

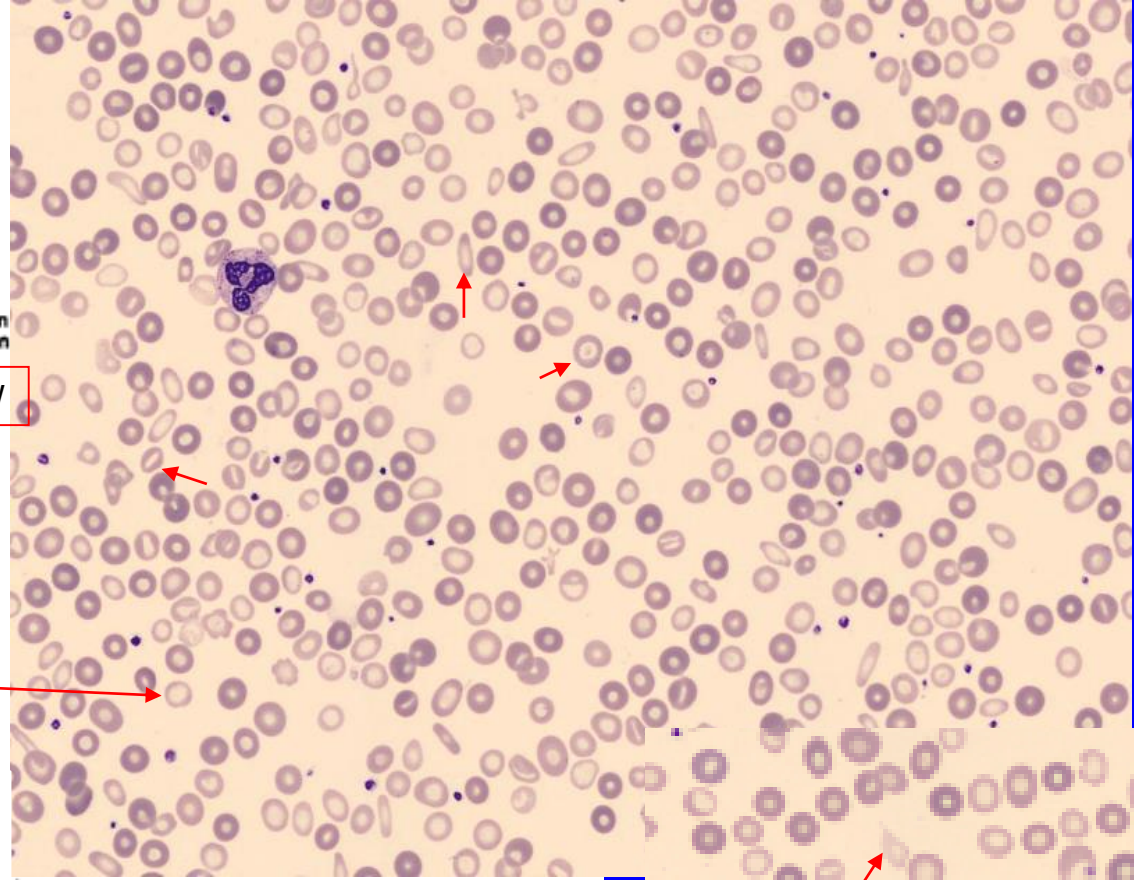
Příklady KO a morfologie

Sideropenická anémie

| | | | |
|--------|--------|-----------------------|-------------------------|
| WBC | 3.52 | [10 ⁹ /L] | WBC IP Message(s) |
| NEUT | 2.46 | [10 ⁹ /L] | 69.8 [%] |
| LYMPH | 0.52 | [10 ⁹ /L] | 14.8 [%] |
| MONO | 0.40 | [10 ⁹ /L] | 11.4 [%] |
| EO | 0.07 | [10 ⁹ /L] | 2.0 [%] |
| BASO | 0.07 | [10 ⁹ /L] | 2.0 [%] |
| IG | 0.01 | [10 ⁹ /L] | 0.3 [%] |
| RBC | 3.93 * | [10 ¹² /L] | |
| HGB | 78 | [g/L] | |
| HCT | 0.278 | [Ratio] | |
| MCV | 70.7 * | [fL] | |
| MCH | 19.8 * | [pg] | |
| MCHC | 281 * | [g/L] | |
| RDW-CV | — | [%] | neměřitelné, vysoké RDW |
| RET | | [10 ⁹ /L] | [%] |
| IRF | | [Ratio] | |
| RET-He | | [pg] | |
| IPF | | [%] | |
| NRBC | 0.00 | [10 ⁹ /L] | 0.0 [/100WBC] |
| PLT | 272 | [10 ⁹ /L] | |
| MPV | 8.4 | [fL] | |
| PDW | 8.9 | [fL] | |
| PCT | 0.23 | [%] | |

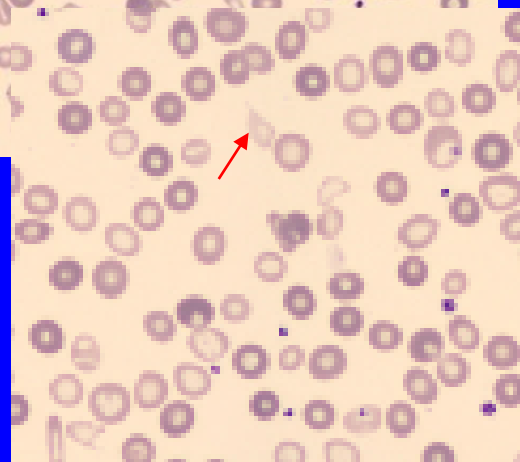
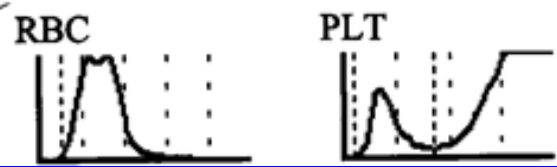
žena

RBC Abn Distribution
Dimorphic Population
Microcytosis



hypochromie
tvarové odchylky

| | |
|---------------------------|----------------------------|
| Manual Diff | RBC morf. |
| SEG <u>70</u> META _____ | NORMAL <u>MICRO</u> |
| BAND _____ MYELO _____ | POLYCH _____ MAKRO _____ |
| LYMPH <u>15</u> PRO _____ | <u>HYPOCH</u> <u>ANISO</u> |



Získaná hemolytická anémie

Doctor: 0708/07/05/2013

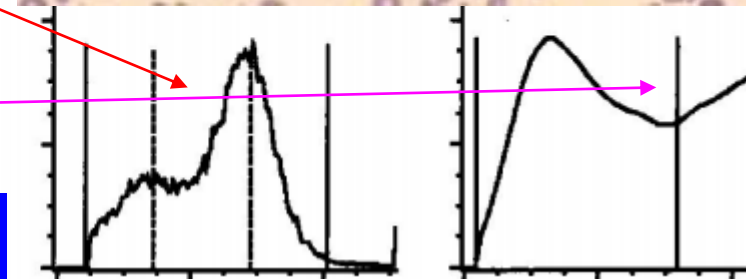
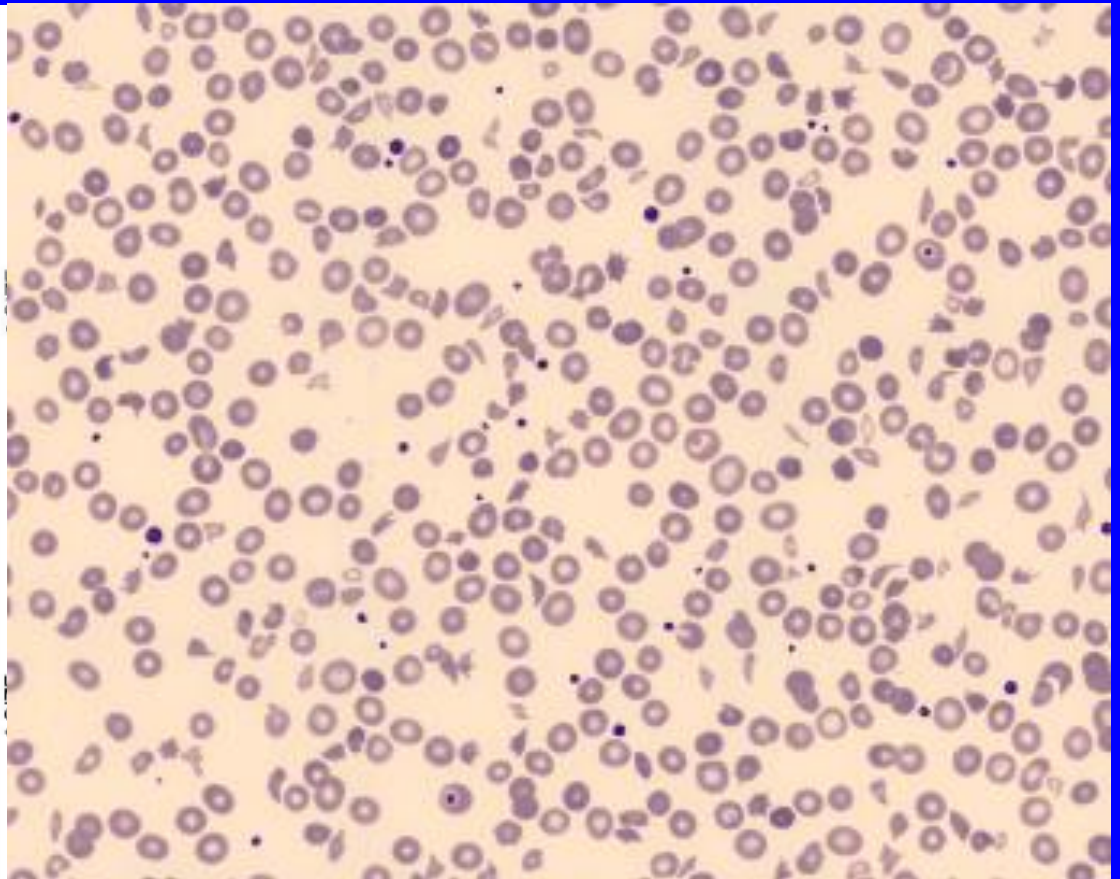
User Defined A:

User Defined B:

User Defined C:

User Defined D:

| X-B In | WBC In | RBC In | PLT In | RETC In | |
|--------|--------------|---------|--------|-------------|---------------|
| WBC | 9.47 | 10e9/L | WVF | .986 | |
| SEG | <u>7.32</u> | | %S | 77.2 | |
| BAND | 0.00 | | %BD | 0.00 | žena |
| IG | 0.00 | | %IG | 0.00 | |
| BLST | 0.00 | | %BL | 0.00 | |
| MONe | <u>.891</u> | | %Me | 9.41 | |
| EOS | .075 | | %E | .792 | |
| BASO | .037 | | %B | .386 | |
| LYMe | <u>1.15</u> | | %Le | 12.2 | |
| VARL | 0.00 | | %VL | 0.00 | |
| RBC | <u>2.34s</u> | 10e12/L | RBCo | <u>2.39</u> | |
| HGB | <u>73.3</u> | g/L | %MIC | 18.0 | |
| HCT | <u>.227s</u> | L/L | %MAC | 28.8 | ASYM |
| MCV | <u>97.2s</u> | fL | %HPO | ---- | |
| MCH | 31.4s | pg | %HPR | ---- | |
| MCHC | 323.s | g/L | | | |
| RDW | <u>34.3s</u> | %CV | | | poikilocytóza |
| HDW | ---- | % | | | |
| RETC | ---- | 10e9/L | %R | ---- | |
| IRF | ---- | | | | |
| NRBC | 0.00 | 10e9/L | NR/W | 0.00 | |
| MCVr | ---- | fL | | | |
| MCHr | ---- | pg | | | |
| CHCr | ---- | g/L | | | |
| PLTo | 162. | 10e9/L | PLTi | 190. | |
| MPV | 12.7* | fL | CD61 | ---- | |
| PDW | <u>17.5*</u> | 10(GSD) | PLTs | ---- | |
| PCT | 2.07* | mL/L | PLTI | ---- | |
| %rP | ---- | % | | | |

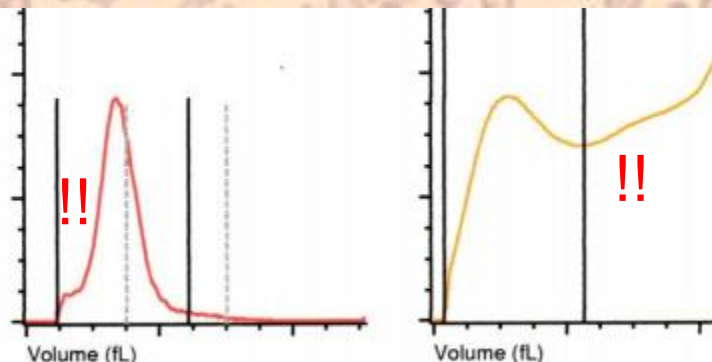
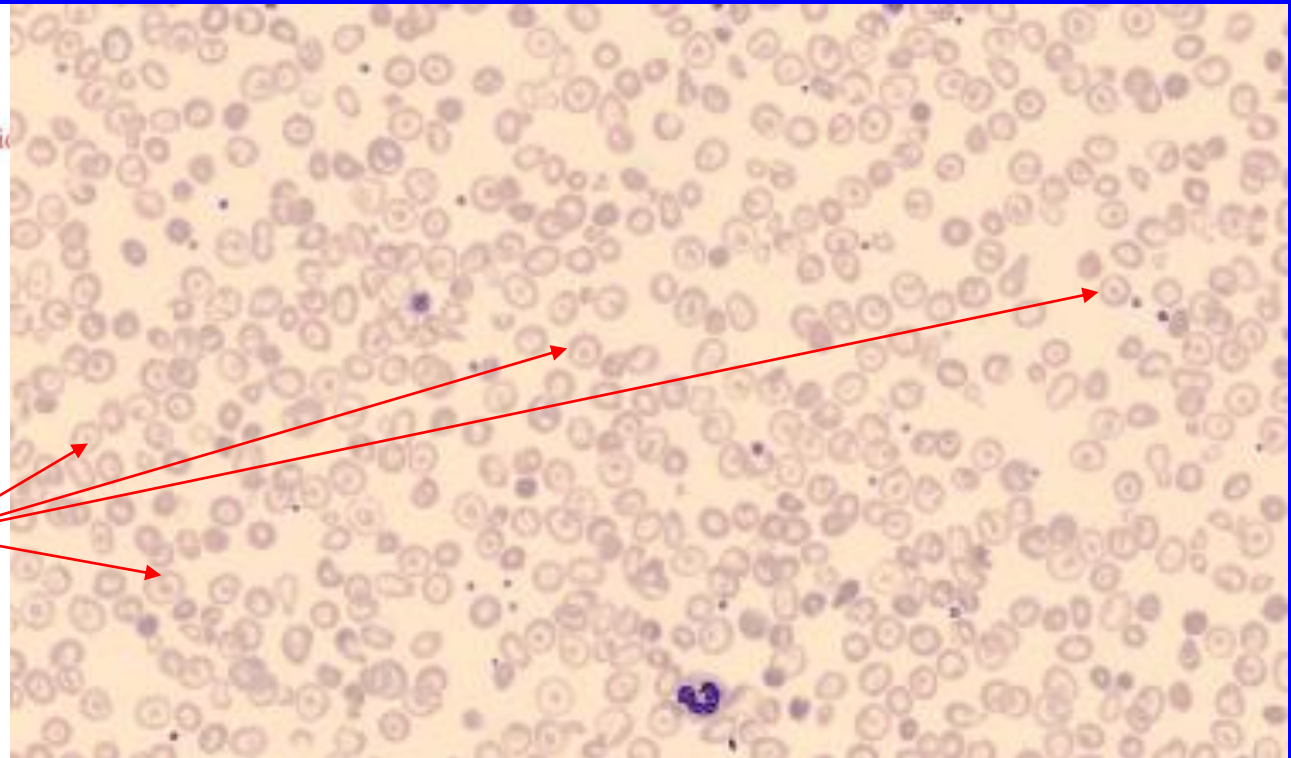


Thalassemie

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

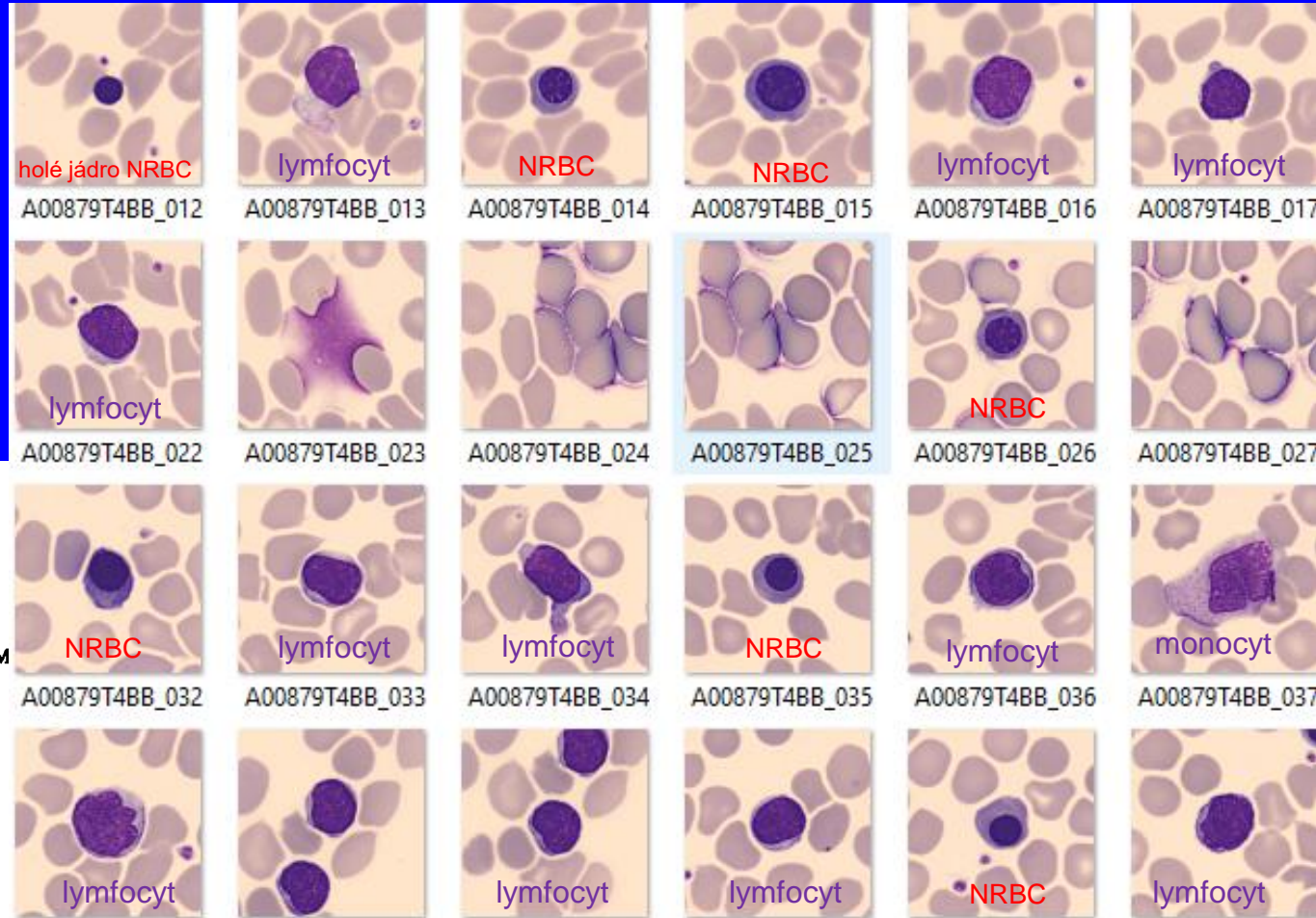
| žena -Thajka | | | | | |
|---------------------|-----------|----------------|-----------|------------|----------|
| X-B In | WBC 2 Out | RBC In | PLT 2 Out | RETC 2 Out | *Invalid |
| WBC | 8.57 | 10e9/L | WVF | .967 | |
| SEG | 6.34 | | %S | 74.0 | |
| BAND | 0.00 | | %BD | 0.00 | |
| IG | 0.00 | | %IG | 0.00 | |
| BLST | 0.00 | | %BL | 0.00 | |
| MONe | .362 | | %Me | 4.22 | |
| EOS | .036 | | %E | .418 | |
| BASO | .043 | | %B | .506 | |
| LYMe | 1.79 | | %Le | 20.9 | FP? |
| VARL | 0.00 | | %VL | 0.00 | |
| RBC | 4.88 | 10e12/L | RBCo | 4.76 | |
| HGB | 75.6 | g/L | %MIC | 68.1 | |
| HCT | 266 | L/L | %MAC | 0.00 | |
| MCV | 54.6 | fL | %HPO | ---- | |
| MCH | 15.5 | pg | %HPR | ---- | |
| MCHC | 284 | g/L | | | |
| RDW | 24.3 | %CV | | | |
| HDW | ---- | % | | | |
| RETC | ---- | 10e9/L | %R | ---- | |
| IFE | ---- | | | | |
| NRBC | 0.00s | 10e9/L | NRW | 0.00s | |
| MCVr | ---- | fL | | | |
| MCHr | ---- | pg | | | |
| CHCr | ---- | g/L | | | |
| PLTo | 193.* | 10e9/L | PLTI | 307.* | |
| MPV | 12.4* | fL | CD61 | ---- | |
| PDW | 18.9* | 10(GSD) | PLTs | ---- | |
| PCT | 2.38* | mL/L | PLTI | ---- | |
| %fP | ---- | % | | | |
| Manual Differential | | RBC Morphology | | | |
| SEG | 16 | META | NORMAL | MICRO | |
| BAND | | MYELO | POLYCH | MAGRO | |
| LYMPH | 20 | PRO | HYPOCH | ANISO | |
| MONO | 2 | BLAST | POIK | BASOSTIP | |
| EOSIN | | VAR LYM | TARGET | | |
| BASO | 2 | TOXGRAN | SPHERO | NRBC | |

*g. stich
Acristo*



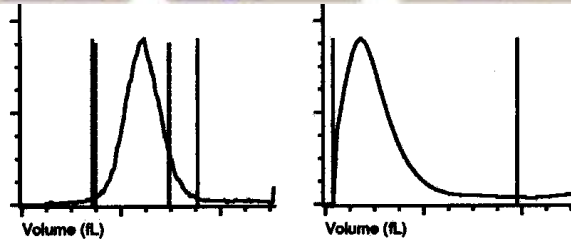
Lower, Upper, or Lower and Upper Region Interference in PLTI Histogram
PIC/POC Delta

NRBC v periferní krvi



| | | | | | |
|------|------|---------|------|------|--------|
| WBC | 10.9 | 10e9/L | WVF | .926 | |
| SEG | 1.91 | | %S | 17.6 | |
| BAND | 0.00 | | %BD | 0.00 | |
| IG | 0.00 | | %IG | 0.00 | |
| BLST | .003 | | %BL | .027 | BLAST |
| MONe | .520 | | %M | 4.78 | |
| EOS | .512 | | %E | 4.71 | |
| BASO | .054 | | %B | .493 | |
| LYMe | 7.22 | | %Le | 66.4 | |
| VARL | .654 | | %VL | 6.02 | VARLYM |
| RBC | 4.45 | 10e12/L | RBCo | 4.17 | |
| HGB | 151. | g/L | %MIC | 2.06 | |
| HCT | .440 | L/L | %MAC | 9.01 | |
| MCV | 99.0 | fL | %HPO | --- | |
| MCH | 34.0 | pg | %HPR | --- | |
| MCHC | 344. | g/L | | | |
| RDW | 15.1 | %CV | | | |
| HDW | --- | % | | | |
| RETC | --- | 10e9/L | %R | --- | |
| IRF | --- | | | | |
| NRBC | 2.65 | 10e9/L | NRW | 24.4 | |
| MCVr | --- | fL | | | |
| MCHr | --- | pg | | | |
| CHCr | --- | g/L | | | |
| PLTo | 314. | 10e9/L | PLTI | 326. | |
| MPV | 7.51 | fL | CD61 | --- | |
| PDW | 16.3 | 10(GSD) | PLTs | --- | |
| PCT | 2.36 | mL/L | PLTI | --- | |
| %rP | --- | % | | | |

| Manual Differential | | RBC Morphology | |
|---------------------|------|----------------|----------|
| SEG | RO | META | NORMAL |
| BAND | | MYELO | POLYCH ✓ |
| LYMPH | 78 | PRO | HYPOCH |
| MONO | 5 | BLAST | POIK |
| EOSIN | 3 | VARLYM | TARGET ✓ |
| BASO | | TOXGRAM | SPHERO |
| PLT EST | auto | PLT MORPH | NRBC 41 |
| Comment: | | | |
| DIFF by: | | Date: | |

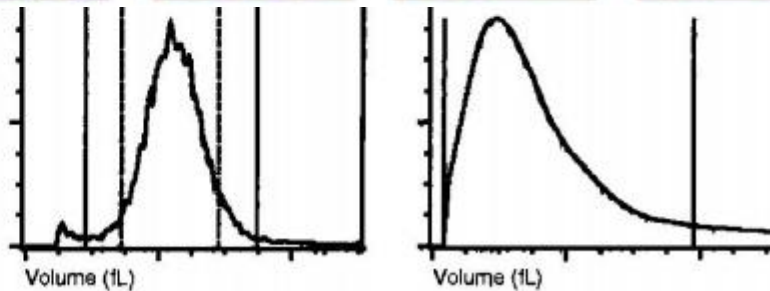
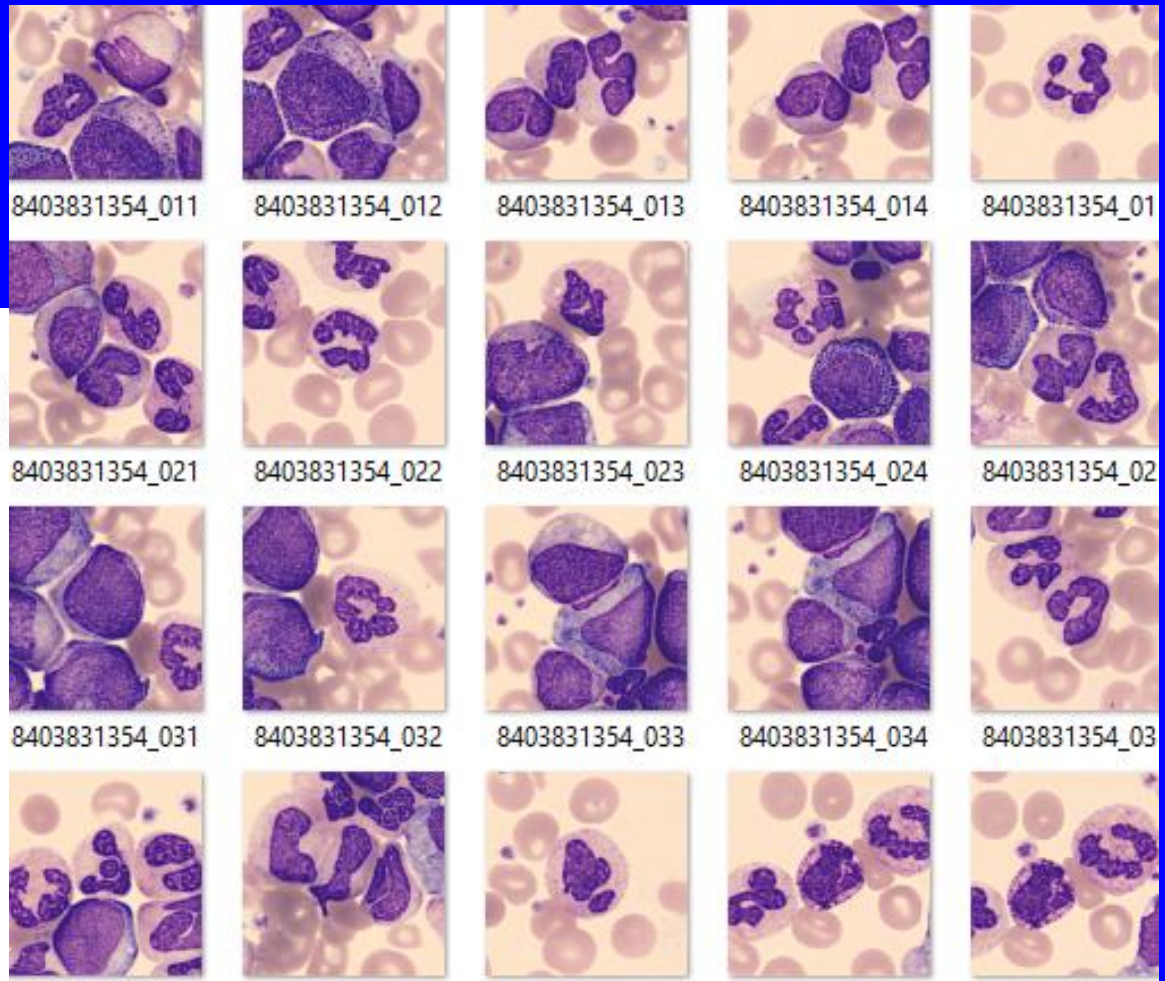


CML

| | | | | |
|------|-------|---------|------|-------|
| WBC | 342.* | 10e9/L | WVF | .969 |
| SEG | 166.* | | %S | 48.5* |
| BAND | 5.86* | | %BD | 1.71* |
| IG | 128.* | | %IG | 37.4* |
| BLST | .052 | | %BL | .015 |
| MONE | 7.44 | | %Me | 2.18 |
| EOS | 14.6* | | %E | 4.28* |
| BASO | 157 | | %B | .046 |
| LYMe | 20.1 | | %Le | 5.88 |
| VARL | 0.00 | | %VL | 0.00 |
| RBC | 2.77 | 10e12/L | RBCo | 2.83 |
| HGB | 76.9 | g/L | %MIC | 5.77 |
| HCT | 256 | L/L | %MAC | 7.00 |
| MCV | 92.5 | fL | %HPO | ---- |
| MCH | 27.7 | pg | %HPR | ---- |
| MCHC | 300. | g/L | | |
| RDW | 19.3 | %CV | | |
| HDW | ---- | % | | |
| RETC | ---- | 10e9/L | %R | ---- |
| IRF | ---- | | | |
| NRBC | 5.91 | 10e9/L | NRW | 1.73 |
| MCVr | ---- | fL | | |
| MCHr | ---- | pg | | |
| CHCr | ---- | g/L | | |
| PLTo | 427. | 10e9/L | PLTi | 431. |
| MPV | 9.88 | fL | CD61 | ---- |
| PDW | 17.0 | 10(GSD) | PLTs | ---- |
| PCT | 4.22 | mL/L | PLTI | ---- |
| %rP | ---- | % | | |

BAND
IG
BLAST

!!



Unable to Find Clear Separation Between WBC Subpopulations Outside Reportable Range

| Manual Differential | | RBC Morphology | |
|---------------------|------|----------------|------|
| SEG | 29 | META | 11.5 |
| BAND | 5.5 | MYELO | 29.5 |
| LYMPH | 2.5 | PRO | 5 |
| MONO | 0.5 | BLAST | 10 |
| EOSIN | 4.5 | VAR LYM | |
| BASO | 2.0 | TOXGRAN | |
| PIT EST | auto | PIT MORPH | |

Test: CBC+Diff

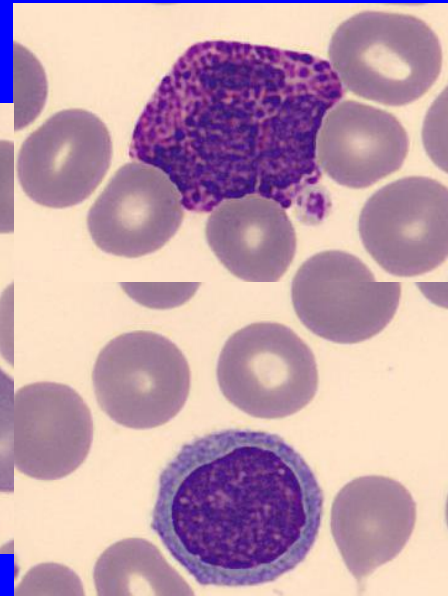
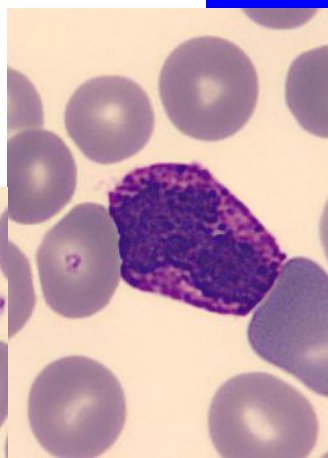
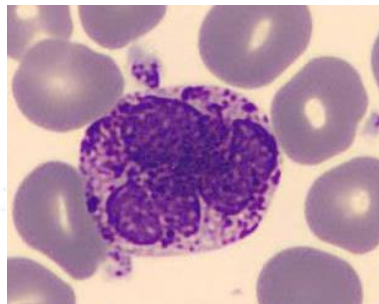
INVALID DATA

Run: 23.07.2018 13:11:48

| | | | |
|------|--------------|---------|-----------|
| WBC | 16,5H | 10e9/L | 4,00-10,0 |
| NEU | 8,65H | 10e9/L | 2,00-7,00 |
| LYM | 2,14 | 10e9/L | 0,80-4,00 |
| MONO | 0,71 | 10e9/L | 0,08-1,20 |
| EOS | ,794H | 10e9/L | 0,00-0,50 |
| BASO | 3,43X | 10e9/L | 0,00-0,20 |
| IG | ,816H | 10e9/L | 0,00-0,10 |
| NRBC | ,153 | 10e9/L | 0,00-999, |
| NR/W | ,928 | % | 0,00-1,00 |
| RBC | 4,03 | 10e12/L | 4,00-5,80 |
| HGB | 121,L | g/L | 135,-175, |
| HCT | 0,36L | L/L | 0,40-0,50 |
| MCV | 89,3 | fL | 84,0-96,0 |
| MCH | 30,1 | pg | 28,0-34,0 |
| MCHC | 337, | g/L | 320,-360, |
| RDW | 14,1 | %CV | 10,0-15,2 |
| PLT | 809,H | 10e9/L | 150,-350, |
| MPV | 9,77 | fL | 7,80-11,0 |

Left Shift

| | | | |
|-----|--------------|---|-----------|
| %N | 52,3 | % | 45,0-70,0 |
| %L | 12,9L | % | 20,0-45,0 |
| %M | 4,29 | % | 2,00-12,0 |
| %E | 4,80 | % | 0,00-5,00 |
| %B | 20,7X | % | 0,00-2,00 |
| %IG | 4,93H | % | 0,00-1,00 |



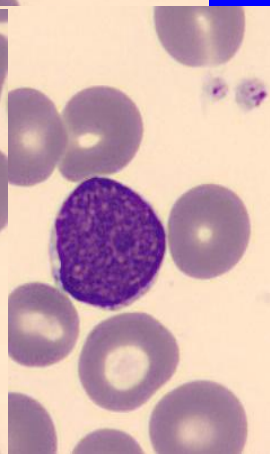
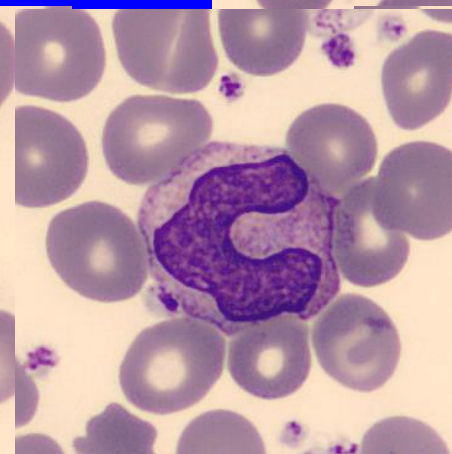
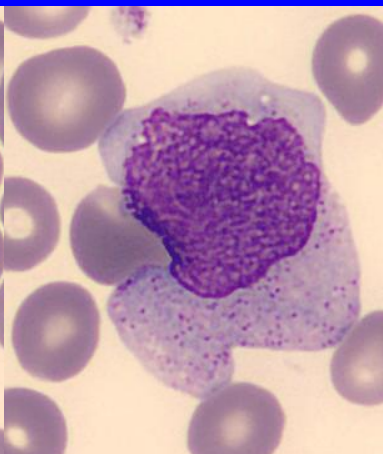
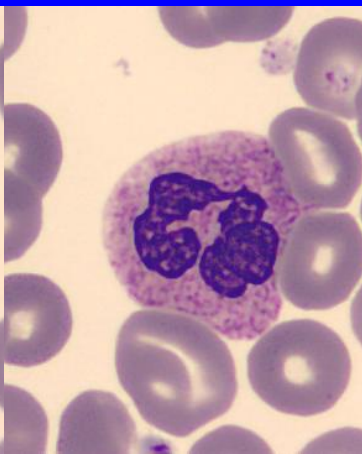
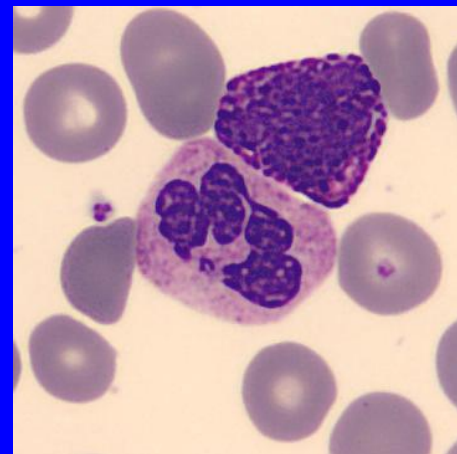
System Messages:

BAS boundary not found

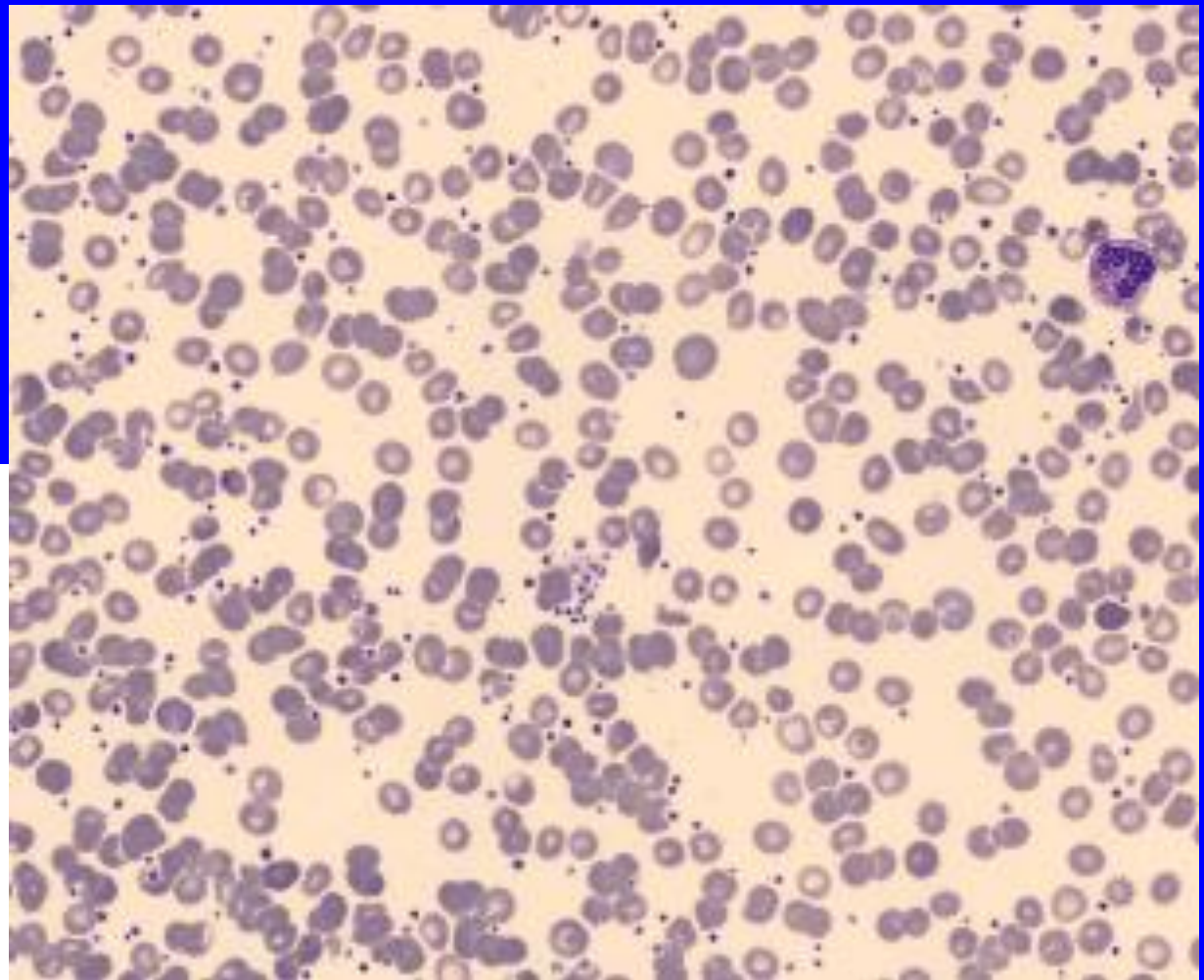
CML - léčba

Schisto, H. - J. Lel., oval

| Manual Differential | | RBC Morphology | |
|---------------------|----|----------------|---|
| NEU | 46 | META | 1 |
| BAND | 2 | MYELO | 2 |
| LYMPH | 12 | PRO | |
| MONO | 3 | BLAST | 2 |
| EOSIN | 6 | VAR LYM | |
| BASO | 26 | TOXGRAN | |
| PLT EST | | SPHERO | 1 |
| | | PLT MORPH | |



ET



| X-B In | WBC In | RBC In | PLT In | RETC In |
|--------|--------|---------|--------|---------|
| WBC | 15.9 | 10e9/L | WVF | .985 |
| SEG | 10.3 | | %S | 64.9 |
| BAND | 0.00 | | %BD | 0.00 |
| IG | 0.00 | | %IG | 0.00 |
| BLST | 0.00 | | %BL | 0.00 |
| MONe | 2.25 | | %Me | 14.1 |
| EOS | .541 | | %E | 3.40 |
| BASO | .031 | | %B | .194 |
| LYMe | 2.77 | | %Le | 17.4 |
| VARL | 0.00 | | %VL | 0.00 |
| RBC | 3.62 | 10e12/L | RBCo | 3.60 |
| HGB | 112. | g/L | %MIC | 1.81 |
| HCT | 345 | L/L | %MAC | 9.45 |
| MCV | 95.3 | fL | %HPO | 14.0 |
| MCH | 30.9 | pg | %HPR | .249 |
| MCHC | 324. | g/L | | |
| RDW | 16.8 | %CV | | |
| HDW | 10.4 | % | | |
| RETC | 93.3 | 10e9/L | %R | 2.57 |
| IRF | .489 | | | |
| NRBC | 0.00 | 10e9/L | NRW | 0.00 |
| MCVr | 98.2 | fL | | |
| MChr | 26.5 | pg | | |
| CHCr | 270. | g/L | | |
| PLTo | 1334 | 10e9/L | PLTi | 1331 |
| MPV | 6.45 | fL | CD61 | ---- |
| PDW | 15.3 | 10(GSD) | PLTs | ---- |
| PCT | 8.61 | mL/L | PLTI | ---- |
| %rP | 1.66 | % | | |

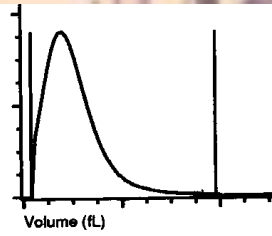
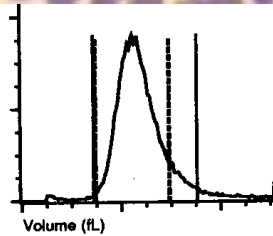


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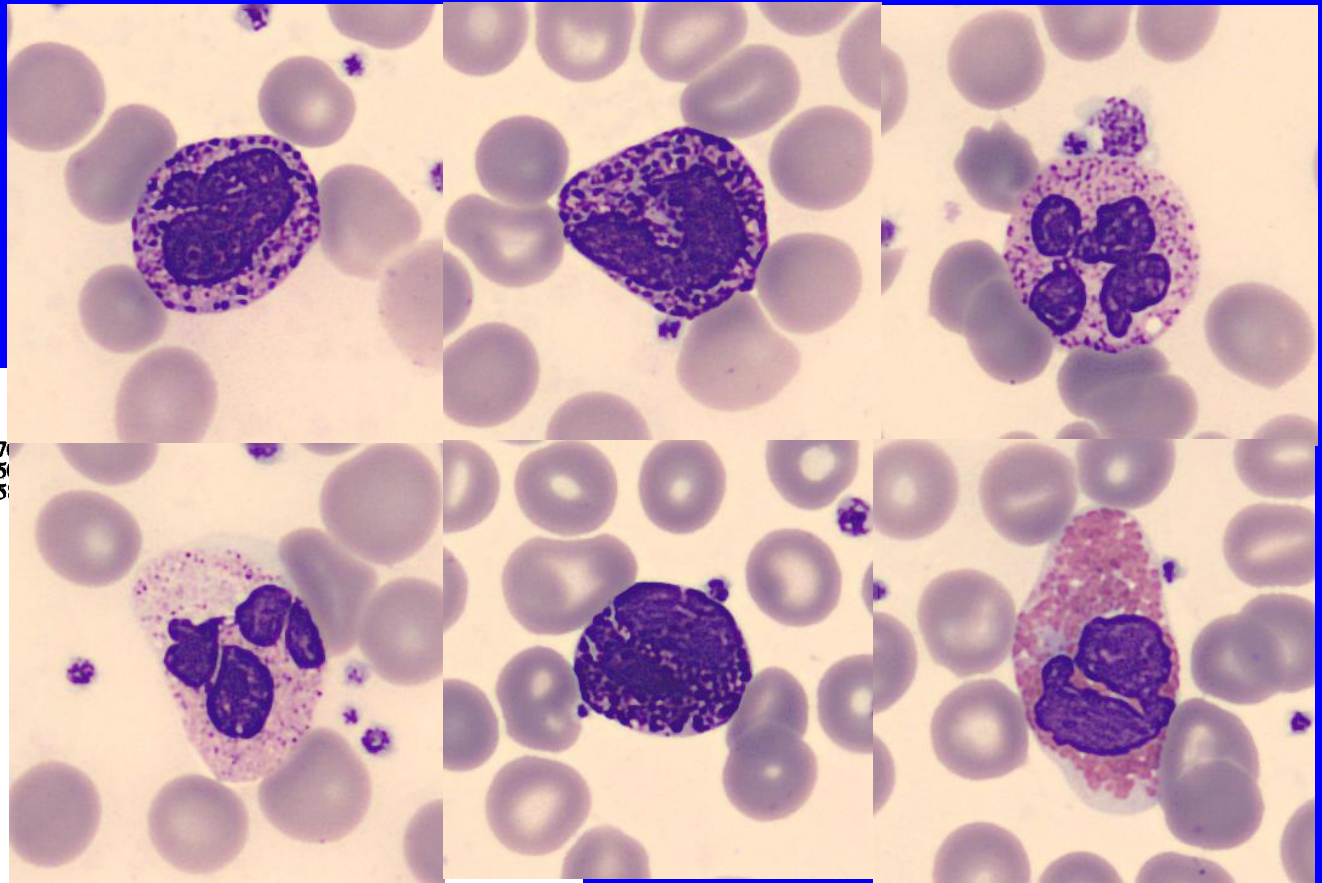
| Manual Differential | RBC Morphology | |
|---------------------|----------------|------------------|
| SEG 37 | META 9 | NORMAL |
| BAND 24 | MYELO 5 | POLYCH (circled) |
| LYMPH 11 | PRO | MACRO (circled) |
| MONO 12 | BLAST | HYPPOCH |
| EOSIN 1 | VAR LYM | POIK |
| BASO | TOXGRAN | TARGET |
| PLT EST | | SPHERO |
| | | NRBC |
| | | PLT MORPH |

Comment: ANISO HAPKRO PLT s/Plucky

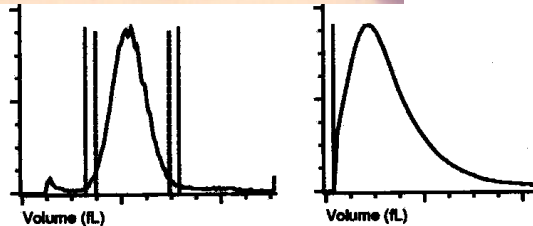
DIFF by: Date:



CML



| 2 Out | In | In | In | 2 Out | *InvalidData |
|-------|-------|----------|------|-------|--------------|
| WBC | 26.9 | 10e9/L | WVF | .986 | |
| SEG | 14.8 | | %S | 55.1 | |
| BAND | 2.32 | | %BD | 8.63 | BAND 0.70 |
| IG | 1.26 | | %IG | 4.69 | IG 0.50 |
| BLST | .006* | | %BL | .022* | BLAST 0.50 |
| MOn | 1.69* | | %Me | 6.26* | |
| EOS | 1.11 | | %E | 4.14 | |
| BASO | 0.951 | | %B | 3.53 | |
| LYMe | 4.74* | | %Le | 17.6* | FP? |
| VARL | 0.00* | | %VL | 0.00* | |
| RBC | 3.95 | 10e12/L | RBCo | 3.89 | |
| HGB | 117 | g/L | %MIC | 4.57 | |
| HCT | 347 | L/L | %MAC | 2.77 | |
| MCV | 87.7 | fL | %HPO | --- | |
| MCH | 29.6 | pg | %HPR | --- | |
| MCHC | 337 | g/L | | | |
| RDW | 15.6 | %CV | | | |
| HDW | --- | % | | | |
| RETC | --- | 10e9/L | %R | --- | |
| IRF | --- | | | | |
| NRBC | 0.00s | 10e9/L | NRW | 0.00s | |
| MCVr | --- | fL | | | |
| MCHr | --- | pg | | | |
| CHCr | --- | g/L | | | |
| PLTo | 1058 | 10e9/L ↑ | PLTI | 1099 | |
| MPV | 8.26 | fL | CD61 | --- | |
| PDW | 17.2 | 10(GSD) | PLTs | --- | |
| PCT | 8.74 | mL/L | PLTI | --- | |
| %rP | --- | % | | | |



Unable to Find Clear Separation Between WBC Subpopulations

| Manual Differential | RBC Morphology | | | |
|----------------------|----------------|--------|----------|--|
| SEG 50 | META 3 | NORMAL | MICRO | |
| BAND 3 | MYELO 4 | POLYCH | MACRO | |
| LYMPH 10 | PRO | HYPOCH | ANISO ✓ | |
| MONO 8 | BLAST | POIK | BAROSTIP | |
| EOSIN 3 | VAR LYM | TARGET | | |
| BASO !! 21 | TOX GRAN | SPHERO | NRBC | |
| PLT EST auto, manual | PLT MORPH | | | |

Comment: *hypochromic, hypogranular, vacuolated*
 DIFF by: *[Signature]* Date: *[Signature]*
Pre-pilledium prothrombin malven + blast.