

Verein für
Association pour le
Associazione per il



medizinische Qualitätskontrolle
contrôle de qualité médical
controllo di qualità medico

Report

Differential Blood Smear H3

MQ 2018-2

Acknowledgements

The Mythic 18 analyzer was provided by the company Polymed, the ABX Microsemi CRP analyzer by the company Axonlab and the XP-300 analyzer by the Firma Sysmex. MQ employees conducted the measurements.

The findings of the XE-5000 and ADVA 2120 devices and of the microscopic blood counts were generated by the Central Laboratory of Medical Diagnostic HAD of the University Hospital Zurich Hematology Clinic. The lab is ISO/IEC 17025 certified (STS 445). Dr. J-D. Studt is the responsible manager; Prof. MG Manz, M.D., the clinic director.

www.haematologie.usz.ch

For information regarding all analyses offered by the University Hospital of Zurich, see:

www.uzl.usz.ch

(c) 2017 Verein für medizinische Qualitätskontrolle

Index

1	SAMPLE A	4
1.1	ABX Microsemi CRP	4
1.2	Mythic	5
1.3	Sysmex XP300	6
1.4	Nihon Kohden Celltac alpha	Fehler! Textmarke nicht definiert.
1.5	Sysmex XE-5000	6
1.6	ADVIA 2120	9
1.7	Differential Blood Smear	11
1.8	Summary of participant results	13
1.9	Qualab Codes	14
2	SAMPLE B	15
2.1	ABX Microsemi CRP	15
2.2	Mythic	16
2.3	Sysmex XP300	16
2.4	Nihon Kohden Celltac alpha	Fehler! Textmarke nicht definiert.
2.5	Sysmex XE-5000	18
2.6	ADVIA 2120	20
2.7	Differential Blood Smear	22
	Summary of participant results	24
2.8	Qualab Codes	25

1 Sample A

1.1 ABX Microsemi CRP

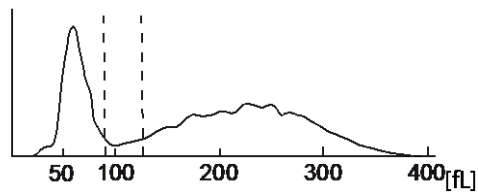


Findings MQ 2018-2 H3A 17 year old woman

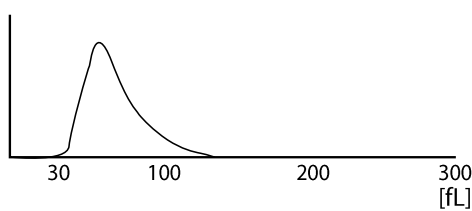
WBC :	6.7	10 ⁹ /L	MCV :	72.4	fL
RBC :	4.48	10 ¹² /L	MCH :	23.4	pg
HGB :	10.5	g/L	MCHC:	32.4	g/L
HCT :	32.4	L/L	RDW :	15.5	%
PLT :	278	10 ⁹ /L	MPV :	8.7	fL
PCT :	0.240	10 ⁻² L/L	PDW :	16.8	%

DIFF:					
%LYM:	30.2	%	#LYM:	2.0	10 ⁹ /L
%MON:	4.8	%	#MON:	0.3	10 ⁹ /L
%GRA:	65.0	%	#GRA:	4.4	10 ⁹ /L

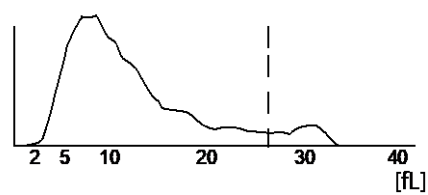
WBC



RBC



PLT

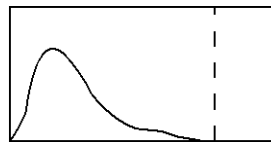
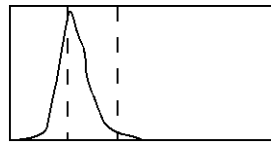
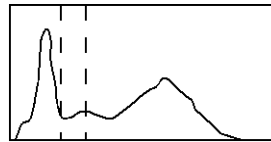


1.2 Mythic



Findings MQ 2018-2 H3A 17 year old woman

WBC	6.5	h	10 ⁹ /l	3.5 / 10.0
LYM	1.8		10 ⁹ /l	1.2 / 3.2
MON	0.5		10 ⁹ /l	0.1 / 1.0
GRA	4.2	h	10 ⁹ /l	1.2 / 6.8
LYM%	27.3		%	17.0 / 48.0
MON%	8.2		%	2.0 / 10.0
GRA%	64.5		%	43.0 / 76.0
RBC	4.49		10 ¹² /l	4.00 / 5.70
HGB	102		g/l	140 / 180
HCT	0.314	l	l/l	0.420 / 0.540
MCV	69.9		fl	80.0 / 100.0
MCH	22.7		pg	26.0 / 34.0
MCHC	325		g/l	310 / 365
RDW	18.1		%	10.0 / 16.0
PLT	259	l	10 ⁹ /l	150 / 400
MPV	9.3		fl	7.0 / 11.0
PCT	0.241	l	cl/l	0.100 / 0.500
PDW	16.1		%	10.0 / 18.0

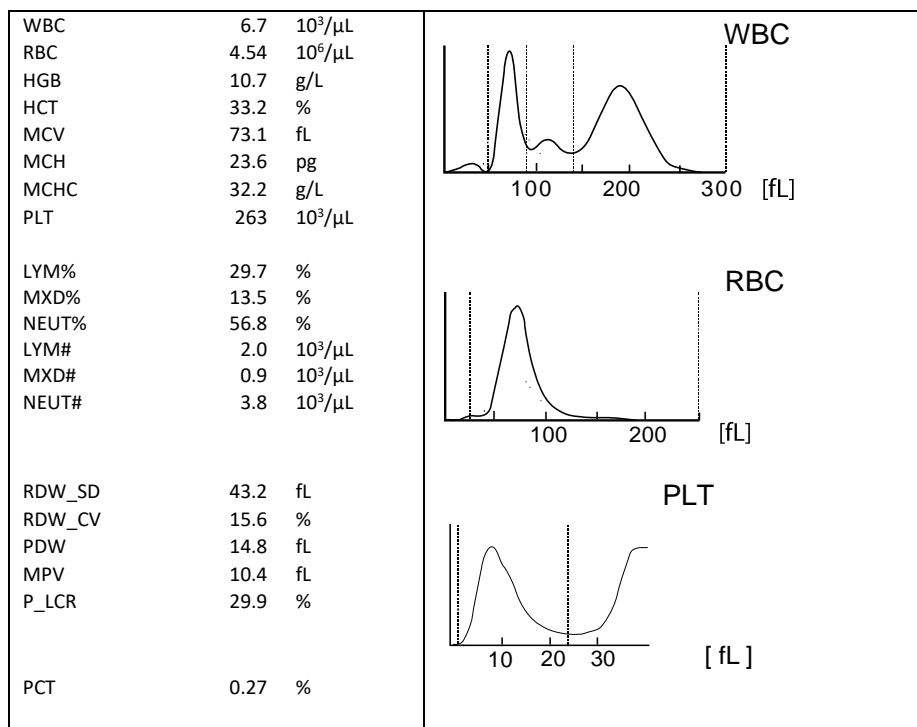


FLAGS : ANEMIA MICROCYTOSIS MICROCYTES ANISOCYTOSIS

1.3 Sysmex XP300



Findings MQ 2018-2 H3A
17 year old woman



1.4 Sysmex XE-5000

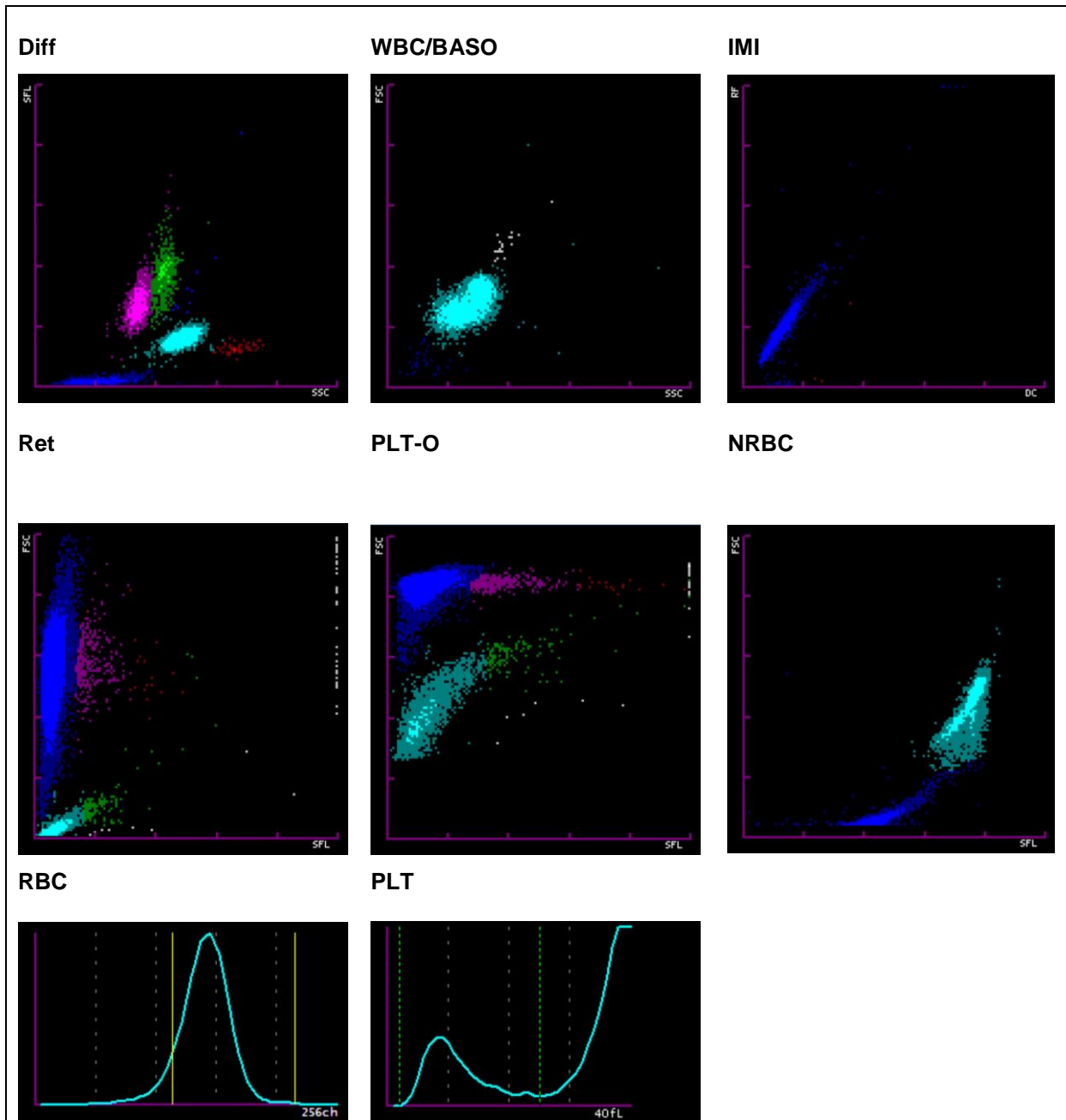


Findings MQ 2018-2 H3A

17 year old woman

Analysis	Result	Unit	Reference value
Blood Count			
<u>Hemoglobin</u>	107	g/l	
<u>Hematocrit</u>	0.333	l/l	
Erythrocytes	4.67	T/l	
MCV	* 71.3	fl	80-100
MCH	* 22.9	pg	26-34
MCHC	321	g/l	310-360
Mikrocytes	* 16.3	%	11.0-14.8
<u>Thrombocytes</u>	260	G/l	143-400
<u>Leucocytes</u>	6.65	G/l	3.0-9.6
Leucocyte Differentiation			
Neutrophils	3.77	G/l	1.40 – 8.00
Monocytes	0.89	G/l	0.16 – 0.95
Eosinophils	0.10	G/l	0.00 – 0.70
Basophils	0.02	G/l	0.00-0.15
Lymphocytes	1.87	G/l	1.50 - 4.00
IG abs.	0.02	G/l	0.00 – 0.03
IG %	0.2	%	0.0 – 0.05
NRBC abs.	0.00	G/l	
NRBC	0.0	/100 Lc	

Findings HAD MQ 2018-2 H3A

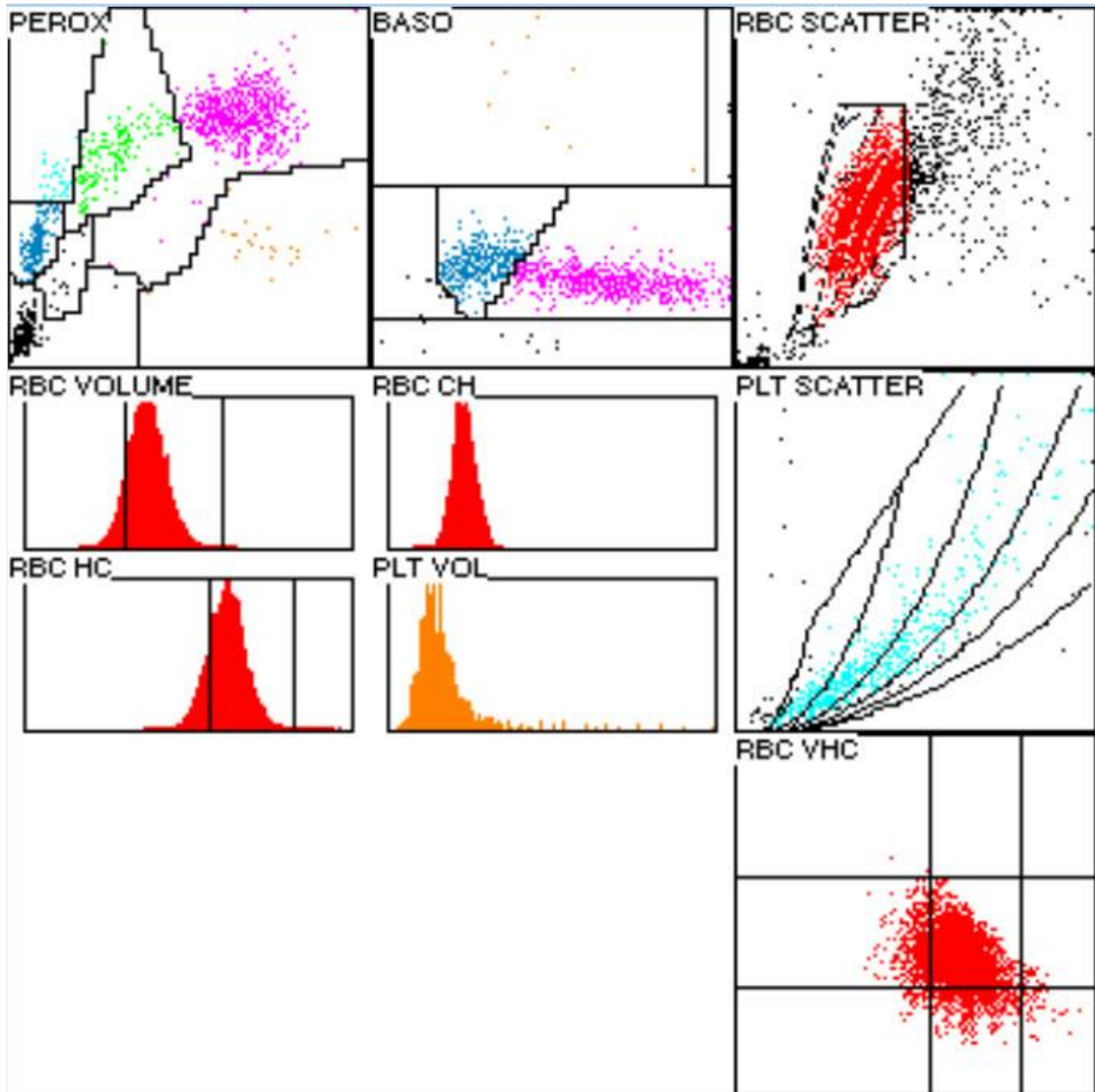


1.5 ADVIA 2120



Findings HAD MQ 2018-2 H3A 17 year old woman

Analysis	Result	Unit	Reference value
Blood Count			
<u>Hemoglobin</u>	112	g/l	
<u>Hematocrit</u>	0.347	l/l	
Erythrocytes	4.66	T/l	
MCV	* 74.4	fl	80-100
MCH	* 24.0	pg	26-34
MCHC	323	g/l	310-360
Mikrocytes	* 10.0	%	0-2.0
Macrocytes	0	%	0-2.0
Hypochromic Ec	* 15.6	%	0-2.0
Hyperchromic Ec	0.2	%	0-2.0
RDW	* 15.5	%	11.0-14.8
<u>Thrombocytes</u>	249	G/l	143-400
Vd. L-SHIFT	0	+	Keine (0)
<u>Leucocytes</u>	6.52	G/l	3.0-9.6
Leucocyte Differentiation			
Neutrophils	3.75	G/l	1.40-8.00
Monocytes	0.65	G/l	0.16-0.95
Eosinophils	0.08	G/l	0.00-0.70
Basophile	0.02	G/l	0.00-0.15
Lymphocytes	1.87	G/l	1.50-4.00
LUC	0.15	%	0.0-4.0



1.6 Differential Blood Smear

Findings HAD MQ 2018-2 H3A

17 year old woman

Analysis	Result	Unit	Reference value
Neutrophils total	4.17	G/l	1.40-8.00
Monocytes	0.46	G/l	0.16-0.95
Eosinophils	0.07	G/l	0.00-0.70
Basophils	0.00	G/l	0.00-0.15
Lymphocytes	1.83	G/l	1.50-4.00
Neutrophils total	* 64.0	%	40.0-74.0
Neutrophils Band	9.0	%	0.0-20.0
Neutrophils Segmented	55.0	%	30.0-50.0
Monocytes	7.0	%	3.4-9.0
Eosinophils	1.0	%	0.0-7.0
Basophils	0.0	%	0.0-1.5
Lymphocytes	28.0	%	19.0-48.0
Plasmacells	0.0	%	0-0.5
Blasts	0.0	%	0
Promyelocytes	0.0	%	0
Myelocytes	0.0	%	0
Metamyelocytes	0.0	%	0
Nucleated Red Cells	0.0	%	

Commentary

The red blood cell count is slightly hypochromic and anisocytic with several microcytes, slight poikilocytosis with few ovalocytes. No erythrocytic inclusions. Neutrophil granulocytes with fine cytoplasmic granulation. Few lymphocytes atypical likely reactively changed. Thrombocytes significantly anisocytic.

K. Schreiber / PD. Dr. St. Balabanov

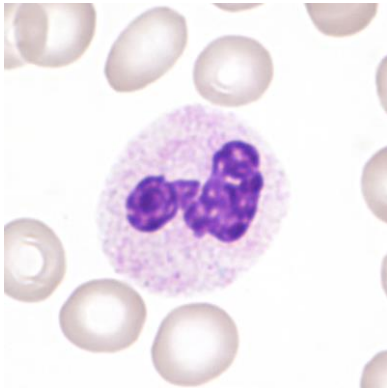


Abb 1. Neutrophil (Seg)

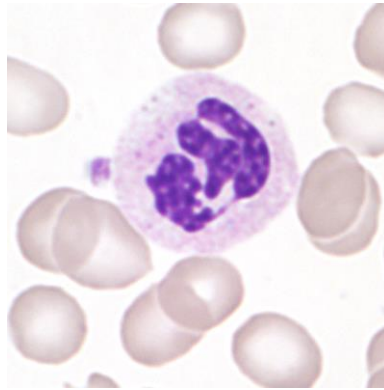


Abb 2. Neutrophil (Seg)

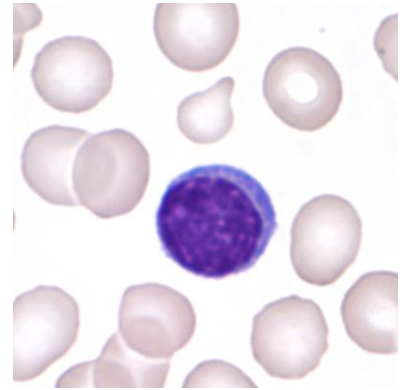


Abb 3. Lymphocyte

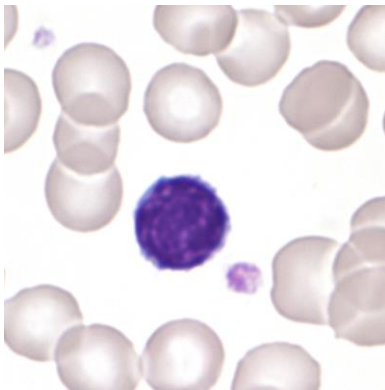


Abb 4. Lymphocyte

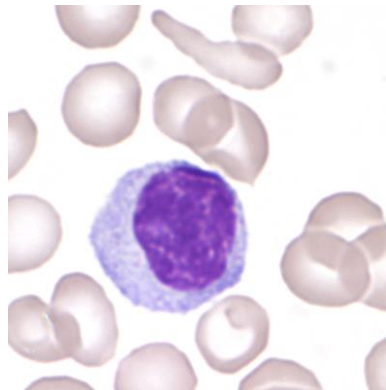


Abb 5. Lymphocyte

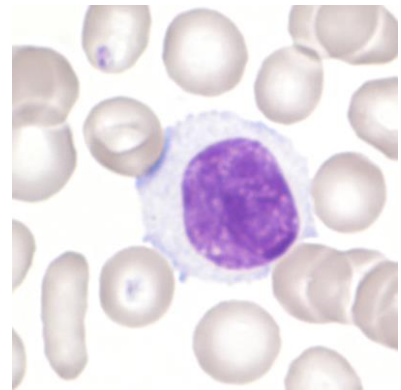


Abb 6. Lymphocyte

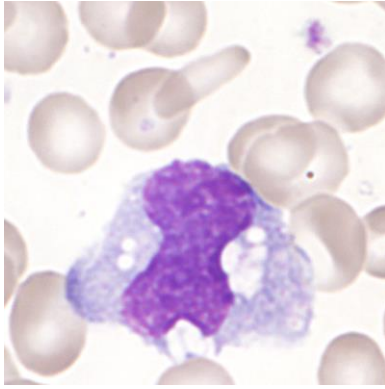


Abb 7. Monocyte

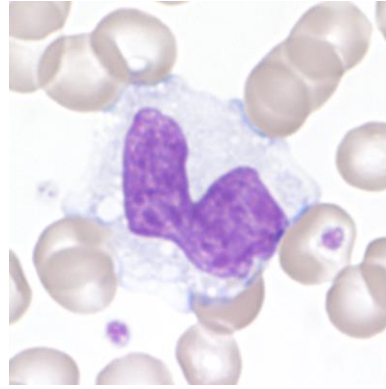


Abb 8. Monocyte

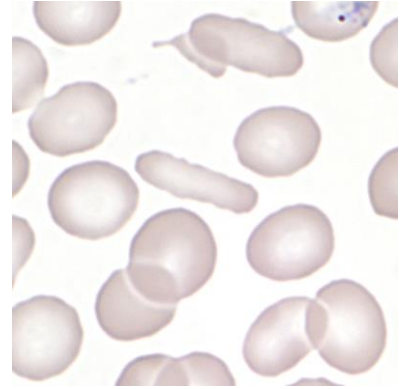


Abb 9. Erythrocytes

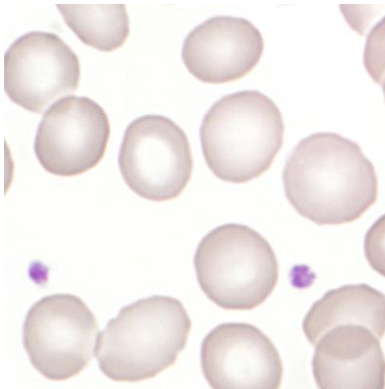


Abb 10. Erythrocytes

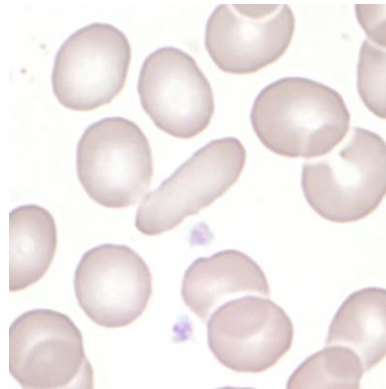


Abb 11. Erythrocytes

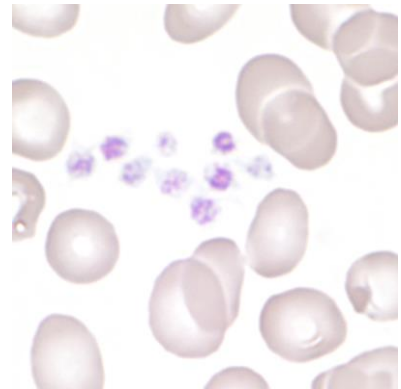


Abb 12. Thrombocytes

1.7 Summary of participant results

Leukocyte Differenzial H3-A

	0	1-4	5-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	>79
<i>Neutrophils Band</i>	6	69	104	80	16	3	4	1			
<i>Neutrophils Segmented.</i>	1			2	7	18	86	137	31	1	
<i>Eosinophils</i>	61	216	6								
<i>Basophile</i>	208	73	2								
<i>Monocytes</i>	11	60	161	50	1						
<i>Lymphocytes</i>				5	103	157	15	3			
<i>Plasmacells</i>	276	5	1	1							
<i>Blasts</i>	281		2								
<i>Promyelocytes</i>	281	1		1							
<i>Myelocytes</i>	280	3									
<i>Metamyelocyten</i>	279	3	1								
<i>Erythrocytes Nucleated</i>	281	2									
<i>Unknown</i>	280	1	2								
<i>Smudge cells</i>	269	13	1								

Evaluation H3-A

	light	medium	strong		light	medium	strong
<i>Hypersegmentation</i>	22	4		<i>Hypochromic Ec</i>	106	35	4
<i>Pelger-Hüet Anomaly</i>	1			<i>Polychromatic Ec</i>	44		
<i>Coarse Granulation</i>	23	3		<i>Anisocytes</i>	141	46	2
<i>Basophilic Stripling</i>	8			<i>Mikrocytes</i>	100	38	2
<i>Vacuoles</i>	36	6		<i>Makrocytes</i>	24	4	1
<i>Reaktive Lymphocytes</i>	67	13	3	<i>Megalocytes</i>	2		
<i>Atypical Lymphocytes</i>		1		<i>Poikilocytosis</i>	109	13	1
<i>Others</i>	3	2	1	<i>Ovalocytes</i>	128	22	1
				<i>Target Cells</i>	42	2	
				<i>Akanthocytes</i>	34	4	
<i>Anisocytosis</i>	95	30	1	<i>Echinocytes</i>	48	11	
<i>Megakaryocyte Nucleaus</i>	8	2		<i>Sickle Cells</i>	1		
<i>Granulation</i>	16	1	1	<i>Fragmentocytes</i>	19		
<i>Others</i>				<i>Spherocytes</i>	3		
				<i>Stomatocytes</i>	6		
				<i>Basophilic Stripling</i>	3		
				<i>Howell-Jolly Bodies</i>			
				<i>Pappenheim Bodies</i>			
				<i>Others</i>	2		

Commentary

Smear H3-A is from a patient with Iron-deficiency anemia.

1.8 Qualab Codes

Summary of the participant codes
(Bold printed: expected codes)

Code	Text	Number
29	Normal findings	168
12	Microcytes	91
14	Hypochromic Erythrocytes	88
17	Elliptocytes/Ovalocytes	69
31	Pathologic findings	59
5	Atypical lymphocytes, probably reactive	48
16	Poikilocytosis	44
30	Pathologic findings, refer to expert	33
9	Macrothrombocytes	24
19	Targetcells	19
27	Erythrocytes, other	18
15	Polychromatophilic Red Cells	13
13	Macrocytes	12
1	Neutrophils, hypersegmentation of nucleus	11
2	Neutrophils, left shift	10
22	Rouleaux	8
4	Neutrophils, Toxic Changes	6
20	Fragmentocytes	4
6	Atypical lymphocytes, probably neoplastic	2
8	Leucocytes other:	2
10	Thrombocyte aggregates	2
18	Stomatocytes	2
26	Teardrops	2
11	Thrombocytes, others	1
24	Howell-Jolly bodies	1
99	Total	276

2 Sample B

2.1 ABX Microsemi CRP



Findings MQ 2018-2 H3B

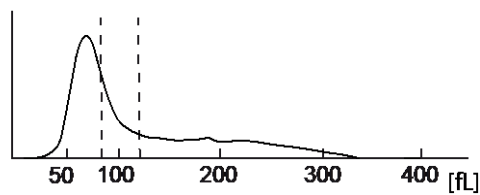
60 year old man

WBC :	36.5	H	10 ⁹ /L	MCV :	77.4	L	fL
RBC :	3.27	L	10 ¹² /L	MCH :	25.8	L	pg
HGB :	85	L	g/L	MCHC:	333		g/L
HCT :	0.253	L	L/L	RDW :	16.9	H	%
PLT :	--	D	10 ⁹ /L	MPV :	7.9	D	fL
PCT :	7.415	D	10 ⁻² L/L	PDW :	11.8	D	%

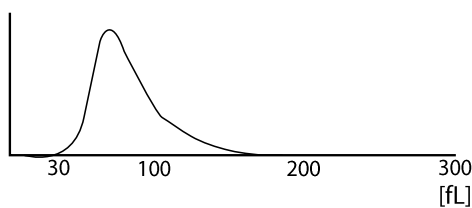
WBC FLAGS: M2 G1

DIFF:				#LYM:	17.3	H	10 ⁹ /L
%LYM:	45.0		%	#MON:	6.3	H	10 ⁹ /L
%MON:	16.3	H	%	#GRA:	14.9	H	10 ⁹ /L
%GRA:	38.7	L	%				

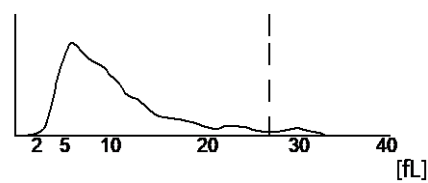
WBC



RBC



PLT



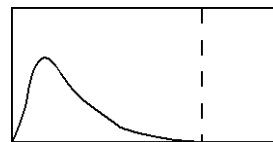
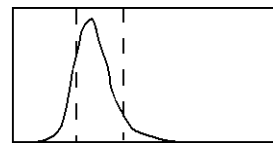
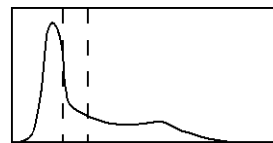
2.2 Mythic



Findings MQ 2018-2 H3B

60 year old man

WBC	34.9	H	10 ⁹ /l	3.5	/	10.0
LYM	13.4	H	10 ⁹ /l	1.2	/	3.2
MON	6.5	H	10 ⁹ /l	0.1	/	1.0
GRA	15.0	H	10 ⁹ /l	1.2	/	6.8
LYM%	38.4		%	17.0	/	48.0
MON%	18.5	H	%	2.0	/	10.0
GRA%	43.1		%	43.0	/	76.0
RBC	2.47	L	10 ¹² /l	4.00	/	5.70
HGB	71	L	g/l	120	/	180
HCT	0.202	L	l/l	0.360	/	0.540
MCV	81.8		fl	80.0	/	100.0
MCH	28.7		pg	26.0	/	34.0
MCHC	351		g/l	310	/	365
RDW	18.5	H	%	10.0	/	16.0
PLT	187		10 ⁹ /l	150	/	400
MPV	8.5		fl	7.0	/	11.0
PCT	0.159		cl/l	0.100	/	0.500
PDW	14.2		%	10.0	/	18.0



FLAGS: FL2 FR1

LEUCOCYTOSIS LYMPHOCYTOSIS MONOCYTOSIS GRANULOCYTOSIS ANEMIA MICORCYTES ANISOCYTOSIS

2.3 Sysmex XP300



Findings MQ 2018-2 H3B 60 year old man

WBC	+37.0	$10^3/\mu\text{L}$	
RBC	-2.55	$10^6/\mu\text{L}$	
HGB	-7.3	g/dL	
HCT	-20.8	%	
MCV	-81.6	fL	
MCH	28.6	pg	
MCHC	35.1	g/dL	
PLT	177	$10^3/\mu\text{L}$	
LYM%	+58.9	%	
MXD%	8.6	%	
NEUT%	-325	%	
LYM#	+21.8	$10^3/\mu\text{L}$	
MXD#	+3.2	$10^3/\mu\text{L}$	
NEUT#	+12.0	$10^3/\mu\text{L}$	
RDW_SD	+55.3	fL	
RDW_CV	+18.8	%	
PDW	12.8	fL	
MPV	9.8	fL	
P_LCR	24.1	%	
PCT	0.17	%	

2.4 Sysmex XE-5000

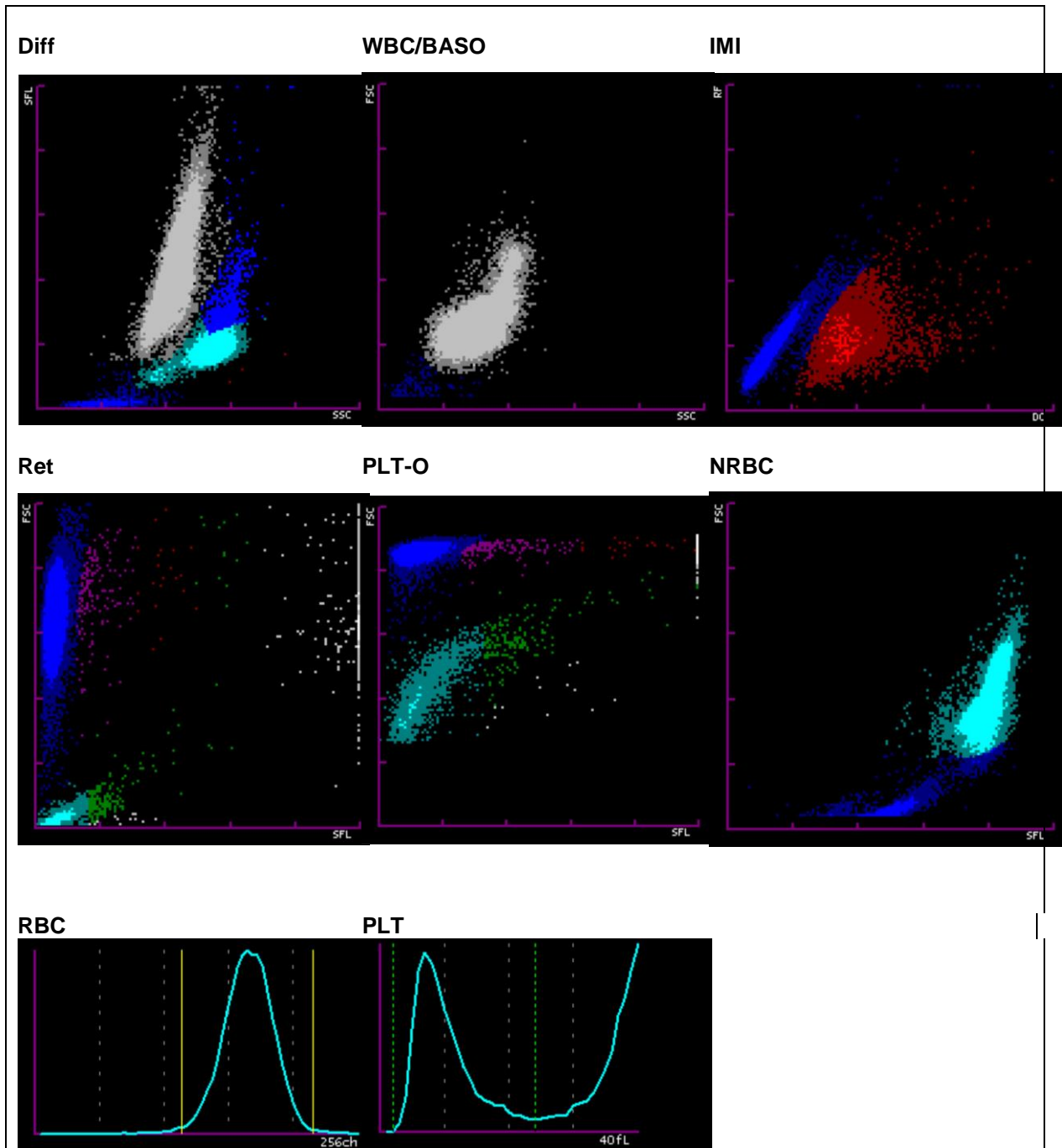


Findings MQ 2018-2 H3B

60 year old man

Analysis	Result	Unit	Reference value
Blood Count			
Hemoglobin	* 73	g/l	134-170
Hematocrit	* 0.208	l/l	0.400-0.500
Erythrocytes	* 2.52	T/l	4.2-5.7
MCV	82.5	fl	80-100
MCH	29.0	pg	26-34
MCHC	351	g/l	310-360
Thrombocytes	156	G/l	143-400
Leucocytes	* 41.55	G/l	3.0-9.6
Leucocyte Differentiation			
Neutrophils	6.72	G/l	1.40-8.00
Monocytes	* 18.37	G/l	0.16-0.95
Eosinophils	0.00	G/l	0.00-0.70
Basophils	* 1.53	G/l	0.00-0.15
Lymphocytes	* 14.93	G/l	1.50-4.00
IG abs.	* 1.28	G/l	0.00-0.03
IG %	1.28	%	0.0-0.5

Findings HAD MQ 2018-2 H3B

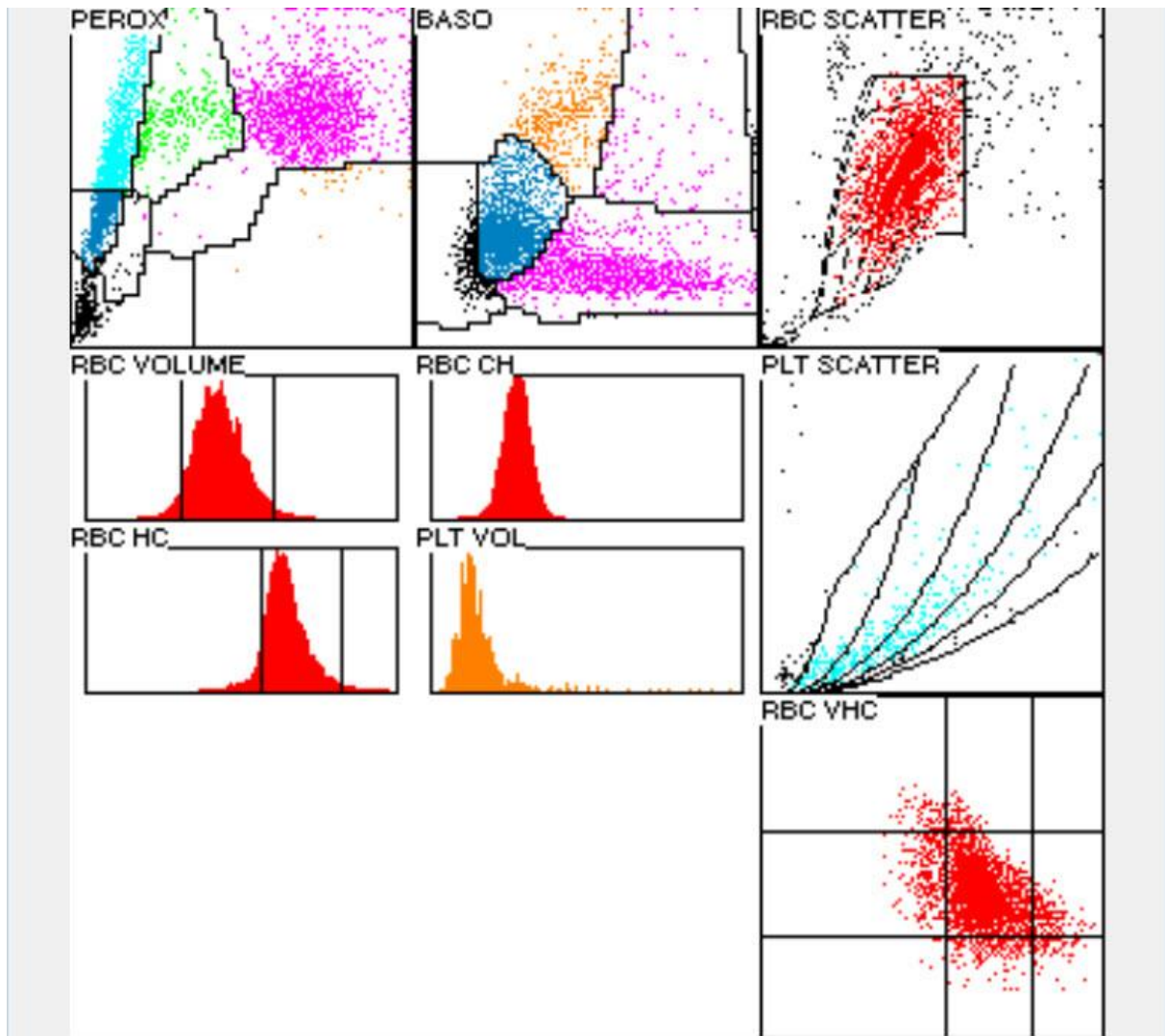


2.5 ADVIA 2120



Findings HAD MQ 2018-2 H3B 60 year old man

Analysis		Result	Unit	Reference value
Blood Count				
Hemoglobin	*	74	g/l	134-170
Hematocrit	*	0.225	l/l	0.400-0.500
Erythrocytes	*	2.63	T/l	4.2-5.7
MCV		85.8	fl	80-100
MCH		28.2	pg	26-34
MCHC		329	g/l	310-360
Mikrocytes	*	3.8	%	0-2.0
Makrocytes		18	%	0-2.0
Hypochromic Ec	*	7.7	%	0-2.0
Hyerchromic Ec		1.4	%	0-2.0
RDW	*	18.4	%	11.0-0-14.8
Thrombocytes		170	G/l	143-400
Vd. L-SHIFT		0	+	Keine (0)
Leukocytes	*	40.45	G/l	3.0-9.6
Leucocytes Differentiation				
Neutrophils	*	10.50	G/l	1.40-8.00
Monocytes	*	1.32	G/l	0.16-0.95
Eosinophils		0.10	G/l	0.00-0.70
Basophils	*	1.65	G/l	0.00-0.15
Lymphocytes	*	17.14	G/l	1.50-4.00
LUC	*	211.39	%	0.0-4.0



2.6 Differential Blood Smear

Findings MQ 2018-2 H3B

60 year old man

Analysis		Result	Unit	Reference value
Leucocytes Differentiation				
Neutrophils total	*	8.49	G/l	1.40-8.00
Monocytes	*	1.62	G/l	0.16-0.95
Eosinophils		0.20	G/l	0.00-0.70
Basophils		0.20	G/l	0.00-0.15
Lymphocytes	*	29.12	G/l	1.50-4.00
Neutrophils total	*	21.0	%	40.0-74.0
Neutrophils Band		11.0	%	0.0-20.0
Neutrophils Segmented	*	10.0	%	30.0-50.0
Monocytes		4.0	%	3.4-9.0
Eosinophils		0.5	%	0.0-7.0
Basophils		0.5	%	0.0-1.5
Lymphocytes	*	72.0	%	19.0-48.0
Plasmacells		0.0	%	0-0.5
Blasts		0.0	%	0
Promyelocytes		0.0	%	0
Myelocytes	*	1.0	%	0
Metamyelocytes	*	1.0	%	0
Others/ damaged cells		00.0	%	0

Commentary

Red blood cell count, slightly hypochromic and slight anisocytosis, with few micro and macrocytes. Slight poikilocytosis with few stomatocytes. No tangible erythrocytic inclusions. Flushing of myeloid pre-stages up to 1.0% of myelocytes.

Neutrophil granulocytes with fine cytoplasmic granulation. Absolute lymphocytosis; the lymphocytes are atypically neoplastic. The cells are medium-sized to large with an oval, partially sinuated or deeply incised nucleus; the chromatin structure is dense to stringy, often with a prominent nucleolus, few with 1-2 nucleoli. The cytoplasmic rim is thin and dark-basophilic, seldom with a fine plasma vacuole. 23 Damaged cells, which were included in the lymphocytes. Slight anisocytosis of the thrombocytes, individual agranular forms. Chipped cytoplasmic pieces are seldom tangible. Cave platelet count.

K. Schreiber / PD. Dr. St. Balabanov

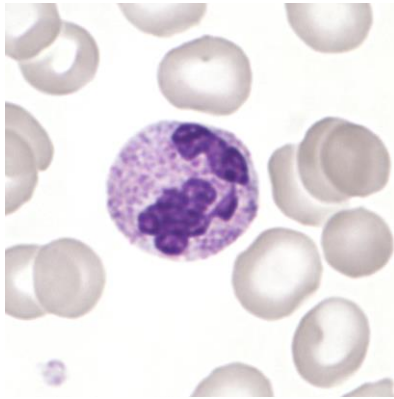


Abb 1. Neutrophil (Seg)



Abb 2. Neutrophil (Band)

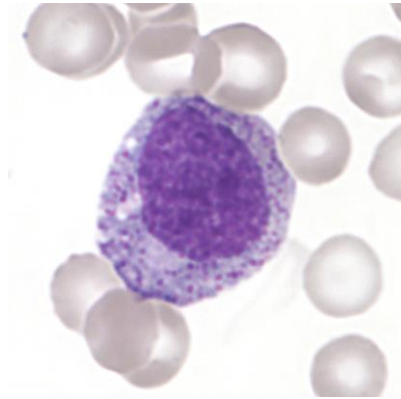


Abb 3. Myelocyte

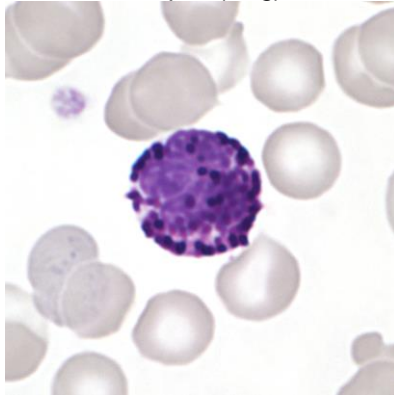


Abb 4. Basophile

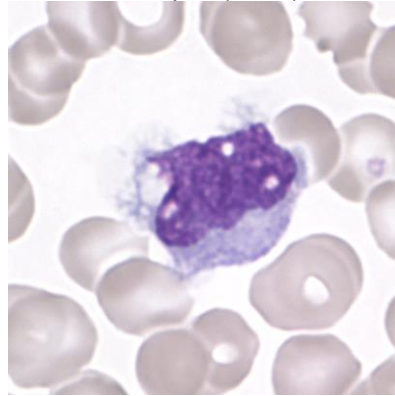


Abb 5. Monocyte

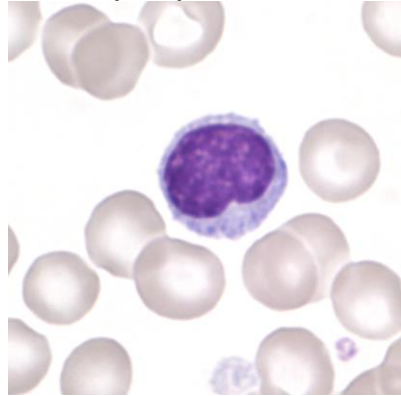


Abb 6. Lymphocyte

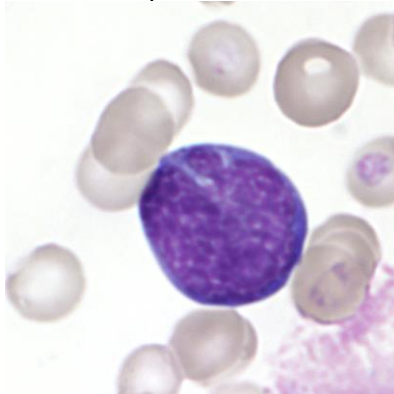


Abb 7. Lymphocyte(neoplastic)

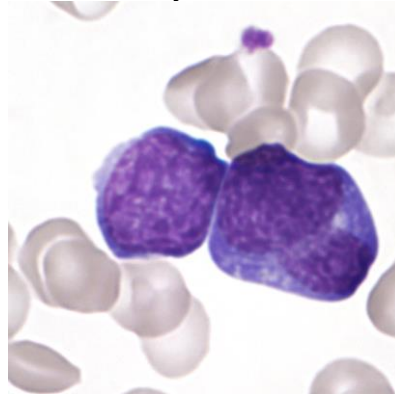


Abb 8. Lymphocyte (neoplastic)

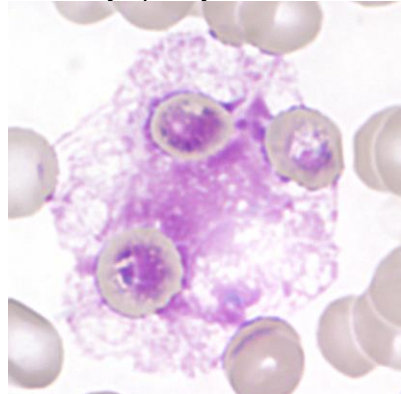


Abb 9. Smudge cell

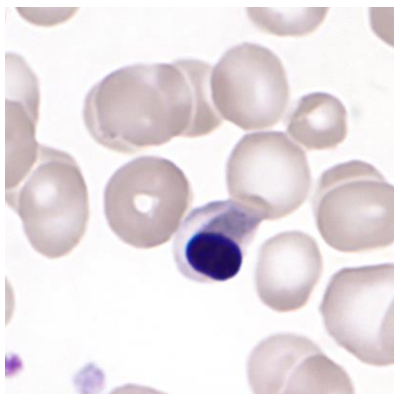


Abb 10. Erythroblast

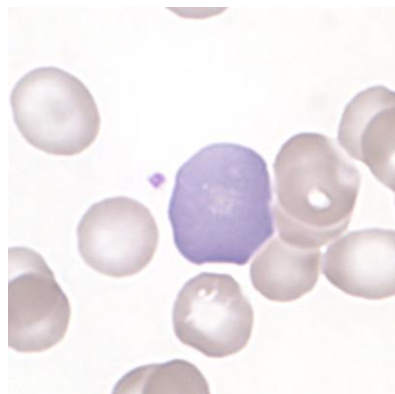


Abb 11. Polychromasia

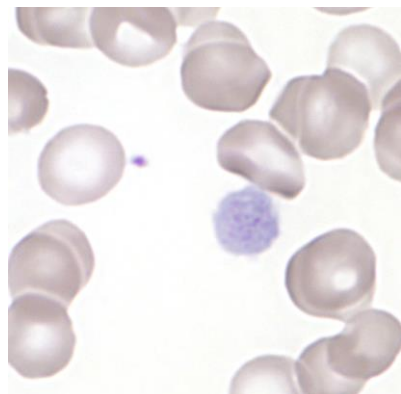


Abb 12. Large thrombocyte

2.7 Summary of participant results

Leukocyte Differential H3-B

	<1	1-4	5-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	>79
<i>Neutrophils Band</i>	1	12	73	160	30	2	1				
<i>Neutrophils Segmented.</i>	3	41	138	88	9						
<i>Eosinophils</i>	235	40	4								
<i>Basophile</i>	243	35	1								
<i>Monocytes</i>	51	172	49	7							
<i>Lymphocytes</i>	4	13	25	29	31	50	47	26	29	19	6
<i>Plasmacells</i>	272	6			1						
<i>Blasts</i>	162	20	13	17	23	22	13	4	3	2	
<i>Promyelocytes</i>	243	28	6	2							
<i>Myelocytes</i>	174	84	10	3	3	2	2			1	
<i>Metamyelocyten</i>	169	83	18	5	4						
<i>Erythrocytes Nucleated</i>	242	35	2								
<i>Unknown</i>	246	7	6	4	3	8	2	1	1	1	
<i>Smudge cells</i>	95	5	7	20	29	71	31	15	5		1

Evaluation H3-B

	light	medium	strong		light	medium	strong
<i>Hypersegmentation</i>	8		1	<i>Hypochromic Ec</i>	V	40	11
<i>Pelger-Hüet Anomaly</i>	4	1	2	<i>Polychromatic Ec</i>	117	9	1
<i>Coarse Granulation</i>	73	37	6	<i>Anisocytes</i>	103	86	10
<i>Basophilic Stripling</i>	17	9	1	<i>Mikrocytes</i>	95	54	11
<i>Vacuoles</i>	43	8	1	<i>Makrocytes</i>	28	6	1
<i>Atypical Lymph, reactive</i>	20	22	26	<i>Megalocytes</i>	4		
<i>Atypical Lymph, neoplastic</i>	4	13	25	<i>Poikilocytosis</i>	107	19	1
<i>Others</i>	12	24	43	<i>Ovalocytes</i>	55	9	
				<i>Target Cells</i>	9	2	
				<i>Akanthocytes</i>	29	4	
<i>Anisocytosis</i>	85	30	1	<i>Echinocytes</i>	31	2	1
<i>Megakaryocyte Nucleaus</i>	13	2	1	<i>Sickle Cells</i>	2		
<i>Granulation</i>	24	5	1	<i>Fragmentocytes</i>	87	11	2
<i>Others</i>	1			<i>Spherocytes</i>	28	8	
				<i>Stomatocytes</i>	5		
				<i>Basophilic Stripling</i>	45		
				<i>Howell-Jolly Bodies</i>	6		
				<i>Pappenheim Bodies</i>	1		
				<i>Others</i>	4	1	

Commentary

Immunophenotyping shows that smear B involves neoplastic lymphocytes of a diffuse, large B-cell lymphoma. Because the lymphocytes are not macroscopically distinguishable from lymphoblasts, we also assumed lymphoblasts to be correct. The damaged cells are lymphocytes. Please always specify the damaged cells in proficiency testing surveys separately as part of the 100 cells.

2.8 Qualab Codes

Summary of the participant codes
(Bold printed: expected codes)

Code	Text	Number
30	Pathologic findings, refer to expert	246
6	Atypical lymphocytes, probably neoplastic	113
14	Hypochromic Erythrocytes	80
12	Microcytes	58
8	Leucocytes other:	56
5	Atypical lymphocytes, probably reactive	46
16	Poikilocytosis	39
4	Neutrophils, Toxic Changes	37
31	Pathologic findings	29
15	Polychromatophilic Red Cells	28
2	Neutrophils, left shift	24
13	Macrocytes	19
19	Targetcells	12
9	Macrothrombocytes	11
27	Erythrocytes, other	11
20	Fragmentocytes	10
21	Spherocytes	9
22	Rouleaux	9
17	Elliptocytes/Ovalocytes	7
18	Stomatocytes	7
26	Teardrops	4
3	Pelger Hüet Anomaly	3
11	Thrombocytes, others	3
1	Neutrophils, hypersegmentation of nucleus	2
25	Basophilic strippling	2
7	Auer rods	1
10	Thrombocyte aggregates	1
24	Howell-Jolly bodies	1
29	Normal findings	1
99	Total	278