

## CONTINUING MEDICAL EDUCATION ΣΥΝΕΧΙΖΟΜΕΝΗ ΙΑΤΡΙΚΗ ΕΚΠΑΙΔΕΥΣΗ

---

### Hematology-Cell Morphology – Case 16

At times of this type of the disease some red cells, erythroblasts, cells of the granulocytic series, platelets and other marrow cells, are phagocytized by different types of macrophages and reticular cells. It is commonly present in hemolytic anemias, during chronic infections, in tuberculosis and mainly in malignant histiocytosis. Hemophagocytic syndrome is present as accompanying viral infections and it is mainly observed during herpetic infections and Epstein-Barr virus (EBV) infection in immunocompromised host, but may occurred also and in non-immunocompromised persons. Clinically, it may mimic malignant histiocytosis and the affected sites are infiltrated by histiocytes with signs of phagocytosis. Differential diagnosis is

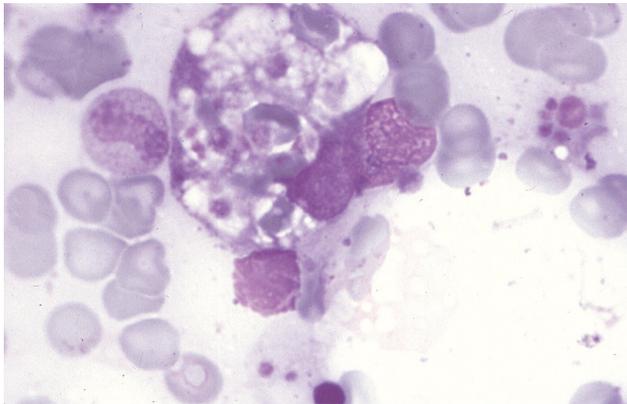


Figure 1

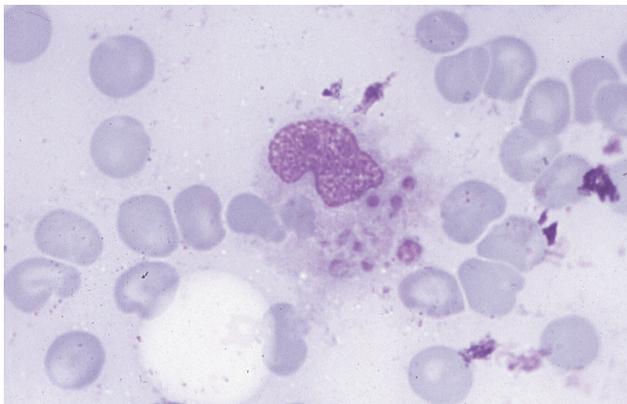


Figure 2

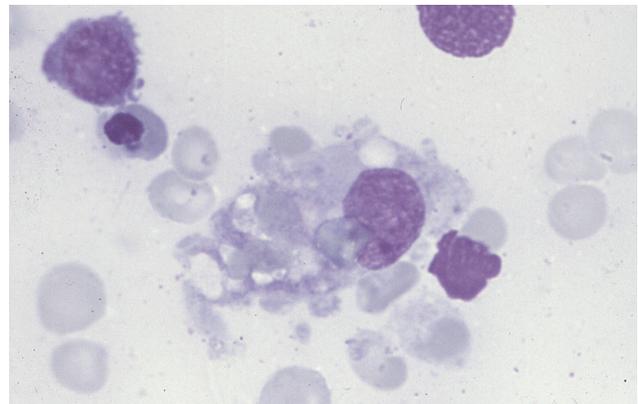


Figure 3

ARCHIVES OF HELLENIC MEDICINE 2022, 39(4):573–576  
ΑΡΧΕΙΑ ΕΛΛΗΝΙΚΗΣ ΙΑΤΡΙΚΗΣ 2022, 39(4):573–576

---

**J.V. Asimakopoulos,  
L. Papageorgiou,  
J. Drandakis,  
I. Vasilopoulos,  
D. Galopoulos,  
A. Kopsaftopoulou,  
A. Piperidou,  
A. Machairas,  
A. Georgopoulou,  
A. Karapaschalidis,  
M.A. Lefaki,  
A. Liaskas,  
C. Zerzi,  
E. Sinni,  
E. Plata,  
P. Tsaftaridis,  
M.P. Siakantaris,  
T.P. Vassilakopoulos,  
M.K. Angelopoulou,  
J. Meletis**

---

*National and Kapodistrian University  
of Athens, School of Medicine, "Laikon"  
General Hospital, Athens, Greece*

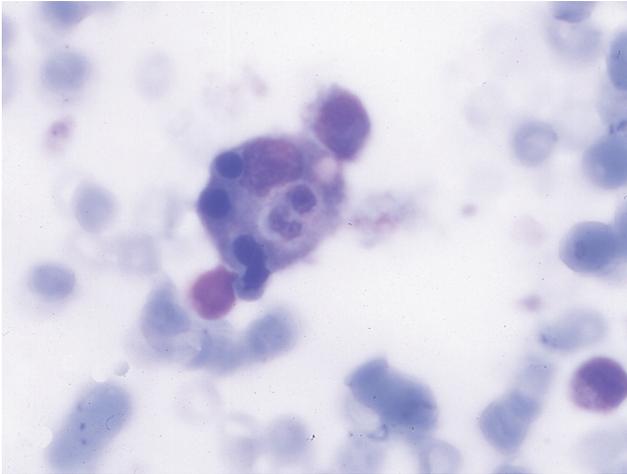


Figure 4

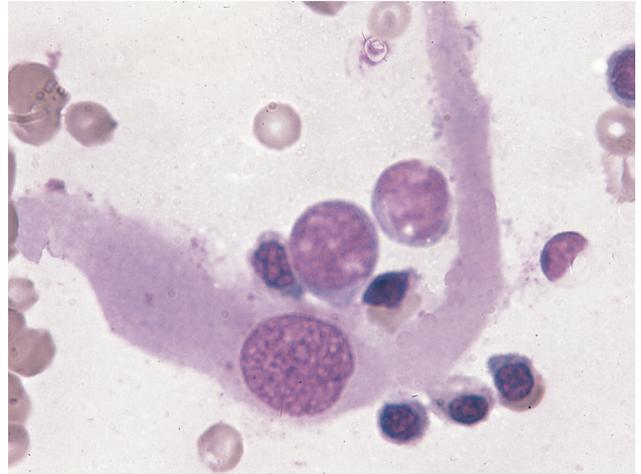


Figure 8

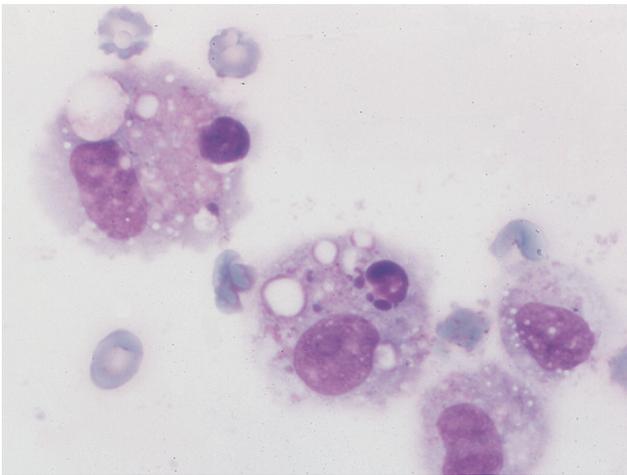


Figure 5

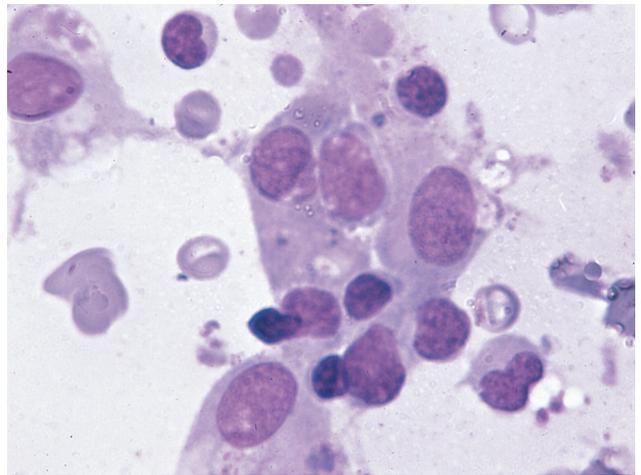


Figure 7

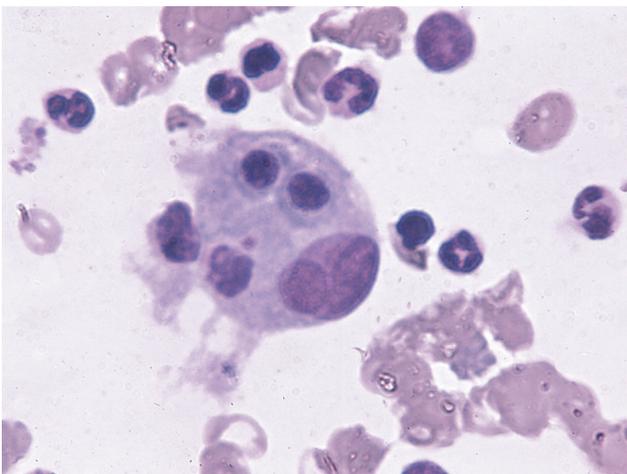


Figure 6

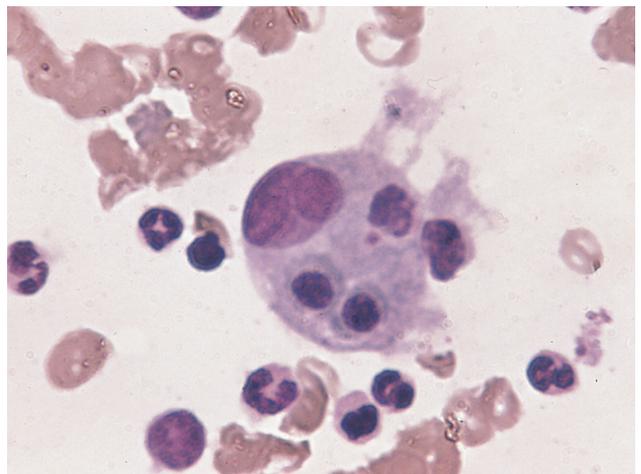


Figure 9

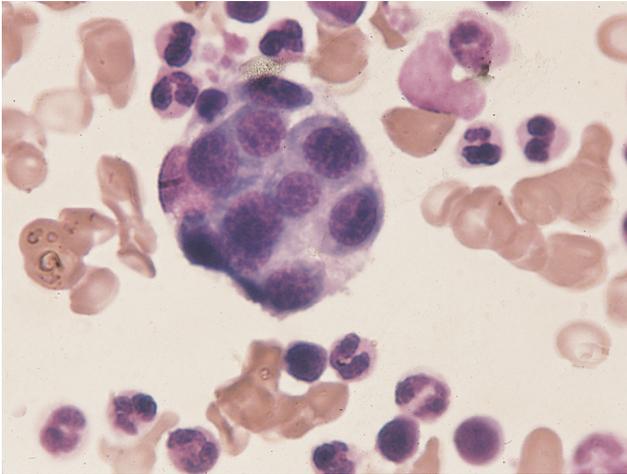


Figure 10

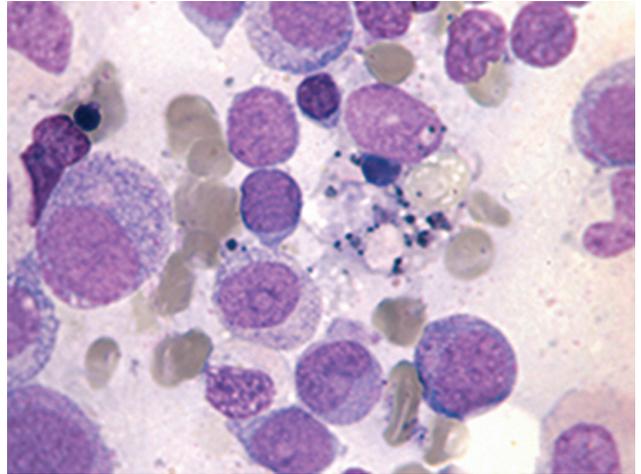


Figure 13

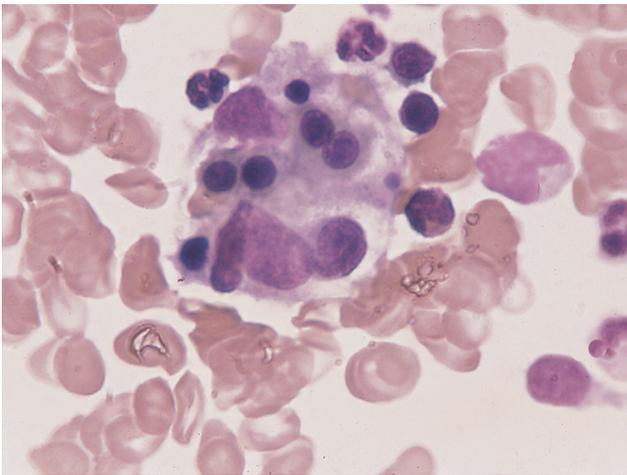


Figure 11

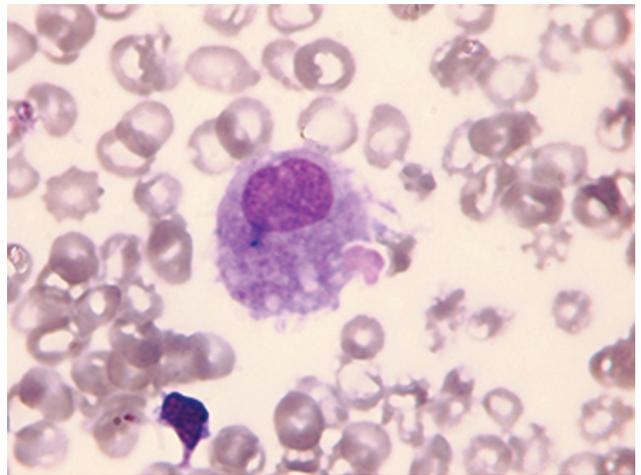


Figure 14

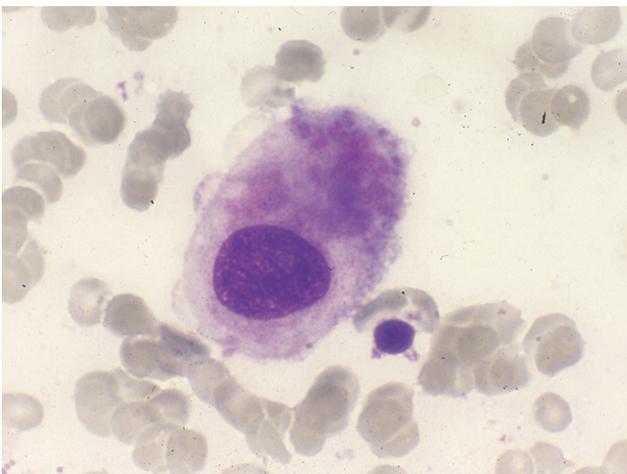


Figure 12

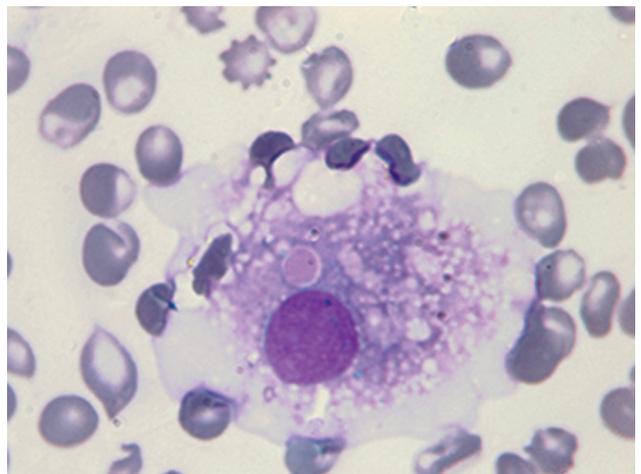
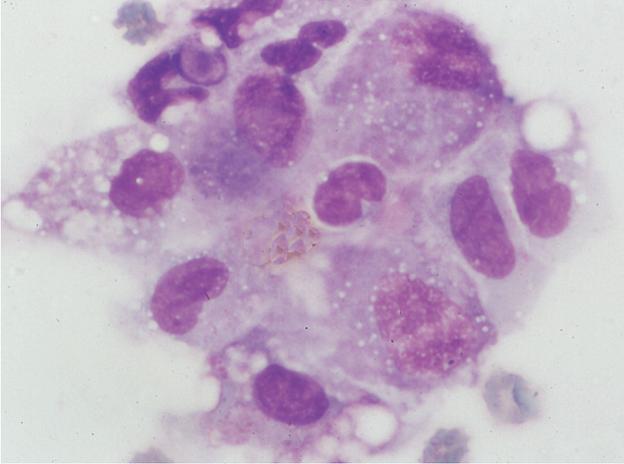


Figure 15



**Figure 16**

based on histiocyte morphology (figures 1 to 16) (i.e. they are not well-differentiated in malignant histiocytosis, but they are well-differentiated and active in hemophagocytic syndrome).

### References

1. MELETIS J. *Atlas of hematology*. 3rd ed. Nireas Publ Inc, Athens, 2009:130–139

*Corresponding author:*

J. Meletis, National and Kapodistrian University of Athens, School of Medicine, "Laikon" General Hospital, Athens, Greece  
e-mail: imeletis@med.uoa.gr