sex: M  
 Doctor: 0509/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	<u>11.6</u>	10e9/L ↑			
NEU	<u>9.31</u>		%N	<u>80.1</u>	↑
LYM	<u>1.30</u>		%L	<u>11.2</u>	↓
MONO	<u>.526</u>		%M	<u>4.53</u>	
EOS	<u>.461</u>		%E	<u>3.97</u>	
BASO	<u>.027</u>		%B	<u>.233</u>	

RBC	<u>2.94</u>	10e12/L			
HGB	<u>86.3</u>	g/L			
HCT	<u>.263</u>	L/L		↓	
MCV	<u>89.3</u>	fL		✓	
MCH	<u>29.3</u>	pg			
MCHC	<u>329.</u>	g/L			
RDW	<u>15.4</u>	%CV		↔	
RETC	---	10e9/L	%R	---	
IRF	---				
NRBC	<u>0.00</u>	10e9/L	NRW	<u>0.00</u>	
PLT	<u>99.0</u>	10e9/L			↓
MPV	<u>10.7</u>	fL			



4M

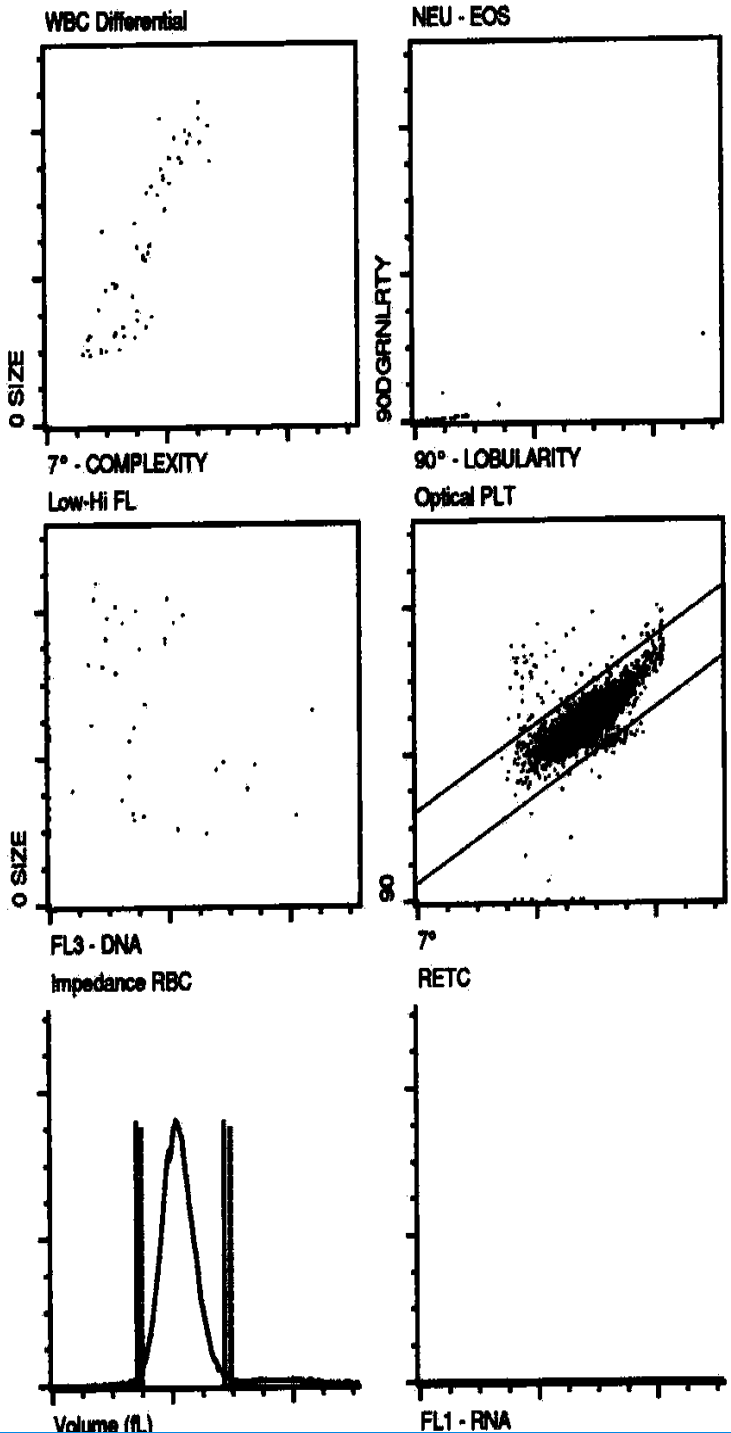
patologický KO



DOB: 14/02/48  
 Sex: F  
 Doctor: 0582/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	<u>.068</u>	10e9/L			
NEU	<u>.006</u>		%N	<u>9.52</u>	
LYM	<u>.045s</u>		%L	<u>66.7s</u>	
MONO	<u>.016s</u>		%M	<u>23.8s</u>	
EOS	0.00		%E	0.00	
BASO	0.00		%B	0.00	

RBC	<u>3.77</u>	10e12/L		
HGB	<u>112.</u>	g/L		
HCT	<u>319</u>	L/L		
MCV	84.8	fL		
MCH	29.8	pg		
MCHC	351.	g/L		
RDW	12.5	%CV		
RETc	---	10e9/L	%R	---
IRF	---			
NRBC	0.00	10e9/L	NRW	0.00
PLT	<u>21.8</u>	10e9/L		
MPV	10.3	fL		

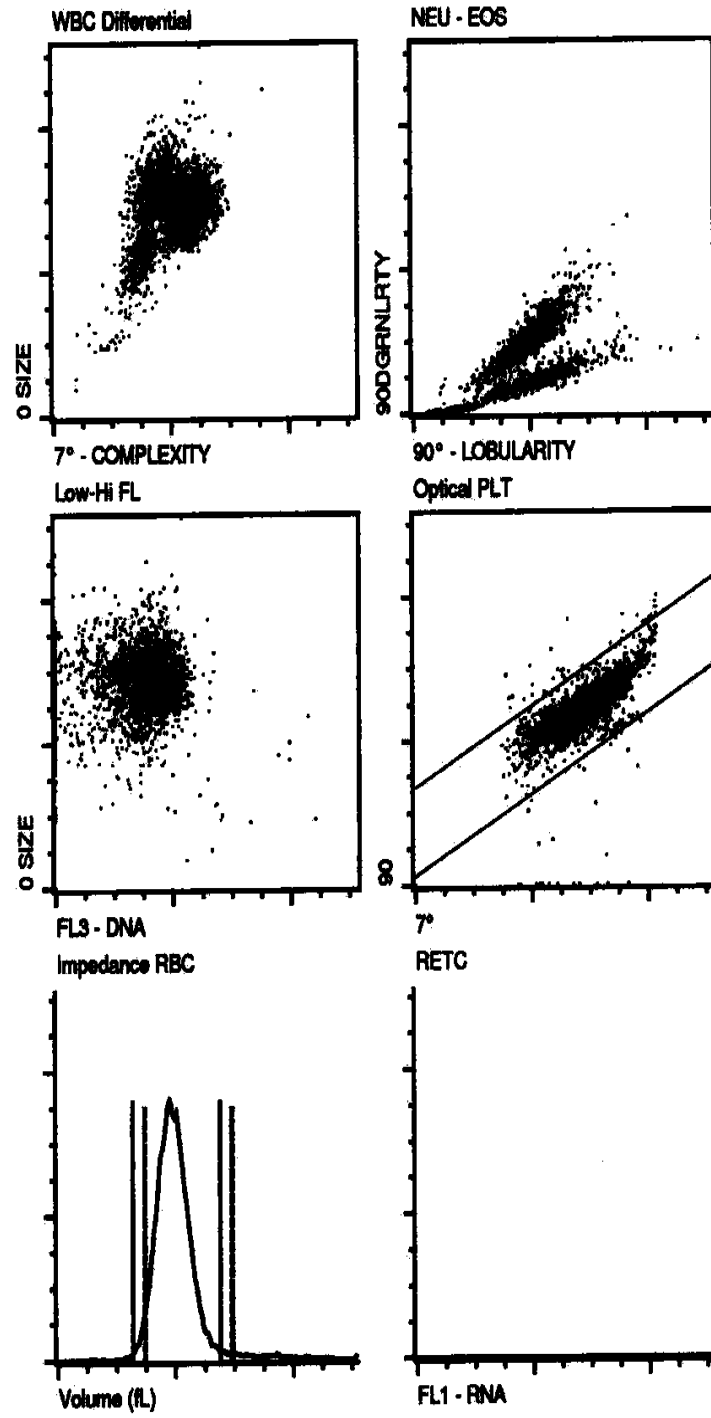


patologický KO

DOB: 22/02/64  
 Sex: F  
 Doctor: 0580/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	<u>3.83</u>	10e9/L	↓	%N	<u>24.4</u>	↓
NEU	<u>935</u>			%L	<u>19.4</u>	↓
LYM	<u>744</u>			%M	<u>18.9s</u>	↑
MONO	<u>724s</u>			%E	<u>37.1</u>	↑
EOS	<u>1.42</u>			%B	<u>.222</u>	
BASO	<u>.008</u>					

RBC	<u>2.96</u>	10e12/L	↓		
HGB	<u>86.1</u>	g/L			
HCT	<u>235</u>	L/L			
MCV	<u>79.2</u>	fL	↓		
MCH	<u>29.1</u>	pg			
MCHC	<u>367.</u>	g/L		✓	
RDW	<u>13.4</u>	%CV			
RETc	---	10e9/L		%R	---
IRF	---				
NRBC	<u>0.00</u>	10e9/L		NR/W	<u>0.00</u>
PLT	<u>24.1</u>	10e9/L	↓		
MPV	<u>9.71</u>	fL			



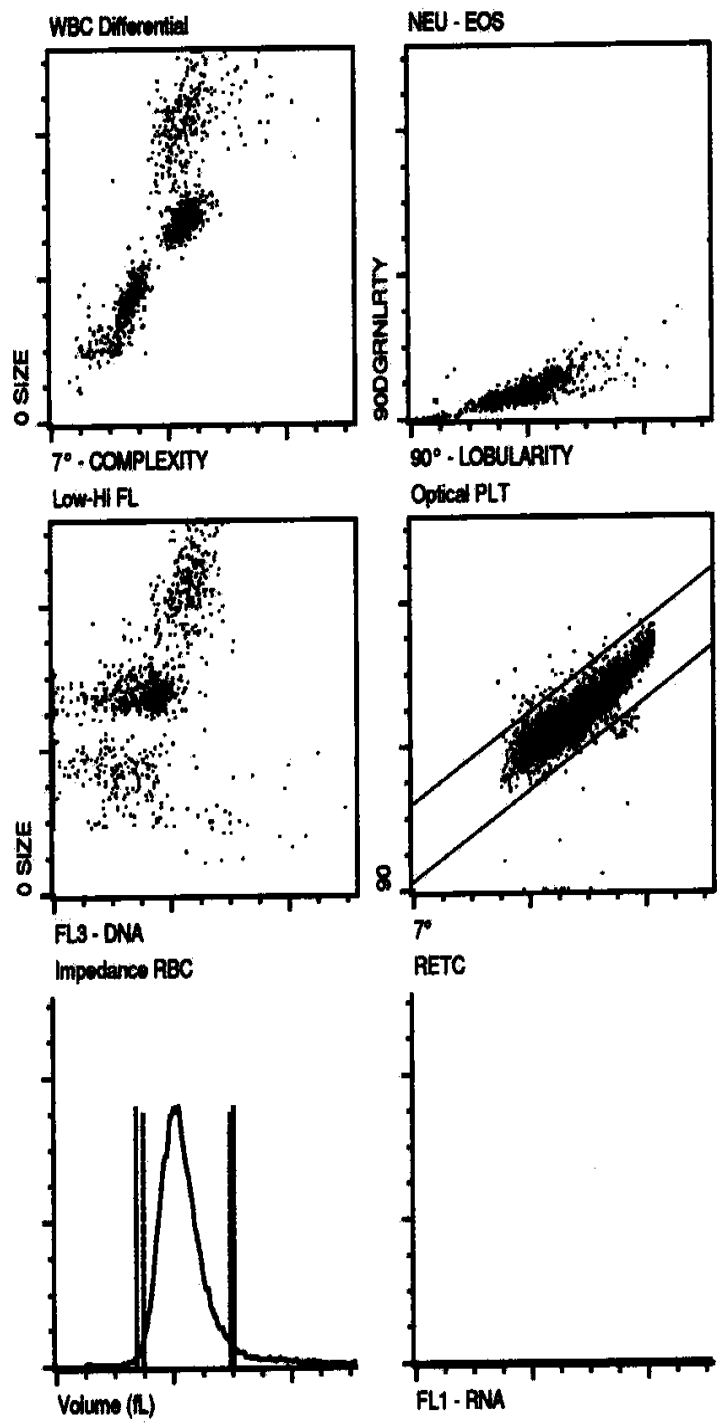
patologický KO

DOB: 19/08/46  
 Sex: M  
 Doctor: 0579/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC 1.68 10e9/L ↓  
 NEU 1.15s %N 68.4s  
 LYM .495 %L 29.5  
 MONO .025 %M 1.49 ✓  
 EOS .007 %E .397  
 BASO .005 %B .298

RBC 3.31 10e12/L ↓  
 HGB 106. g/L  
 HCT .283 L/L ↓  
 MCV 85.4 fL ✓  
 MCH 31.9 pg  
 MCHC 373. g/L  
 RDW 15.1 %CV ↔  
 RETC --- 10e9/L %R ---  
 IRF ---  
 NRBC 0.00 10e9/L NRW 0.00

PLT 58.4 10e9/L ↓  
 MPV 8.47 fL



7M

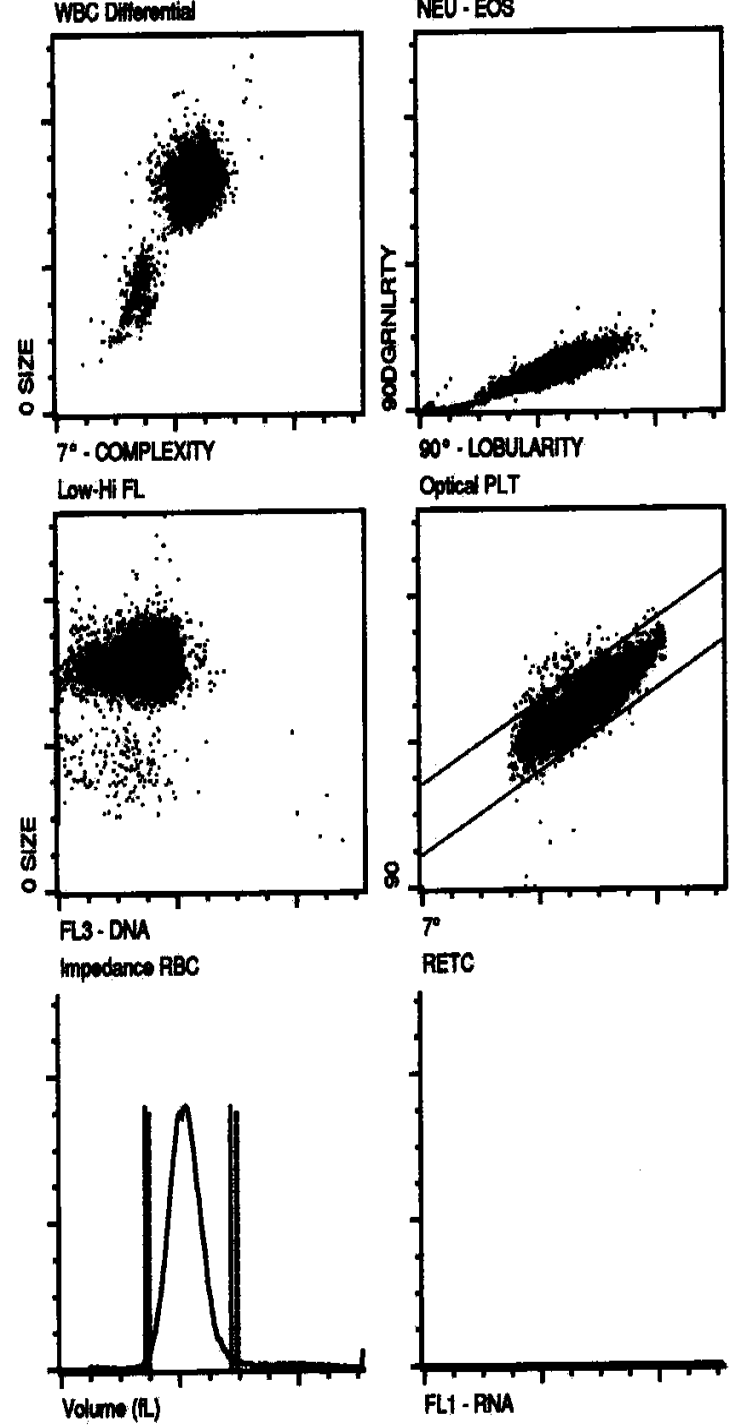
patologický KO

Sex:  
 Doctor:  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	<u>20.1</u>	10e9/L ↑	%N	<u>90.8s</u> ↑
NEU	<u>18.3s</u>		%L	<u>6.88</u> ↓
LYM	1.38		%M	2.17
MONO	.437		%E	.123
EOS	.025		%B	.019
BASO	.004			

RBC	<u>2.77</u>	10e12/L ↓	%R	---
HGB	<u>84.8</u>	g/L		
HCT	<u>235</u>	L/L		
MCV	84.8	fL		
MCH	30.6	pg	✓	
MCHC	361.	g/L		
RDW	12.4	%CV		
RETC	---	10e9/L		
IRF	---			
NRBC	0.00	10e9/L	NRW	0.00

PLT	<u>122.</u>	10e9/L ↓
MPV	<u>7.47</u>	fL



patologický KO

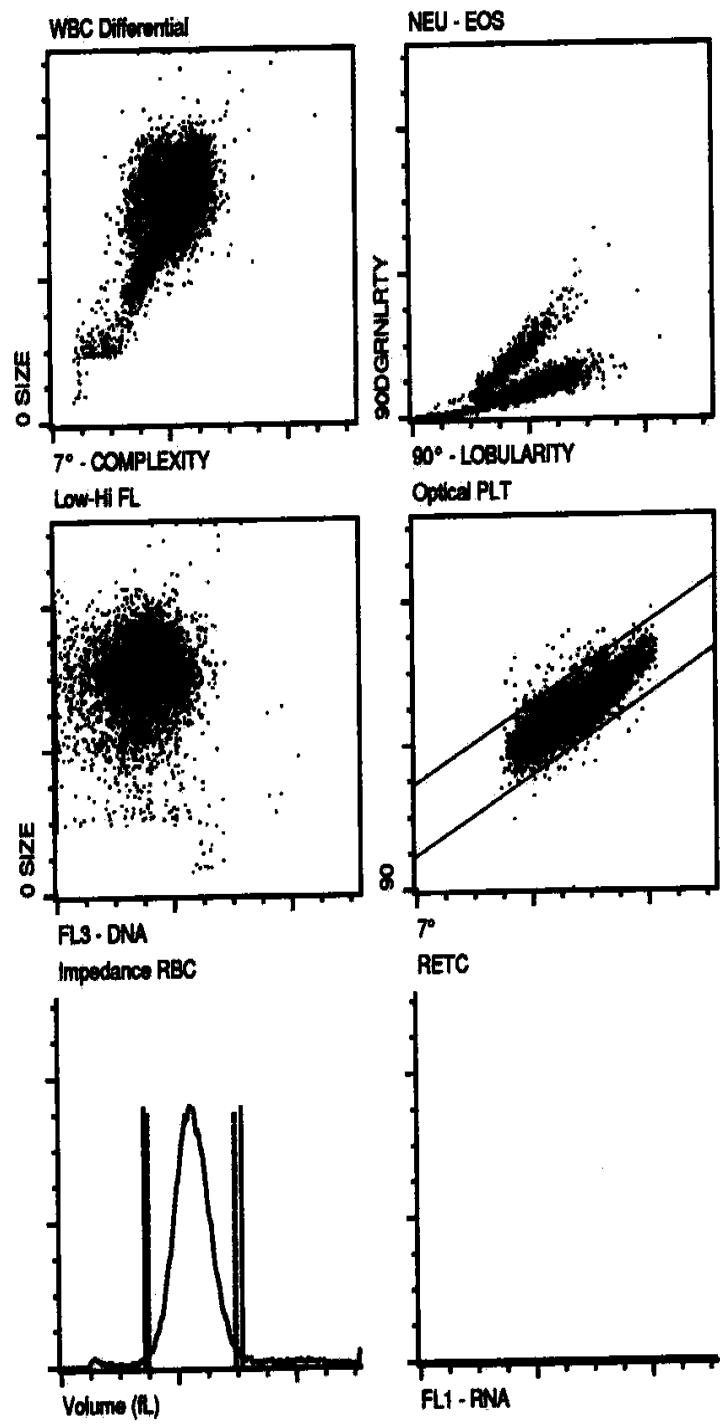


DOB: 13/09/72  
 Sex: M  
 Doctor: 0514/26/04/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

WBC	<u>15.4</u>	10e9/L	↑	%N	64.6	✓
NEU	<u>9.94</u>			%L	<u>12.2</u>	↓
LYM	1.88			%M	<u>13.1</u>	↑
MONO	<u>2.01</u>			%E	<u>9.94</u>	↑
EOS	<u>1.53</u>			%B	.193	
BASO	.030					

RBC	<u>3.27</u>	10e12/L	↓	%R	---
HGB	<u>101</u>	g/L			
HCT	<u>296</u>	L/L			
MCV	90.6	fL			
MCH	30.7	pg			
MCHC	339.	g/L	✓		
RDW	13.2	%CV			
RETc	---	10e9/L			
IRF	---				
NRBC	0.00	10e9/L		NR/W	0.00

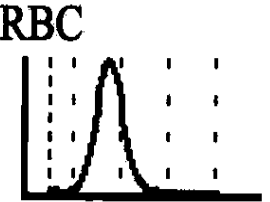
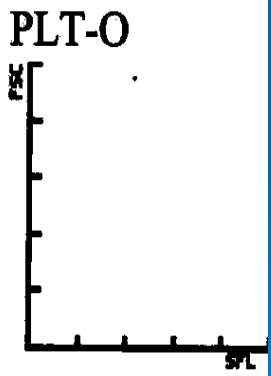
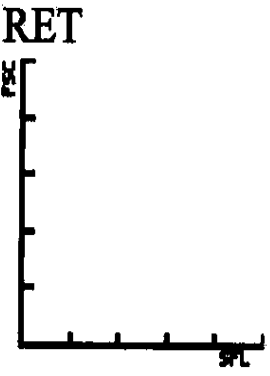
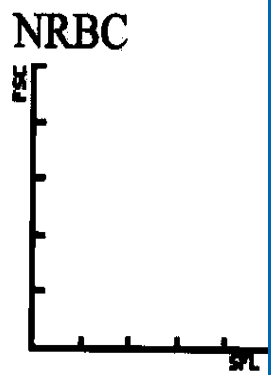
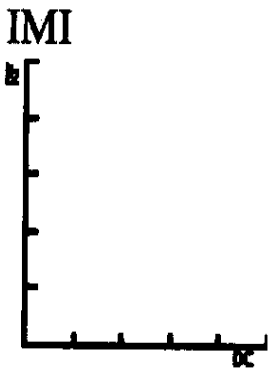
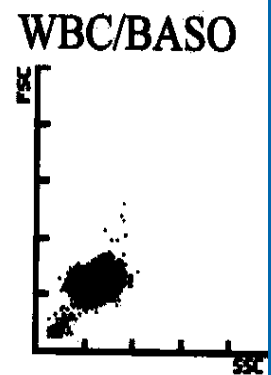
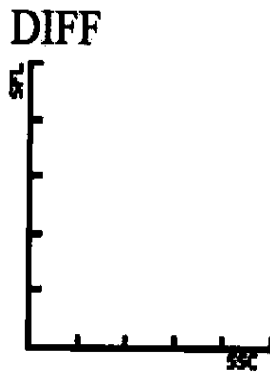
PLT	<u>832</u>	10e9/L	↑
MPV	<u>6.88</u>	fL	



9M

patologický KO

WBC	13.00 +	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		[%]
LYMPH		[10 <sup>9</sup> /L]		[%]
MONO		[10 <sup>9</sup> /L]		[%]
EO		[10 <sup>9</sup> /L]		[%]
BASO		[10 <sup>9</sup> /L]		[%]
IG		[10 <sup>9</sup> /L]		[%]
RBC	3.01 -	[10 <sup>12</sup> /L]	↓	
HGB	89 -	g/L		
HCT	0.267 -	Ratio		
MCV	88.7	fL		
MCH	29.6	pg	✓	
MCHC	333	g/L		
RDW-CV	16.2 +	[%]	↑	
RET		[10 <sup>9</sup> /L]		[%]
IRF		Ratio		
RET-He		pg		
IPF		%		
NRBC		[10 <sup>9</sup> /L]		[/100WBC]
PLT	183 *	[10 <sup>9</sup> /L]	↑	PLT Abn Distribution
MPV	13.3 *	fL	✓	PLT Clumps(S)?
PDW	21.9 *	fL		
PCT	0.24 *	[%]		



patologický KO

Manual Diff	RBC morf.			
SEG	META	NORMAL	MICRO	
BAND	MYELO	POLYCH	MAKRO	
LYMPH	PRO	HYPOCH	ANISO	
MONO	BLAST	POIK	BASOtin	

11M

patologický KO

WBC 0.00 - [10^9/L] ! ↓↓

WBC IP Message(s)

WBC Abn Scattergram

NEUT	[10^9/L]	[%]
LYMPH	[10^9/L]	[%]
MONO	[10^9/L]	[%]
EO	[10^9/L]	[%]
BASO	[10^9/L]	[%]
IG	[10^9/L]	[%]

RBC	2.65 - [10^12/L]	↓
HGB	81 - [g/L]	
HCT	0.236 - [Ratio]	↓
MCV	89.1 [fL]	
MCH	30.6 [pg]	
MCHC	343 [g/L]	✓
RDW-CV	13.6 [%]	

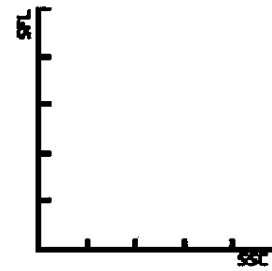
RET	[10^9/L]	[%]
IRF	[Ratio]	

NRBC [10^9/L] [/100WBC]

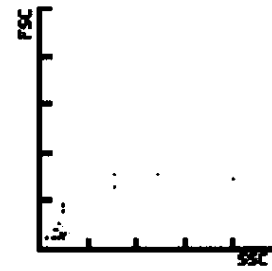
Thrombocytopenia

PLT	30 - [10^9/L]	↓
MPV	10.2 [fL]	
PDW	11.5 [fL]	
PCT	0.003 - [L/L]	✓

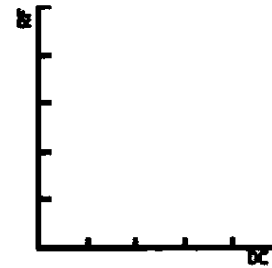
DIFF



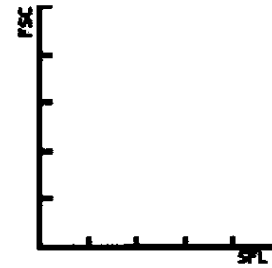
WBC/BASO



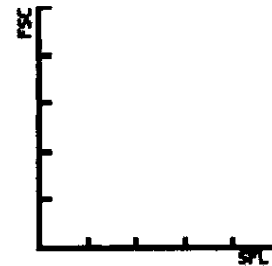
IMI



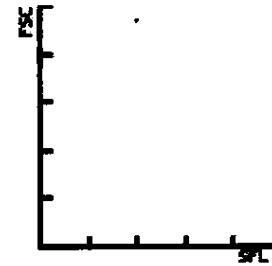
NRBC



RET



PLT-O



Manual Diff

RBC morf.

SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

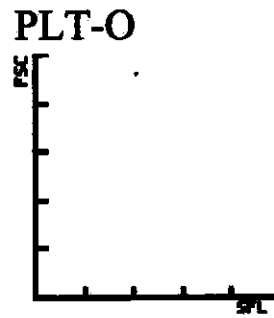
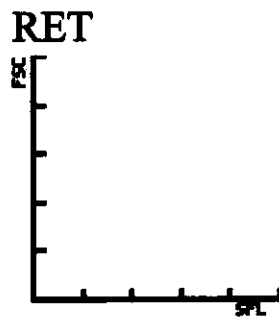
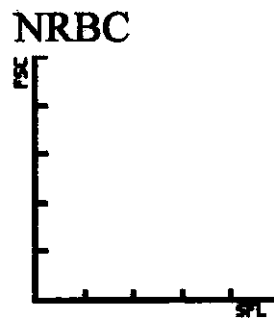
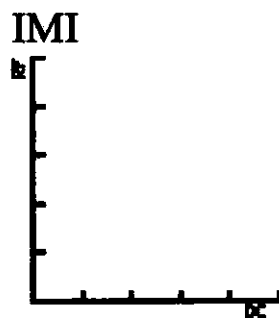
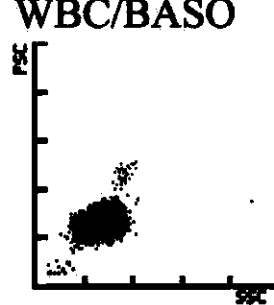
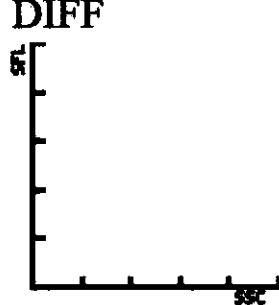
RBC



PLT



WBC	5.72	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		
LYMPH		[10 <sup>9</sup> /L]		
MONO		[10 <sup>9</sup> /L]		
EO		[10 <sup>9</sup> /L]		
BASO		[10 <sup>9</sup> /L]		
IG		[10 <sup>9</sup> /L]		
RBC	3.99	- [10 <sup>12</sup> /L]	↔	
HGB	103	- [g/L]		
HCT	0.320	- [Ratio]		Microcytosis
MCV	80.2	- [fL]	↓	
MCH	25.8	- [pg]		
MCHC	322	- [g/L]	✓	
RDW-CV	13.8	- [%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC		[10 <sup>9</sup> /L]		[/100WBC]
PLT	424	+ [10 <sup>9</sup> /L]	↑	
MPV	10.6	- [fL]		
PDW	12.6	- [fL]		
PCT	0.45	+ [%]	✓	



12M

patologický KO

Manual Diff

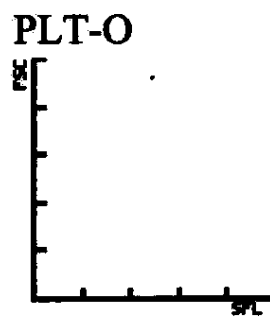
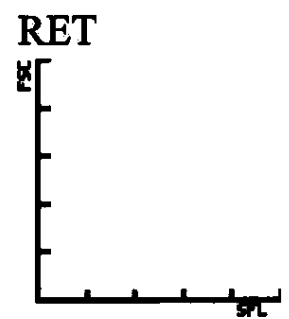
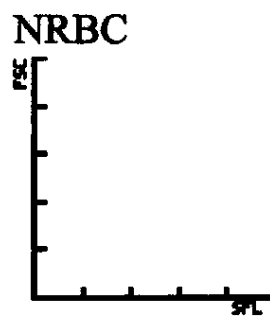
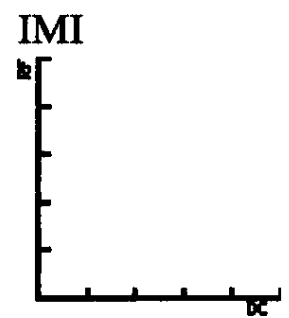
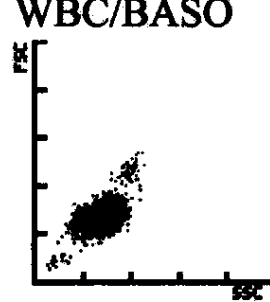
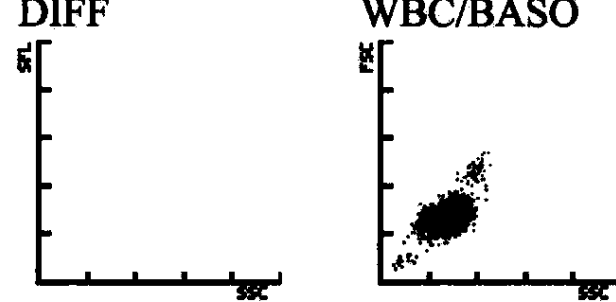
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_



WBC	8.35	[10 <sup>9</sup> /L]	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]	[%]
LYMPH		[10 <sup>9</sup> /L]	[%]
MONO		[10 <sup>9</sup> /L]	[%]
EO		[10 <sup>9</sup> /L]	[%]
BASO		[10 <sup>9</sup> /L]	[%]
IG		[10 <sup>9</sup> /L]	[%]
RBC	4.90	[10 <sup>12</sup> /L]	
HGB	145	[g/L]	
HCT	0.422	[Ratio]	
MCV	86.1	[fL]	
MCH	29.6	[pg]	
MCHC	344	[g/L]	
RDW-CV	14.6	[%]	
RET		[10 <sup>9</sup> /L]	[%]
IRF		[Ratio]	
RET-He		[pg]	
IPF		[%]	
NRBC		[10 <sup>9</sup> /L]	[/100WBC]
PLT	224	[10 <sup>9</sup> /L]	
MPV	9.7	[fL]	
PDW	10.9	[fL]	
PCT	0.22	[%]	



13M

patologický KO

Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

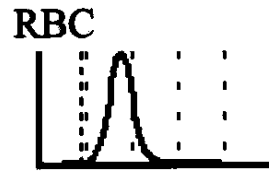
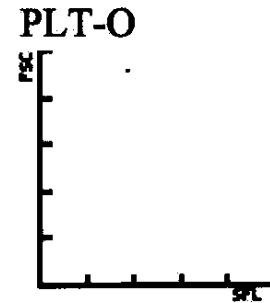
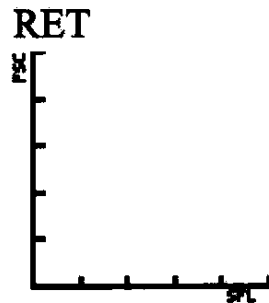
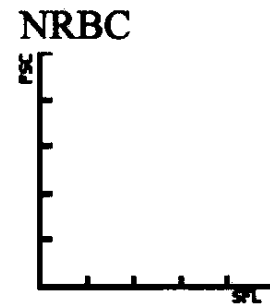
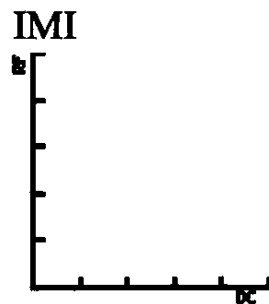
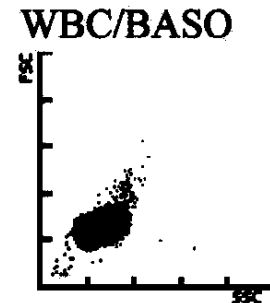
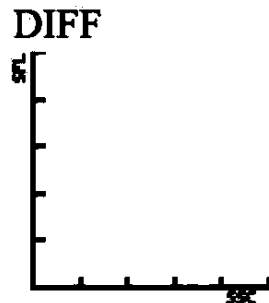
PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

patologický KO

WBC	7.58	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		
LYMPH		[10 <sup>9</sup> /L]		
MONO		[10 <sup>9</sup> /L]		
EO		[10 <sup>9</sup> /L]		
BASO		[10 <sup>9</sup> /L]		
IG		[10 <sup>9</sup> /L]		
RBC	2.80	- [10 <sup>12</sup> /L]	↓	
HGB	79	- [g/L]		
HCT	0.249	- [Ratio]		
MCV	88.9	[fL]	✓	
MCH	28.2	[pg]	✓	
MCHC	317	- [g/L]	↓	
RDW-CV	14.5	[%]	✓	
RET		[10 <sup>9</sup> /L]		
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC		[10 <sup>9</sup> /L]		
				[/100WBC]
PLT	634	+ [10 <sup>9</sup> /L]	↑	
MPV	9.4	[fL]		
PDW	10.1	- [fL]	✓	
PCT	0.60	+ [%]		



Manual Diff

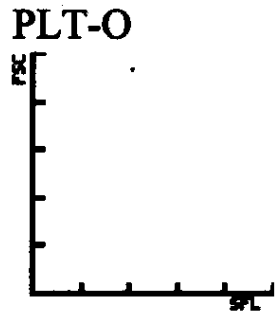
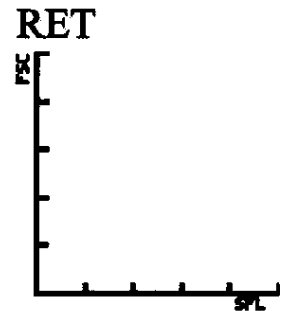
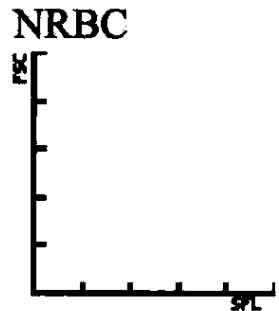
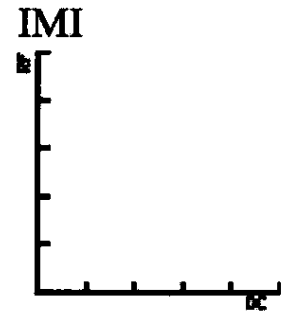
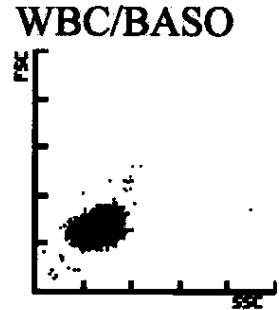
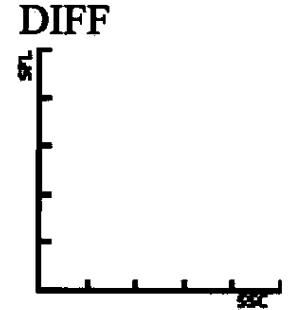
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

RBC morf.

WBC	7.76	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		
LYMPH		[10 <sup>9</sup> /L]		
MONO		[10 <sup>9</sup> /L]		
EO		[10 <sup>9</sup> /L]		
BASO		[10 <sup>9</sup> /L]		
IG		[10 <sup>9</sup> /L]		
RBC	3.88	[10 <sup>12</sup> /L]	✓	
HGB	113	g/L		
HCT	0.325	Ratio	↓	Microcytosis
MCV	83.8	fL		
MCH	29.1	pg		
MCHC	348	g/L	✓	
RDW-CV	14.3	%		
RET		[10 <sup>9</sup> /L]		
IRF		Ratio		
RET-He		pg		
IPF		%		
NRBC		[10 <sup>9</sup> /L]		[/100WBC]
PLT	215	[10 <sup>9</sup> /L]		
MPV	11.0	fL		
PDW	13.5	fL	✓	
PCT	0.24	%		



Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

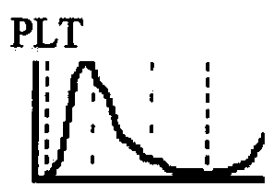
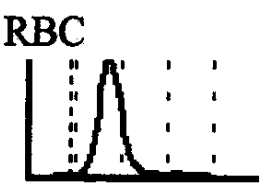
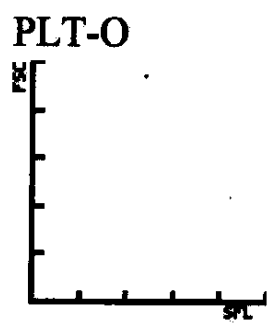
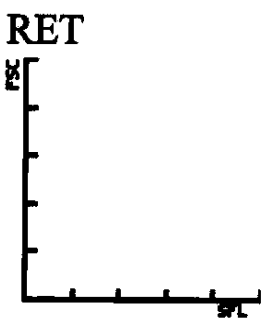
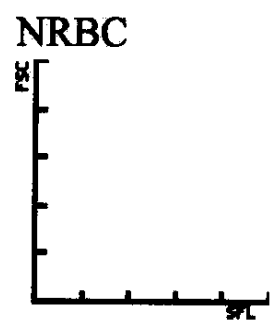
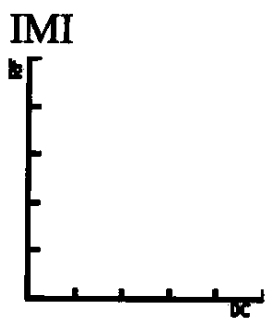
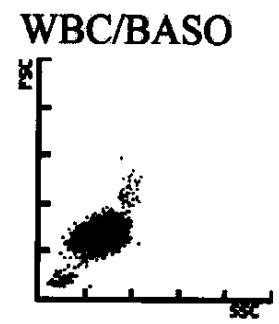
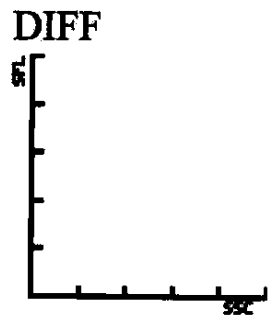
PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

patologický KO

WBC	16.62 +	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		
LYMPH		[10 <sup>9</sup> /L]		
MONO		[10 <sup>9</sup> /L]		
EO		[10 <sup>9</sup> /L]		
BASO		[10 <sup>9</sup> /L]		
IG		[10 <sup>9</sup> /L]		
RBC	4.40	[10 <sup>12</sup> /L]		
HGB	130	[g/L]		
HCT	0.388 -	[Ratio]		
MCV	88.2	[fL]	✓	
MCH	29.5	[pg]		
MCHC	335	[g/L]		
RDW-CV	13.5	[%]		
RET		[10 <sup>9</sup> /L]		
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC		[10 <sup>9</sup> /L]		
				[/100WBC]
PLT	249	[10 <sup>9</sup> /L]		
MPV	11.7 +	[fL]		
PDW	14.5 -	[fL]	✓	
PCT	0.29	[%]		



Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

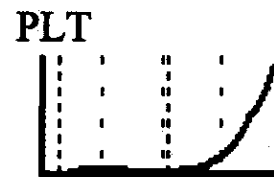
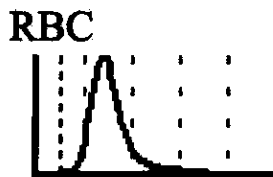
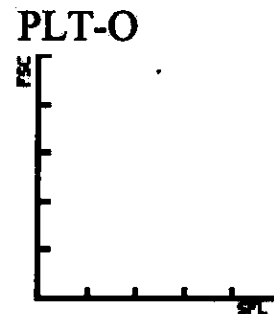
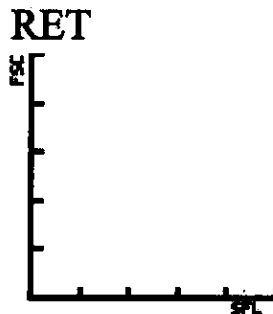
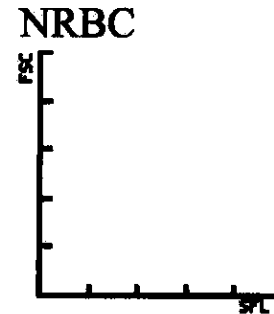
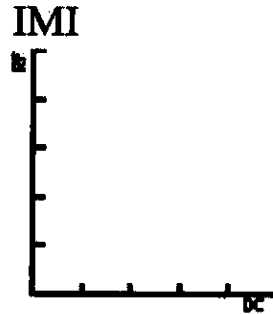
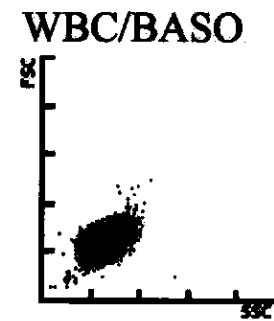
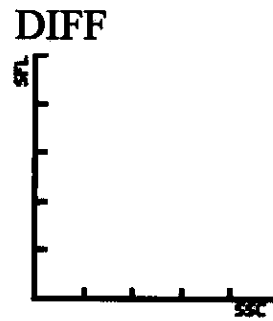
patologický KO



patologický KO

WBC	13.54 +	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		
LYMPH		[10 <sup>9</sup> /L]		
MONO		[10 <sup>9</sup> /L]		
EO		[10 <sup>9</sup> /L]		
BASO		[10 <sup>9</sup> /L]		
IG		[10 <sup>9</sup> /L]		
RBC	4.08	[10 <sup>12</sup> /L]		
HGB	92 -	[g/L]		
HCT	0.304 -	[Ratio]		
MCV	74.5 -	[fL]		
MCH	22.5 -	[pg]		
MCHC	303 -	[g/L]		
RDW-CV	21.1 +	[%]		
RET		[10 <sup>9</sup> /L]		
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC		[/100WBC]		
PLT	45 *	[10 <sup>9</sup> /L]		
MPV	---	[fL]		
PDW	---	[fL]		
PCT	---	[%]		

Anisocytosis  
 Microcytosis  
 Iron Deficiency?  
 PLT Abn Distribution  
 Thrombocytopenia



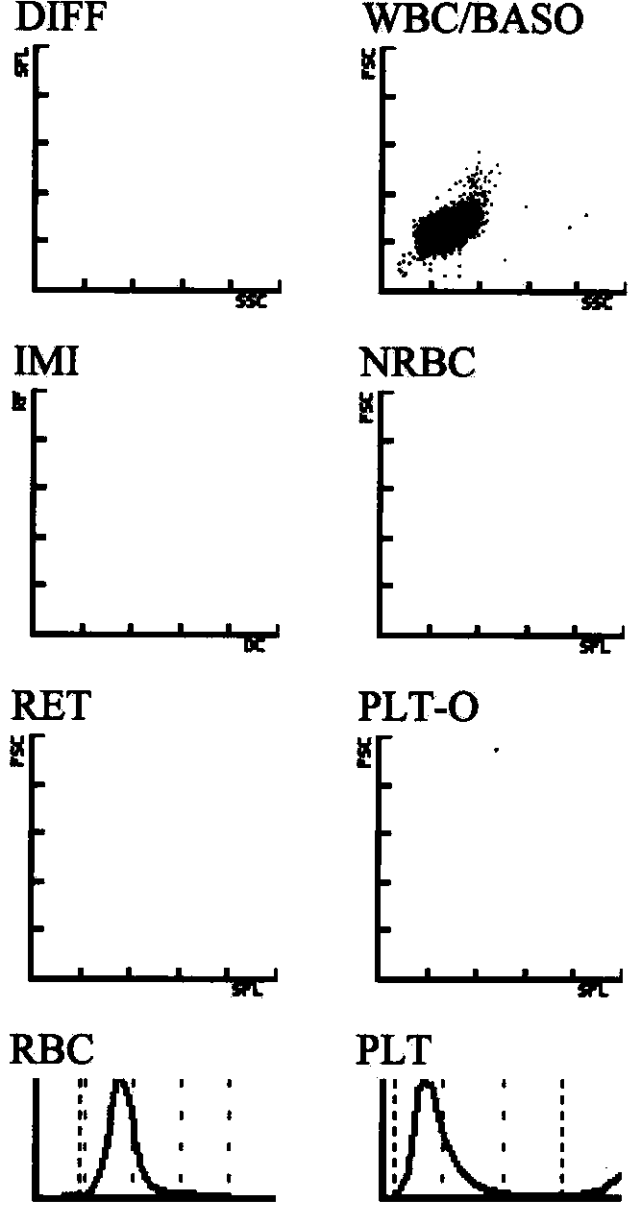
Manual Diff	RBC morf.
SEG _____ META _____ NORMAL _____ MICRO _____	
BAND _____ MYELO _____ POLYCH _____ MAKRO _____	
LYMPH _____ PRO _____ HYPOCH _____ ANISO _____	
MONO _____ BLAST _____ POIK _____ BASOtip _____	
EOSIN _____ VARLY _____ TARGET _____	
BASO _____ TOXgran _____ SPHERO _____ NRBC _____	
PLT EST _____ PLT morf _____	

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

patologický KO

WBC	16.44 +	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		[%]
LYMPH		[10 <sup>9</sup> /L]		[%]
MONO		[10 <sup>9</sup> /L]		[%]
EO		[10 <sup>9</sup> /L]		[%]
BASO		[10 <sup>9</sup> /L]		[%]
IG		[10 <sup>9</sup> /L]		[%]
RBC	3.09 -	[10 <sup>12</sup> /L]	↓	
HGB	91 -	[g/L]		
HCT	0.279 -	[Ratio]		
MCV	90.3	[fL]		
MCH	29.4	[pg]	✓	
MCHC	326	[g/L]		
RDW-CV	15.3 +	[%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC		[10 <sup>9</sup> /L]		[/100WBC]
PLT	317	[10 <sup>9</sup> /L]	✓	
MPV	9.3	[fL]		
PDW	9.6 -	[fL]		
PCT	0.29	[%]		

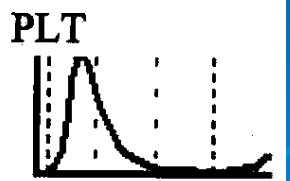
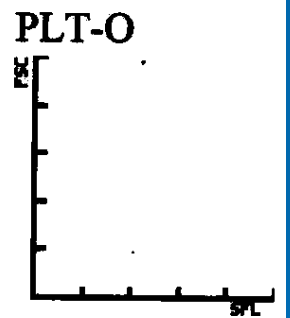
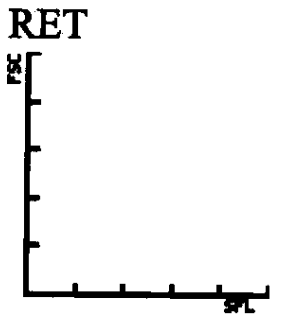
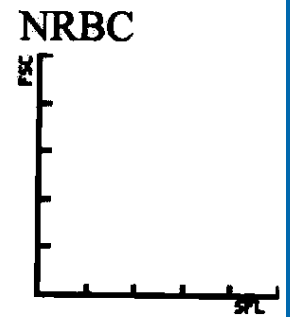
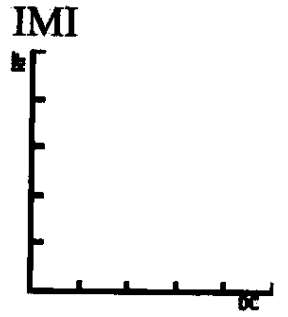
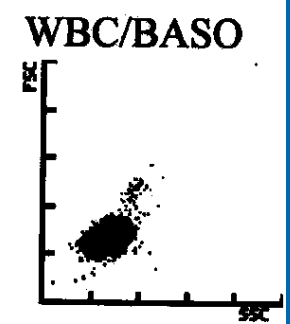
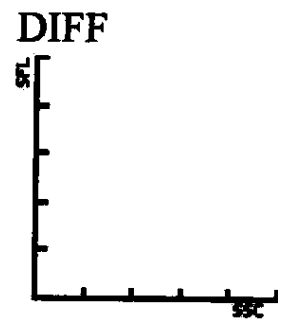


Manual Diff

SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

Comment: \_\_\_\_\_  
 DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

WBC	4.81	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT		[10 <sup>9</sup> /L]		
LYMPH		[10 <sup>9</sup> /L]		
MONO		[10 <sup>9</sup> /L]		
EO		[10 <sup>9</sup> /L]		
BASO		[10 <sup>9</sup> /L]		
IG		[10 <sup>9</sup> /L]		
RBC	4.03	[10 <sup>12</sup> /L]	↔	
HGB	126	[g/L]		
HCT	0.369	[Ratio]	↓	
MCV	91.6	[fL]		
MCH	31.3	[pg]		
MCHC	341	[g/L]	✓	
RDW-CV	13.3	[%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC		[10 <sup>9</sup> /L]		[/100WBC]
PLT	255	[10 <sup>9</sup> /L]		
MPV	10.0	[fL]		
PDW	10.5	[fL]	✓	
PCT	0.26	[%]		



patologický KO

Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

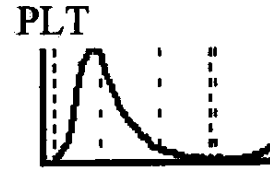
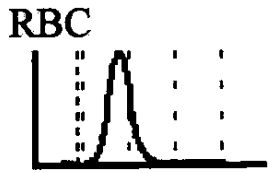
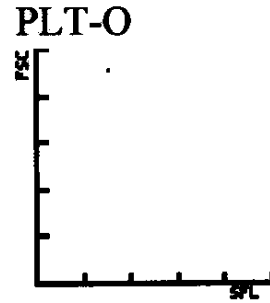
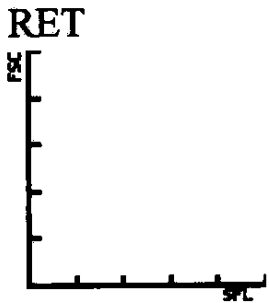
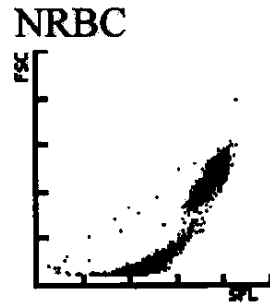
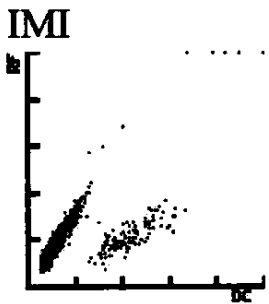
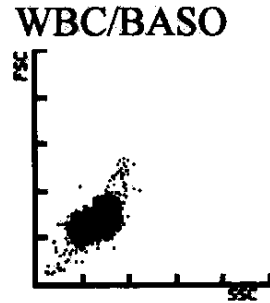
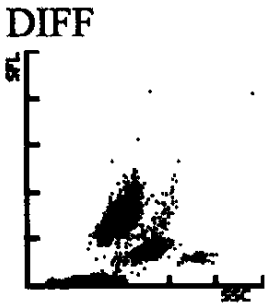
BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

WBC	8.07	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT	5.80	[10 <sup>9</sup> /L]	71.9	[%]
LYMPH	1.13	[10 <sup>9</sup> /L]	14.0	[%]
MONO	0.96	[10 <sup>9</sup> /L]	11.9	[%]
EO	0.14	[10 <sup>9</sup> /L]	1.7	[%]
BASO	0.04	[10 <sup>9</sup> /L]	0.5	[%]
IG	0.15	[10 <sup>9</sup> /L]	1.9	[%]
RBC	4.67	[10 <sup>12</sup> /L]		
HGB	141	[g/L]		
HCT	0.424	[Ratio]		
MCV	90.8	[fL]	✓	
MCH	30.2	[pg]		
MCHC	333	[g/L]		
RDW-CV	12.7	[%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
NRBC	0.00	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	314	[10 <sup>9</sup> /L]		
MPV	11.0	[fL]	✓	
PDW	13.9	[fL]		
PCT	0.035	[L/L]		



21M (41r.)

patologický KO

Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_



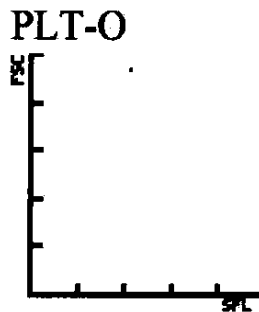
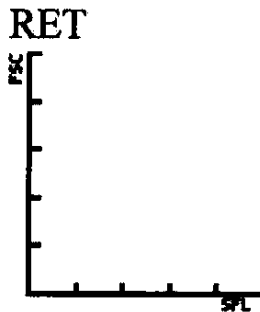
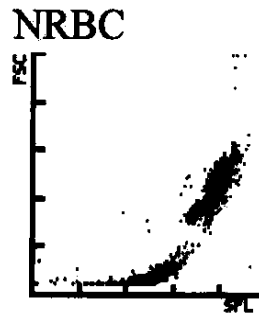
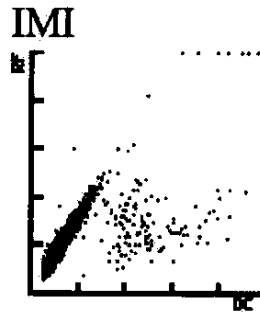
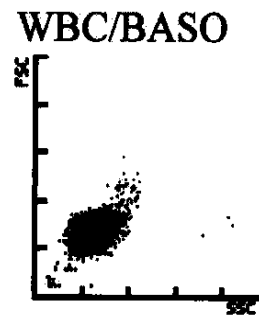
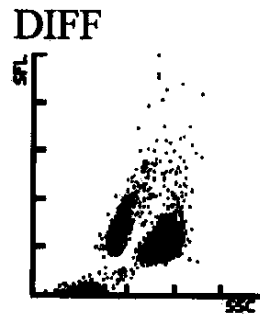
22F (80r.)

patologický KO

WBC	16.57	+	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT	14.92	*	[10 <sup>9</sup> /L]	90.1	*[%]
LYMPH	1.38		[10 <sup>9</sup> /L]	8.3	[%]
MONO	0.24		[10 <sup>9</sup> /L]	1.4	[%]
EO	0.00	*	[10 <sup>9</sup> /L]	0.0	[%]
BASO	0.03		[10 <sup>9</sup> /L]	0.2	[%]
IG	0.18		[10 <sup>9</sup> /L]	1.1	[%]
RBC	3.71	-	[10 <sup>12</sup> /L]		
HGB	100	-	[g/L]		
HCT	0.324	-	[Ratio]		
MCV	87.3		[fL]		
MCH	27.0		[pg]		
MCHC	309	-	[g/L]		
RDW-CV	18.5	+	[%]		
RET			[10 <sup>9</sup> /L]		[%]
IRF			[Ratio]		[%]
NRBC	0.00		[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	184		[10 <sup>9</sup> /L]		
MPV	9.9		[fL]		
PDW	11.5		[%]		
PCT	0.018		[L/L]		

Anisocytosis

Left Shift?



Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

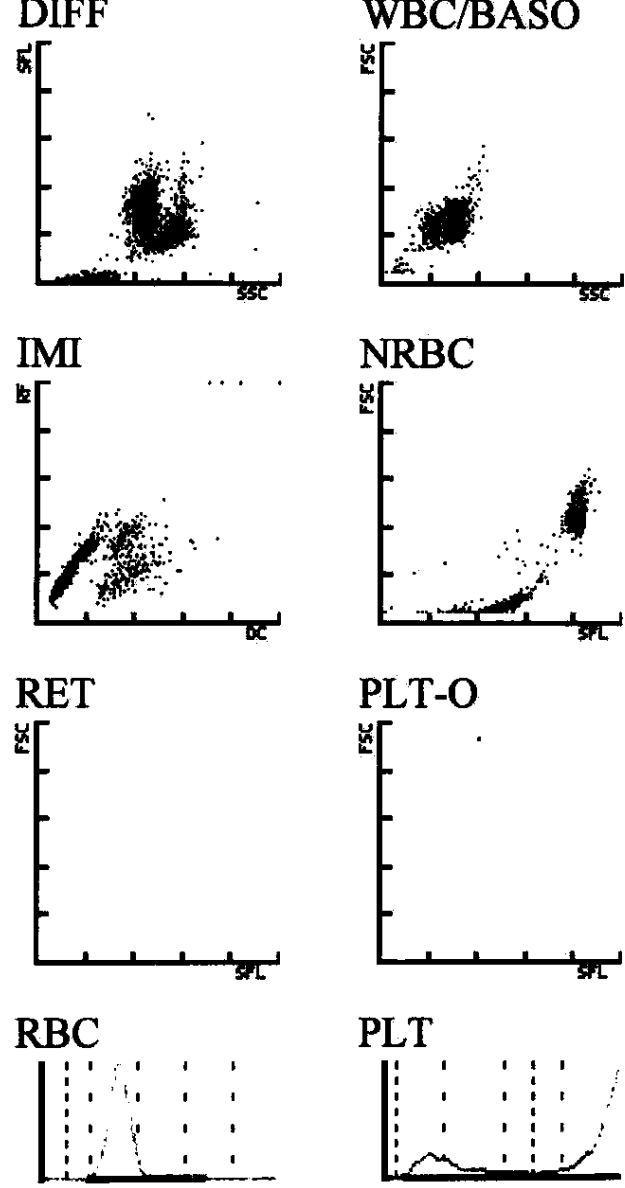
PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

WBC	4.12	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT	1.86	[10 <sup>9</sup> /L]	45.2	Monocytosis
LYMPH	0.67	[10 <sup>9</sup> /L]	16.3	IG Present
MONO	1.57	[10 <sup>9</sup> /L]	38.1	↑
EO	0.01	[10 <sup>9</sup> /L]	0.2	✓
BASO	0.01	[10 <sup>9</sup> /L]	0.2	✓
IG	0.18	[10 <sup>9</sup> /L]	4.4	↑
RBC	3.05	[10 <sup>12</sup> /L]		
HGB	88	[g/L]		↓
HCT	0.248	[Ratio]		
MCV	81.3	[fL]		
MCH	28.9	[pg]		
MCHC	355	[g/L]		✓
RDW-CV	12.9	[%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
NRBC	0.00	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	21	[10 <sup>9</sup> /L]		↓
MPV	11.1	[fL]		
PDW	14.2	[fL]		
PCT	0.002	[L/L]		✓

Thrombocytopenia



23F (20r.)

patologický KO

Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

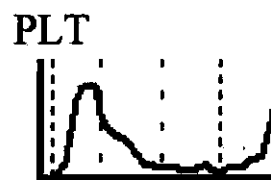
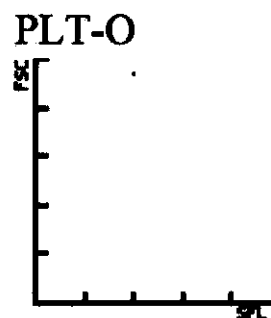
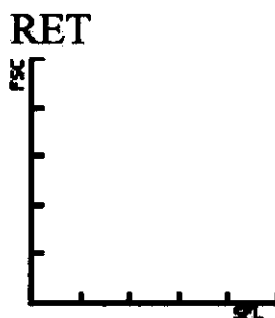
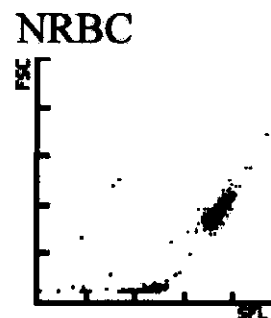
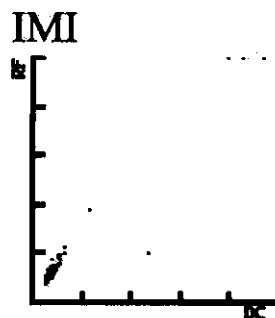
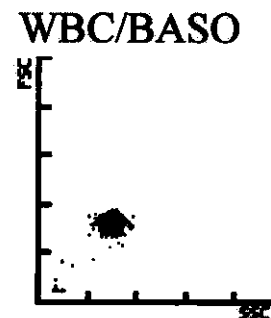
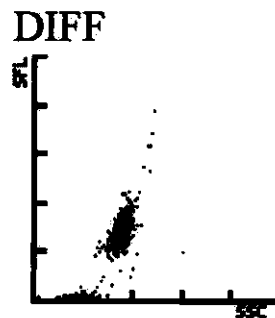
PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

24M (29r.)

WBC	1.27	-	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT	0.00	-	[10 <sup>9</sup> /L]	0.0	-
LYMPH	1.25	-	[10 <sup>9</sup> /L]	98.4	+ [%] ↑ Lymphocytosis X
MONO	0.02	-	[10 <sup>9</sup> /L]	1.6	- [%]
EO	0.00	-	[10 <sup>9</sup> /L]	0.0	- [%]
BASO	0.00	-	[10 <sup>9</sup> /L]	0.0	- [%]
IG	0.00	-	[10 <sup>9</sup> /L]	0.0	- [%]
RBC	2.81	-	[10 <sup>12</sup> /L]		
HGB	89	-	[g/L]		
HCT	0.256	-	[Ratio]		
MCV	91.1		[fL]		
MCH	31.7		[pg]		
MCHC	348		[g/L]		
RDW-CV	17.3	+	[%]		
RET			[10 <sup>9</sup> /L]		[%]
IRF			[Ratio]		
NRBC	0.00	-	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	37	-	[10 <sup>9</sup> /L]		Thrombocytopenia ↓
MPV	11.4		[fL]		
PDW	12.3		[fL]		
PCT	0.004	-	[L/L]		



patologický KO

Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

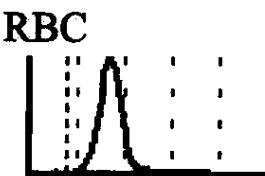
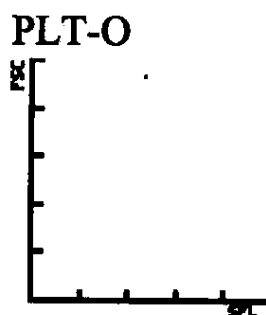
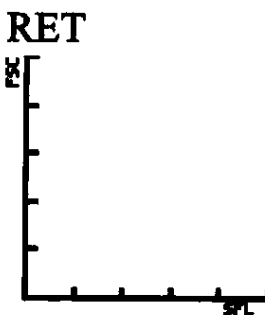
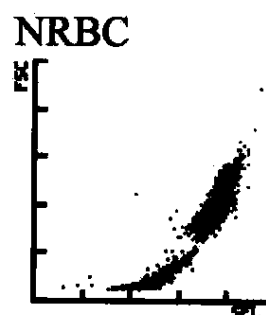
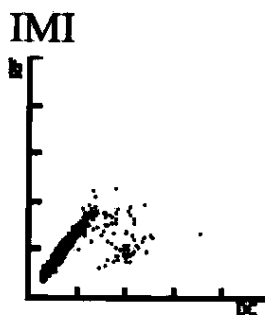
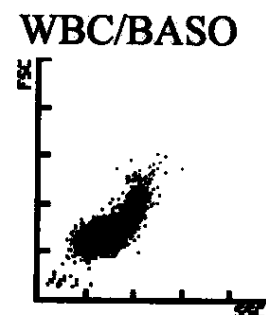
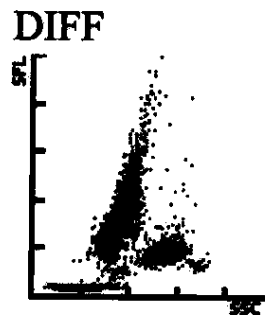
Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

26F (39r.)

patologický KO

WBC	7.77	[10 <sup>9</sup> /L]	✓	WBC IP Message(s) Lymphocytosis
NEUT	2.26 *	[10 <sup>9</sup> /L]	29.1 * [%]	↓ Atypical Lympho?
LYMPH	4.46 *	[10 <sup>9</sup> /L]	57.4 * [%]	↑ Abn Lympho/L_Blasts?
MONO	0.73 *	[10 <sup>9</sup> /L]	9.4 * [%]	✓
EO	0.05	[10 <sup>9</sup> /L]	0.6 [%]	✓
BASO	0.27 +	[10 <sup>9</sup> /L]	3.5 + [%]	↑
IG	0.05	[10 <sup>9</sup> /L]	0.6 [%]	↑
RBC	4.27	[10 <sup>12</sup> /L]		
HGB	124 -	[g/L]		
HCT	0.364 -	[Ratio]		
MCV	85.2	[fL]	✓	
MCH	29.0	[pg]		
MCHC	341	[g/L]		
RDW-CV	13.1	[%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC	0.00	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	160	[10 <sup>9</sup> /L]		
MPV	10.3	[fL]	✓	
PDW	11.9 -	[%]		
PCT	0.16	[%]		



Manual Diff

SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

Comment: \_\_\_\_\_

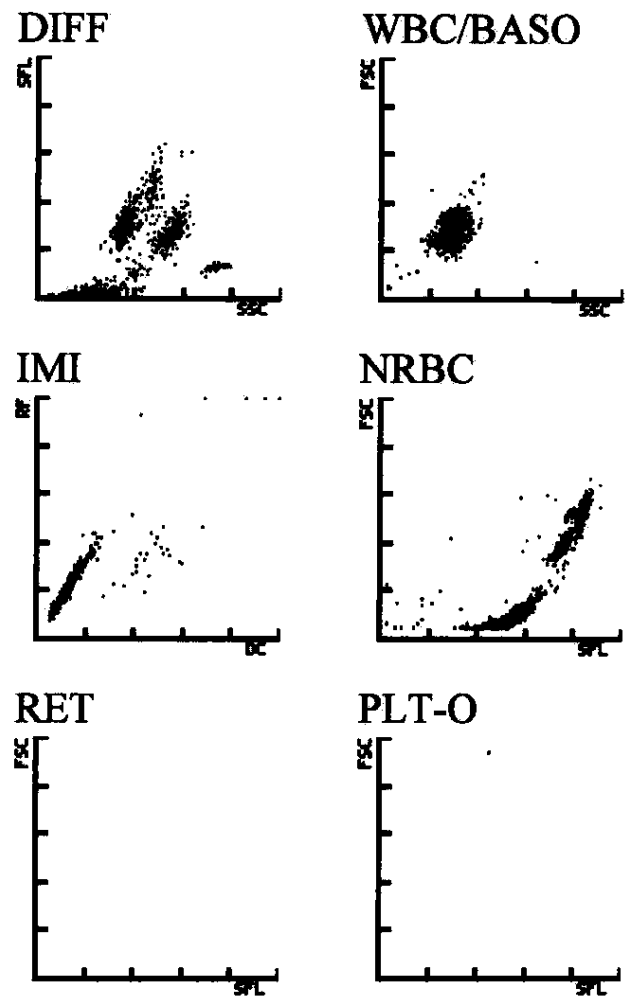
DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

RBC morf.

27F (37r.)

patologický KO

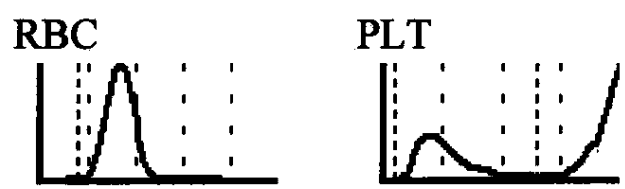
WBC	1.46	-	[10^9/L]	↓	WBC IP Message(s)
NEUT	0.53	*	[10^9/L]	36.3	*[%]
LYMPH	0.70	-	[10^9/L]	47.9	*[%]
MONO	0.15	-	[10^9/L]	10.3	*[%]
EO	0.06	*	[10^9/L]	4.1	*[%]
BASO	0.02	*	[10^9/L]	1.4	*[%]
IG	0.00	*	[10^9/L]	0.0	*[%]
RBC	3.06	-	[10^12/L]	↓	
HGB	85	-	[g/L]		
HCT	0.257	-	[Ratio]	↓	
MCV	84.0	-	[fL]	↑	
MCH	27.8	-	[pg]		
MCHC	331	-	[g/L]		
RDW-CV	16.7	+	[%]	↑	
RET			[10^9/L]		[%]
IRF			[Ratio]		
NRBC	0.00		[10^9/L]	0.0	[/100WBC]
PLT	65	-	[10^9/L]	↓	Thrombocytopenia
MPV	10.6	-	[fL]		
PDW	14.4	-	[fL]		
PCT	0.007	-	[L/L]	↑	



Manual Diff

SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

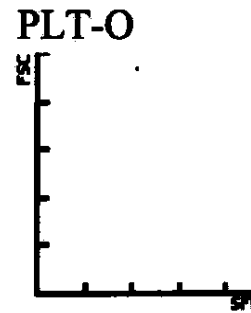
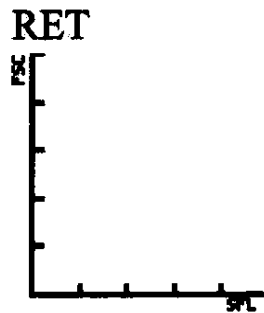
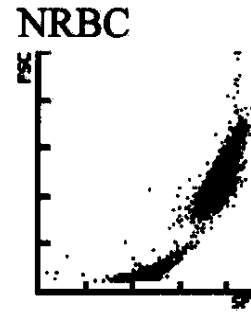
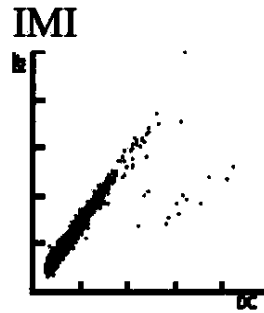
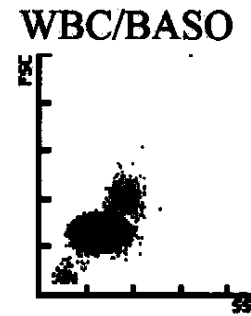
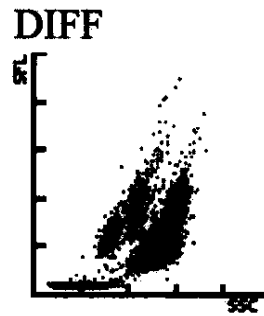
Comment: \_\_\_\_\_  
RBC morf. \_\_\_\_\_  
DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_



28M (56r.)

patologický KO

WBC	39.62 +	[10 <sup>9</sup> /L]	↑	WBC IP Message(s)
NEUT	37.95 *	[10 <sup>9</sup> /L]	95.8 *	IG Present ↑
LYMPH	0.68 -	[10 <sup>9</sup> /L]	1.7 -	Left Shift? ↓
MONO	0.78	[10 <sup>9</sup> /L]	2.0	
EO	0.00 *	[10 <sup>9</sup> /L]	0.0 *	✓
BASO	0.21 +	[10 <sup>9</sup> /L]	0.5	
IG	3.20	[10 <sup>9</sup> /L]	8.1	↑
RBC	4.54	[10 <sup>12</sup> /L]		
HGB	144 *	[g/L]		
HCT	0.387 -	[Ratio]	✓	
MCV	85.2	[fL]		
MCH	31.7 *	[pg]		
MCHC	372 *	[g/L]		Turbidity/HGB Interf?
RDW-CV	13.6	[%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC	0.00	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	140 -	[10 <sup>9</sup> /L]	↓	
MPV	11.1 +	[fL]		
PDW	13.4 -	[fL]	✓	
PCT	0.16	[%]		



Manual Diff

RBC morf.

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

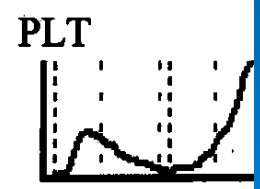
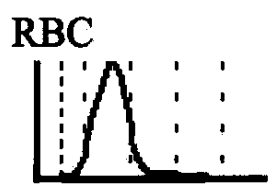
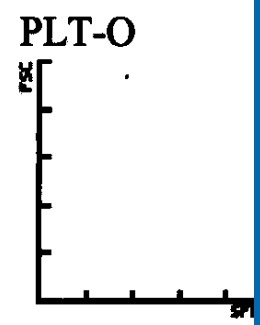
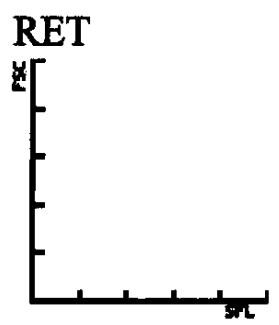
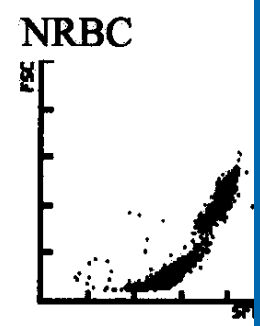
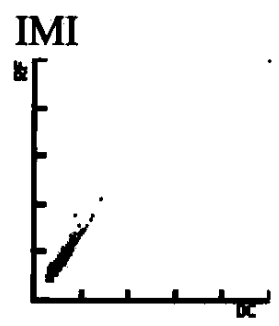
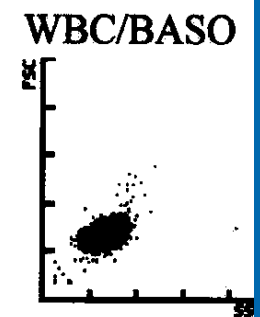
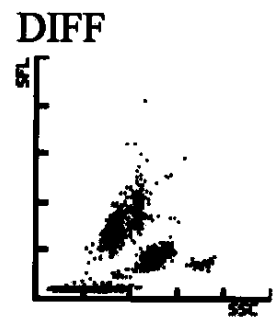
Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

29F (24r.)

patologický KO

WBC	3.01	-	[10 <sup>9</sup> /L]	↓	WBC IP Message(s)
NEUT	1.64	-	[10 <sup>9</sup> /L]	54.5	✓
LYMPH	0.96	-	[10 <sup>9</sup> /L]	31.9	
MONO	0.33	-	[10 <sup>9</sup> /L]	11.0	
EO	0.07	-	[10 <sup>9</sup> /L]	2.3	
BASO	0.01	-	[10 <sup>9</sup> /L]	0.3	
IG	0.01	-	[10 <sup>9</sup> /L]	0.3	
RBC	3.91	-	[10 <sup>12</sup> /L]	✓	Anisocytosis Microcytosis
HGB	98	-	[g/L]		
HCT	0.309	-	[Ratio]	↓	
MCV	79.0	-	[fL]		
MCH	25.1	-	[pg]		
MCHC	317	-	[g/L]	↓	
RDW-CV	20.4	+	[%]	✓	
RET			[10 <sup>9</sup> /L]		[%]
IRF			[Ratio]		
RET-He			[pg]		
IPF			[%]		
NRBC	0.00		[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	156	*	[10 <sup>9</sup> /L]	↔	PLT Abn Distribution
MPV	10.9	*	[fL]		
PDW	16.2	*	[fL]		
PCT	0.17	*	[%]	✓	



Manual Diff

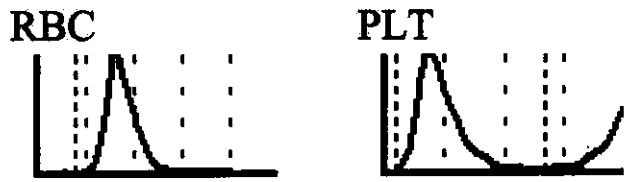
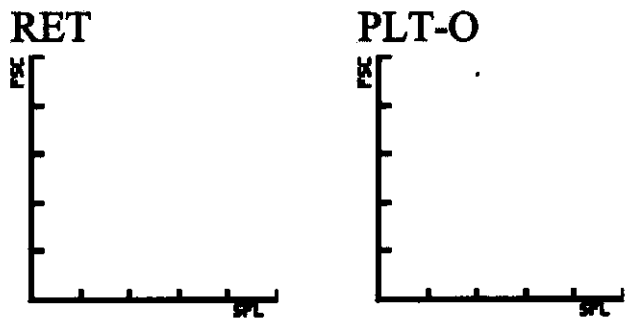
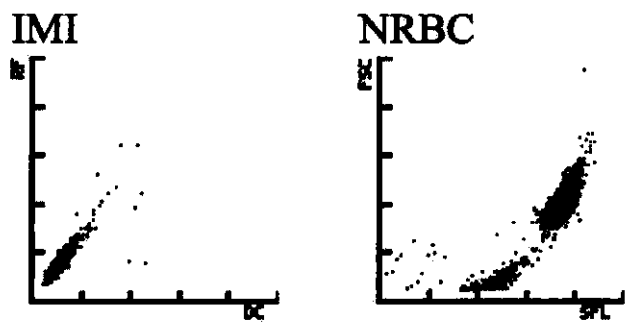
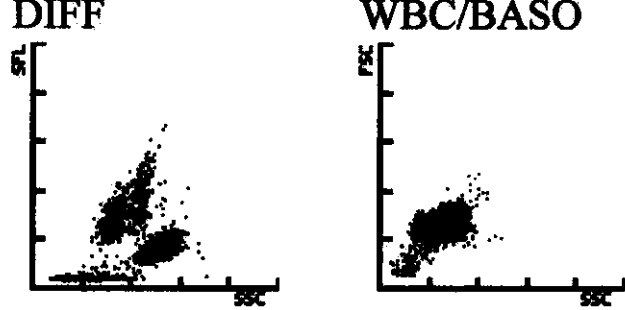
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

RBC morf.

WBC	8.34	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT	6.78	[10 <sup>9</sup> /L]	81.3	+[%] ↑
LYMPH	0.99	[10 <sup>9</sup> /L]	11.9	-[%] ↓
MONO	0.57	[10 <sup>9</sup> /L]	6.8	[%]
EO	0.00	[10 <sup>9</sup> /L]	0.0	[%] ✓
BASO	0.00	[10 <sup>9</sup> /L]	0.0	[%]
IG	0.02	[10 <sup>9</sup> /L]	0.2	[%] ↑
RBC	4.28	[10 <sup>12</sup> /L]	✓	
HGB	132	[g/L]	✓	
HCT	0.370	- [Ratio]	↓	
MCV	86.4	[fL]		
MCH	30.8	[pg]	✓	
MCHC	357	[g/L]		
RDW-CV	16.3	+ [%]	↑	
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
RET-He		[pg]		
IPF		[%]		
NRBC	0.00	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	202	[10 <sup>9</sup> /L]	✓	
MPV	9.6	[fL]		
PDW	10.7	- [fL]		
PCT	0.19	[%]		



30M (40r.)

patologický KO

Manual Diff

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

RBC morf.

NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

TARGET \_\_\_\_\_

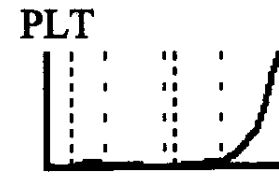
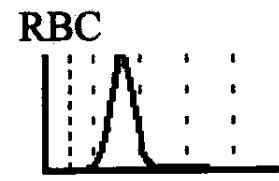
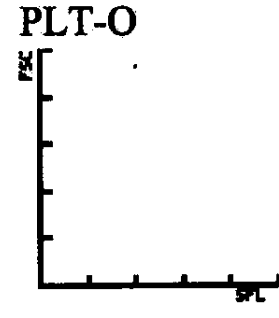
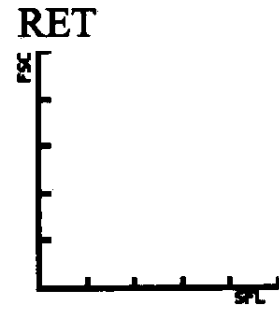
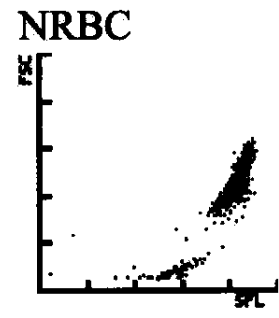
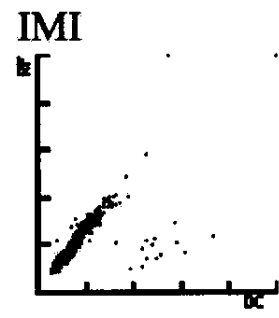
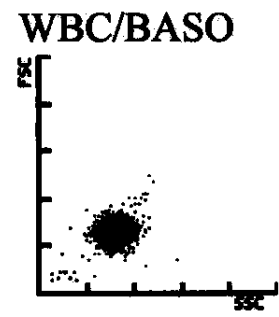
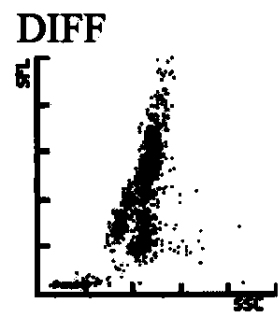
SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT morf \_\_\_\_\_



31M (46r.)

WBC	1.73	-	[10 <sup>9</sup> /L]	↓	
WBC IP Message(s)					
NEUT	0.04	*	[10 <sup>9</sup> /L]	2.3	*[%]
LYMPH	0.87	*	[10 <sup>9</sup> /L]	50.3	*[%]
MONO	0.82	*	[10 <sup>9</sup> /L]	47.4	*[%]
EO	0.00		[10 <sup>9</sup> /L]	0.0	[%]
BASO	0.00		[10 <sup>9</sup> /L]	0.0	[%]
IG	0.00		[10 <sup>9</sup> /L]	0.0	[%]
Lymphocytosis					
Blasts? ↑					
Atypical Lympho? ↑					
RBC	2.61	-	[10 <sup>12</sup> /L]		
HGB	74	-	[g/L]		
HCT	0.214	-	[Ratio]		
MCV	82.0	-	[fL]		
MCH	28.4	-	[pg]		
MCHC	346	-	[g/L]	✓	
RDW-CV	14.8	-	[%]		
Microcytosis					
RET			[10 <sup>9</sup> /L]		[%]
IRF			[Ratio]		
RET-He			[pg]		
IPF			[%]		
NRBC	0.00		[10 <sup>9</sup> /L]	0.0	[/100WBC]
Thrombocytopenia					
PLT	4	*	[10 <sup>9</sup> /L]	↓	
MPV	8.9	-	[fL]		
PDW	7.5	-	[%]		
PCT	0.00	-	[%]		



patologický KO

Manual Diff

SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAKRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOtip
EOSIN	VARLY	TARGET	
BASO	TOXgran	SPHERO	NRBC
PLT EST		PLT morf	

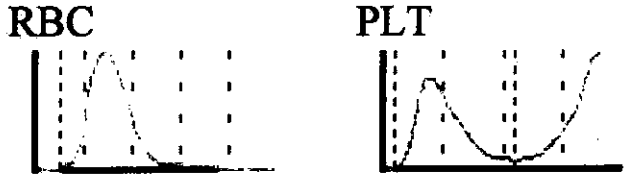
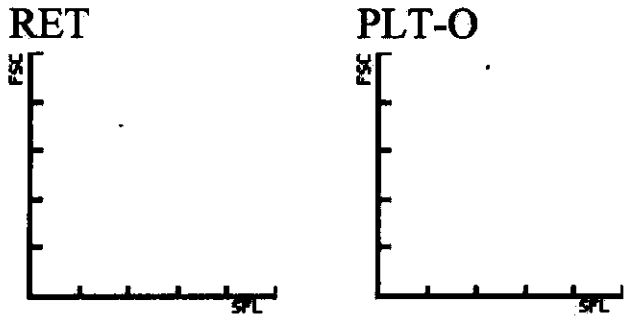
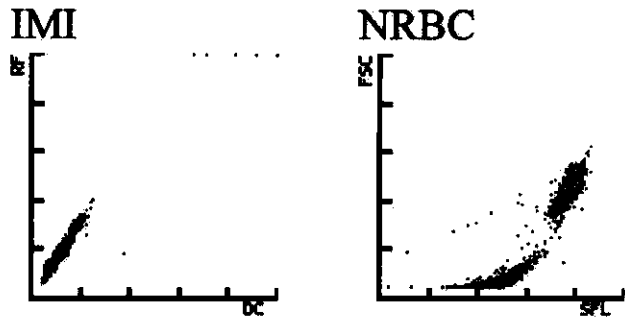
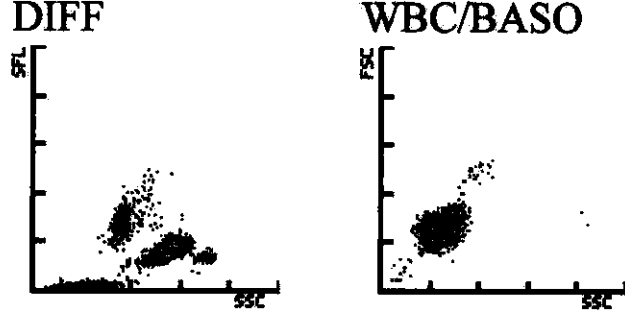
Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

32M (61r.)

patologický KO

WBC	7.45	[10 <sup>9</sup> /L]	✓	WBC IP Message(s)
NEUT	6.54	+ [10 <sup>9</sup> /L]	87.8	+ [%]
LYMPH	0.61	- [10 <sup>9</sup> /L]	8.2	- [%]
MONO	0.13	[10 <sup>9</sup> /L]	1.7	- [%]
EO	0.14	[10 <sup>9</sup> /L]	1.9	[%]
BASO	0.03	[10 <sup>9</sup> /L]	0.4	[%]
IG	0.01	[10 <sup>9</sup> /L]	0.1	[%]
RBC	4.30	[10 <sup>12</sup> /L]	✓	
HGB	101	- [g/L]		
HCT	0.330	- [Ratio]		Anisocytosis
MCV	76.7	- [fL]		
MCH	23.5	- [pg]		
MCHC	306	- [g/L]		
RDW-CV	24.1	+ [%]		
RET		[10 <sup>9</sup> /L]		[%]
IRF		[Ratio]		
NRBC	0.00	[10 <sup>9</sup> /L]	0.0	[/100WBC]
PLT	382	[10 <sup>9</sup> /L]		
MPV	10.1	[fL]		
PDW	12.3	[fL]		
PCT	0.039	+ [L/L]		



Manual Diff

SEG \_\_\_\_\_ META \_\_\_\_\_ NORMAL \_\_\_\_\_ MICRO \_\_\_\_\_

BAND \_\_\_\_\_ MYELO \_\_\_\_\_ POLYCH \_\_\_\_\_ MAKRO \_\_\_\_\_

LYMPH \_\_\_\_\_ PRO \_\_\_\_\_ HYPOCH \_\_\_\_\_ ANISO \_\_\_\_\_

MONO \_\_\_\_\_ BLAST \_\_\_\_\_ POIK \_\_\_\_\_ BASOtip \_\_\_\_\_

EOSIN \_\_\_\_\_ VARLY \_\_\_\_\_ TARGET \_\_\_\_\_

BASO \_\_\_\_\_ TOXgran \_\_\_\_\_ SPHERO \_\_\_\_\_ NRBC \_\_\_\_\_

PLT EST \_\_\_\_\_ PLT morf \_\_\_\_\_

Comment: \_\_\_\_\_

DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

Doctor:  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

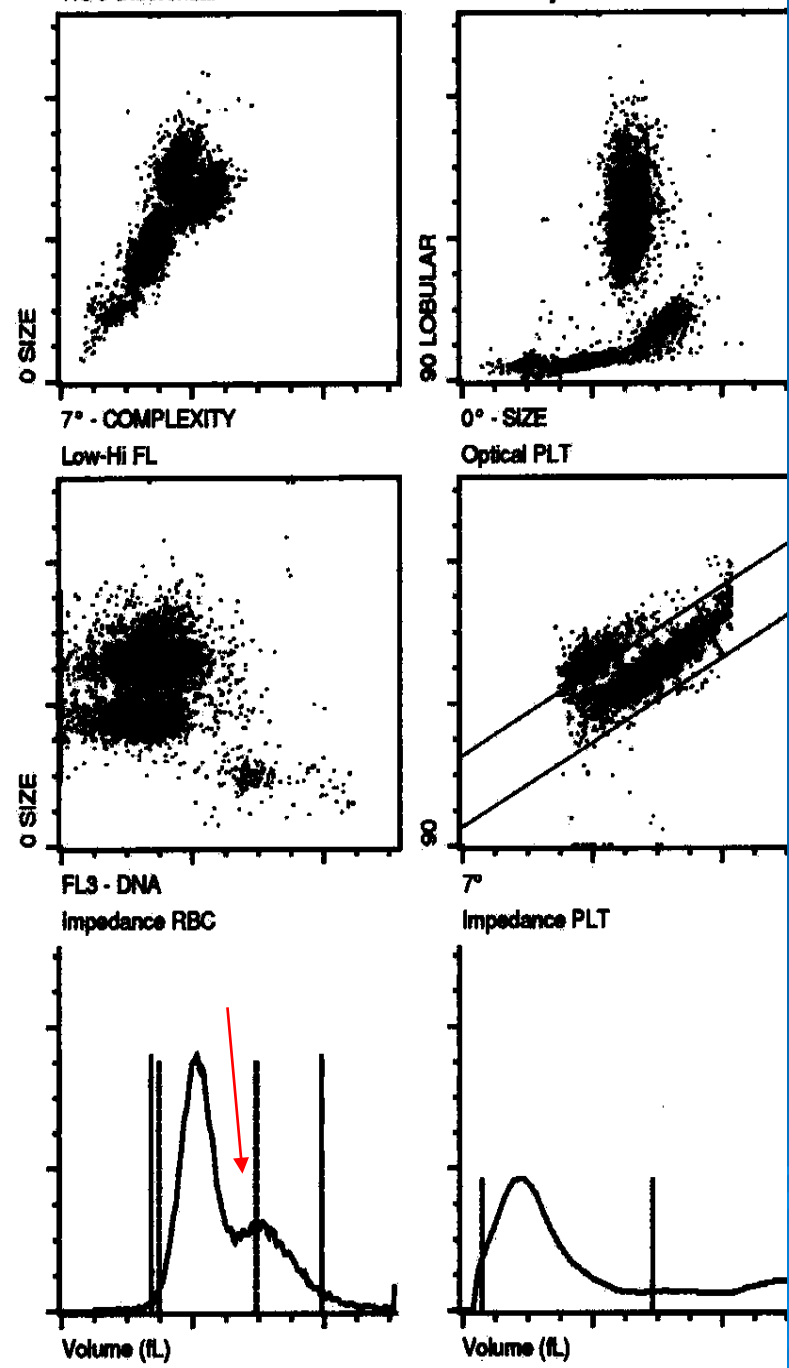
X-B WBC RBC PLT RETC  
 - - - -

WBC 4.55 10e9/L ✓ WVF .954  
 SEG 1.79 %S 39.3 ↓  
 BAND 0.00 %BD 0.00  
 IG 0.00 %IG 0.00  
 BLST 0.00 %BL 0.00  
 MONE .431 %Me 9.46 ✓  
 EOS .028 %E .623  
 BASO .019 %B .412  
 LYMe 2.29 %Le 50.2 ↑ FP?  
 VARL 0.00 %VL 0.00

\*InvalidData

RBC 2.67s 10e12/L RBCo 2.67  
 HGB 92.3 g/L ↓ %MIC 1.55  
 HCT .263s L/L ↓ %MAC 23.3 ASYM  
 MCV 98.4s fL ✓ %HPO ---  
 MCH 34.5s pg ✓ %HPR ---  
 MCHC 351.s g/L  
 RDW 24.1s %CV ↑  
 HDW --- %  
 RETC --- 10e9/L %R ---  
 IRF ---  
 NRBC 0.00s 10e9/L NRW 0.00s  
 MCVr --- fL  
 MCHr --- pg  
 CHCr --- g/L  
 PLTo 22.4 10e9/L PLTi 31.8 ↓  
 MPV 11.1\* fL CD61 ---  
 PDW 13.4\* 10(GSD) PLTs --- ✓  
 PCT .247\* mL/L PLTI ---  
 %rP --- %

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	



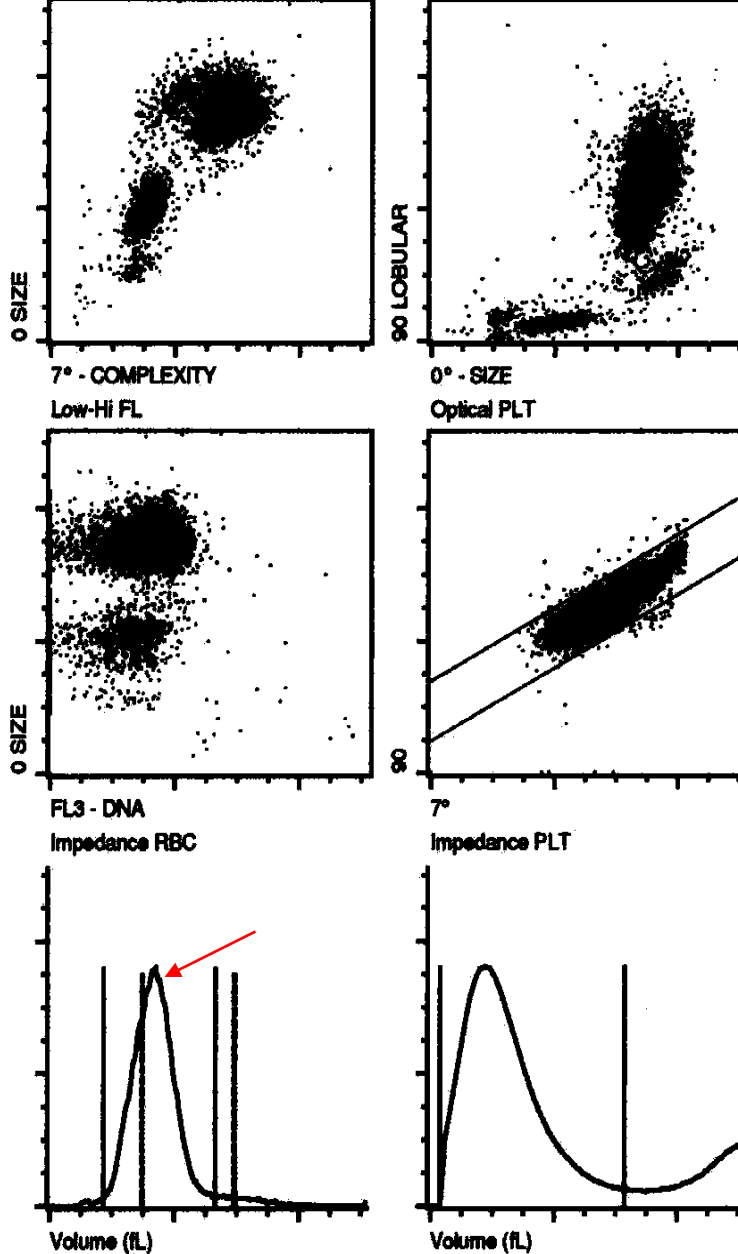
patologický KO

Lower, Upper, or Lower and Upper Region Interference in PLTI Histogram

Doctor: 0638/10/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

34M

X-B In	WBC In	RBC In	PLT In	RETc In
WBC	9.91	10e9/L	WVf	.992
SEG	<u>6.96</u>		%S	<u>70.3</u>
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.564		%Me	5.70
EOS	.069		%E	.699
BASO	.018		%B	.179
LYMe	2.30		%Le	23.2
VARL	0.00		%VL	0.00
RBC	5.47	10e12/L	RBCo	5.32
HGB	<u>120.</u>	g/L	%MIC	29.9
HCT	<u>370</u>	L/L	%MAC	0.00
MCV	<u>67.6</u>	fL	%HPO	----
MCH	<u>22.0</u>	pg	%HPR	----
MCHC	326.	g/L		
RDW	<u>19.1</u>	%CV		
HDW	----	%		
RETc	----	10e9/L	%R	----
IRF	----			
NRBC	0.00	10e9/L	NRW	0.00
MCVr	----	fL		
MCHr	----	pg		
CHCr	----	g/L		
PLTo	<u>455.</u>	10e9/L	PLTi	<u>438.</u>
MPV	10.4	fL	CD61	----
PDW	16.1	10(GSD)	PLTs	----
PCT	<u>4.73</u>	mL/L	PLTI	----
%rP	----	%		



patologický KO

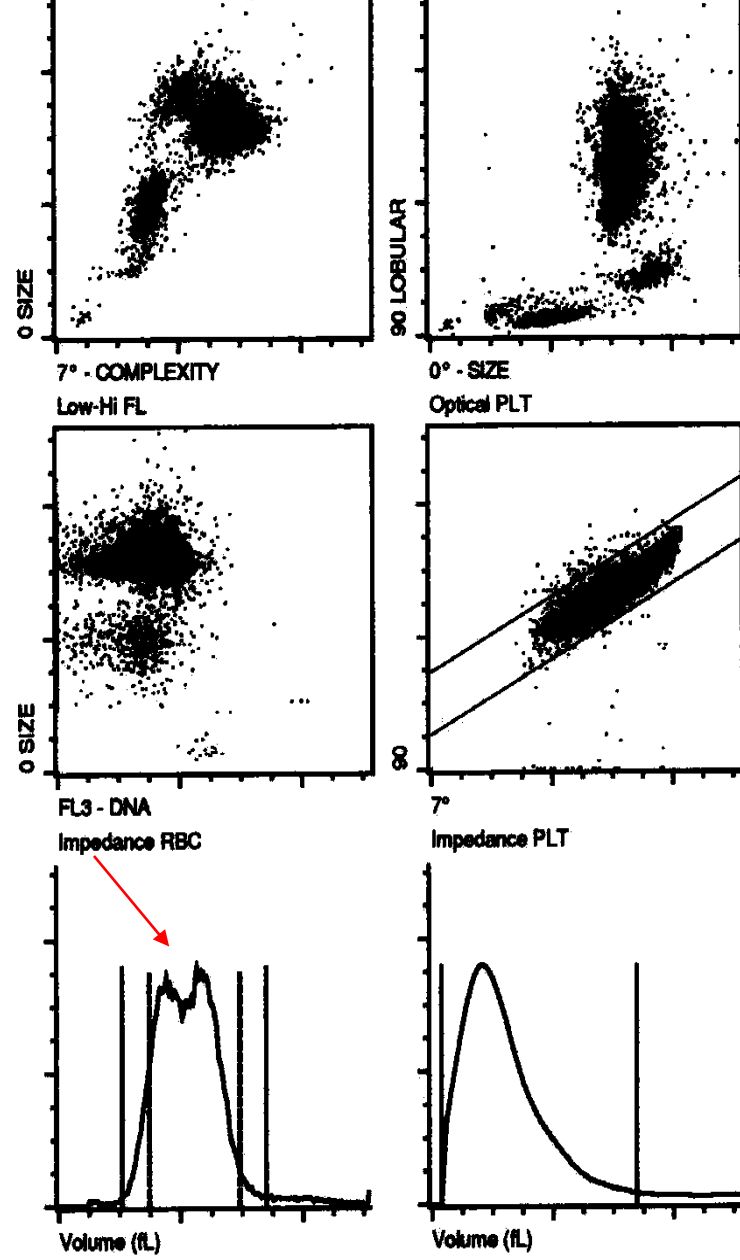
Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	
Comment:			

Doctor: 0734/10/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In
WBC	9.92	10e9/L	✓ WVF	.994
SEG	7.51		%S	75.7 ↑
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MCNe	.647		%Me	6.52
EOS	.178		%E	1.79
BASO	.027		%B	.269
LYMe	1.56		%Le	15.7 ↓
VARL	0.00		%VL	0.00
RBC	4.45s	10e12/L	RBCo	4.38
HGB	129	g/L	%MIC	9.52
HCT	377s	L/L	%MAC	2.05
MCV	84.7s	fL	✓ %HPO	---
MCH	29.1s	pg	%HPR	---
MCHC	344.s	g/L		
RDW	21.4s	%CV	↑	
HDW	---	%		
RETC	---	10e9/L	%R	---
IRF	---			
NRBC	0.00	10e9/L	NR/W	0.00
MCVr	---	fL		
MCHr	---	pg		
CHCr	---	g/L		
PLTo	297	10e9/L	PLTi	307
MPV	8.07	fL	CD61	---
PDW	16.6	10(GSD)	PLTs	---
PCT	2.40	mL/L	PLTI	---
%rP	---	%		

ASYM

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MAGRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	



patologický KO

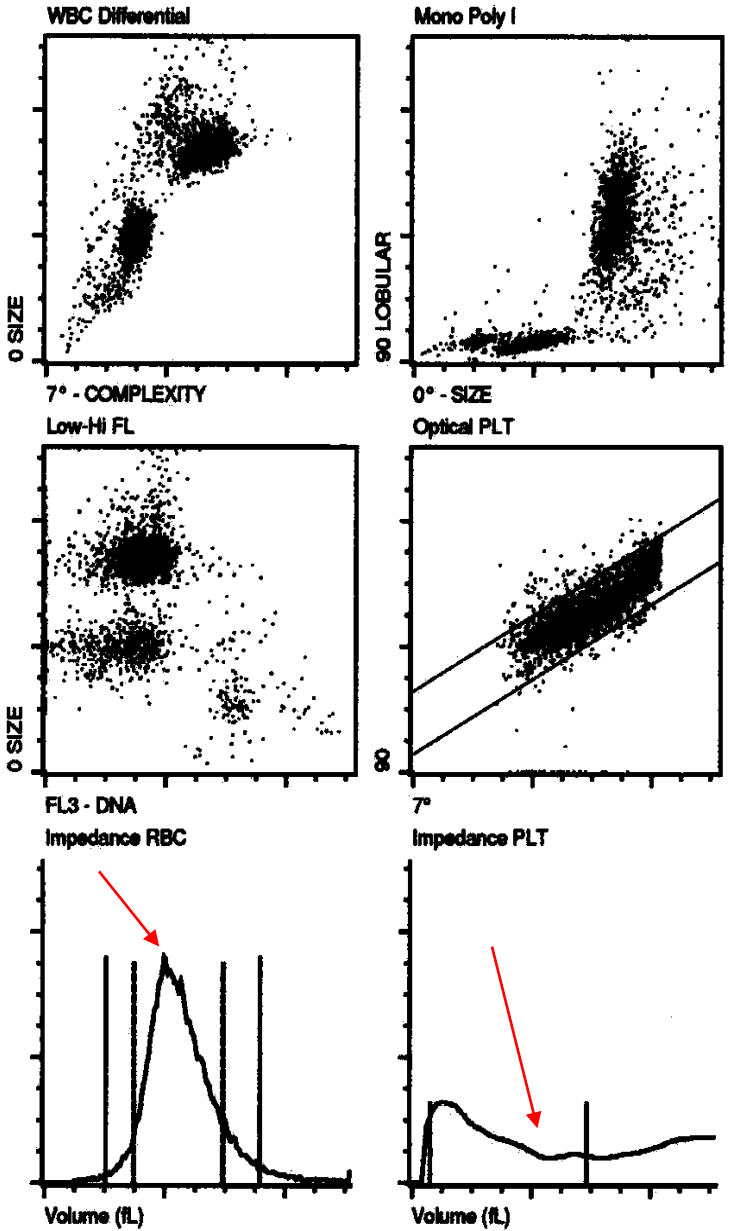


Sex: M  
 Doctor: 0638/11/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	3.50*	10e9/L ↓	WVF	.925*	
SEG	1.71*		%S	48.9*	↔
BAND	0.00*		%BD	0.00*	
IG	0.00*		%IG	0.00*	
BLST	0.00*		%BL	0.00*	
MONe	.149*		%Me	4.25*	
EOS	.061*		%E	1.74*	✓
BASO	0.00*		%B	0.00*	
LYMe	1.36*		%Le	38.9*	FP?
VARL	.218*		%VL	6.23*	↑ VARLYM 0.50
RBC	2.57	10e12/L	RBCo	2.59	
HGB	81.1	g/L	%MIC	4.88	
HCT	234	L/L	%MAC	10.7	
MCV	90.7	fL	%HPO	---	
MCH	31.5	pg	%HPR	---	
MCHC	347.	g/L			
RDW	21.5	%CV ↑			
HDW	---	%			
RETC	---	10e9/L	%R	---	
IRF	---				
NRBC	0.00*	10e9/L	NRW	0.00*	
MCVr	---	fL			
MCHr	---	pg			
CHCr	---	g/L			
PLTo	15.2	10e9/L ↓	PLTI	29.4	
MPV	14.1	fL	CD61	---	
PDW	22.2	10(GSD) ↑	PLTs	---	
PCT	215	mL/L	PLTI	---	
%rP	---	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSH	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT_EST		PLT MORPH	

Comment:  
 DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_



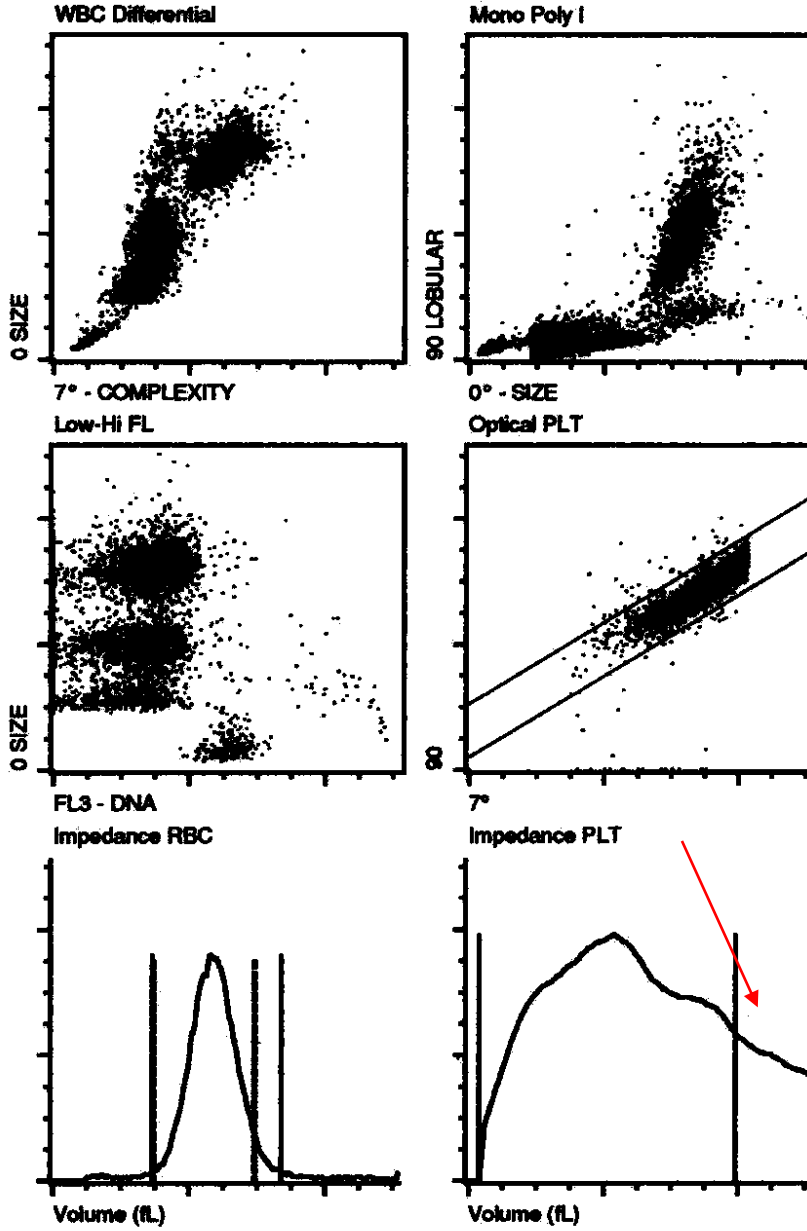
Unidentified Fluorescent Population Greater than Preset Limit

patologický KO

Sex:  
 Doctor:  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B	WBC	RBC	PLT	RETC	
WBC	1.78	10e9/L ↓	WVF	.981	
SEG	.911		%S	51.3	
BAND	0.00		%BD	0.00	
IG	0.00		%IG	0.00	
BLST	0.00		%BL	0.00	
MONE	.116		%Me	6.51	
EOS	.015		%E	.827	
BASO	.010		%B	.587	
LYMe	.724		%Le	40.8	
VARI	0.00		%VL	0.00	
RBC	3.15	10e12/L ↓	RBCo	3.19	
HGB	103.	g/L ↓	%MIC	2.27	
HCT	.302	L/L ↓	%MAC	5.31	
MCV	95.9	fL	%HPO	----	
MCH	32.6	pg ✓	%HPR	----	
MCHC	340.	g/L			
RDW	14.2	%CV			
HDW	----	%			
RETC	----	10e9/L	%R	----	
IRF	----				
NRBC	0.00	10e9/L	NRW	0.00	
MCVr	----	fL			
MCHr	----	pg			
CHCr	----	g/L			
PLTo	26.9*	10e9/L ↓	PLTi	63.1*	PltClmp
MPV	15.8*	fL ↑	CD61	83.7	
PDW	13.9*	10(GSD)	PLTs	.008	
PCT	425*	mL/L	PLTI	24.5	
%rP	----	%			

\*InvalidData



Interference with PLT Results Due to PLT Clumping  
 PIC/POC Delta

patologický KO

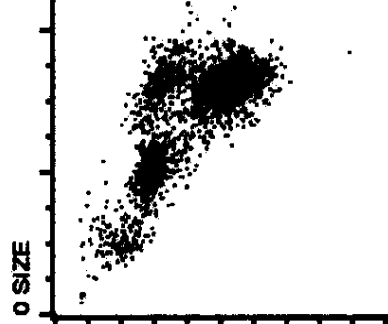
Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	

Comment:  
 DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

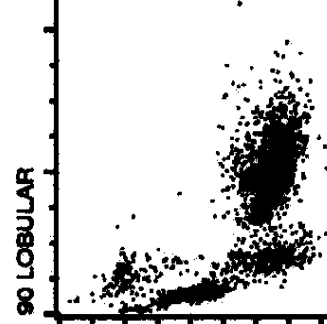
User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In
WBC	3.88	10e9/L ↓	WVF	.991
SEG	2.21		%S	57.0
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.476		%Me	12.3
EOS	.175		%E	4.52
BASO	.032		%B	.834
LYMe	.983		%Le	25.4
VARL	0.00		%VL	0.00
RBC	2.38s	10e12/L ↓	RBCo	2.37
HGB	77.8	g/L ↓	%MIC	6.79
HCT	226s	L/L ↓	%MAC	15.0
MCV	95.0s	fL ↓	%HPO	---
MCH	32.7s	pg ✓	%HPR	---
MCHC	345.s	g/L		
RDW	24.8s	%CV ↑		
HDW	---	%		
RETC	---	10e9/L	%R	---
IRF	---			
NRBC	.145	10e9/L ↑	NRW	3.73
MCVr	---	fL		
MChr	---	pg		
CHCr	---	g/L		
PLTo	250.	10e9/L	PLTi	265.
MPV	8.13	fL	CD61	---
PDW	16.0	10(GSD)	PLTs	---
PCT	2.03	mL/L	PLTI	---
%rP	---	%		

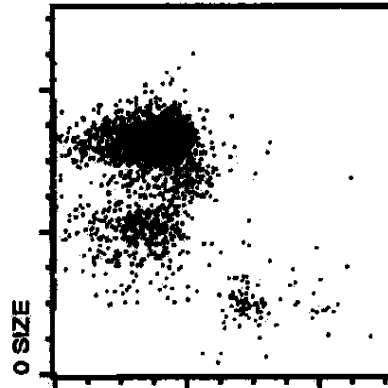
■ ASYM



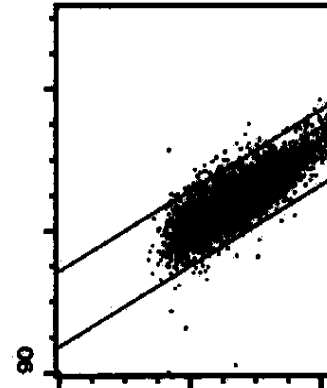
7° - COMPLEXITY  
Low-HI FL



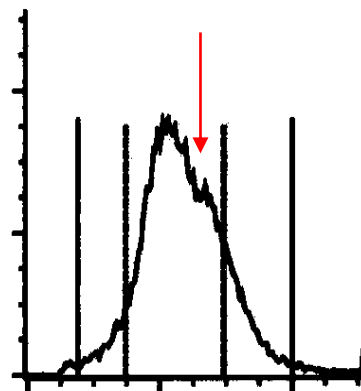
0° - SIZE  
Optical PLT



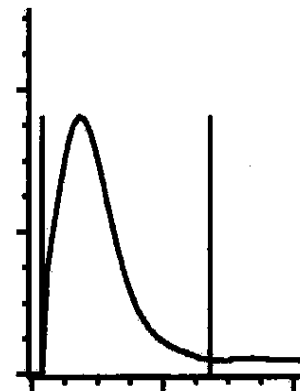
FL3 - DNA  
Impedance RBC



7°  
Impedance PLT



Volume (fL)



Volume (fL)

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	

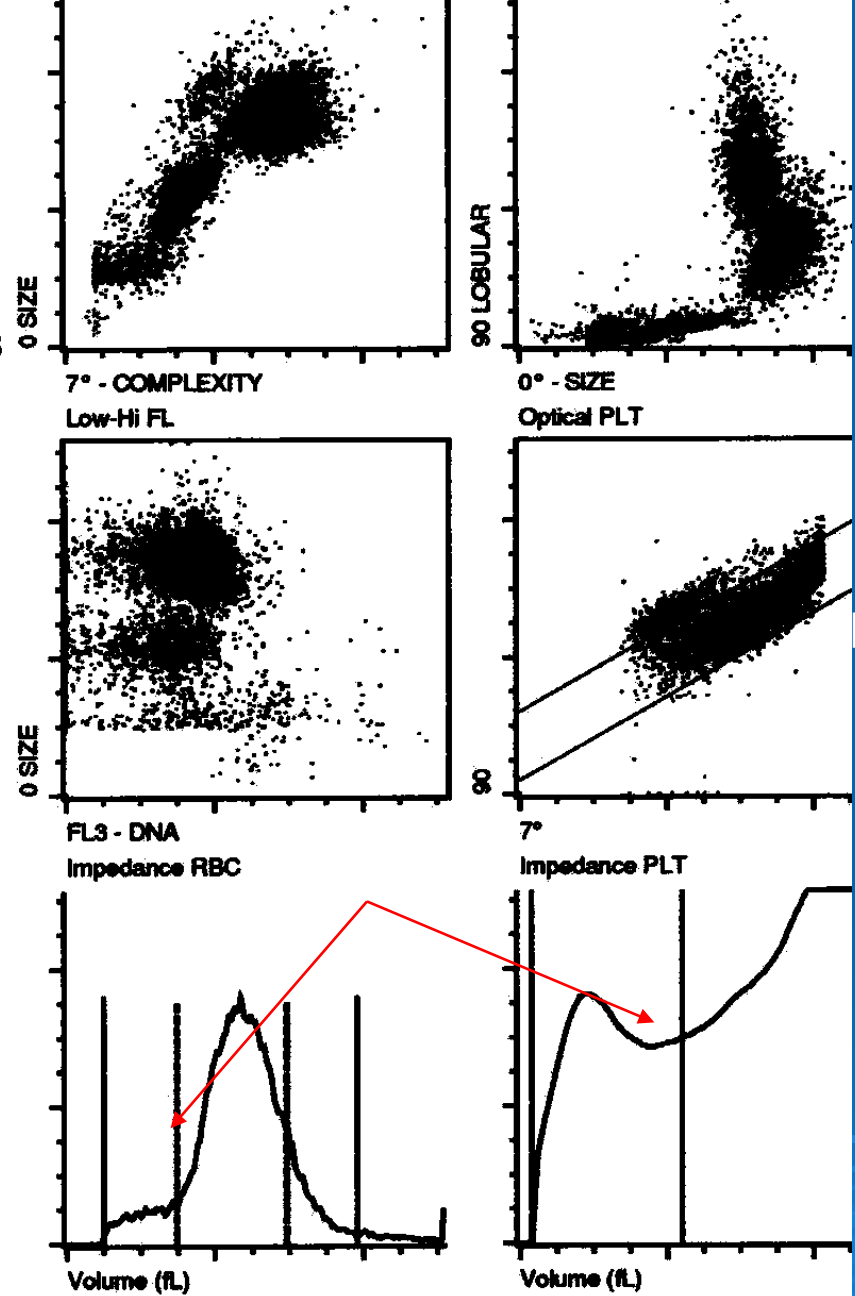
patologický KO



Doctor: 0600/11/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	9.61	10e9/L ✓	WVF	.963	*InvalidData ↓
SEG	2.81		%S	29.2	
BAND	0.00		%BD	0.00	
IG	.533		%IG	5.54	IG 0.68
BLST	0.00		%BL	0.00	
MONE	.234		%Me	2.44	
EOS	2.72		%E	28.3	↑
BASO	.148		%B	1.54	
LYMe	3.17		%Le	33.0	✓FP?
VARL	0.00		%VL	0.00	
RBC	3.24	10e12/L	RBCo	3.24	
HGB	97.6	g/L	%MIC	9.42	
HCT	.303	L/L	%MAC	11.9	
MCV	93.3	fL	%HPO	---	
MCH	30.1	pg ✓	%HPR	---	
MCHC	322.	g/L			
RDW	26.4	%CV ↑			
HDW	---	%			
RETC	---	10e9/L	%R	---	
IRF	---				
NRBC	0.00s	10e9/L	NRW	0.00s	
MCVr	---	fL			
MCHr	---	pg			
CHCr	---	g/L			
PLTo	45.1	10e9/L ↓	PLTi	61.9	
MPV	11.6*	fL	CD61	---	
PDW	20.0*	10(GSD) ↑	PLTs	---	
PCT	.522*	mL/L	PLTI	---	
%rP	---	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PIT MORPH	



Lower, Upper, or Lower and Upper Region Interference in PLTI Histogram

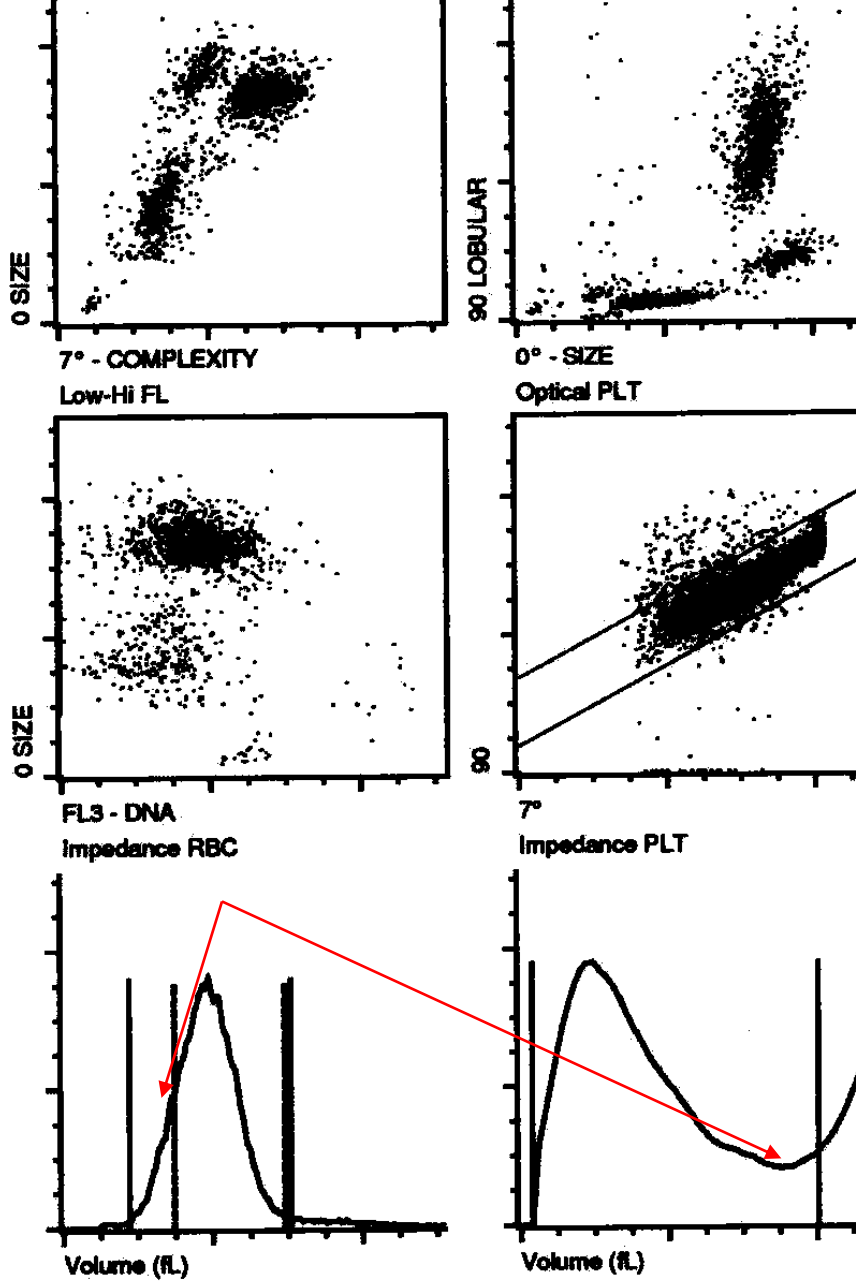
39M

patologický KO

User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	2.28	10e9/L ↓	WVF	.953	
SEG	1.14		%S	50.2	✓
BAND	0.00		%BD	0.00	
IG	0.00		%IG	0.00	
BLST	0.00		%BL	0.00	
MONe	.319		%Me	14.0	↑
EOS	.139		%E	6.09	✓
BASO	.042		%B	1.83	↑
LYMe	.635		%Le	27.9	✓
VARL	0.00		%VL	0.00	
RBC	4.09	10e12/L	RBCo	4.03	↔
HGB	102.	g/L ↓	%MIC	15.3	■
HCT	.316	L/L	%MAC	1.63	
MCV	77.3	fL ↓	%HPO	----	
MCH	24.9	pg ↓	%HPR	----	
MCHC	322.	g/L ↔			
RDW	20.5	%CV ↑			
HDW	----	%			
RETC	----	10e9/L	%R	----	
IRF	----				
NRBC	0.00	10e9/L	NR/W	0.00	
MCVr	----	fL			
MCHr	----	pg			
CHCr	----	g/L			
PLTo	73.9	10e9/L ↓	PLTi	99.1	
MPV	7.98*	fL	CD61	----	✓
PDW	15.9*	10(GSD)	PLTs	----	
PCT	.589*	mL/L	PLTI	----	
%rP	----	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	



Lower, Upper, or Lower and Upper Region Interference in PLTI Histogram

41M

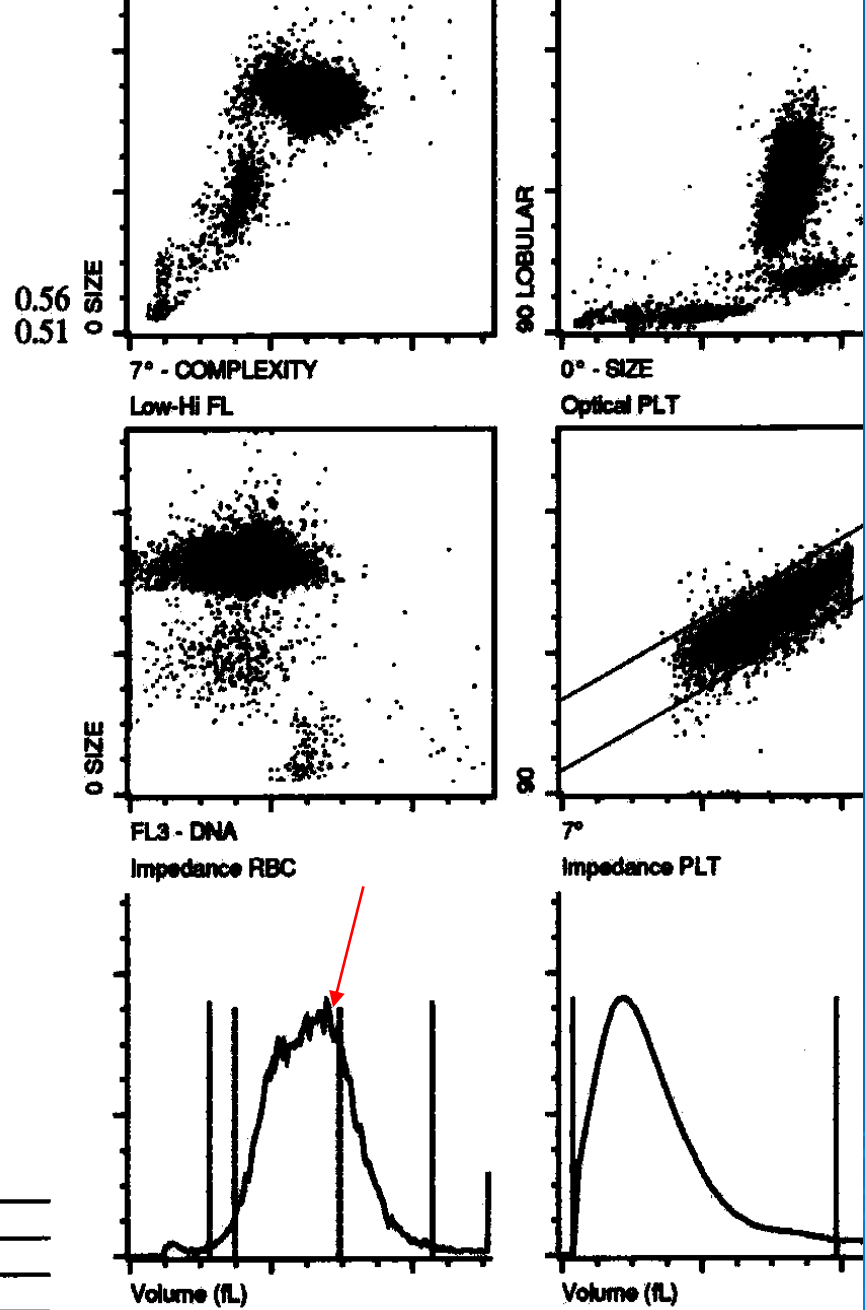
patologický KO

patologický KO

User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	<u>24.0</u>	10e9/L	↑ WVF	.973	
SEG	<u>17.4</u>		%S	<u>72.2</u>	↑
BAND	1.24		%BD	5.17	↑ BAND
IG	.875		%IG	3.64	↑ IG
BLST	0.00		%BL	0.00	
MONe	<u>2.03</u>		%Me	8.44	✓
EOS	.067		%E	.280	✓
BASO	.026		%B	.107	
LYMe	2.44		%Le	<u>10.1</u>	↓
VARI	0.00		%VL	0.00	
RBC	<u>2.87s</u>	10e12/L	RBCo	<u>2.86</u>	
HGB	<u>95.4</u>	g/L	%MIC	3.36	
HCT	<u>298s</u>	L/L	%MAC	24.5	■ ASYM
MCV	<u>104.s</u>	fL	%HPO	---	
MCH	<u>33.2s</u>	pg	%HPR	---	
MCHC	<u>320.s</u>	g/L			✓
RDW	<u>22.3s</u>	%CV			↑
HDW	---	%			
RETC	---	10e9/L	%R	---	
IRF	---				
NRBC	.184	10e9/L	NRW	.766	↑
MCVr	---	fL			
MCHr	---	pg			
CHCr	---	g/L			
PLTo	224.	10e9/L	PLTi	262.	
MPV	8.89	fL	CD61	---	✓
PDW	17.0	10(GSD)	PLTs	---	
PCT	1.99	mL/L	PLTI	---	
%rP	---	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	PCIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC

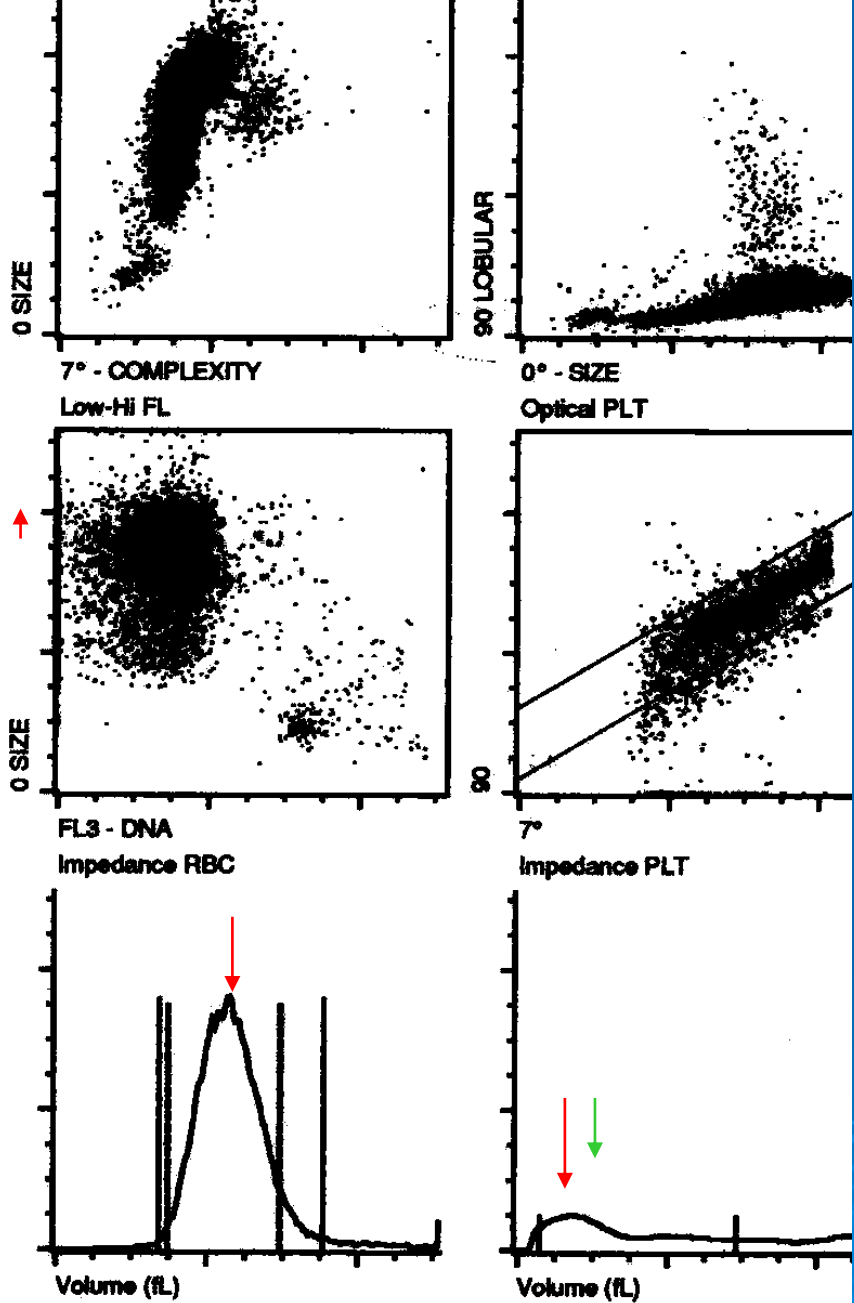


patologický KO

User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	18.0	10e9/L ↑	WFV	.980	
SEG	.097		%S	.540 ↓	
BAND	0.00		%BD	0.00	
IG	.011		%IG	.062 ↑	IG 0.54
BLST	10.4*		%BL	57.5*	BLAST 0.90
MONe	4.59*		%Me	25.5*	
EOS	.140		%E	.778	
BASO	0.00		%B	0.00	
LYMe	2.64*		%Le	14.7* ↓	
VARL	.170*		%VL	.944*	VARLYM 0.50 ↑
RBC	3.34	10e12/L	RBCo	3.45	
HGB	110.	g/L ↓	%MIC	1.34	
HCT	.313	L/L ↓	%MAC	7.49	
MCV	93.8	fL	%HPO	---	
MCH	33.0	pg ✓	%HPR	---	
MCHC	352.	g/L			
RDW	17.3	%CV ↑			
HDW	---	%			
RETC	---	10e9/L	%R	---	
IRF	---				
NRBC	.611	10e9/L ↑	NRW	3.39	
MCVr	---	fL			
MCHR	---	pg			
CHCr	---	g/L			
PLTo	5.54	10e9/L ↓	PLTI	---	
MPV	13.6	fL ↑	CD61	---	
PDW	12.2	10(GSD) ✓	PLTs	---	
PCT	.075	mL/L	PLTI	---	
%rP	---	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VARLYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PIT EST		PLT MORPH	

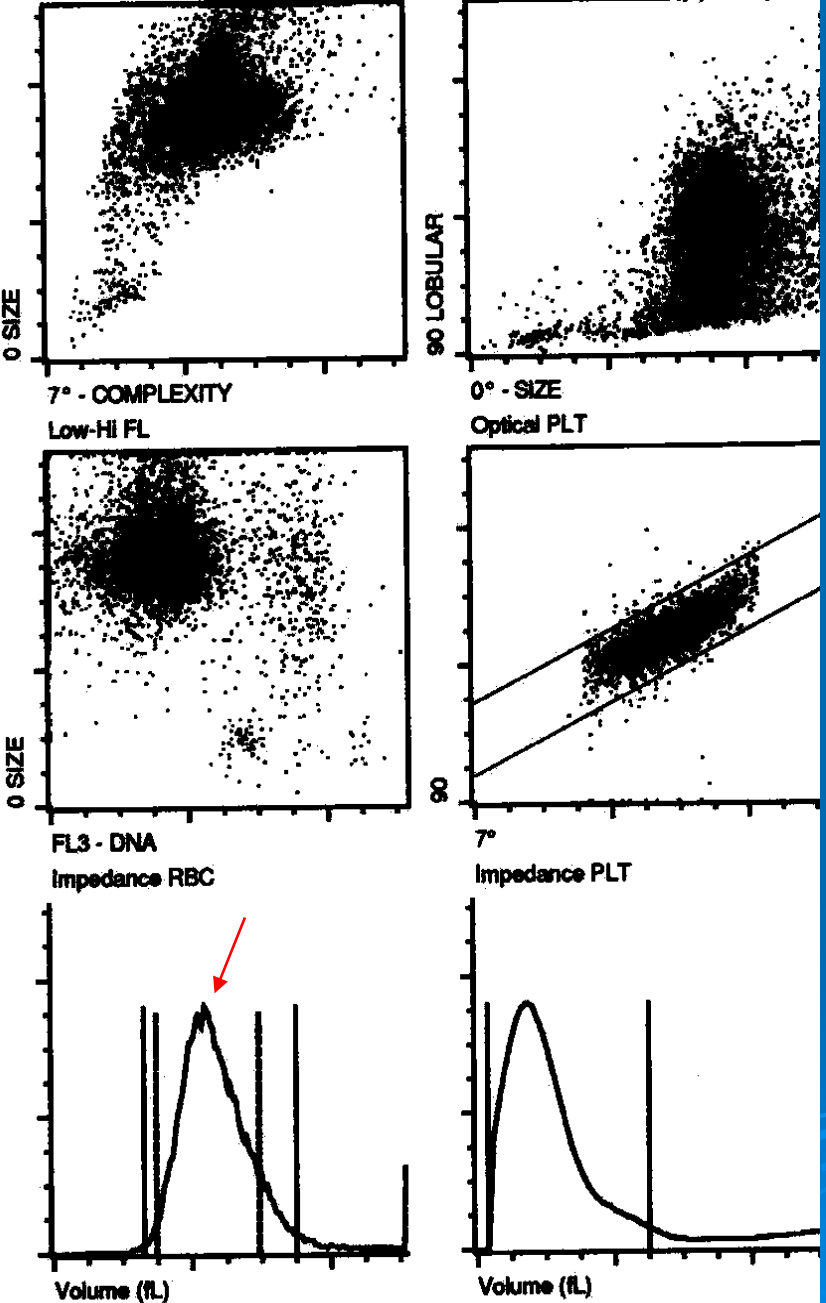


Unable to Find Clear Separation Between WBC Subpopulations

Sex: M  
 Doctor: 0679/13/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

47M

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	66.7	10e9/L	↑ WVf	.889	*InvalidData
SEG	20.1*		%S	30.2*	nvWBC
BAND	8.70*		%BD	13.0*	BAND 0.90
IG	5.46*		%IG	8.18*	IG 0.90
BLST	4.21*		%BL	6.31*	BLAST 0.90
MONe	6.42*		%Me	9.63*	✓
EOS	18.6*		%E	27.9*	↑
BASO	245*		%B	.367*	
LYMe	2.93*		%Le	4.40*	↓
VARL	0.00*		%VL	0.00*	
RBC	3.32	10e12/L	RBCo	3.34	
HGB	106.	g/L	%MIC	1.93	
HCT	.311	L/L	%MAC	10.9	■
MCV	93.8	fL	%HPO	---	
MCH	31.9	pg	%HPR	---	
MCHC	340.	g/L			
RDW	18.9	%CV	↑		
HDW	---	%			
RETC	---	10e9/L	%R	---	
IRF	---				
NRBC	1.20	10e9/L	NRW	1.80	
MCVr	---	fL			
MCHr	---	pg			
CHCr	---	g/L			
PLTo	67.0	10e9/L	↓ PLTi	74.3	
MPV	7.54	fL	CD61	---	
PDW	16.9	10(GSD)	PLTs	---	✓
PCT	.505	mL/L	PLTI	---	
%rP	---	%			



patologický KO

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC

Unable to Find Clear Separation Between WBC Subpopulations

Doctor: 0617/13/05/2011

User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	25.6	10e9/L	↑	WFV	.969
SEG	10.0*			%S	39.1*
BAND	3.24*			%BD	12.6*
IG	2.72*			%IG	10.6*
BLST	.006*			%BL	.023*
MCNe	4.08*			%Me	15.9*
EOS	.046*			%E	.180*
BASO	.054*			%B	.211*
LYMe	5.45*			%Le	21.3*
VARL	0.00*			%VL	0.00*
RBC	3.52	10e12/L		RBCo	3.55
HGB	91.9	g/L		%MIC	18.8
HCT	.273	L/L		%MAC	1.71
MCV	77.6	fL		%HPO	---
MCH	26.1	pg		%HPR	---
MCHC	336.	g/L			
RDW	26.0	%CV			
HDW	---	%			
RETC	---	10e9/L		%R	---
IRF	---				
NRBC	.162	10e9/L		NR/W	.633
MCVr	---	fL			
MCHr	---	pg			
CHCr	---	g/L			
PLTo	53.7	10e9/L		PLTi	88.6*
MPV	18.3*	fL		CD61	---
PDW	10.1*	10(GSD)		PLTs	---
PCT	.982*	mL/L		PLTI	---
%rP	---	%			

\*InvalidData

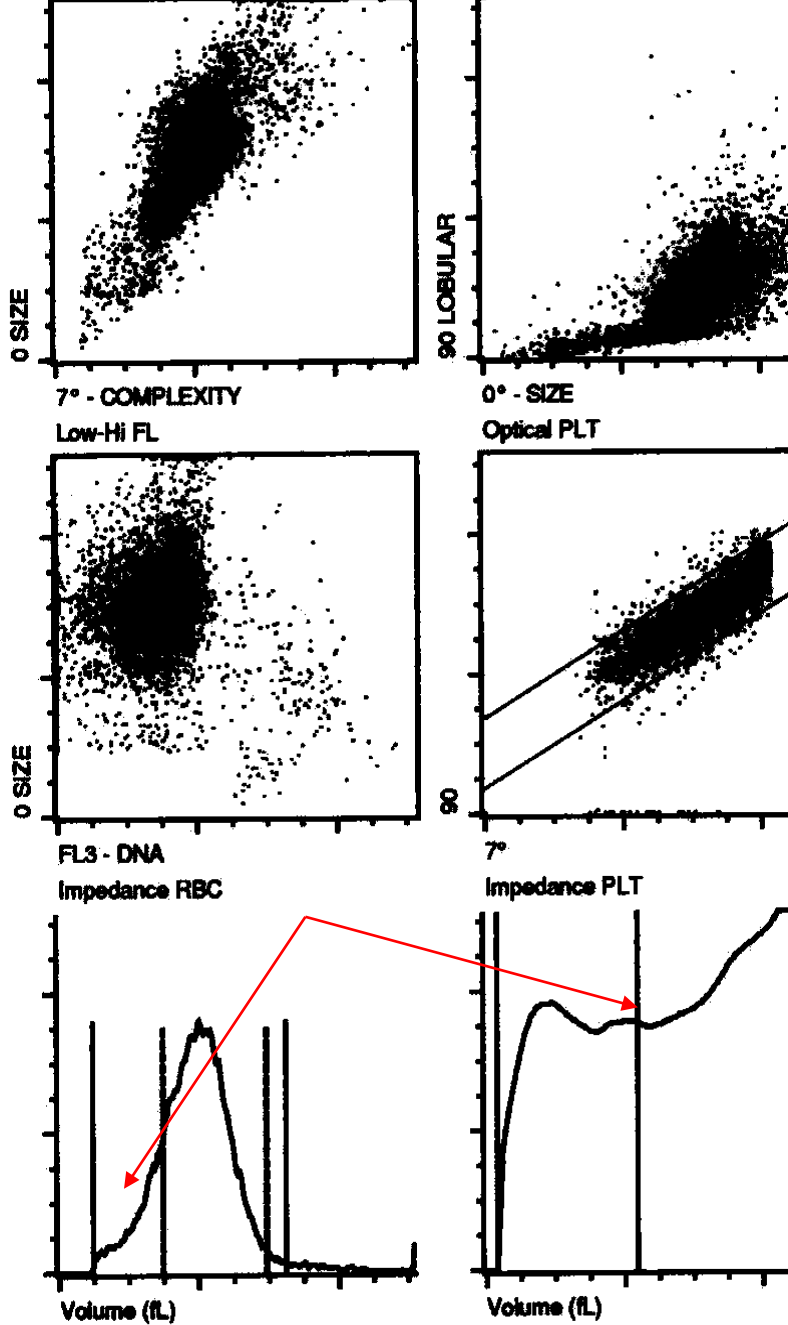
BAND 0.87  
 IG 0.90  
 BLAST 0.90

✓

■

↔

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC



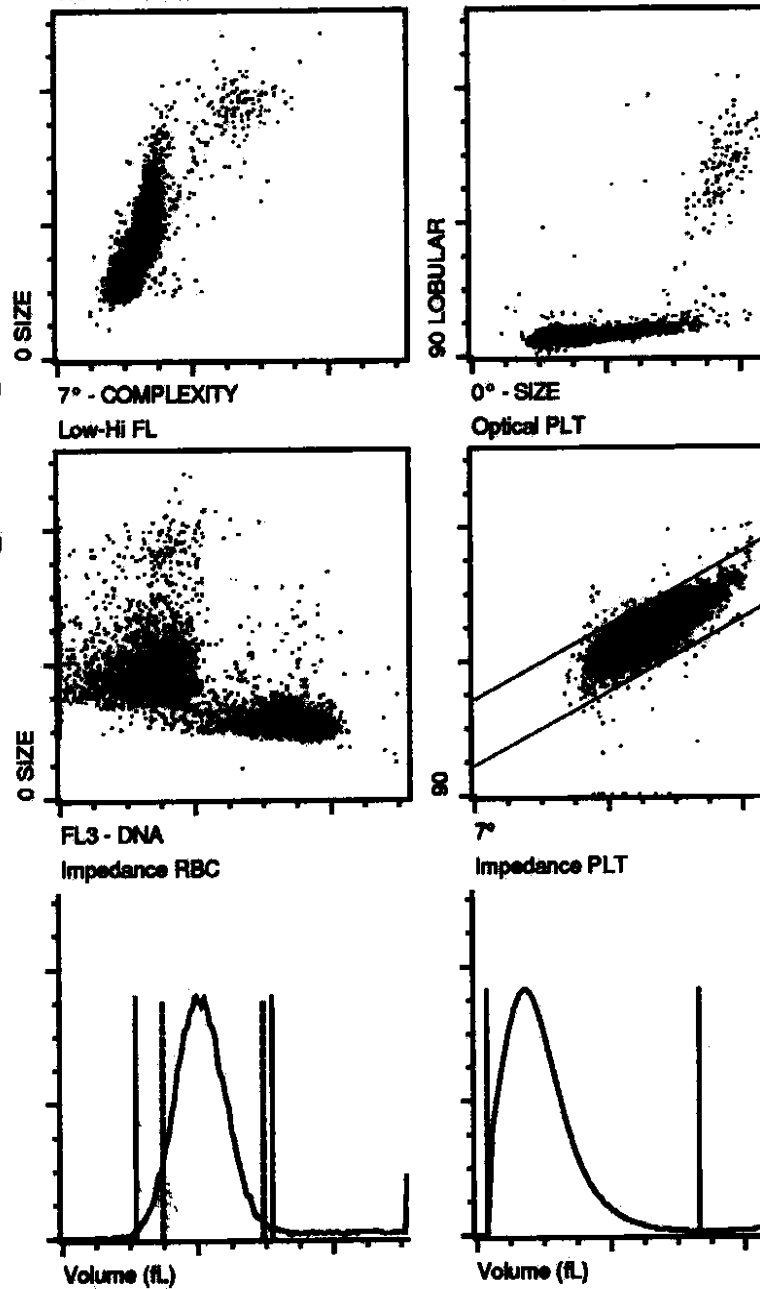
Unable to Find Clear Separation Between WBC Subpopulations  
 PIC/POC Delta

48M

patologický KO

Sex:  
 Doctor:  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B	WBC	RBC	PLT	RETC	
WBC	<u>120.</u>	10e9/L	↑	WVF	.613
SEG	<u>3.59</u>			%S	<u>2.98</u> ↓
BAND	<u>0.00</u>			%BD	0.00
IG	<u>0.00</u>			%IG	0.00
BLST	<u>.018</u>			%BL	.015
MONe	<u>4.12</u>			%Me	3.42
EOS	<u>.036</u>			%E	.030
BASO	<u>.405</u>			%B	.336
LYMe	<u>66.5</u>			%Le	<u>55.2</u> ↑
VARL	<u>45.9</u>			%VL	<u>38.1</u> ↑
				VARLYM	0.90
RBC	<u>3.53</u>	10e12/L		RBCo	<u>3.48</u>
HGB	<u>96.2</u>	g/L		%MIC	6.70
HCT	<u>292</u>	L/L		%MAC	1.56
MCV	<u>82.7</u>	fL		%HPO	14.7
MCH	<u>27.2</u>	pg		%HPR	.181
MCHC	<u>329.</u>	g/L			
RDW	<u>17.9</u>	%CV	↑		
HDW	<u>10.0</u>	%			
RETC	<u>69.0</u>	10e9/L	✓	%R	1.95
IRF	<u>363</u>	↑			
NRBC	<u>0.00</u>	10e9/L		NRW	0.00
MCVr	<u>92.7</u>	fL			
MCHr	<u>26.6</u>	pg			
CHCr	<u>284.</u>	g/l			
PLTo	<u>180.</u>	10e9/L		PLTi	185.
MPV	<u>6.67</u>	fL		CD61	----
PDW	<u>16.4</u>	10(GSD)		PLTs	----
PCT	<u>1.20</u>	mL/L		PLTI	----
%rP	<u>12.2</u>	%			



patologický KO

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VARLYM	TARGET	
BASO	TOXGRAN	SPHERO	NBCC
PLT EST		PIT MORPH	



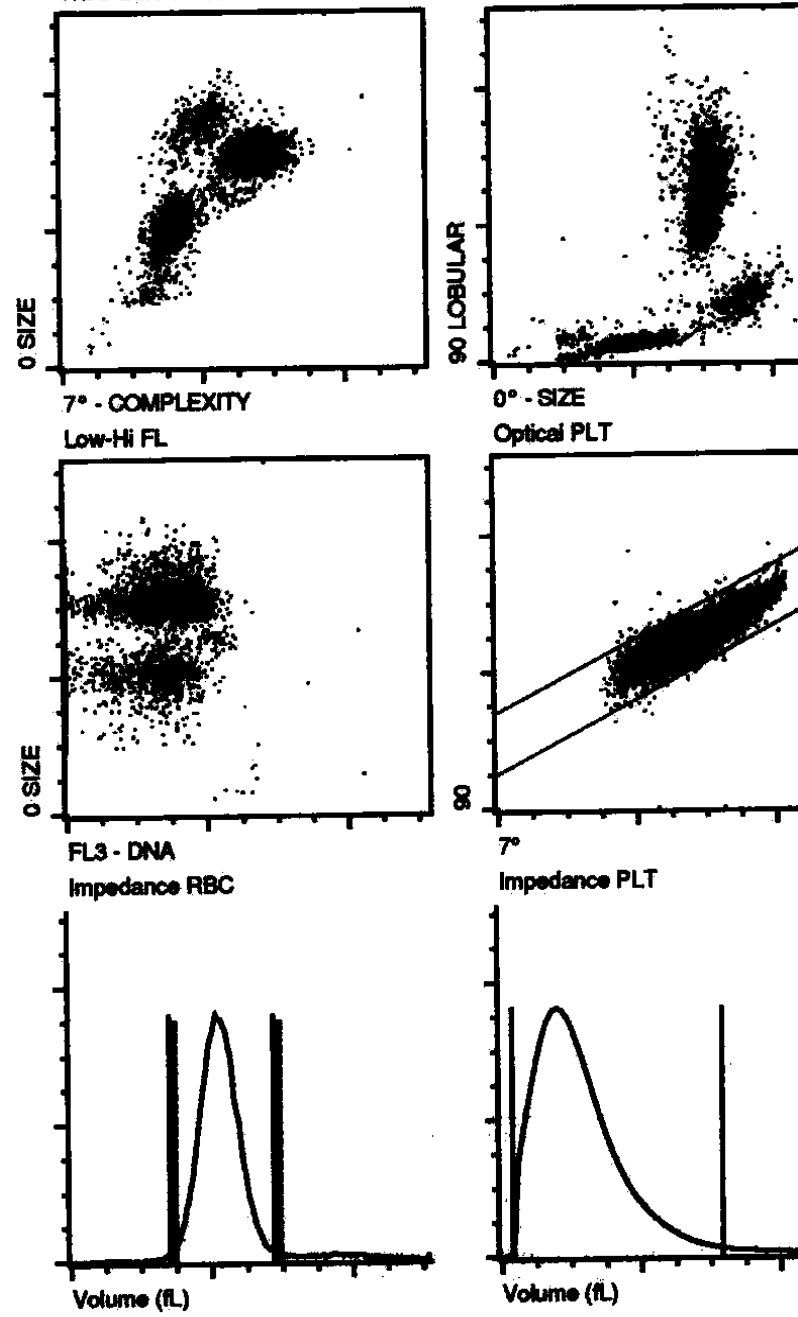
Sex: F  
 Doctor: 0630/12/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

50F

X-B In	WBC In	RBC In	PLT In	RETC In
WBC	6.32	10e9/L	WVF	.995
SEG	3.69		%S	58.5
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.557		%Me	8.81
EOS	.118		%E	1.87
BASO	.040		%B	.631
LYMe	1.91		%Le	30.2
VARL	0.00		%VL	0.00
RBC	4.58	10e12/L	RBCo	4.45
HGB	131.	g/L	%MIC	1.54
HCT	.391	L/L	%MAC	.982
MCV	85.4	fL	%HPO	3.84
MCH	28.7	pg	%HPR	0.00
MCHC	336.	g/L		
RDW	12.5	%CV		
HDW	6.52	%		
RETC	60.7	10e9/L	%R	1.33
IRF	.221			
NRBC	0.00	10e9/L	NR/W	0.00
MCVr	93.2	fL		
MCHr	27.5	pg		
CHCr	292.	g/L		
PLTo	267.	10e9/L	PLTi	265.
MPV	7.20	fL	CD61	----
PDW	17.3	10(GSD)	PLTs	----
PCT	1.93	mL/L	PLTI	----
%rP	.619	%		



Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC



KO v normě

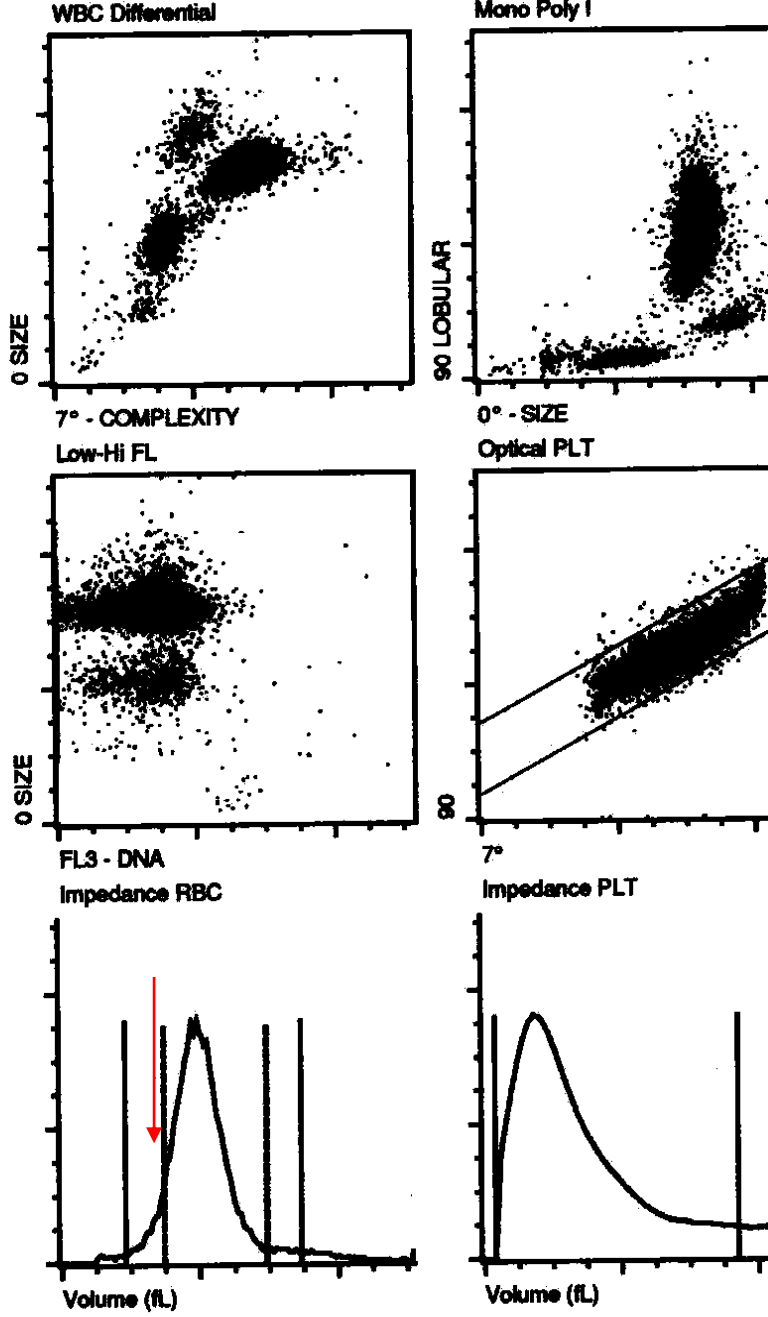




Sex: M  
 Doctor: 0678/12/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	9.23	10e9/L	✓WVF	.993	
SEG	<u>6.82</u>		%S	<u>73.9</u>	↑
BAND	0.00		%BD	0.00	
IG	0.00		%IG	0.00	
BLST	0.00		%BL	0.00	
MONe	.428		%Me	4.63	✓
EOS	.094		%E	1.02	
BASO	.067		%B	.731	
LYMe	1.82		%Le	19.7	↔
VARI	0.00		%VL	0.00	
<hr/>					
RBC	<u>3.55</u>	10e12/L	RBCo	<u>3.52</u>	
HGB	<u>102</u>	g/L	%MIC	9.69	■
HCT	<u>287</u>	L/L	%MAC	2.93	
MCV	<u>80.9</u>	fL	%HPO	7.06	
MCH	28.6	pg	%HPR	.970	
MCHC	353.	g/L			
RDW	<u>20.5</u>	%CV			
HDW	11.0	%			
RETC	<u>101.</u>	10e9/L	%R	<u>2.84</u>	
IRF	<u>327</u>				
NRBC	0.00	10e9/L	NRW	0.00	
MCVr	88.3	fL			
MCHr	26.9	pg			
CHCr	298.	g/L			
PLTo	202.	10e9/L	PLTi	234.	
MPV	10.4	fL	CD61	---	
PDW	<u>17.2</u>	10(GSD)	PLTs	---	✓
PCT	2.11	mL/L	PLTI	---	
%rP	2.13	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC



51M

patologický KO

Sex: F  
 Doctor: 0629/12/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

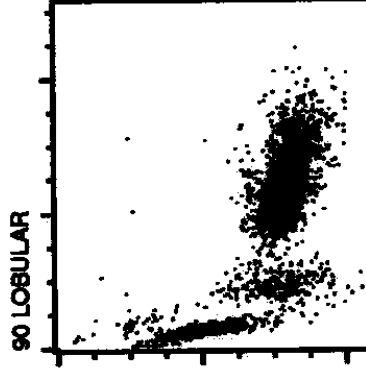
X-B In	WBC In	RBC In	PLT In	RETC In
WBC	4.44	10e9/L	WVF	.993
SEG	2.50		%S	56.3
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.459		%Me	10.3
EOS	.293		%E	6.60
BASO	.012		%B	.269
LYMe	1.18		%Le	26.5
VARL	0.00		%VL	0.00
RBC	3.41	10e12/L	RBCo	3.39
HGB	106.	g/L	%MIC	1.13
HCT	299	L/L	%MAC	1.18
MCV	87.7	fL	%HPO	.882
MCH	31.1	pg	%HPR	.202
MCHC	355.	g/L		
RDW	12.2	%CV		
HDW	8.05	%		
RETC	116.	10e9/L ↑	%R	3.40
IRF	.225	✓		
NRBC	0.00	10e9/L	NRW	0.00
MCVr	94.6	fL		
MCHr	29.3	pg		
CHCr	307.	g/L		
PLTo	169.	10e9/L	PLTi	172.
MPV	8.85	fL	CD61	----
PDW	16.7	10(GSD)	PLTs	----
PCT	1.50	mL/L	PLTI	----
%rP	1.27	%		



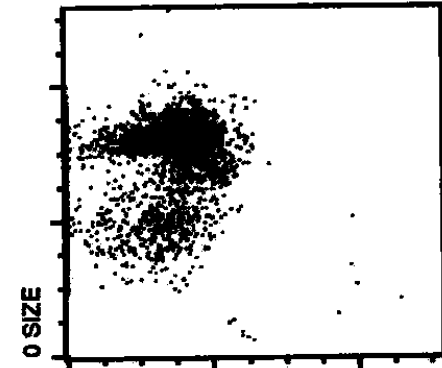
Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	



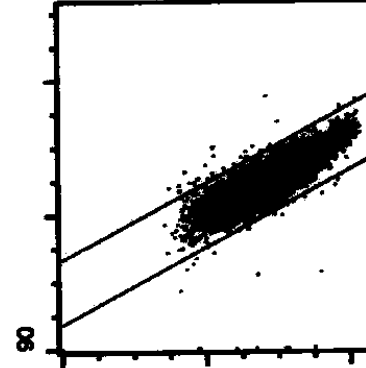
7° - COMPLEXITY  
Low-Hi FL



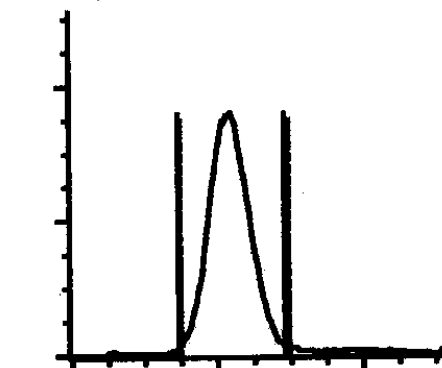
0° - SIZE  
Optical PLT



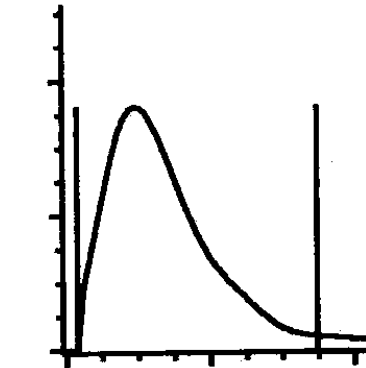
FL3 - DNA  
Impedance RBC



7°  
Impedance PLT



Volume (fL)



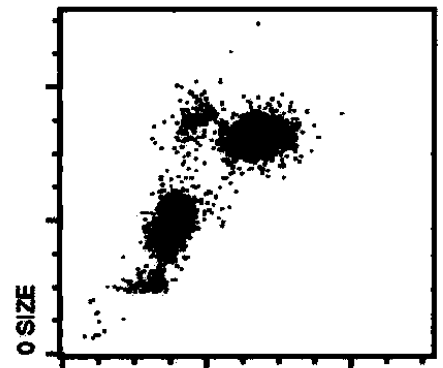
Volume (fL)

patologický KO

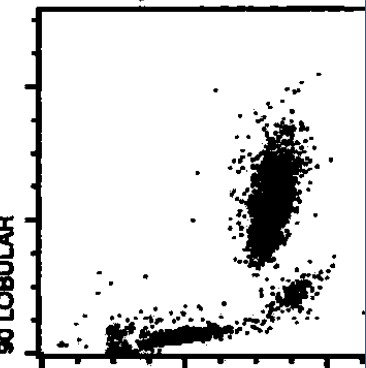
Sex: F  
 Doctor: 0610/12/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In
WBC	4.42	10e9/L	WVF	.996
SEG	2.47		%S	56.0
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.238		%Me	5.38
EOS	.024		%E	.542
BASO	.031		%B	.697
LYMe	1.65		%Le	37.4
VARL	0.00		%VL	0.00
RBC	4.53	10e12/L	RBCo	4.44
HGB	138.	g/L	%MIC	1.10
HCT	.401	L/L	%MAC	1.05
MCV	88.5	fL	%HPO	.424
MCH	30.4	pg	%HPR	.013
MCHC	344.	g/L		
RDW	12.3	%CV		
HDW	7.01	%		
RETC	45.8	10e9/L	%R	1.01
IRF	.105			
NRBC	0.00	10e9/L	NR/W	0.00
MCVr	97.3	fL		
MCHr	30.4	pg		
CHCr	310.	g/L		
PLTo	197.	10e9/L	PLTi	196.
MPV	9.81	fL	CD61	----
PDW	17.6	10(GSD)	PLTs	----
PCT	1.94	mL/L	PLTI	----
%rP	.143	%		

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	



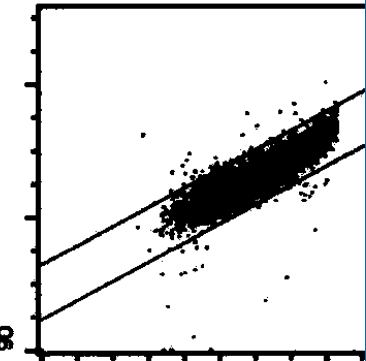
7° - COMPLEXITY  
Low-Hi FL



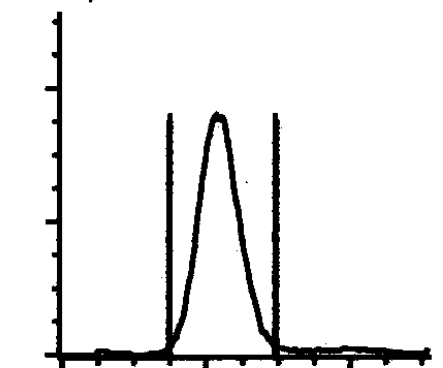
0° - SIZE  
Optical PLT



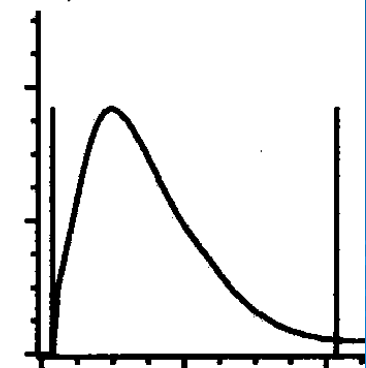
FL3 - DNA  
Impedance RBC



7°  
Impedance PLT



Volume (fL)



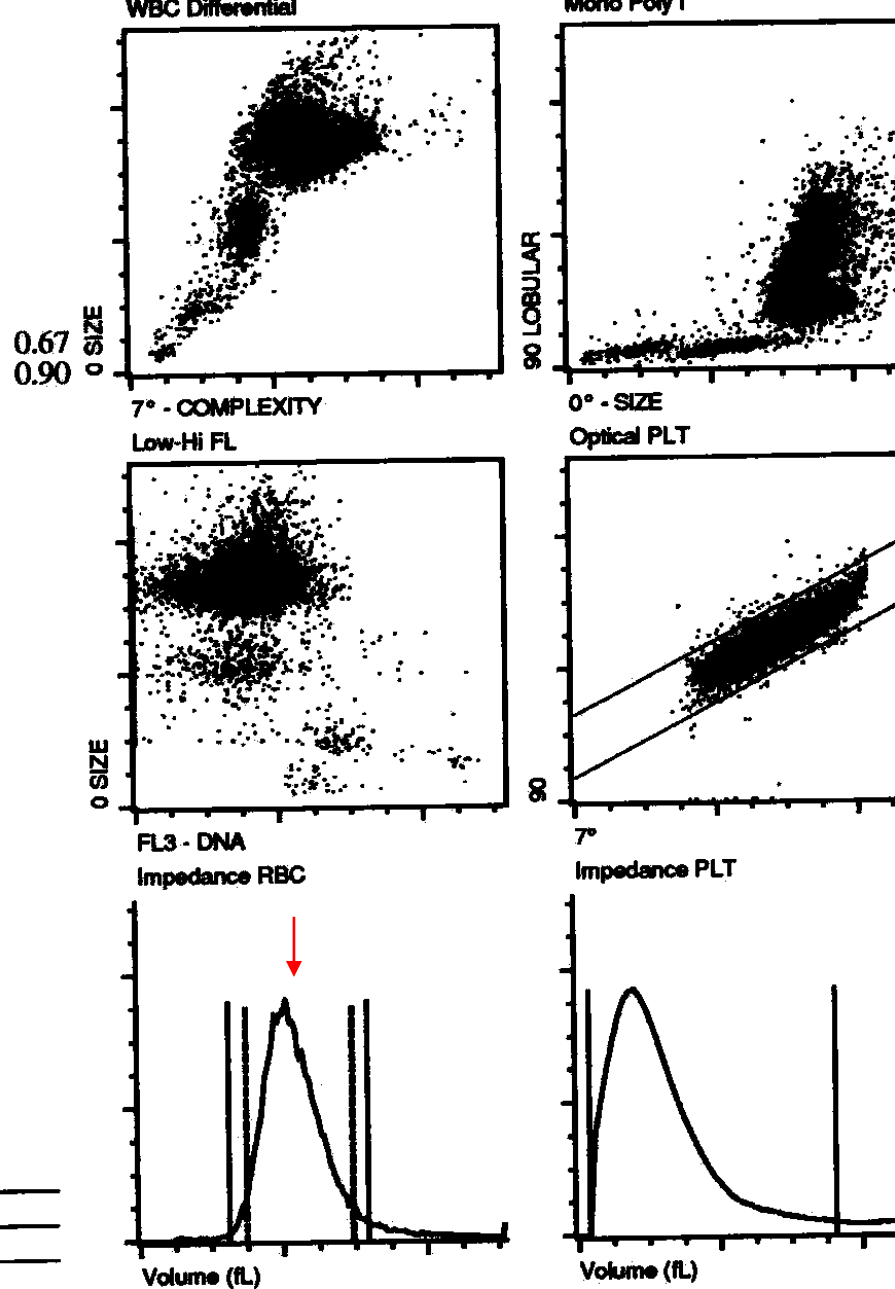
Volume (fL)

patologický KO

Sex: F  
 Doctor: 0600/12/05/2011  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	
WBC	13.4	10e9/L	↑	WVF .972	✓
SEG	7.29			%S 54.6	✓
BAND	1.12			%BD 8.37	↑ BAND
IG	2.34			%IG 17.5	↑ IG
BLST	0.00			%BL 0.00	
MONE	.778			%Me 5.82	✓
EOS	.024			%E .177	
BASO	.007			%B .055	
LYMe	1.80			%Le 13.5	↓
VARL	0.00			%VL 0.00	
RBC	3.50	10e12/L	↓	RBCo 3.51	■
HGB	107.	g/L		%MIC 3.49	
HCT	.302	L/L		%MAC 4.98	
MCV	86.3	fL	✓	%HPO ----	
MCH	30.7	pg		%HPR ----	
MCHC	355.	g/L			
RDW	17.6	%CV	↑		
HDW	----	%			
RETC	----	10e9/L		%R ----	
IRF	----				
NRBC	.357	↑ 10e9/L		NR/W 2.67	
MCVr	----	fL			
MCHr	----	pg			
CHCr	----	g/L			
PLTo	160.	10e9/L		PLTI 166.	
MPV	7.95	fL		CD61 ----	✓
PDW	16.5	10(GSD)		PLTs ----	
PCT	1.27	mL/L		PLTI ----	
%rP	----	%			

Manual Differential	RBC Morphology		
SEG	META	NORMAL	MICRO
BAND	MYELO	POLYCH	MACRO
LYMPH	PRO	HYPOCH	ANISO
MONO	BLAST	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST		PLT MORPH	



patologický KO