

# Hodnocení výsledků KO

Bourková L., OKH FN Brno

# Obecná pravidla pro měření

- pravidelná kontrola KO i dif
  - kontrola správnosti (firemní materiál)
  - kontrola přesnosti (vitální krev)
  - porovnatelnost (metodik, přístrojů, laboratoří.....)
  - správná údržba přístroje (kontroly po údržbě)
- 

❖ vždy statistické vyhodnocení: CV%, SD, Mean

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- *kontrola správného odběru EDTA (evt.  $Mg^{2+}$  nebo citrát)*

*Pozor na: stáří vzorku, vzhled vzorku - chilózní, ikterický...*

# Obecná pravidla pro hodnocení

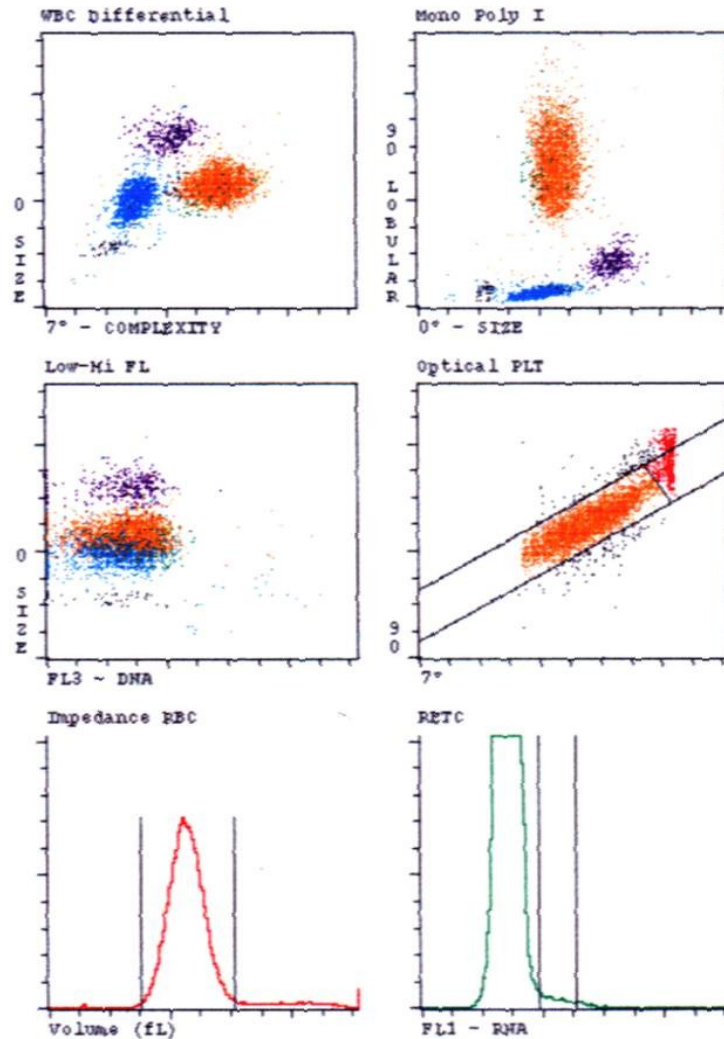
- specifická pravidla pro daný analyzátor:
  - princip měření
  - rozsah hodnot měřených parametrů (linearita)
  - hlášení přístroje
  - měřený / počítaný parametr, grafy
- klinická hlediska:
  - diagnóza
  - léčba
  - historie pacienta (LIS, četnost měření)

# Normální vzorek

Sequence #: 703 Autoloader r38t06  
 Patient/Human  
 Specimen ID: 020003255  
 Name:

Test Selection: CBC+RETC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 04.10.99 13:34

X-B In	WBC In	RBC In	PLT In	RETC In
WBC	7.88 10e9/L	WVF	.992	
SEG	4.73	%S	60.1	
BAND	0.00	%BD	0.00	
IG	0.00	%IG	0.00	
BLST	0.00	%BL	0.00	
MONe	.483	%Me	6.12	
EOS	.186	%E	2.37	
BASO	.051	%B	.641	
LYMe	2.43	%Le	30.8	
VARL	0.00	%VL	0.00	
RBC	5.22 10e12/L	RBCo	5.12	
HGB	9.38 mmol/L			
HCT	49.0 %			
MCV	93.9 fL			
MCH	1.80 fmo1			
MCHC	19.2 mmol/L			
RDW	12.4 %CV			
RETC	71.7 10e9/L	%R	1.38	
IRF	.221			
NRBC	0.00 10e9/L	NR/W	0.00	
PLTo	229. 10e9/L	PLTi	239.	
MPV	9.59 fL	CD61	----	
PDW	16.7 10(GSD)	PLTs	----	
PCT	2.19 mL/L	PLTl	----	

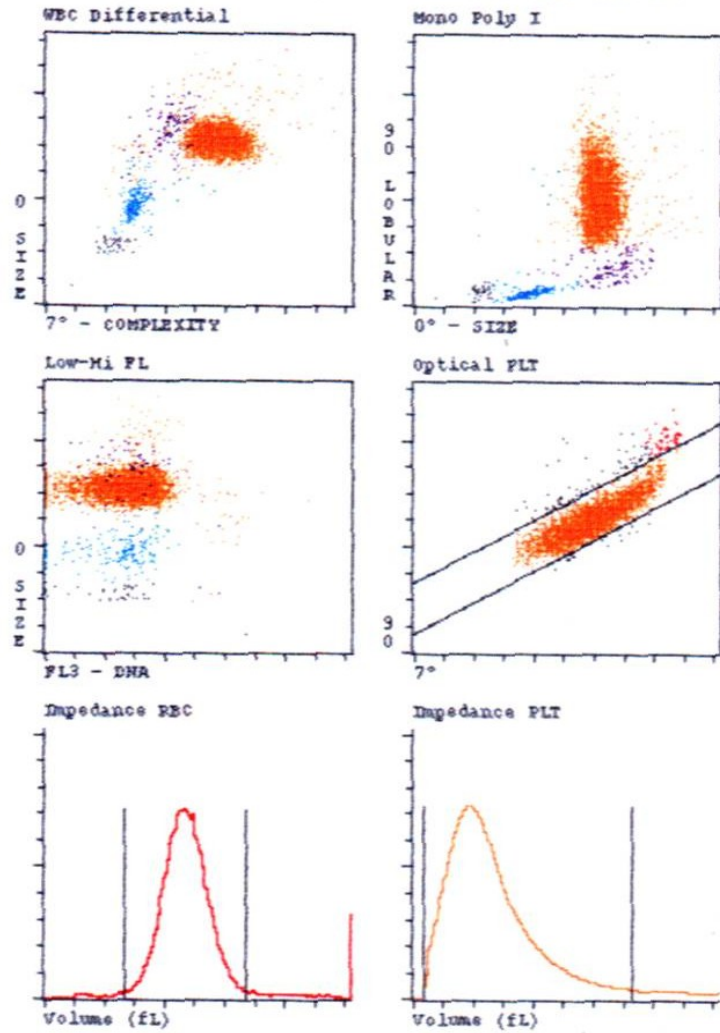


# Infekce

Sequence #: 7967 Autoloader r04t02  
 Patient/Human  
 Specimen ID: 031273  
 Name:

Test Selection: CBC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 30.04.99 08:58

X-B In	WBC 1 Out	RBC In	PLT In	RETC In	
WBC	31.0 10e9/L	WVF	.990		
SEG	17.8	%S	57.5		
BAND	9.14	%BD	29.5	BAND	.83
IG	2.06	%IG	6.65	IG	.81
BLST	0.00	%BL	0.00		
MONe	.637	%Me	2.06		
EOS	.043	%E	.139		
BASO	0.00	%B	0.00		
LYMe	1.29	%Le	4.16		
VARL	0.00	%VL	0.00		
RBC	3.39 10e12/L	RBCo	3.45		
HGB	6.49 mmol/L				
HCT	33.2 %				
MCV	98.0 fL				
MCH	1.91 fmo1				
MCHC	19.5 mmol/L				
RDW	15.3 %CV				
RETC	----	%R	----		
IRF	----				
NRBC	0.00 10e3/uL	NR/W	0.00		
PLTo	305. 10e9/L	PLTi	305.		
MPV	9.00 fL				
PDW	14.7 10(GSD)				
PCT	2.74 mL/L				



# Starý vzorek

equence #: 1448 Autoloader r93t08  
 specimen Type/SubType: Patient/Human  
 specimen ID: JJ5312  
 name:

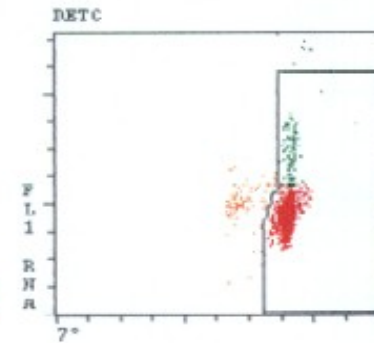
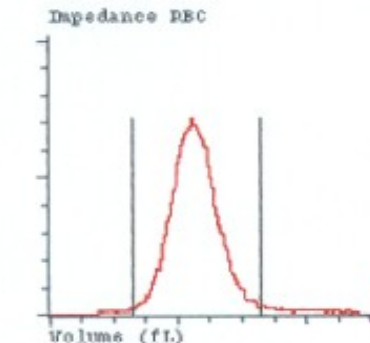
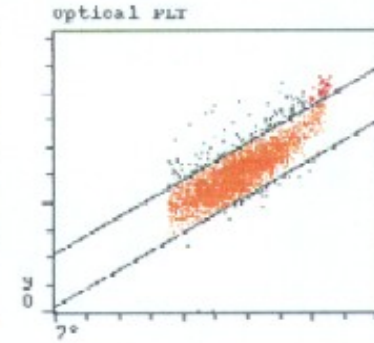
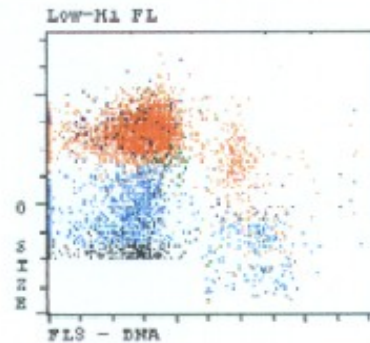
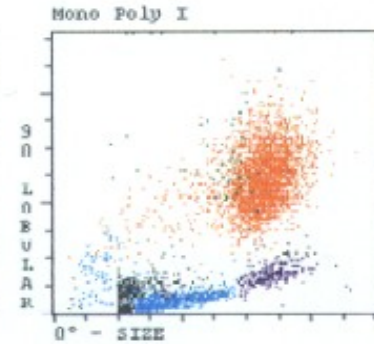
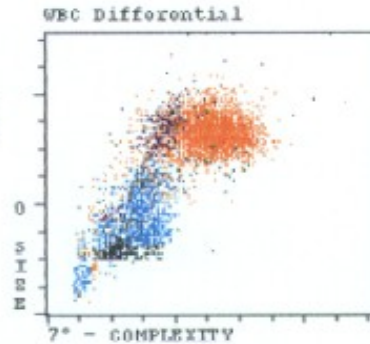
Test Selection: CBC+RETC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 28/10/98 17:16

WBC	8.30	10e3/uL	WVF	.890	nvWBC
EG	3.39		%S	40.8	
BAND	2.11		%BD	25.4	BAND
G	.551		%IG	6.64	IG
LST	0.00		%BL	0.00	
PLT	.489		%Me	5.89	
PLT	.105		%E	1.26	
PLT	.017		%B	.204	
PLT	1.65		%Le	19.8	
PLT	0.00		%VL	0.00	

RBC	3.19	10e6/uL	RBC <sub>C</sub>	3.34
HGB	9.82	g/dL		
HCT	30.3	%		
HCV	95.0	fL		
MCH	30.8	pg		
MCHC	32.4	g/dL		
RDW	15.6	%		
RETIC	60.6	10e3/uL	%R	1.90
RF	.490			IR
RBC	0.00	10e3/uL	NR/W	0.00

PLT	361.	10e3/uL	PLTi	329.
MPV	10.9	fL		
PDW	15.3	10(GSD)		
PCT	.395	%		

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



# Satelitóza trombocytů

Sequence #: 9427 Open Tube  
 Specimen Type/SubType: Patient/Human  
 Specimen ID: gruyters  
 Name:

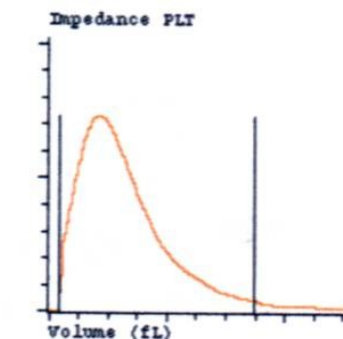
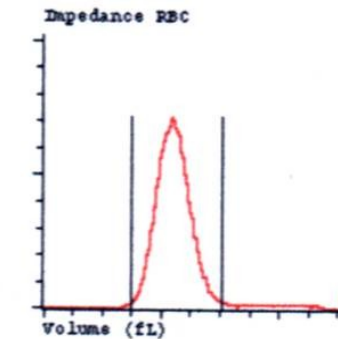
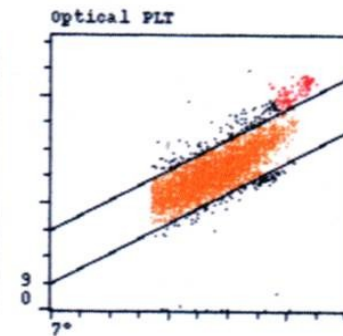
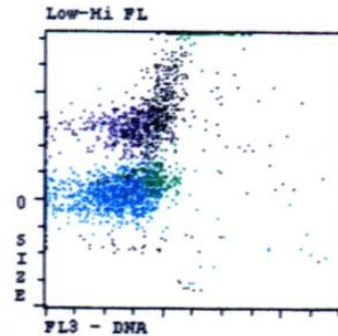
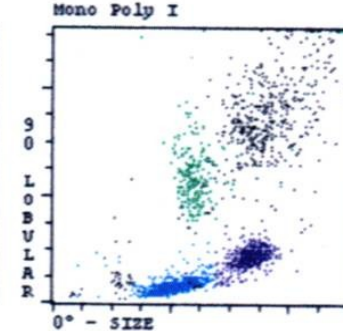
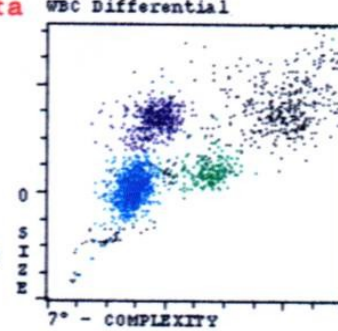
Test Selection: CBC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 26/01/99 17:44

WBC 3.20\*10e9/L WVF .954\*  
 NEU 0.00\* %N 0.00\*  
 LYM 2.00\* %L 62.6\*  
 MONO .663\* %M 20.7\*  
 EOS .512\* %E 16.0\*  
 BASO .023\* %B .732\*

\*InvalidData WBC Differential

VARLYM .50

RBC 5.00 10e12/L RBCo 4.84  
 HGB 9.50 mmol/L  
 HCT .455 L/L  
 MCV 91.0 fL  
 MCH 1.90 fmoI  
 MCHC 20.9 mmol/L  
 RDW 12.4 %CV  
 RETC --- 10e9/L %R ---  
 IRF ---  
 NRBC 0.00\*10e9/L NR/W 0.00\*  
 PLT 156. 10e9/L PLTi 162.  
 MPV 8.48 fL  
 PDW 16.9 10(GSD)  
 PCT 1.32 mL/L



# Monoblasty

Sequence #: 2830 Open Tube  
 Specimen Type/SubType: Patient/Human  
 Specimen ID:  
 Name:

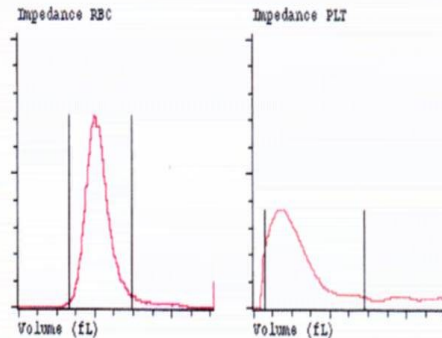
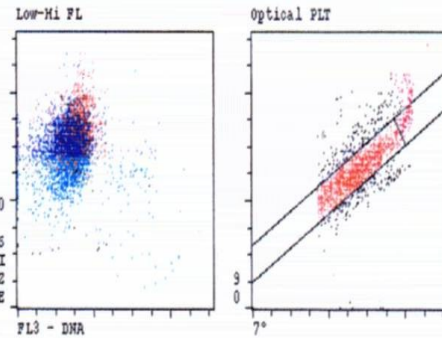
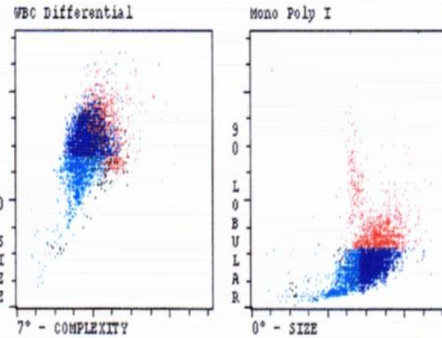
Test Selection: CBC  
 Param Set(from Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 03/06/98 10:13

**\*InvalidData**

WBC	15.0	10e9/L	WVF	.977
NEU	3.25s	%N		21.7s
LYM	3.19*	%L		21.3*
MONO	8.36*	%M		55.9*
BOS	.024	%E		.159
BASO	.136	%B		.906
		BAND		.52
		IG		.59
		BLAST		.99

RBC	3.63	10e12/L	RBCo	3.70
HGB	6.91	mmol/L		
HCT	.308	L/L		
MCV	84.9	fL		
MCH	1.90	fmoI		
MCHC	22.4	mmol/L		
RDW	14.5	%CV		
RETc	----	10e9/L	%R	----
IRF	----			
NRBC	0.00	10e9/L	NR/W	0.00

PLT	25.9	10e9/L	PLTi	36.1
MPV	8.93	fL		
PDW	18.9	10(GSD)		
PCT	.231	mL/L		



# Mononukleóza

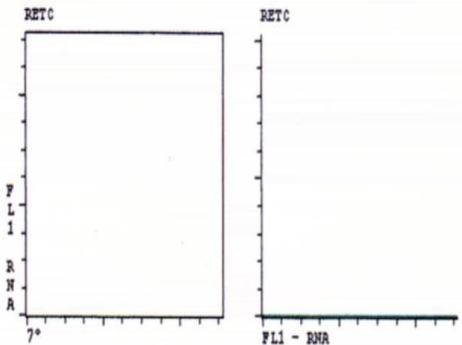
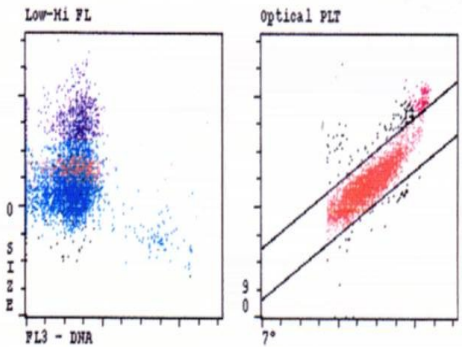
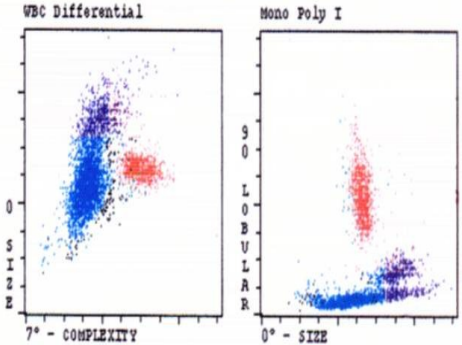
Sequence #: 3556 Autoloader  
 Specimen Type/SubType: Patient/Human  
 Specimen ID: 05374  
 Name:

Test Selection: CBC  
 Param Set(from Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 08/09/97 14:33

WBC	16.9	10e9/L	WVF	.983	
SEG	4.21	%S		24.9	
BAND	0.00	%BD		0.00	
IG	0.00	%IG		0.00	
BLST	1.11	%BL	6.52	BLAST .77	
MONe	.703	%Me		4.15	
BOS	.097	%E		.570	
BASO	.056	%B		.333	
LYMe	10.5	%Le		62.0	FP?
VARL	.258	%VL		1.52	VARLYM .90

RBC	5.36	10e12/L	RBCo	5.11
HGB	9.40	mmol/L		
HCT	.460	L/L		
MCV	85.9	fL		
MCH	1.76	fmoI		
MCHC	20.4	mmol/L		
RDW	15.5	%CV		
RETc	----	10e9/L	%R	----
IRF	----			
NRBC	0.00s	10e9/L	NR/W	0.00s

PLT	248.	10e9/L	PLTi	241.
MPV	8.34	fL		
PDW	18.0	10(GSD)		
PCT	2.07	mL/L		





# Chronická lymfatická leukémie

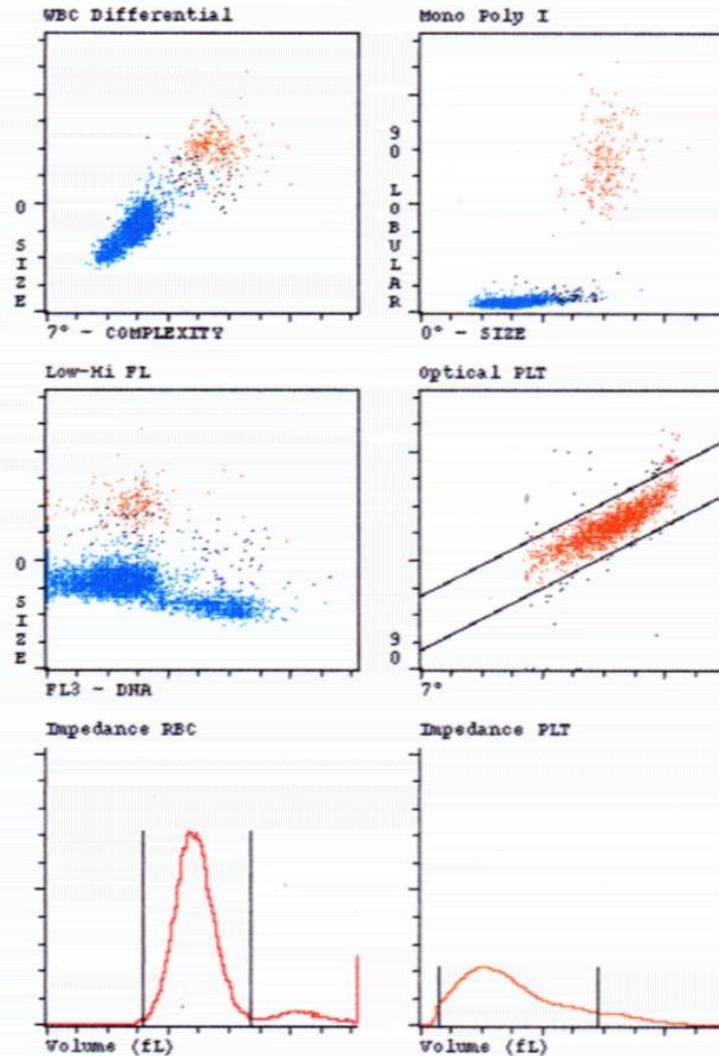
Sequence #: 3706 Autoloader r08t02  
 Patient/Human  
 Specimen ID: 990914696018  
 Name:

Test Selection: CBC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 22/09/99 13:20

X-B	WBC	RBC	PLT	RETC
In	2 Out	In	In	In
WBC	207.10e9/L	WVF	.843	nvWBC
NEU	8.76	%N	4.24	
LYM	195.5	%L	94.35	
MONO	1.62	%M	.782	
EOS	0.00	%E	0.00	
BASO	1.34	%B	.647	

VARLYM .80

RBC	3.80	10e12/L	RBCo	3.79
HGB	7.31	mmol/L		
HCT	.376	L/L		
MCV	98.9	fL		
MCH	1.92	fmol		
MCHC	19.5	mmol/L		
RDW	12.9	%CV		
RETC	----	10e9/L	%R	----
IRF	----			
NRBC	0.00	10e9/L	NR/W	0.00
PLTo	47.8	10e9/L	PLTi	42.9
MPV	9.81	fL		
PDW	17.0	10(GSD)		
PCT	.469	mL/L		



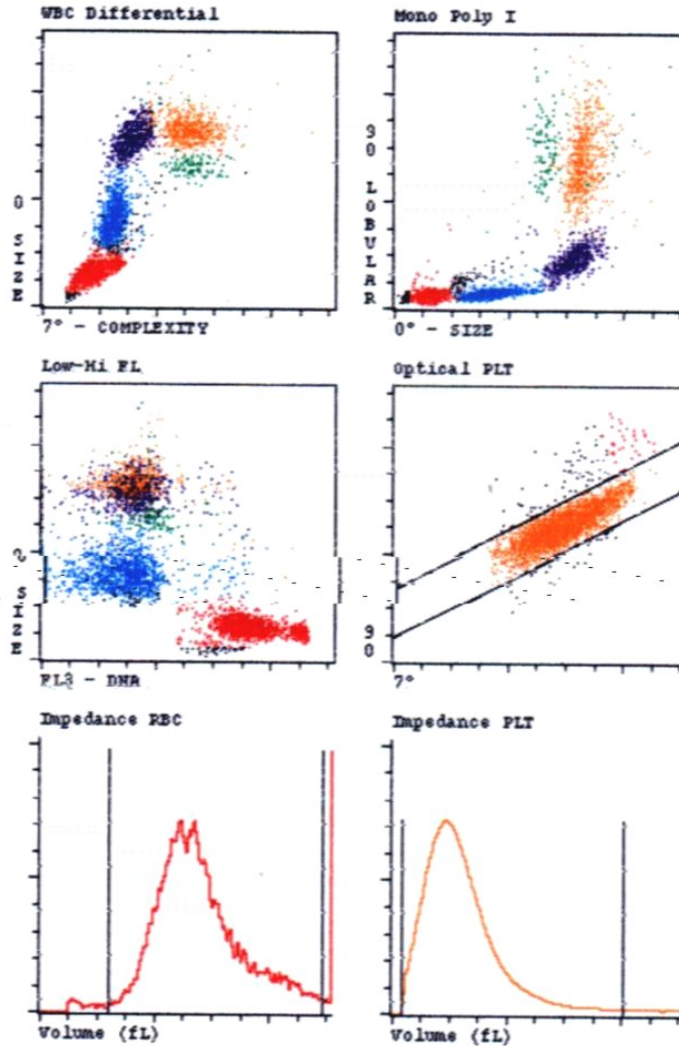
# NRBC ve vzorku

Sequence #: 7677 Open Tube  
 Patient/Human  
 Specimen ID: 990812880018  
 Name:

Test Selection: CBC+R  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 22/08/99 20:54

X-B In	WBC In	RBC In	PLT In	RETC In
WBC	7.73 10e9/L	WVF	.957	
NEU	1.86	%N	24.1	
LYM	3.74	%L	48.4	
MONO	1.78	%M	23.1	
EOS	.326	%E	4.22	
BASO	.020	%B	.258	

RBC	1.22s10e12/L	RBCo	1.28
HGB	3.23 mmol/L		
HCT	.141sL/L		ASYM
MCV	115.sfl		
MCH	2.65sfmol		
MCHC	23.0smmol/L		
RDW	26.5s%CV		
RETC	----- 10e9/L	%R	-----
IRF			
NRBC	5.07 10e9/L	NR/W	65.6
PLTo	290. 10e9/L	PLTi	285.
MPV	8.31 fl		
PDW	14.6 10(GSD)		
PCT	2.41 mL/L		



# Vzorek po dialýze

Sequence #: 4453 AutoLoader r91t07  
 Patient/Human  
 Specimen ID: JX6223  
 Name:

Test Selection: CBC+RETC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 29/06/00 12:08

X-B In	WBC In	RBC -	PLT In	RETC In
WBC	15.0*10e9/L	WVF	.990*	
NEU	5.78*	%N	38.5*	
LYM	9.00*	%L	59.9*	
MONO	.214*	%M	1.43*	
EOS	.022*	%E	.149*	
BASO	0.00*	%B	0.00*	

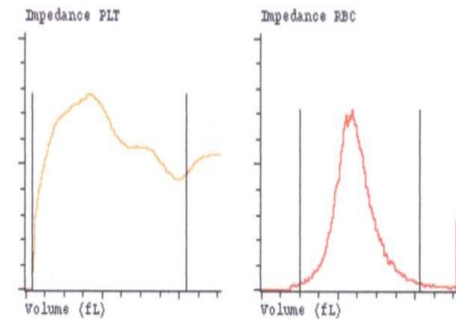
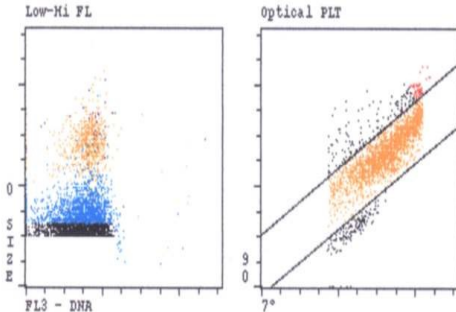
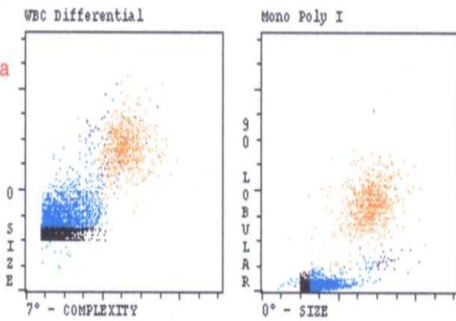
VARLYM .60

RBC	3.78s10e12/L	RBCc	3.85
HGB	8.08 mmol/L		rstRBC
HCT	.395 L/L		
MCV	104. fL		
MCH	2.13 fmoI		
MCHC	20.5 mmol/L		
RDW	21.9 %CV		
RETC	95.3s10e9/L	%R	2.52s
IRF	.335		IR
NRBC	0.00*10e9/L	NR/W	0.00*

PLTc	76.9 10e9/L	PLTi	90.3
MPV	16.6*fL	CD61	----
PDW	39.8*10(GSD)	PLTs	----
PCT	1.28*%L	PLTf	----

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

Comment:  
 DIFF by: Date:



WBC Count Rate Violation  
 Resistant RBC Interference with WBC results  
 Unable to Find Clear Separation Between WBC Subpopulations  
 Lower, Upper, or Lower and Upper Region Interference in PLTi Histogram  
 Lower, Upper, or Lower and Upper Region Interference in PLTf Histogram

# Po odstranění rstRBC

Sequence #: 4472 AutoLoader r94t09  
 Patient/Human  
 Specimen ID: JX6223  
 Name:

Test Selection: CBC+R  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 29/06/00 12:56

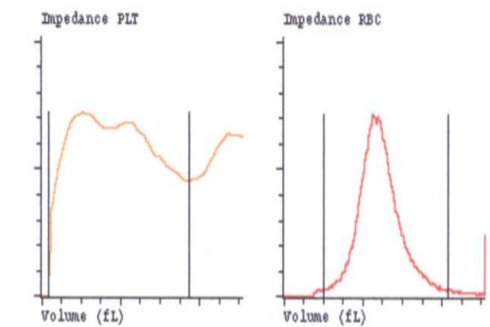
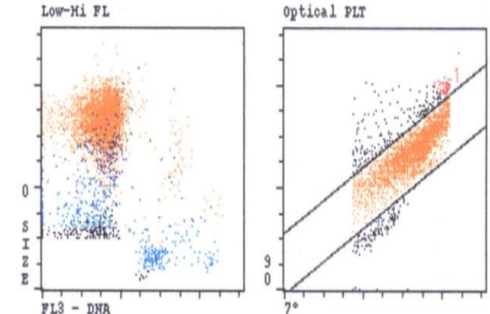
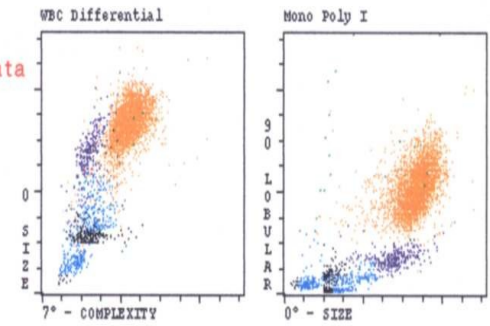
X-B In	WBC In	RBC -	PLT In	RETC In
WBC	6.47 10e9/L	WVF	.945	
NEU	5.55	%N	85.7	
LYM	.531	%L	8.21 FP?	
MONO	.364	%M	5.63	
EOS	.028	%E	.437	
BASO	.001	%B	.015	

RBC	3.74 10e12/L	RBCc	3.78
HGB	7.96 mmol/L		
HCT	.388 L/L		
MCV	104. fL		
MCH	2.13 fmoI		
MCHC	20.5 mmol/L		
RDW	21.9 %CV		
RETC	----- 10e9/L	%R	----
IRF	----		
NRBC	0.00s10e9/L	NR/W	0.00s

PLTc	75.2 10e9/L	PLTi	81.3
MPV	13.2*fL	CD61	----
PDW	19.7*10(GSD)	PLTs	----
PCT	.992*%L	PLTf	----

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

Comment:  
 DIFF by: Date:



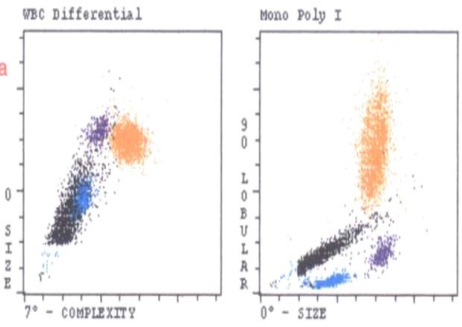
Lower, Upper, or Lower and Upper Region Interference in PLTi Histogram  
 Lower, Upper, or Lower and Upper Region Interference in PLTf Histogram

# Reakce na EDTA

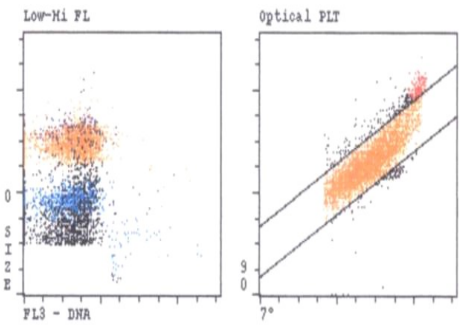
Sequence #: 8950 Auto-loader r06t03  
 Patient/Human  
 Specimen ID: 030074152  
 Name: KATINKA JOHA PETERSEN

Test Selection: CBC  
 Param Set (Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 02.05.00 09:47

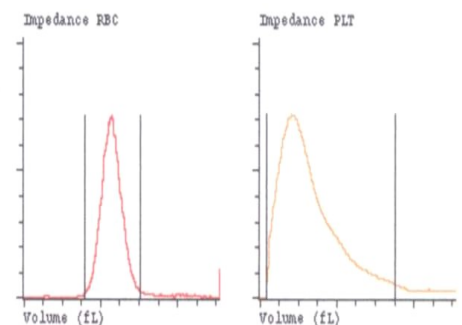
X-B In	WBC In	RBC In	PLT In	RETc In
	14.8	3.56	45.2	43.6
	10e9/L	10e12/L	10e9/L	10e9/L



WVF	.985		
%S	64.9		
%BD	0.00		
%IG	0.00		
%BL	0.00*		
%Me	8.54*		
%E	.109		
%B	.068		
%Le	26.4*FP?		
%VL	0.00*VARLYM	.50	
RBCc	3.59		
HGB	15.7 g/dL		
HCT	.454 L/L		
MCV	87.5 fL		
MCH	30.2 pg		
MCHC	34.6 g/dL		
RDW	12.1 %		
RETc	43.6 10e9/L	%R	.840
IRF	.232		
NRBC	0.00*10e3/uL	NR/W	0.00*



PLTo	132.*10e9/L	PLTi	140.*PltClmp
MPV	8.99*fL	CD61	----
PDW	15.2*10(GSD)	PLTs	----
PCT	1.18*mL/L	PLT1	----



Unable to Find Clear Separation Between WBC Subpopulations  
 Significant Number of Cells Removed from WBC Differential Analysis  
 Interference with PLT Results Due to PLT Clumping

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

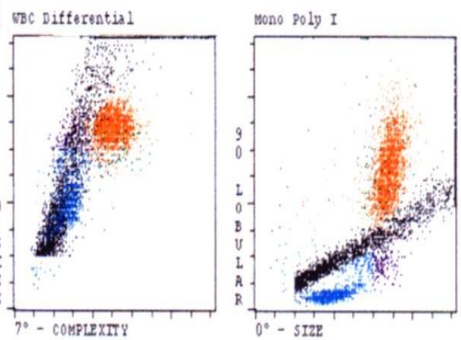
Comment:

Sequence #: 2568  
 Specimen Type/SubType: Patient/Human  
 Specimen ID: IA5285  
 Name:

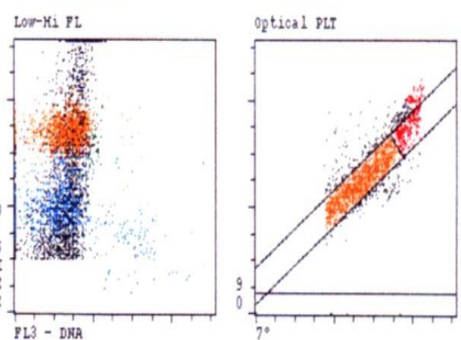
Test Selection: CBC+RETc  
 Param Set (from Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 22/01/97 12:17

Invalid Data

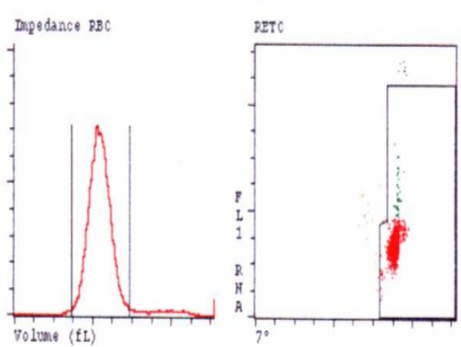
WBC	6.46*10e9/L	WVF	.961*
NEU	4.14*	%N	64.1*
LYM	1.87*	%L	29.0*
MONO	.257*	%M	3.98*
EOS	.189*	%E	2.93*
BASO	0.00*	%B	0.00*BAND



RBC	5.19 10e12/L	RBCc	5.28
HGB	15.7 g/dL		
HCT	.454 L/L		
MCV	87.5 fL		
MCH	30.2 pg		
MCHC	34.6 g/dL		
RDW	12.1 %		
RETc	43.6 10e9/L	%R	.840
IRF	.232		
NRBC	0.00*10e3/uL	NR/W	0.00*



PLT	45.2*10e9/L	PLTi	49.6*PltClmp
MPV	10.5*fL		
PDW	16.8*10(GSD)		
PCT	.476*mL/L		



# ALL a fragmenty cytoplazmy

Sequence #: 2699 Autoloader r38t02  
 Patient/Human  
 Specimen ID: 000213479091  
 Name:

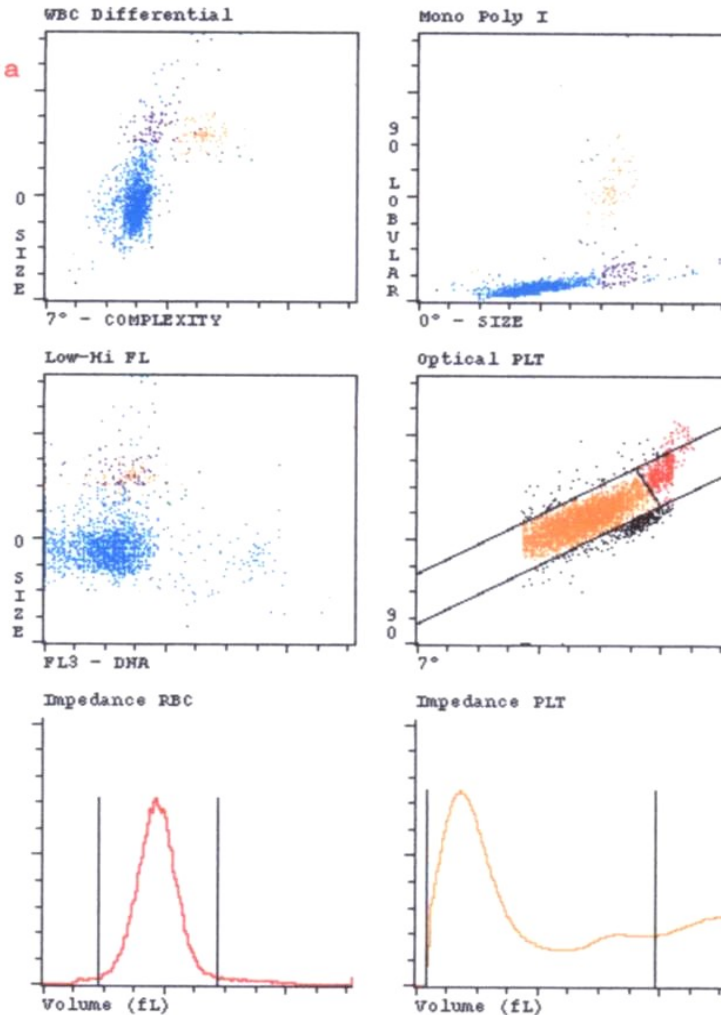
Test Selection: CBC  
 Param Set(Chart Page): 1  
 Limit Set: 1  
 Run Date/Time: 21/02/00 08:57

X-B In	WBC 2 Out	RBC In	PLT In	RETC In
WBC	3.36 10e9/L	WVF	.956	<b>*InvalidData</b>
NEU	.133	%N	3.95	
LYM	3.08s	%L	91.7s	
MONO	.136s	%M	4.05s	
EOS	.010	%E	.296	
BASO	0.00	%B	0.00	

BLAST .73  
 VARLYM .60

RBC	3.74 10e12/L	RBC <sub>o</sub>	3.78
HGB	5.81 mmol/L		
HCT	.287 L/L		
MCV	76.6 fl		
MCH	1.55 fmol		
MCHC	20.3 mmol/L		
RDW	17.9 %CV		
RETC	----- 10e9/L	%R	-----
IRF	-----		
NRBC	0.00 10e9/L	NR/W	0.00

PLT <sub>o</sub>	81.5*10e9/L	PLT <sub>i</sub>	131.*
MPV	5.41*fl	CD61	-----
PDW	15.1*10(GSD)	PLT <sub>s</sub>	-----
PCT	.441*ml/L	PLT <sub>l</sub>	-----



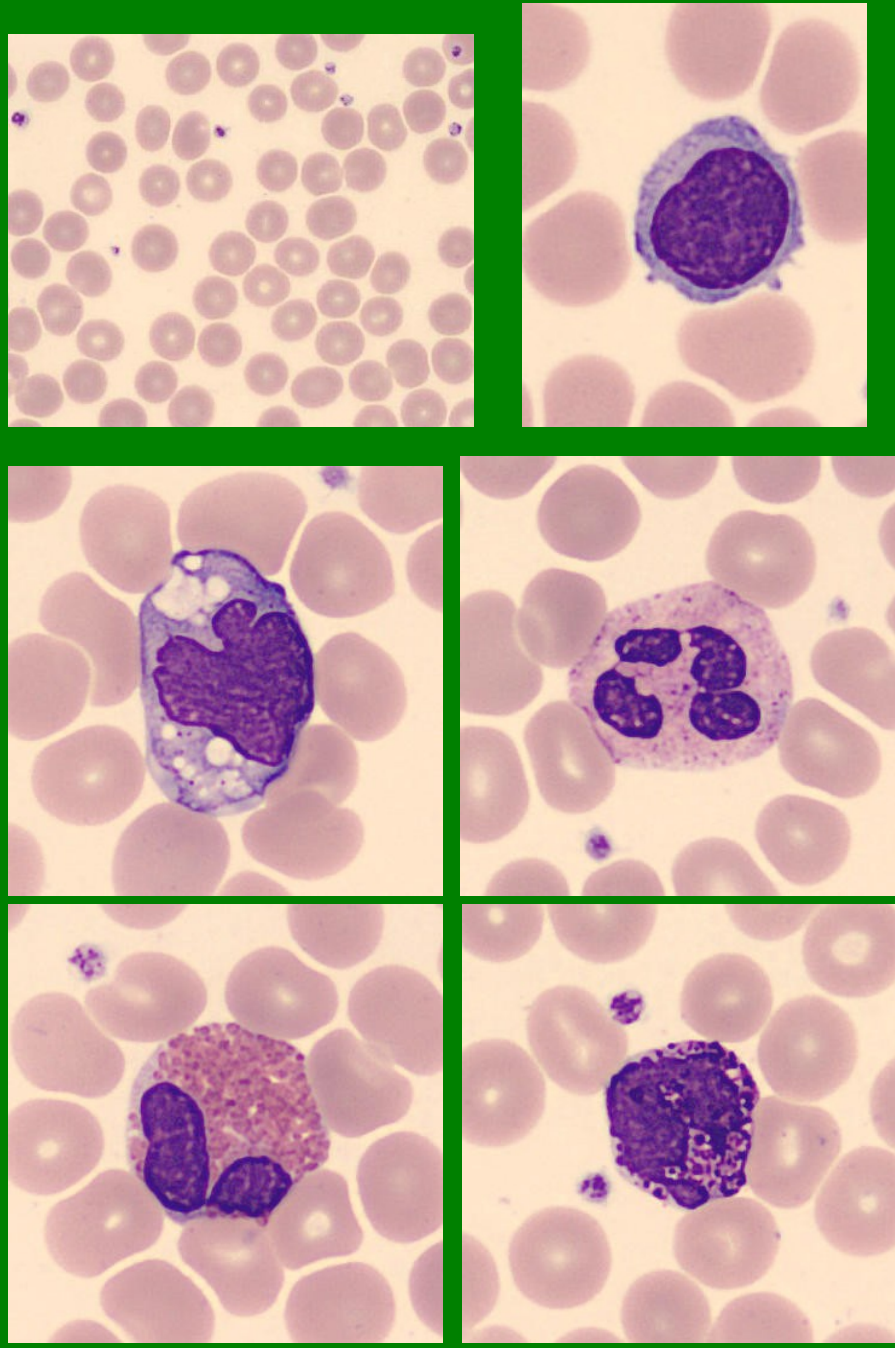
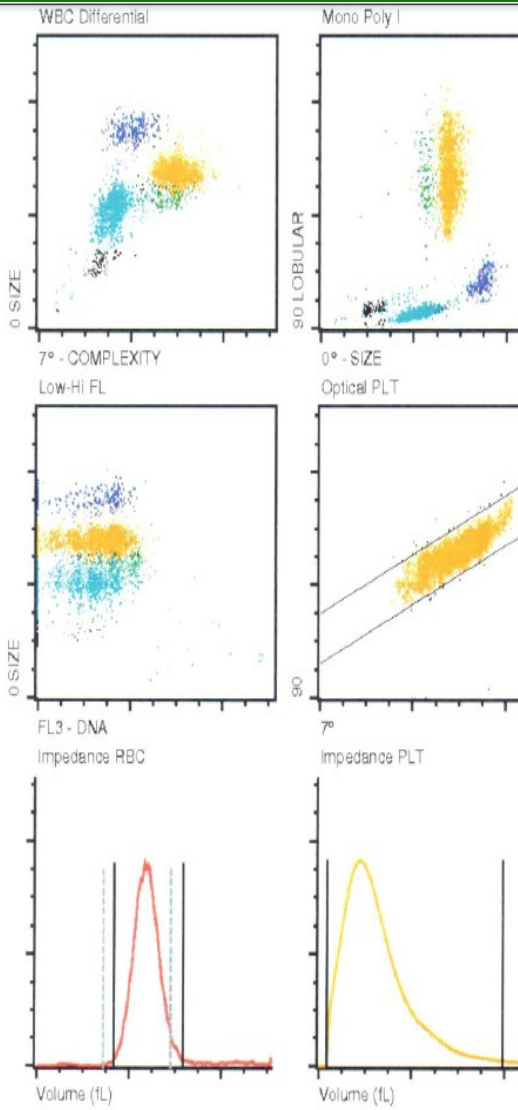
Lower, Upper, or Lower and Upper Region Interference in PLTi Histogram  
 PIC/POC Delta

# Fyziologický vzorek

Sex: F  
 Doctor: 0717/27/06/2013  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC In	WVF	%S	%BD	%IG	%BL	%Me	%E	%Le	%VL	RBCo	%MIC	%MAC	%HPO	%HPR	NRW	PLTI	CD61	PLTs	PLTI
WBC	7.36	10e9/L			.991																		
SEG	3.97					54.0																	
BAND	0.00					0.00																	
IG	0.00					0.00																	
BLST	0.00					0.00																	
MONe	.450					6.11																	
EOS	.299					4.06																	
BASO	.023					.318																	
LYMe	2.61					35.5																	
VARL	0.00					0.00																	
RBC	4.13	10e12/L			4.22																		
HGB	138.	g/L			.661																		
HCT	.406	L/L			3.87																		
MCV	98.4	fL			---																		
MCH	33.5	pg			---																		
MCHC	341.	g/L																					
RDW	11.4	%CV																					
HDW	---	%																					
RETC	---	10e9/L			%R	---																	
IRF	---																						
NRBC	0.00	10e9/L			NRW	0.00																	
MCVr	---	fL																					
MChr	---	pg																					
CHCr	---	g/L																					
PLTo	319.	10e9/L			PLTI	308.																	
MPV	8.03	fL			CD61	---																	
PDW	15.8	10(GSD)			PLTs	---																	
PCT	2.56	mL/L			PLTI	---																	
%tP	---	%																					

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



Sex: F  
 Doctor: 0568/30/04/2010  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

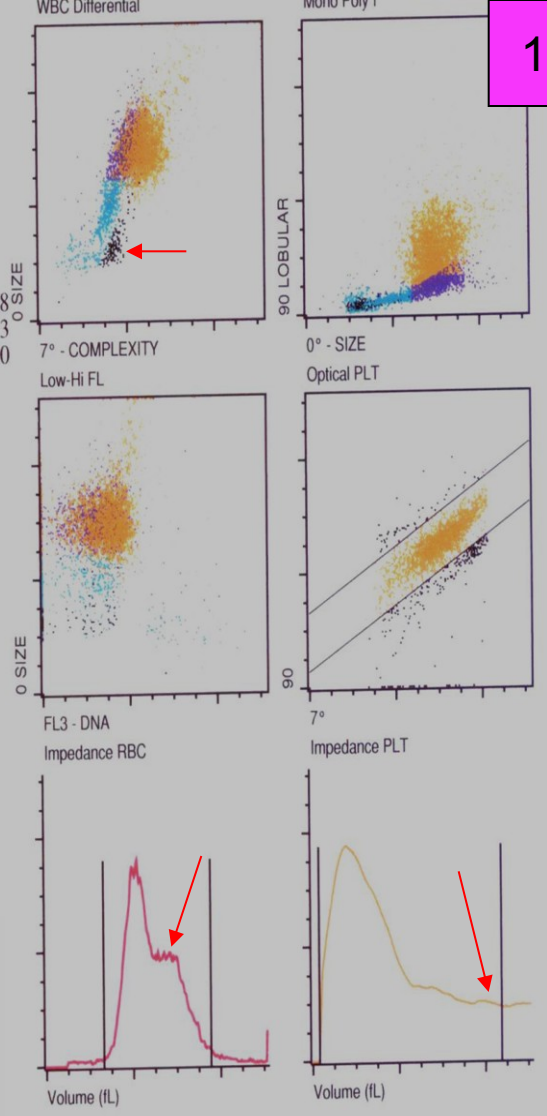
X-B In	WBC In	RBC In	PLT In	RETC In	
16.5*	10e9/L				
8.53*					
2.99*					
1.47*					
1.59					
2.79					
.018*					
0.00					
1.80					
0.00					

RBC	HGB	HCT	MCV	MCH	MCHC	RDW	RETC	IRF	NRBC	PLT <sub>o</sub>	MPV	PDW	PCT
2.80s	97.3	27.1	96.8s	34.8s	360.s	21.4s	---	---	0.00s	48.3	12.8*	24.9*	6.21*
10e12/L	g/L	L/L	fL	pg	g/L	%CV	10e9/L	%R	10e9/L	10e9/L	fL	10(GSD)	mL/L

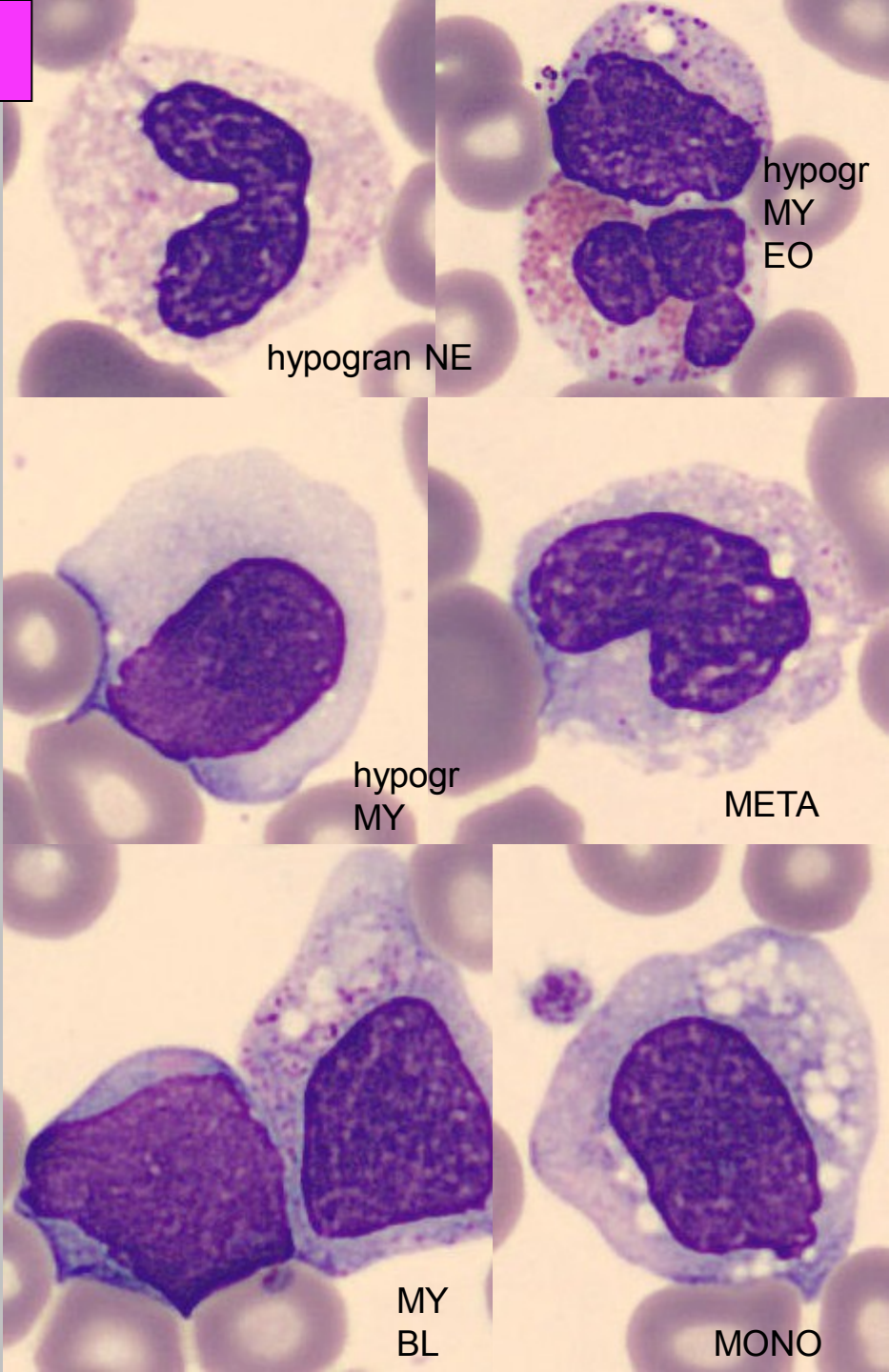
\*InvalidData  
 BAND IG BLAST

FP?

ASYM



Unable to Find Clear Separation Between WBC Subpopulations  
 Lower, Upper, or Lower and Upper Region Interference in PLTi Histogram  
 PIC/POC Delta



Sex: F  
 Doctor: 0568/30/04/2010  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B WBC RBC PLT RETC  
 In In In In In  
 WBC 16.5 10e9/L WVF .982  
 SEG 8.53\* %S 51.7\*  
 BAND .299\* %BD 1.81\* BAND 0.58  
 IG 1.47\* %IG 8.94\* IG 0.73  
 BLST 1.59 %BL 9.67 BLAST 0.90  
 MONe 2.79 %Me 16.9  
 EOS .018\* %E .112\*  
 BASO 0.00 %B 0.00  
 LYMe 1.80 %Le 10.9 FP?  
 VARL 0.00 %VL 0.00

\*InvalidData

RBC 2.80s 10e12/L RBCo 1.73  
 HGB 97.3 g/L  
 HCT .271s L/L ASYM  
 MCV 96.8s fL  
 MCH 34.8s pg  
 MCHC 360.s g/L  
 RDW 21.4s %CV  
 RETC --- 10e9/L %R ---  
 IRF ---  
 NRBC 0.00s 10e9/L NRW 0.00s  
 PLTo 48.3\* 10e9/L PLTI 82.1\*  
 MPV 12.8\* fL CD61 ---  
 PDW 24.9\* 10(GSD) PLTs ---  
 PCT .621\* mL/L PLTI ---

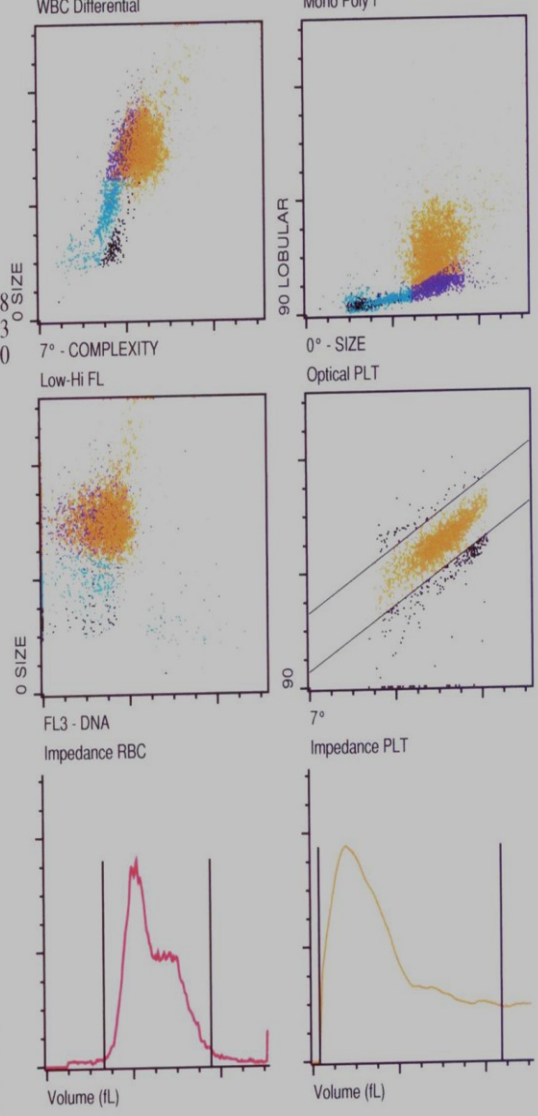
ASYM

*schisto  
stříčky*

Manual Differential		RBC Morphology	
SEG 27	META 6	NORMAL	MICRO
BAND 7	MYELO 25	POLYCH	MACRO ✓
LYMPH 4	PRO 7	HYPOCH	ANISO ✓
MONO 22	BLAST 7	POIK	BASOSTIP
EOSIN	VAR LYM	TARGET	
BASO	TOXGRAN	SPHERO	NRBC
PLT EST <i>micro, makro</i>	PLT MORPH		

Comment:  
 DIFF by: Date:

*hypogranulad, hypogranulad neu, rakualizace  
 pltku rozlišování mono x myelo x neu*



# Patient 1

- žena, 58 roků
- pacientka hospitalizovaná na JIP hematologické kliniky
- s diagnózou AML spojená s dysplázií po terapii



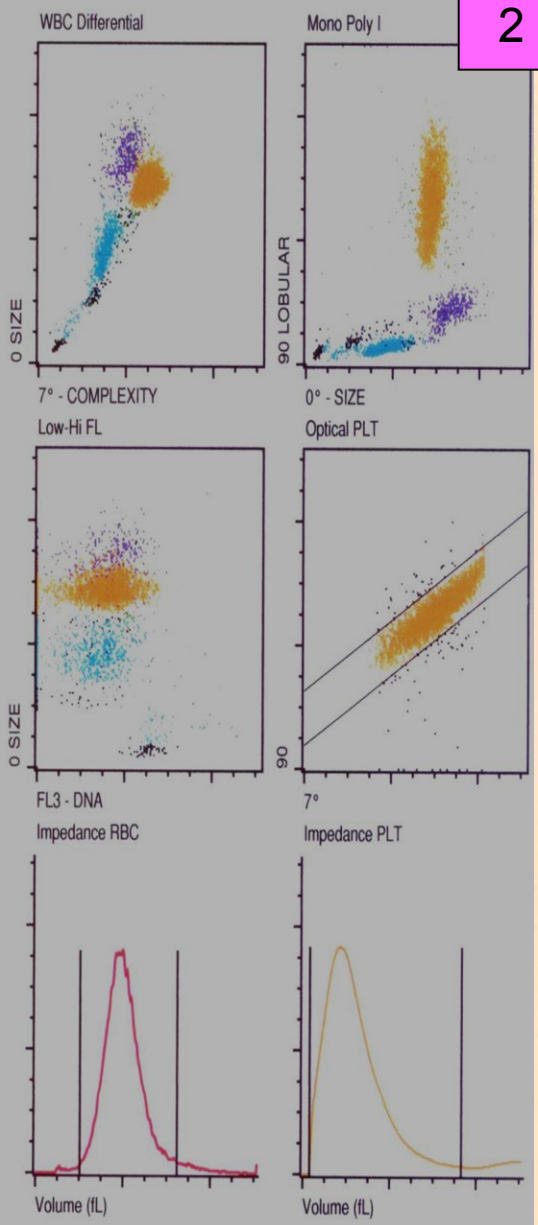
DOB: 03/21/80  
 Sex: F  
 Doctor: 0776/31/05/2010  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

X-B In	WBC In	RBC In	PLT In	RETC Out
WBC	7.41	10e9/L	WVF	.964
SEG	5.16		%S	69.7
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.716		%Me	9.67
EOS	.173		%E	2.34
BASO	.031		%B	.420
LYMe	1.32		%Le	17.9
VARL	0.00		%VL	0.00

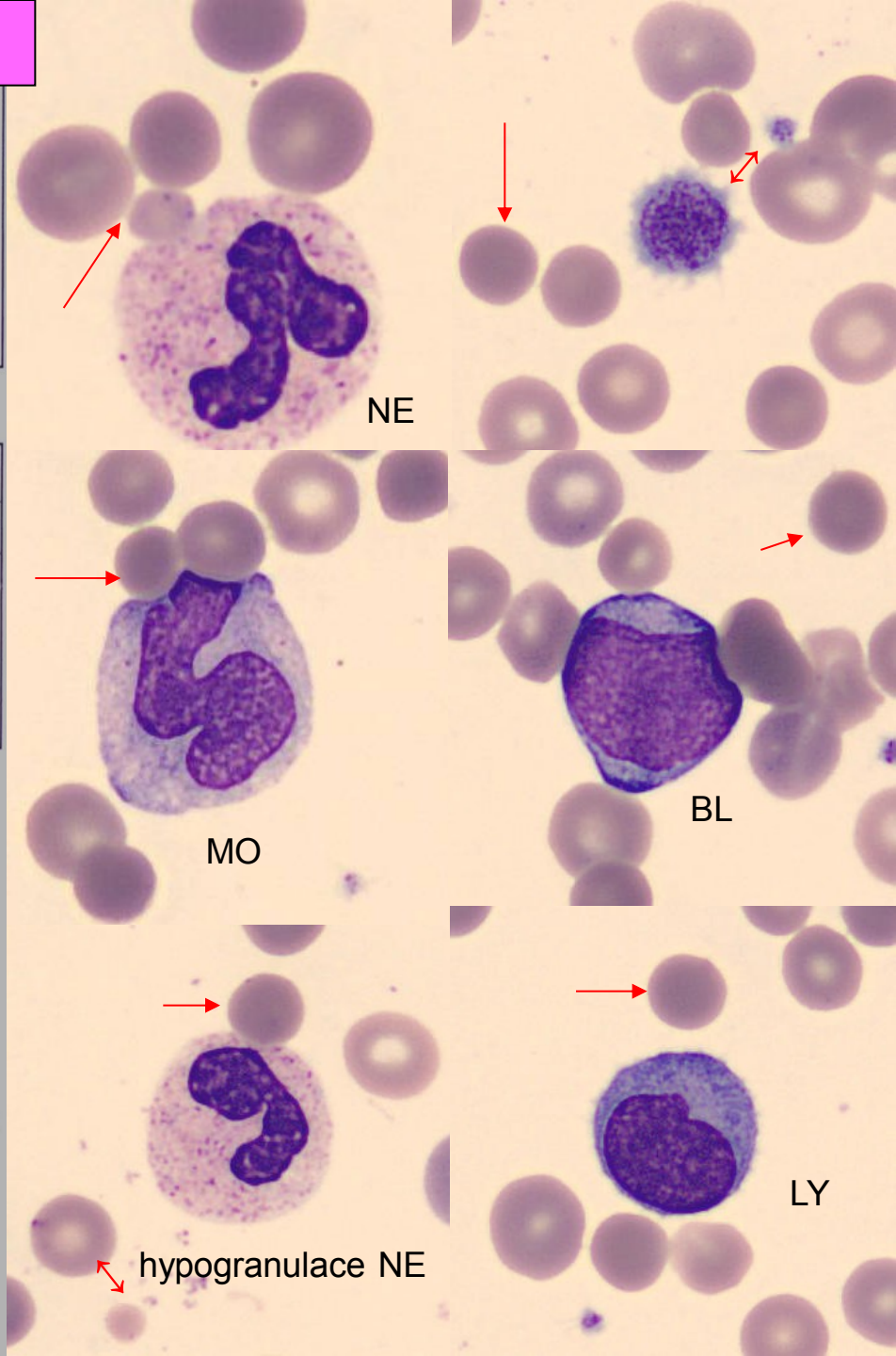
RBC	2.60	10e12/L	RBCo	2.54
HGB	79.9	g/L		
HCT	20.7	L/L		
MCV	79.7	fL		
MCH	30.8	pg		
MCHC	38.6	g/L		
RDW	19.8	%CV		
RETC	730	10e9/L	%R	28.1
IRF	.448			
NRBC	0.00s	10e9/L	NRW	0.00s

PLTo	215	10e9/L	PLTi	246
MPV	8.38	fL	CD61	---
PDW	15.4	10(GSD)	PLTs	---
PCT	1.80	mL/L	PLTI	---

FP?



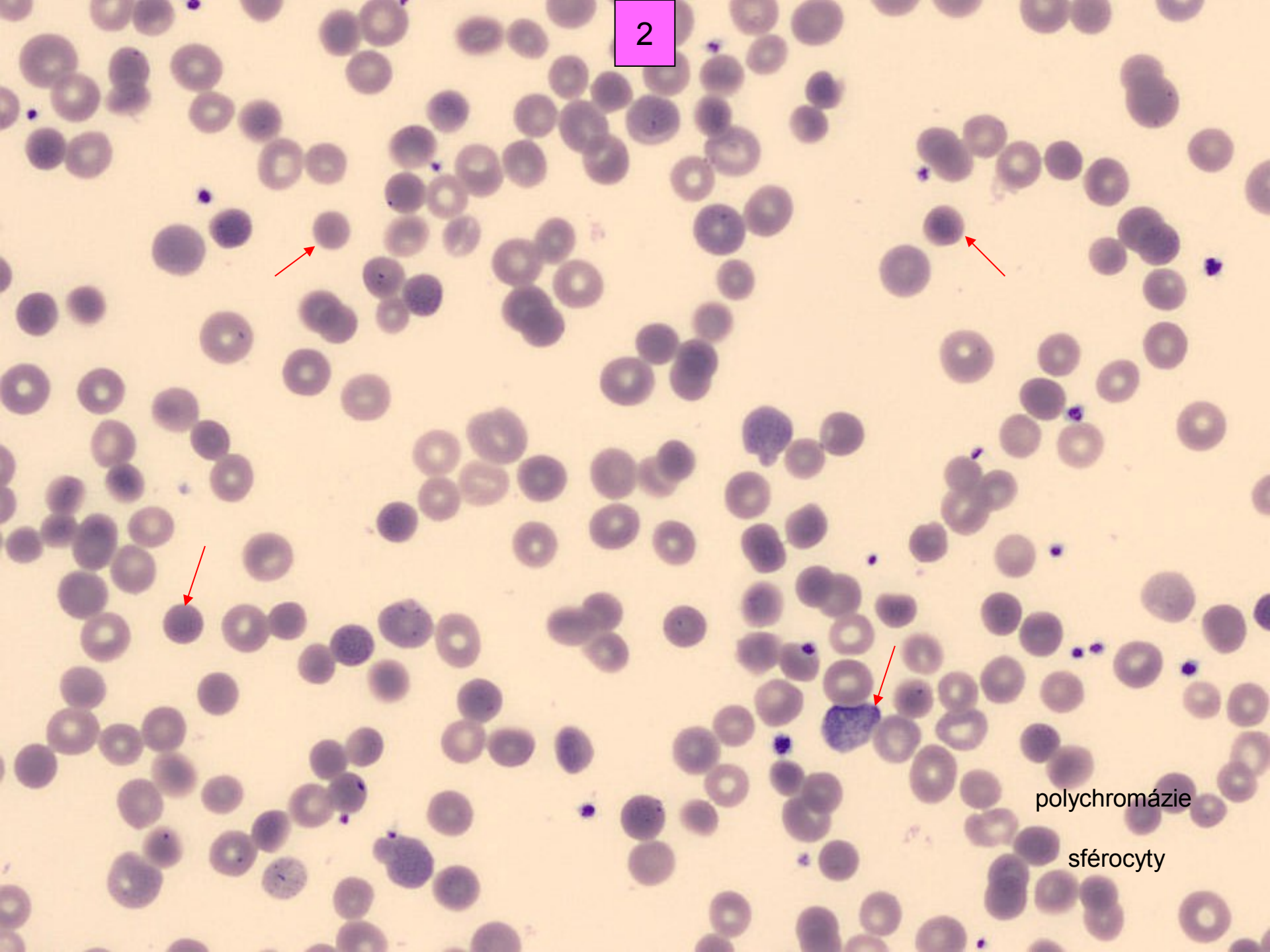
2



anizo ery  
 sférocyty  
 anizo, makro PLT



2



polychromázie

sférocyty

DOB: 03/21/80  
 Sex: F  
 Doctor: 0776/31/05/2010  
 User Defined A:  
 User Defined B:  
 User Defined C:  
 User Defined D:

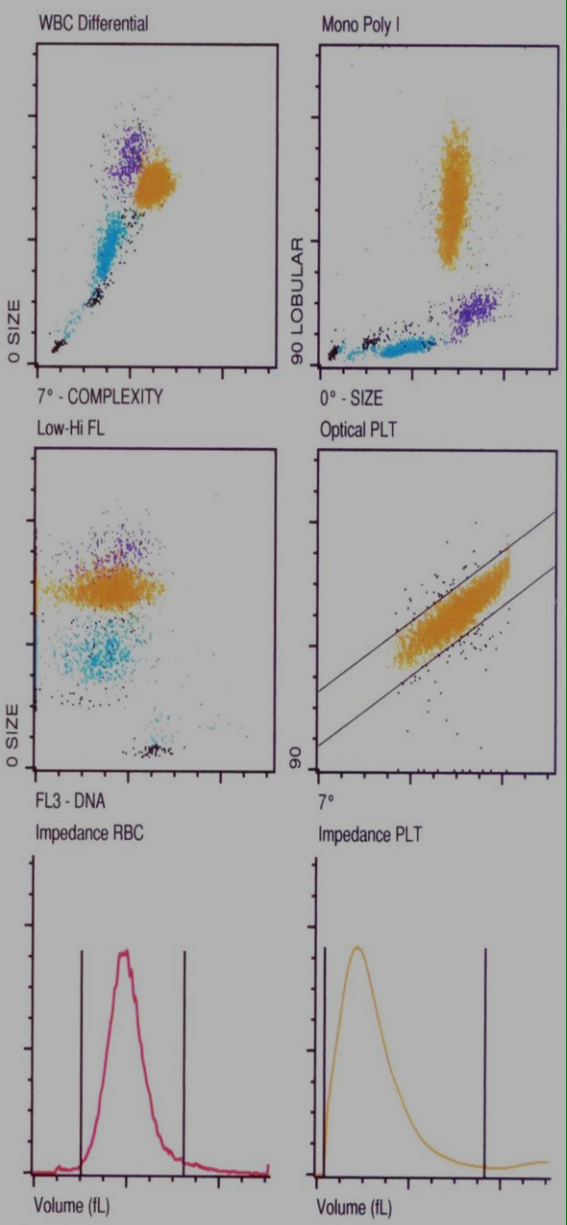
X-B In	WBC In	RBC In	PLT In	RETC I Out
WBC	7.41	10e9/L	WVF	.964
SEG	5.16		%S	69.7
BAND	0.00		%BD	0.00
IG	0.00		%IG	0.00
BLST	0.00		%BL	0.00
MONe	.716		%Me	9.67
EOS	.173		%E	2.34
BASO	.031		%B	.420
LYMe	1.32		%Le	17.9
VARL	0.00		%VL	0.00

RBC	2.60	10e12/L	RBCo	2.54
HGB	79.9	g/L		
HCT	207	L/L		
MCV	79.7	fL		
MCH	30.8	pg		
MCHC	386.	g/L		
RDW	19.8	%CV		
RETC	730.	10e9/L	%R	28.1
IRF	448			
NRBC	0.00s	10e9/L	NR/W	0.00s
PLTo	215.	10e9/L	PLTi	246.
MPV	8.38	fL	CD61	----
PDW	15.4	10(GSD)	PLTs	----
PCT	1.80	mL/L	PLTI	----

Manual Differential	RBC Morphology		
SEG 68	META 1	NORMAL	MICRO ✓
BAND 1	MYELO	POLYCH ✓	MACRO ✓
LYMPH 20	PRO	HYPOCH	ANISO ✓
MONO 4	BLAST 1	POIK	BASOSTIP
EOSIN 3	VAR LYM	TARGET	<i>sk. roty</i>
BASO 1	TOXGRAN	SPHERO	NRBC
PLT EST <i>epizo</i>	PLT MORPH		

Comment: *hypogranulace neu*  
 DIFF by: \_\_\_\_\_ Date: \_\_\_\_\_

FP?



# Patient 2

- žena, 30 roků
- ambulantní pacientka
- diagnóza: dědičná sférocyóza