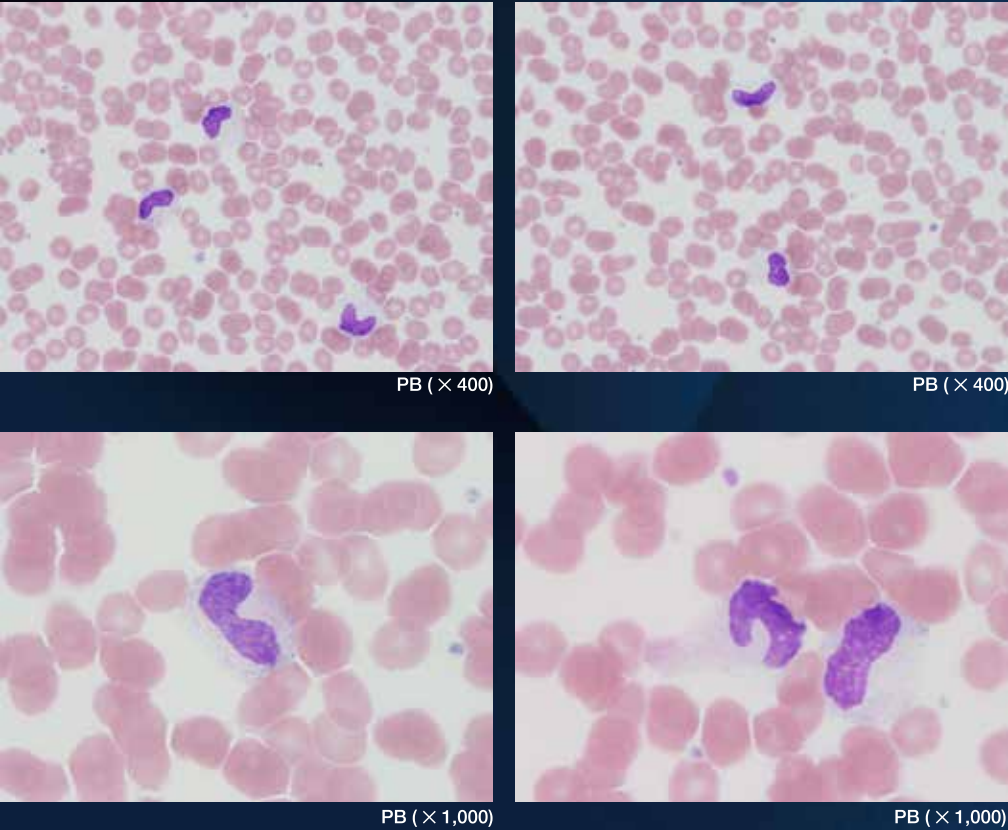


Case 13

Left Shift

Postoperative patient with ulcerative colitis.

Blood smear (May-Giemsa staining)



Visual differential counts

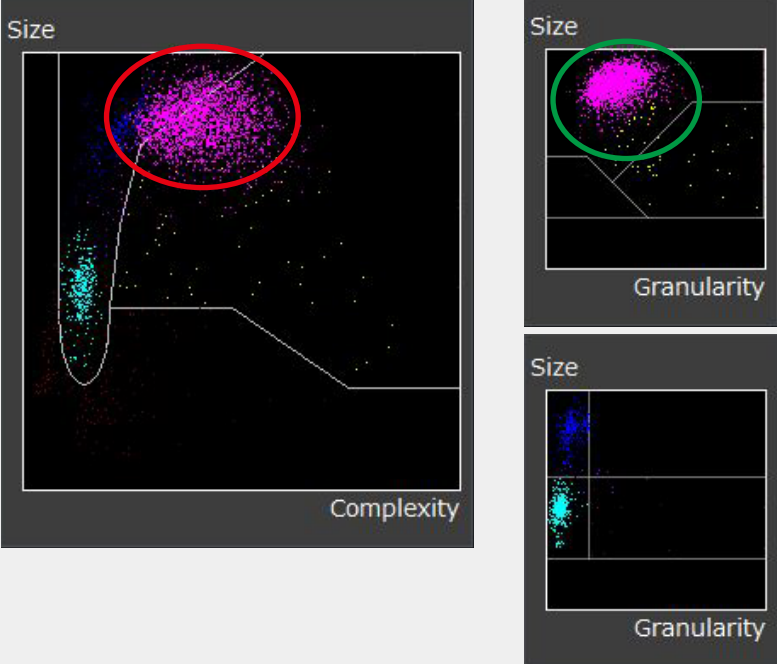
	(%)
Blast	0.0
Promyelo	0.0
Myelo	0.0
Meta	11.0
Band	70.0
Seg	7.0
Eosino	1.0
Baso	0.0
Mono	6.0
Lympho	5.0
Reactive-Ly	0.0
Other	0.0
NRBC	0.0

Celltac Data

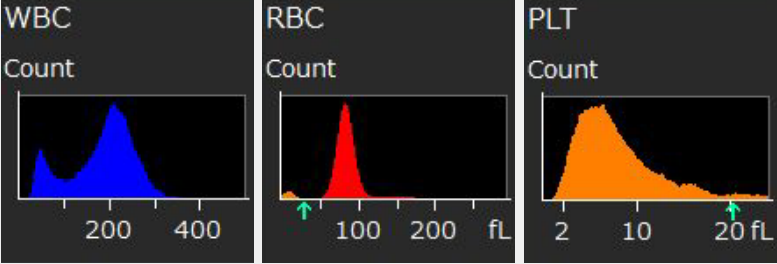
Numerical results

WBC	4.58		10 ³ /μL
RBC	3.88	L	10 ⁶ /μL
HGB	11.11	L	g/dL
HCT	33.5	L	%
MCV	86.3		fL
MCH	28.6		pg
MCHC	33.2		g/dL
RDW-CV	13.5		%
RDW-SD	46.6		fL
PLT	232.4		10 ³ /μL
PCT	0.19		%
MPV	8.3		fL
PDW	18.1		%
P-LCR	37.4		%
P-LCC	86.9		10 ³ /μL
NE	3.70	*	10 ³ /μL
LY	0.52	L	10 ³ /μL
MO	0.26	*	10 ³ /μL
EO	0.08		10 ³ /μL
BA	0.02		10 ³ /μL
NE%	80.78	*	%
LY%	11.37	L	%
MO%	5.74	*	%
EO%	1.75		%
BA%	0.36	L	%
RET	0.0504		10 ⁶ /μL
RET%	1.30		%
IRF	2.8		%
LFR	97.2		%
MFR	2.2		%
HFR	0.6		%

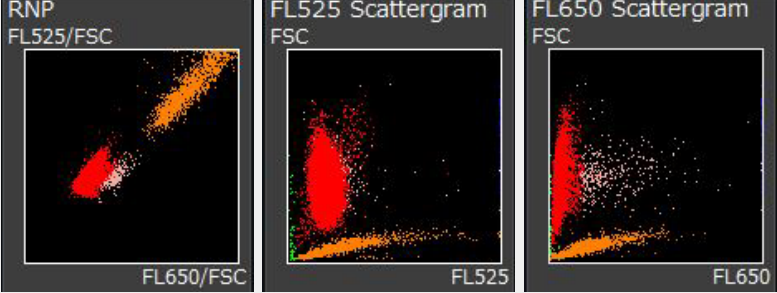
Scattergrams



Histograms



RET Scattergrams



Flags

Morphological Flags	Numerical Flags
Immature Granulocyte	Lymphopenia
Left Shift	

Explanation of scattergram/histogram

The neutrophil plot on the MAIN scattergram shows a shift to the left (○), while the neutrophil plot on the NE-EO scattergram shows a shift upwards (○), suggesting an increase in immature neutrophils, including band neutrophils. “Immature Granulocyte” and “Left Shift” flags indicating this are shown.

Explanation of case

The complete blood count revealed a leukocyte count of 4580/uL, while the white blood cell differential count indicated an increased neutrophil ratio of 80.78%. A peripheral blood smear showed numerous metamyelocytes and band neutrophils.