

CONTINUING MEDICAL EDUCATION ΣΥΝΕΧΙΖΟΜΕΝΗ ΙΑΤΡΙΚΗ ΕΚΠΑΙΔΕΥΣΗ

Hematology-Cell Morphology – Case 13

The presence of these morphological features of granulocytic series in the bone marrow smears are characterized by hyperplasia or hypoplasia of the granulocytic series, nucleus-cytoplasmic maturation arrest, presence of pseudo-Pelger neutrophils, hypersegmented nuclei, presence of pseudonuclei (intranuclear inclusions), absent or irregular granulation, presence of pseudo-Chediak-Higashi neutrophils, increase of blast percentage, increase of abnormal promyelocytes, monocytic hyperplasia or increase of promonocytes/monocytes, monocyteoid appearance of the granulocytic series cells (figures 1 to 16). In the peripheral blood parent the above mentioned anomalies and also may be present neutropenia or neutrophilia, monocytosis, hypersegmented neutrophils, agranular neutrophils, neutrophils with Dohle bodies, or

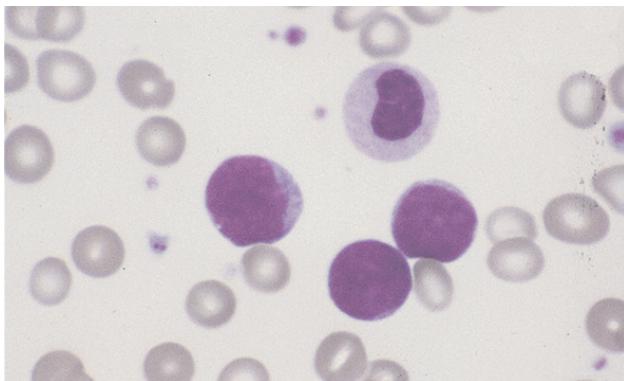


Figure 1

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ΑΡΧΕΙΑ ΕΛΛΗΝΙΚΗΣ ΙΑΤΡΙΚΗΣ 2021, 38(6):860-862

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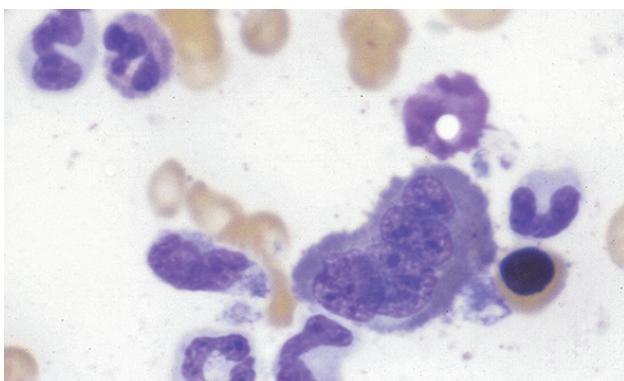


Figure 2

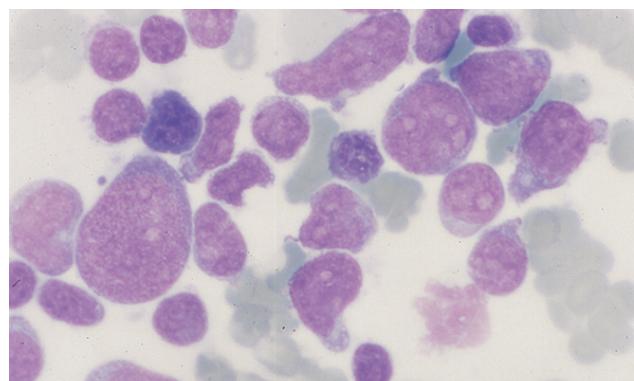
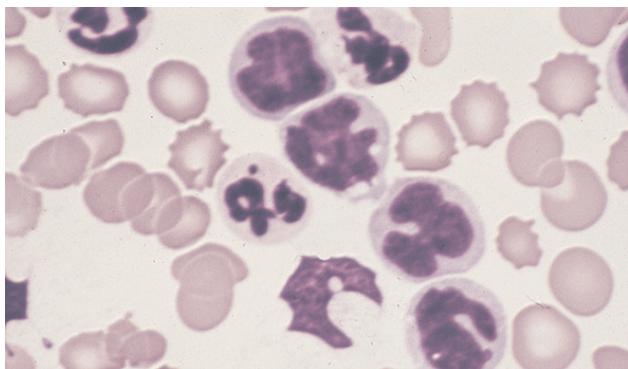
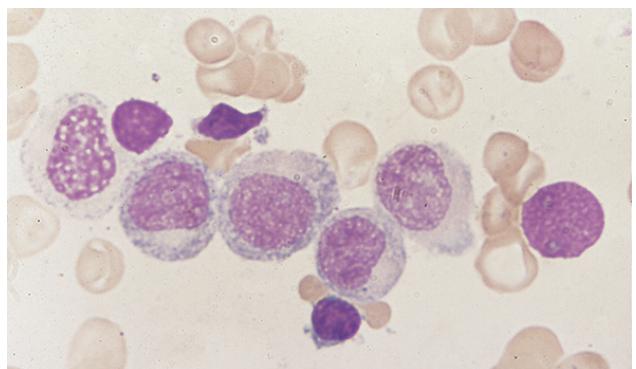
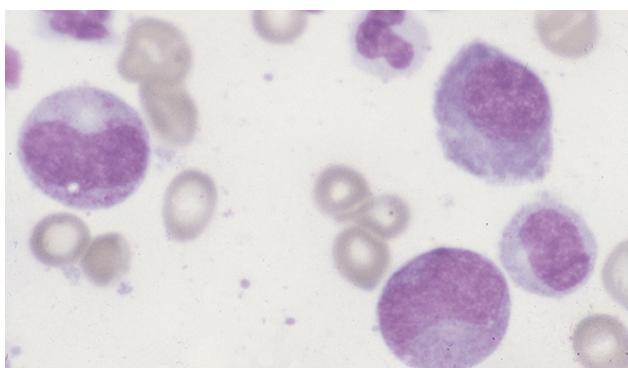
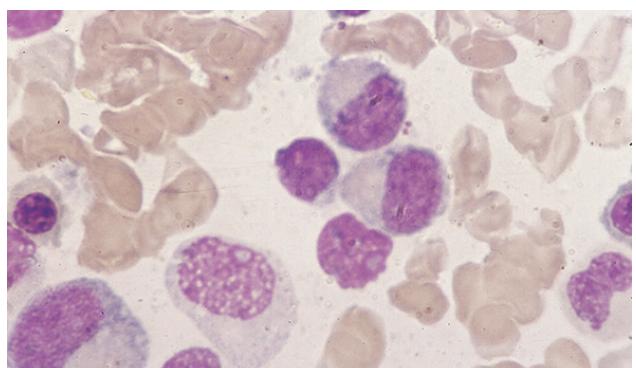
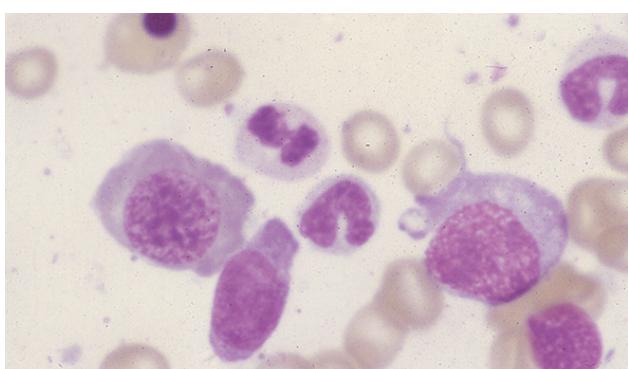
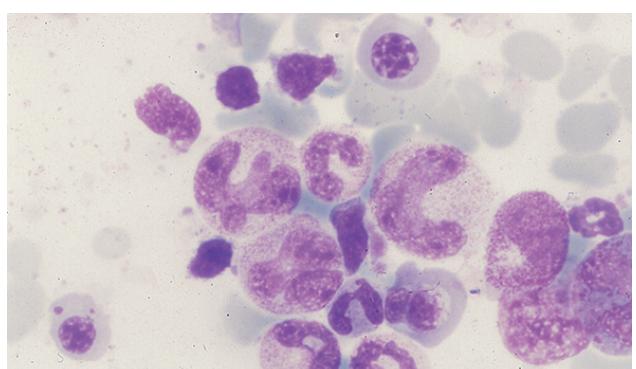
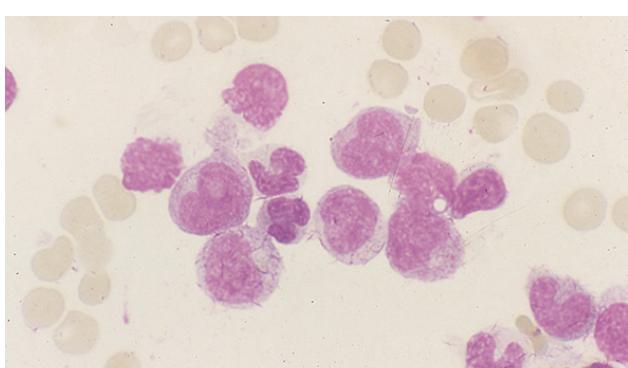
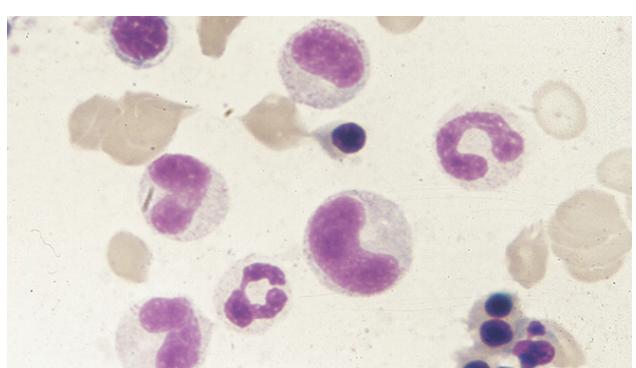
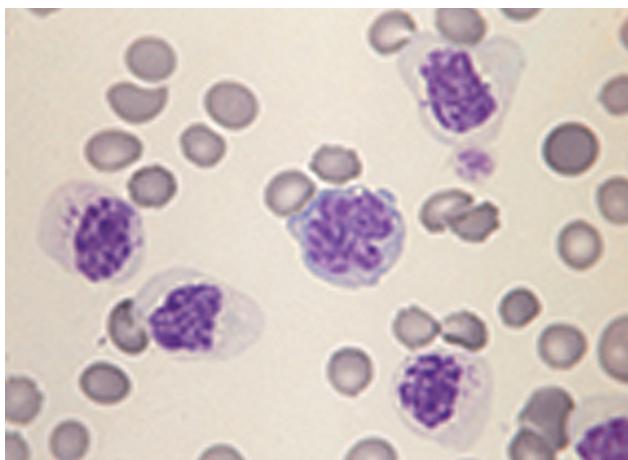
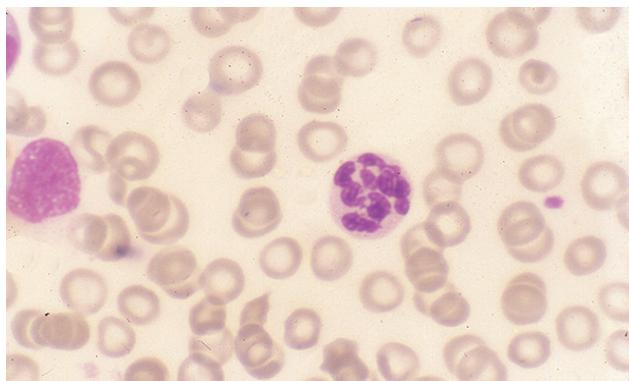
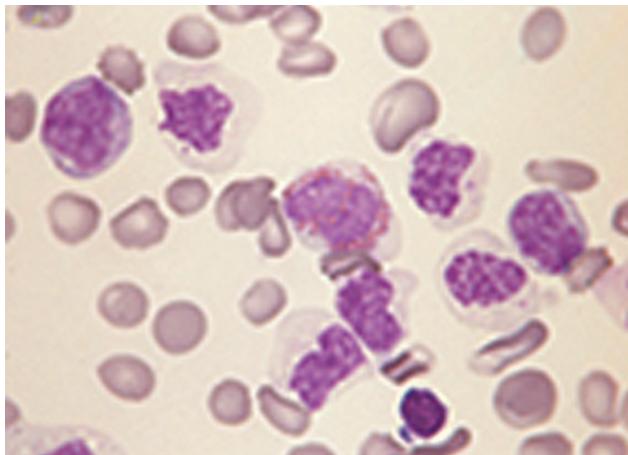
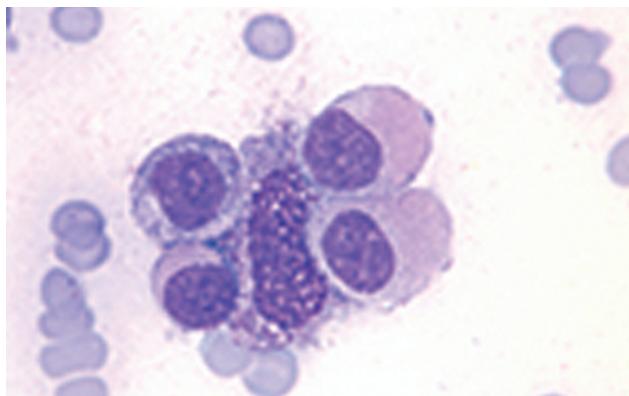
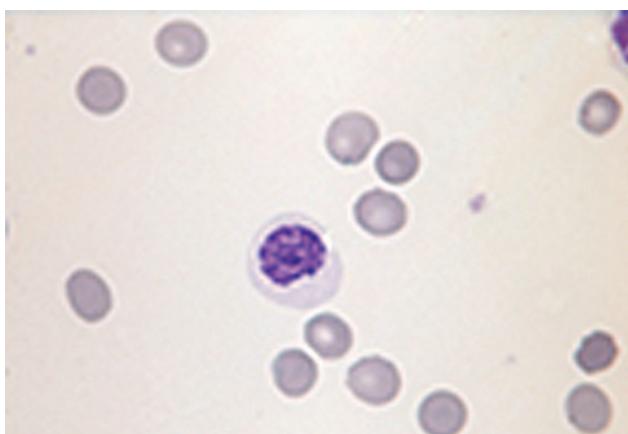


Figure 3

**Figure 4****Figure 8****Figure 5****Figure 9****Figure 6****Figure 10****Figure 7****Figure 11**

**Figure 12****Figure 15****Figure 13****Figure 16****Figure 14**

eosinophils with decreased granulation or containing vacuoles. In *in vitro* cultures large clusters colony growth may be present. They are present mainly in myelodysplastic syndromes, leukemias, in megaloblastic anemia, in myelophthisic anemias, following different drugs therapy reacting with DNA metabolism, in hepatic insufficiency or bone marrow infiltration by malignant cells.

References

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