

## CONTINUING MEDICAL EDUCATION ΣΥΝΕΧΙΖΟΜΕΝΗ ΙΑΤΡΙΚΗ ΕΚΠΑΙΔΕΥΣΗ

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### Hematology-Cell Morphology – Case 6

(A)

Measuring 10–20  $\mu\text{m}$ , with a mature round or oval nucleus without nucleoli (nucleus to cytoplasm [N/C] ratio approximately 2:1). The nucleus is smaller and deeper than the promyelocyte nucleus and has small amounts of chromatin masses. The cytoplasm, rarely in the central part, is acidophilic (contains acidophilic specific granulation) and the peripheral zone is light and basophilic (contains mainly azurophilic granulation) (figures 1 to 6). It represents approximately 5–19% (eosinophilic myelocytes: 0–1.1%, basophilic myelocytes: 0–0.5%) of the myeloid cells.

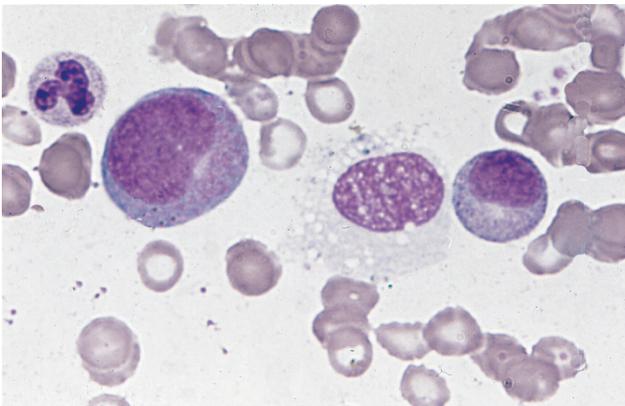


Figure 1

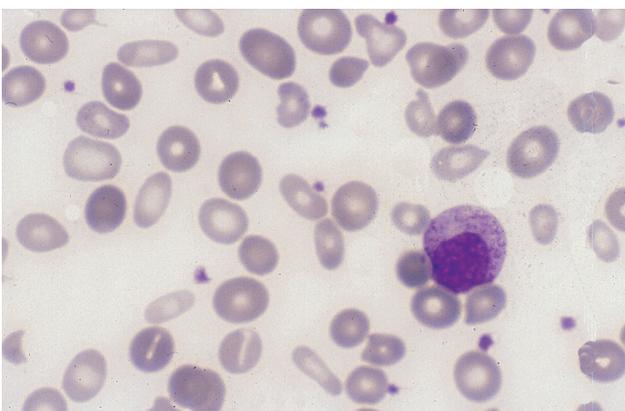


Figure 2

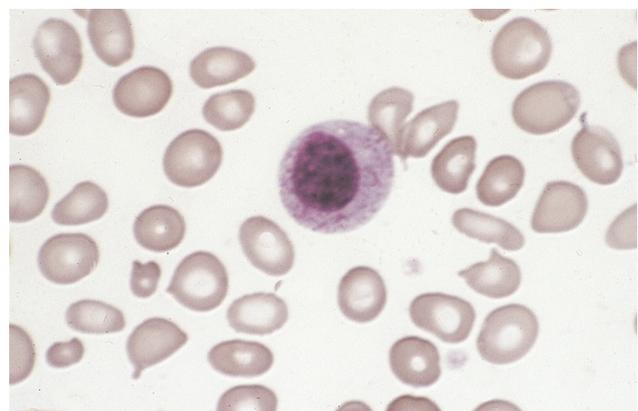


Figure 3

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ΑΡΧΕΙΑ ΕΛΛΗΝΙΚΗΣ ΙΑΤΡΙΚΗΣ 2020, 37(4):569–571

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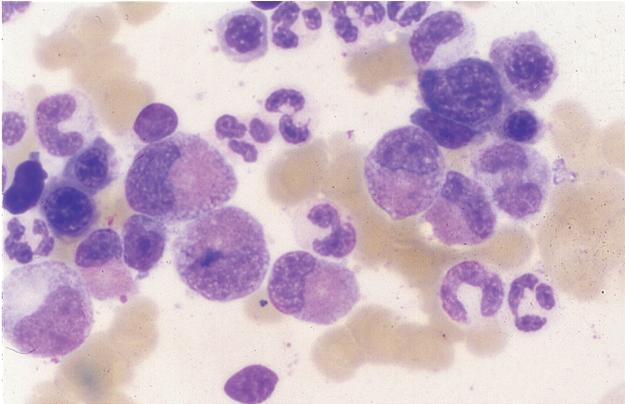


Figure 4

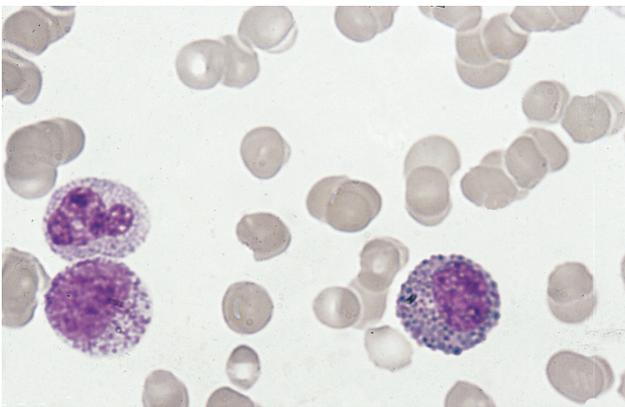


Figure 5

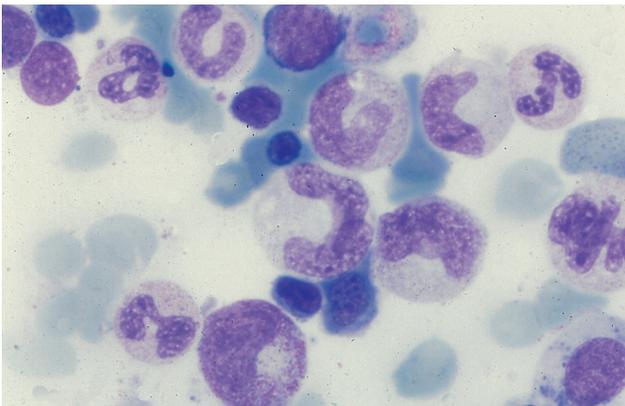


Figure 6

**(B)**

Its size is 10–16  $\mu\text{m}$ . It has the same morphological appearance of the myelocyte and neutrophil, but with a kidney shaped nucleus and a dense chromatin appearance with the presence of dark blocks. The color of the cytoplasm depends on the pH

of the pigment, and the number of primitive granules which remain (figures 7 to 12). It represents approximately 17.5–33.7% (eosinophilic metamyelocytes: 0.5–4%, basophilic metamyelocytes: 0–3.7%) of the myeloid cells.

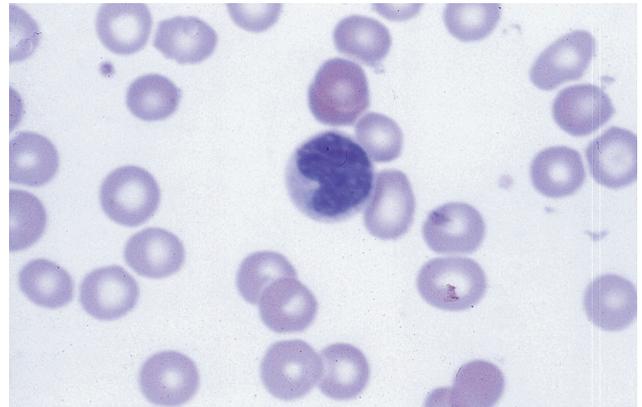


Figure 7

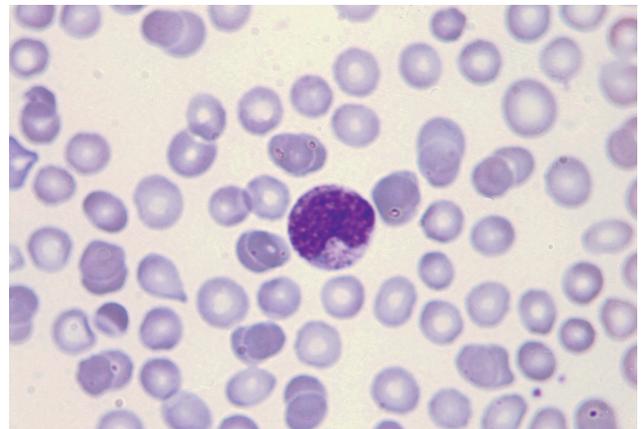


Figure 8

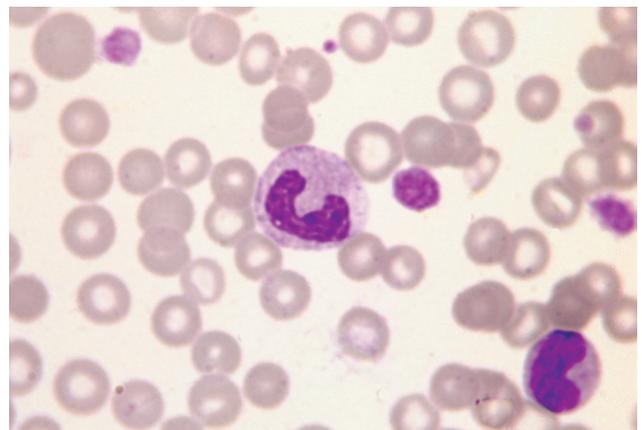


Figure 9

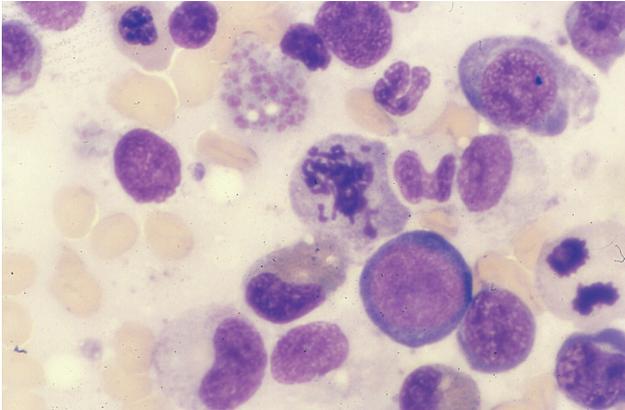


Figure 10

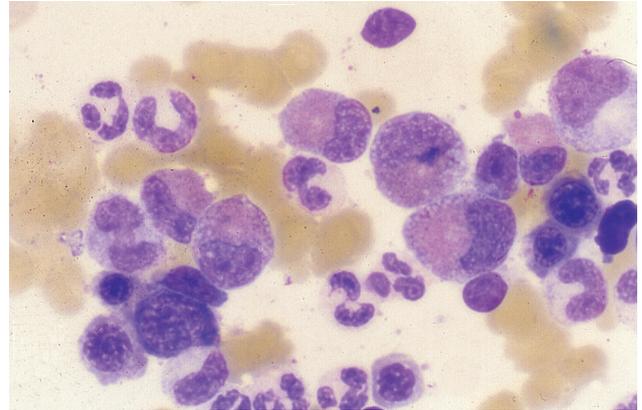


Figure 12

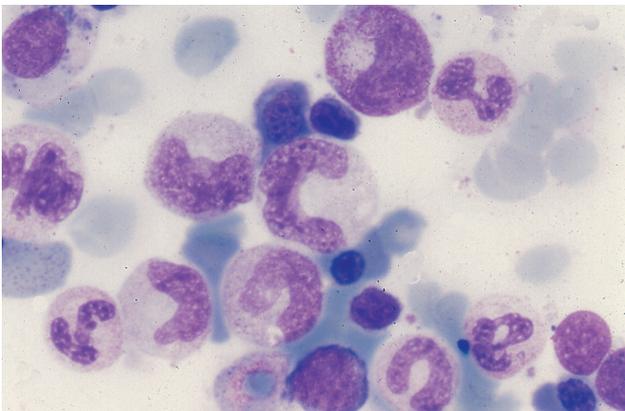


Figure 11

### References

1. MELETIS J. *Atlas of hematology*. 3rd ed. Nireas Publ Inc, Athens, 2009:23–34

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