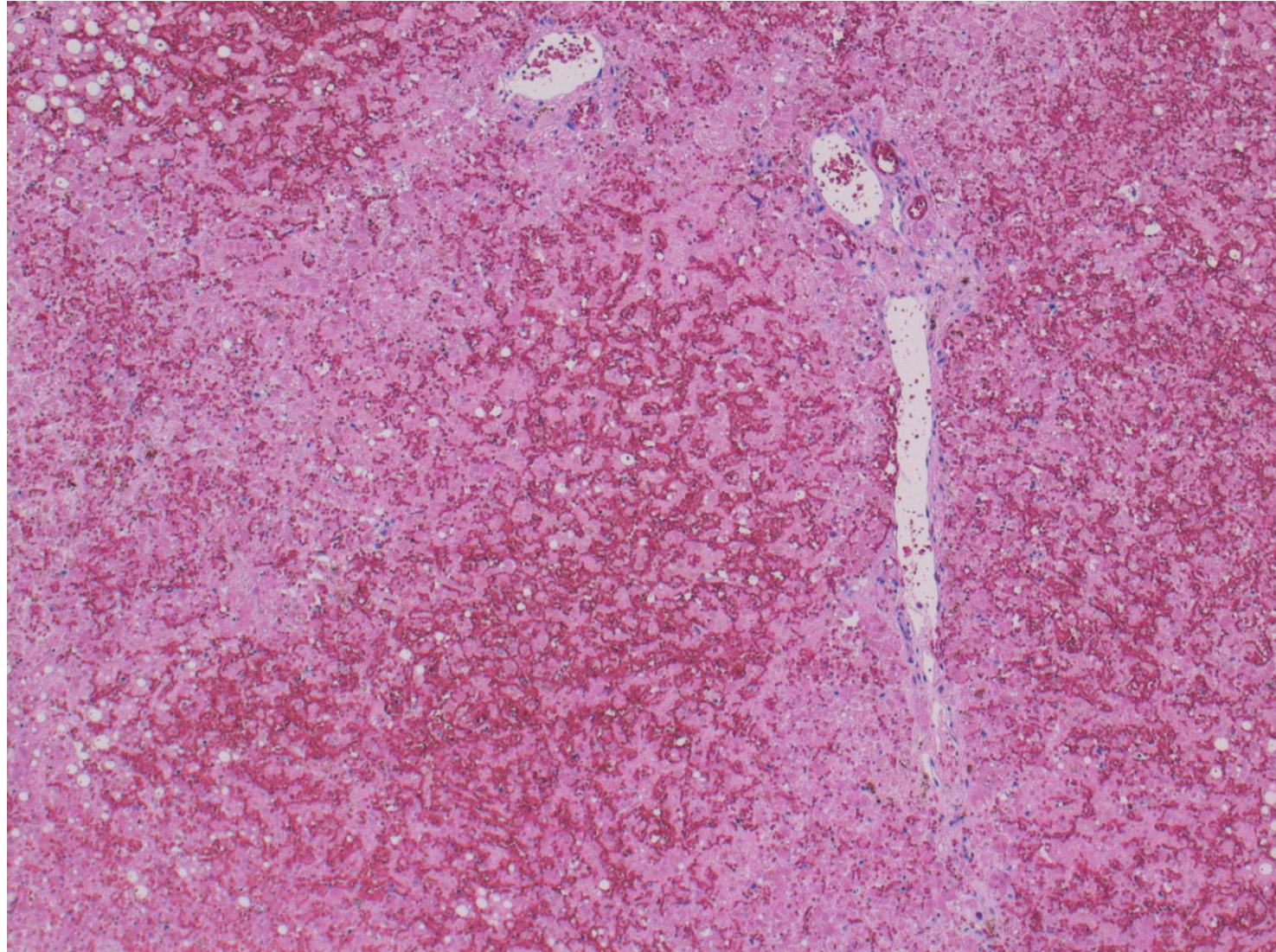


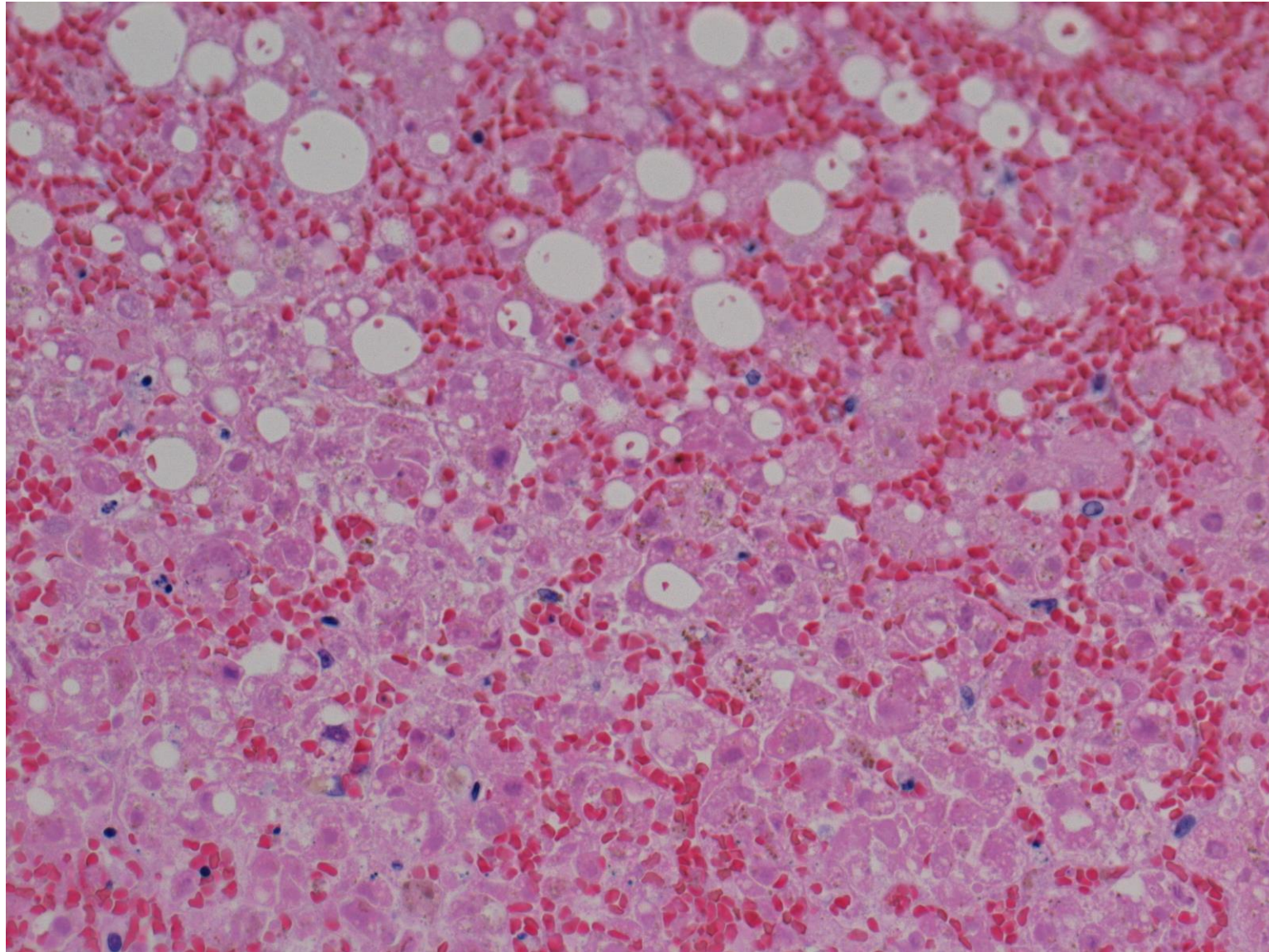
Adenoviral fulminant hepatitis

An autopsy case (13-year-old girl) of adenoviral fulminant hepatitis is presented. At the age of 10, she developed AML. After a temporal remission state induced by chemotherapy, the leukemia recurred 11 months after onset, and bone marrow transplantation and peripheral blood stem cell transplantation were performed 22 months after onset. To relieve high fever due to engraftment syndrome, methyl PSL was given. The liver dysfunction was progressed to kill the patient. The total clinical course was 37 months. Opportunistic adenoviral hepatitis was confirmed by autopsy.

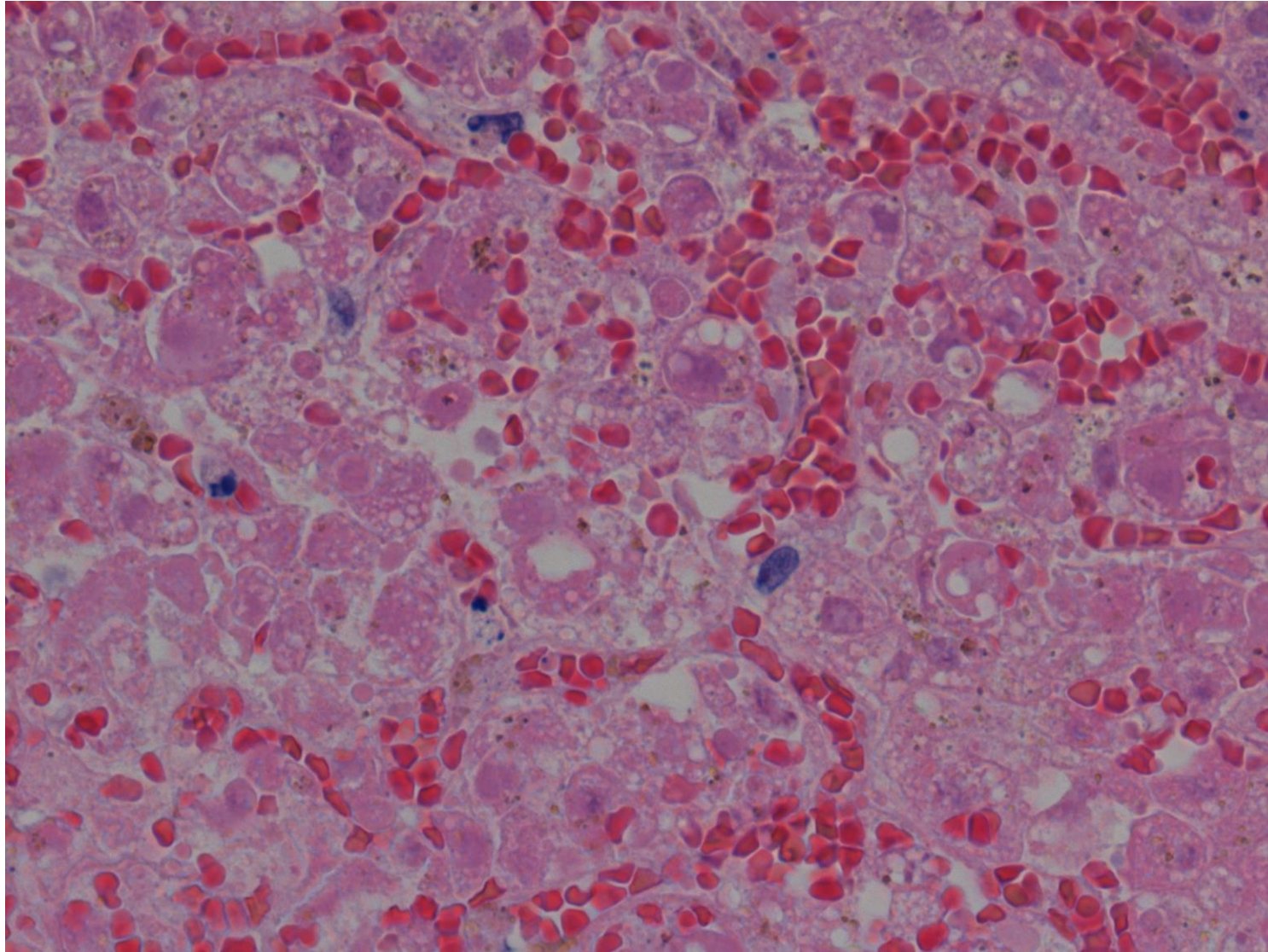
Ref.: Kager J, et al. Fulminant adenoviral-induced hepatitis in immunosuppressed patients. *Viruses* 2022; 14(7): 1459. doi: 10.3390/v14071459



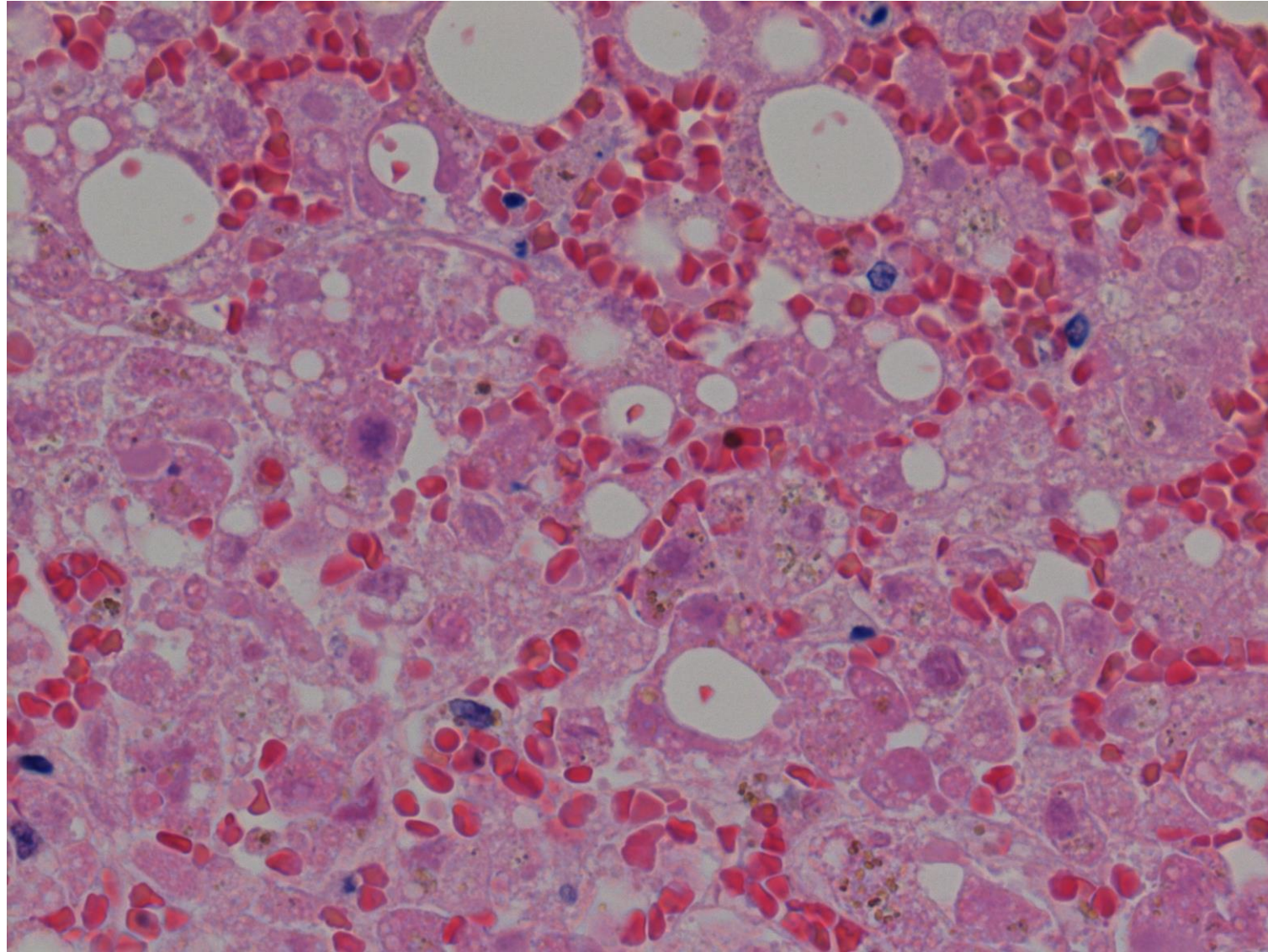
Massive hemorrhagic necrosis is seen in the liver of a 13-year-old girl after stem cell transplantation and methyl-PSL administration. H&E-1



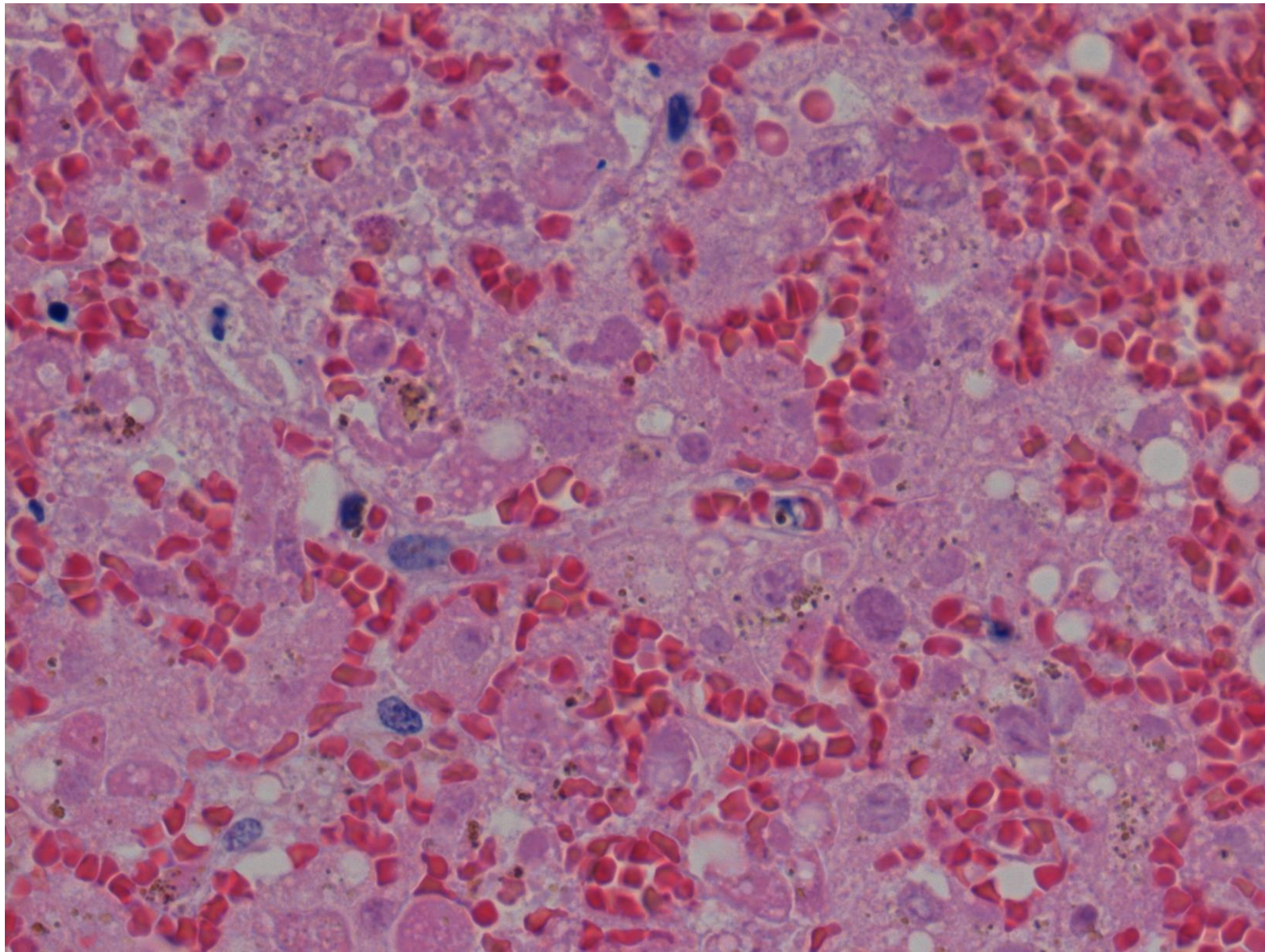
Massive hemorrhagic necrosis is seen in the liver of a 13-year-old girl after stem cell transplantation and methyl-PSL administration. Intranuclear viral inclusion bodies are scattered. H&E-2



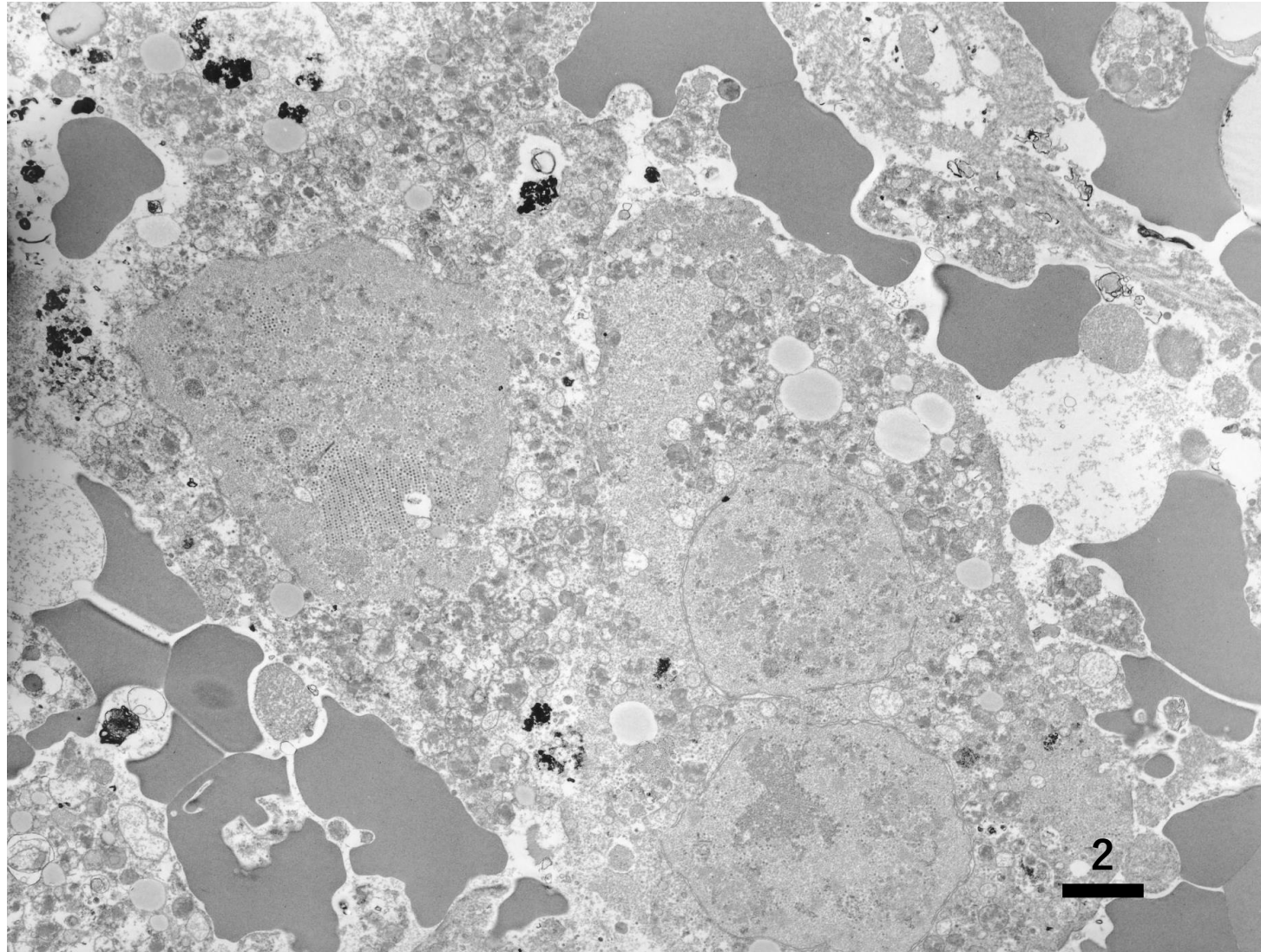
Massive hemorrhagic necrosis is seen in the liver of a 13-year-old girl after stem cell transplantation and methyl-PSL administration. Intranuclear viral inclusion bodies are scattered. H&E-3



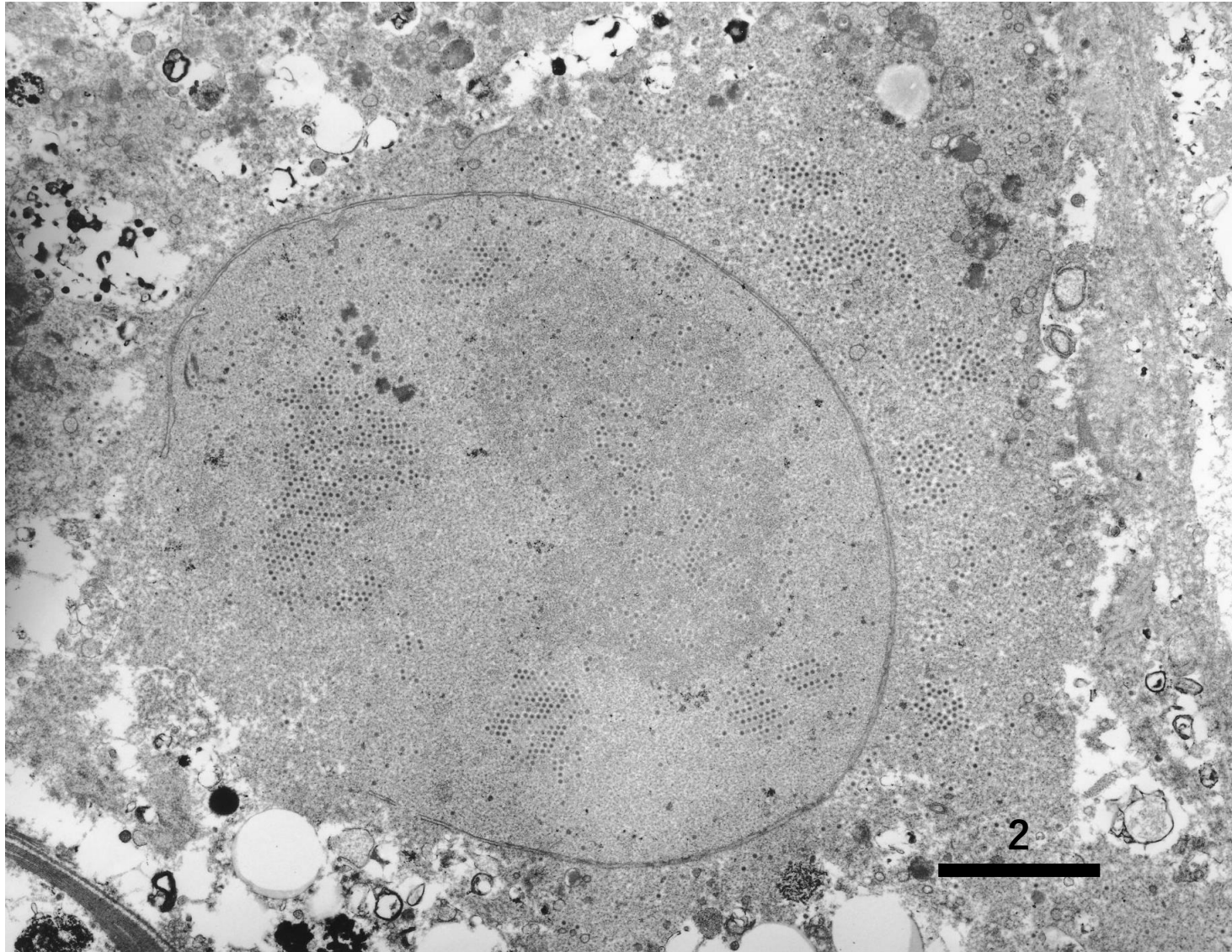
Massive hemorrhagic necrosis is seen in the liver of a 13-year-old girl after stem cell transplantation and methyl-PSL administration. Intranuclear viral inclusion bodies are scattered. H&E-4



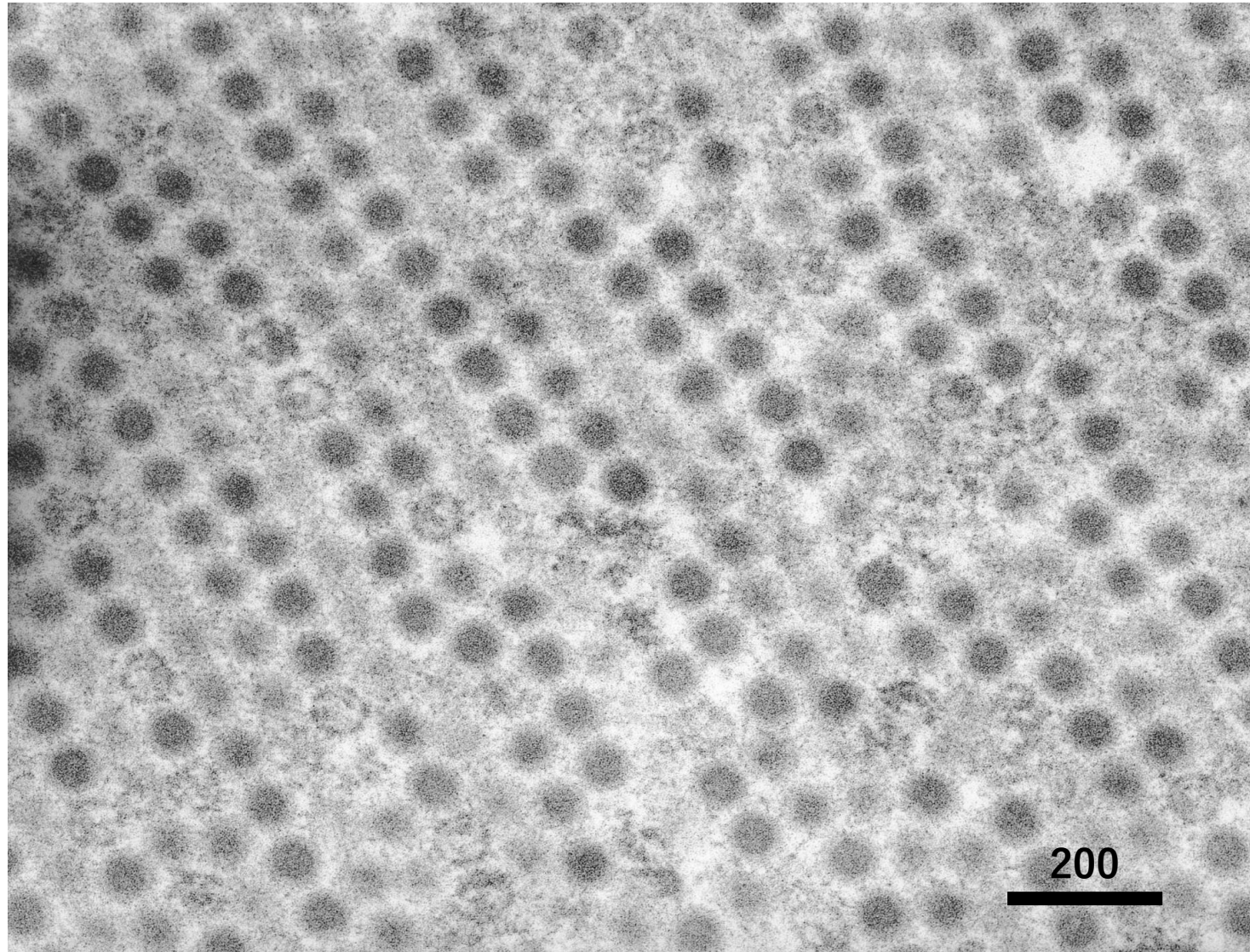
Massive hemorrhagic necrosis is seen in the liver of a 13-year-old girl after stem cell transplantation and methyl-PSL administration. Intranuclear viral inclusion bodies are scattered. H&E-5



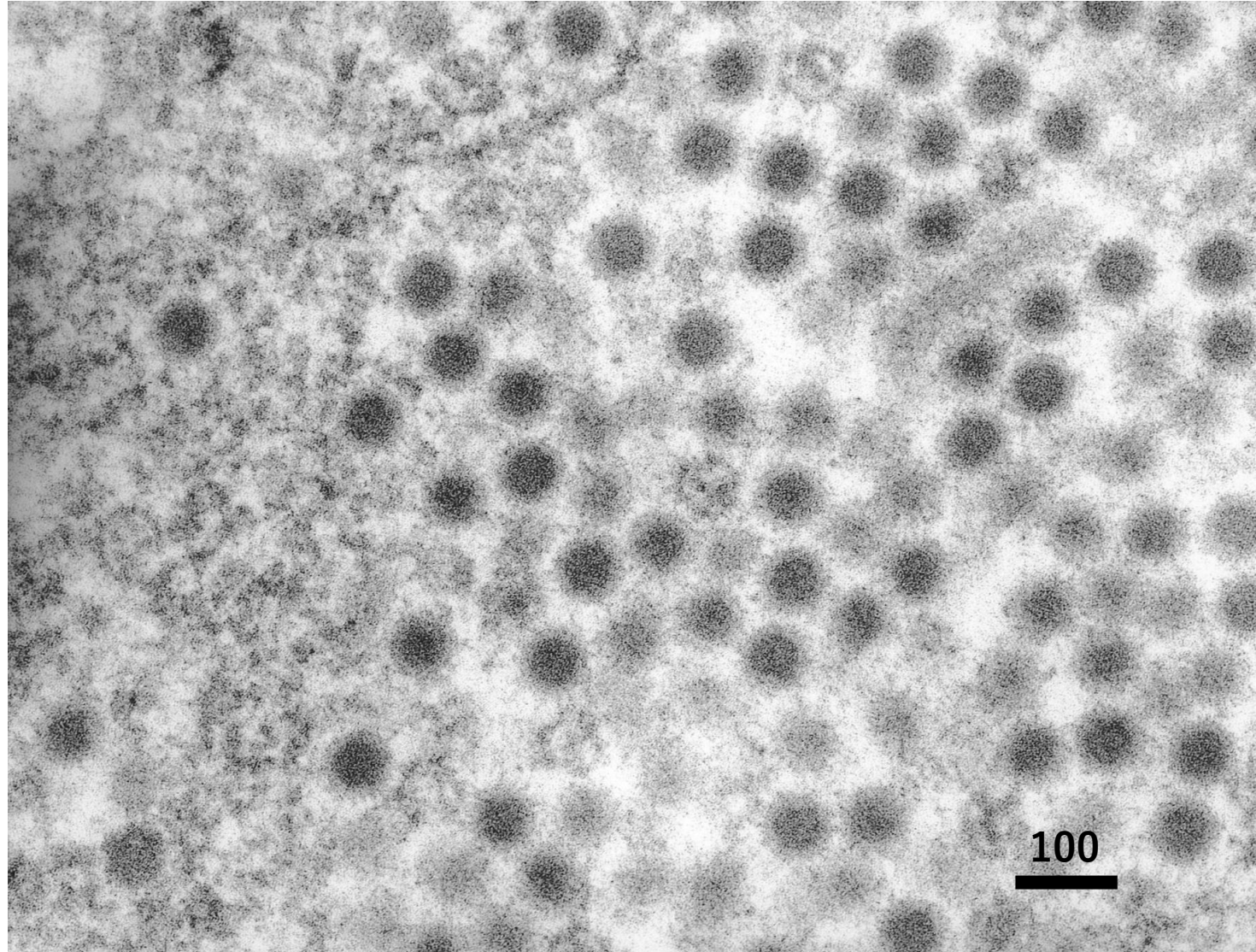
Ultrastructure of adenoviral fulminant hepatitis. Viral particles are clustered in the nuclei of the hepatocytes. Fat droplets are seen in the cytoplasm. The sinusoid is congested. EM-1



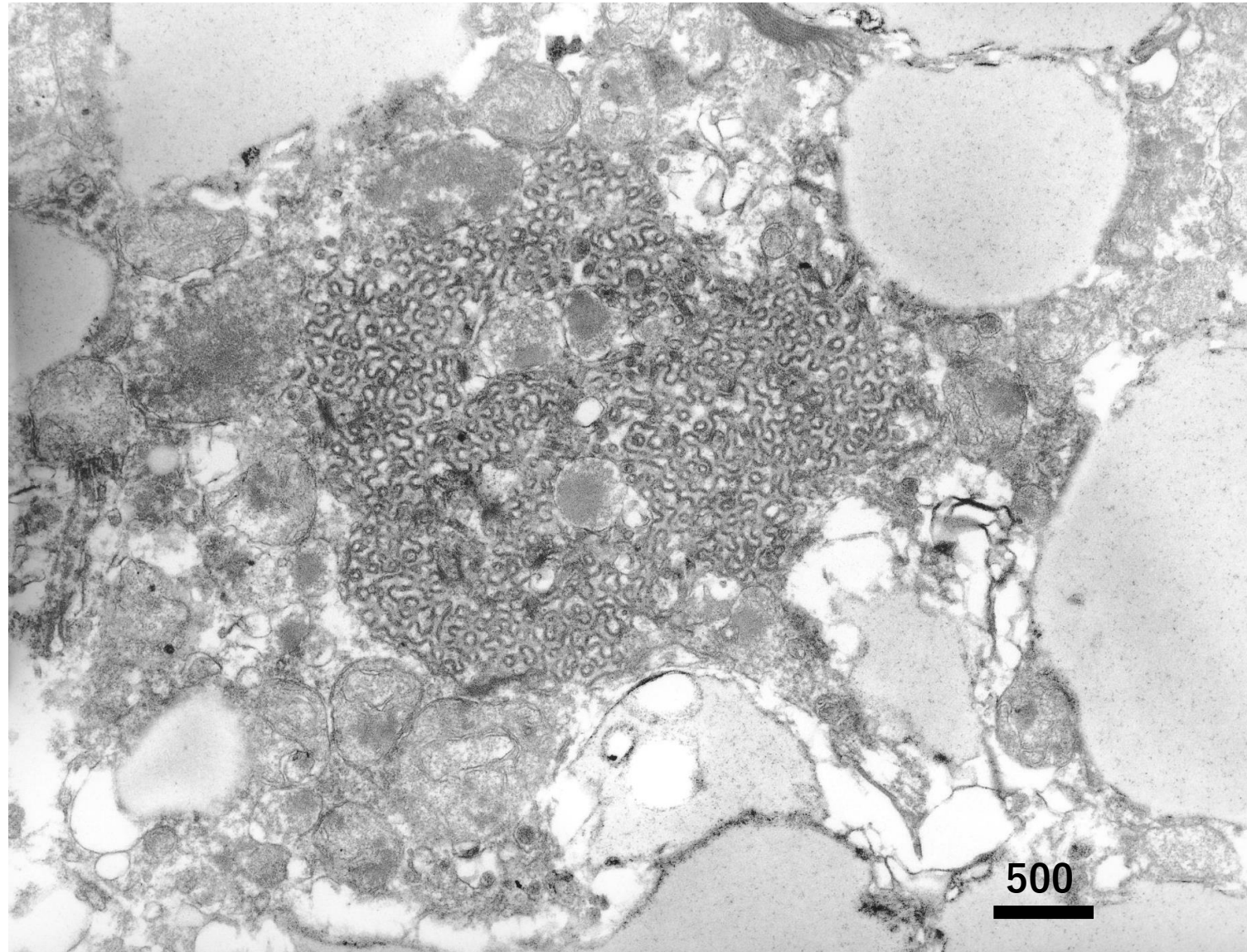
Ultrastructure of adenoviral fulminant hepatitis. Viral particles are clustered in the nuclei of the hepatocytes and in the cytoplasm. EM-2



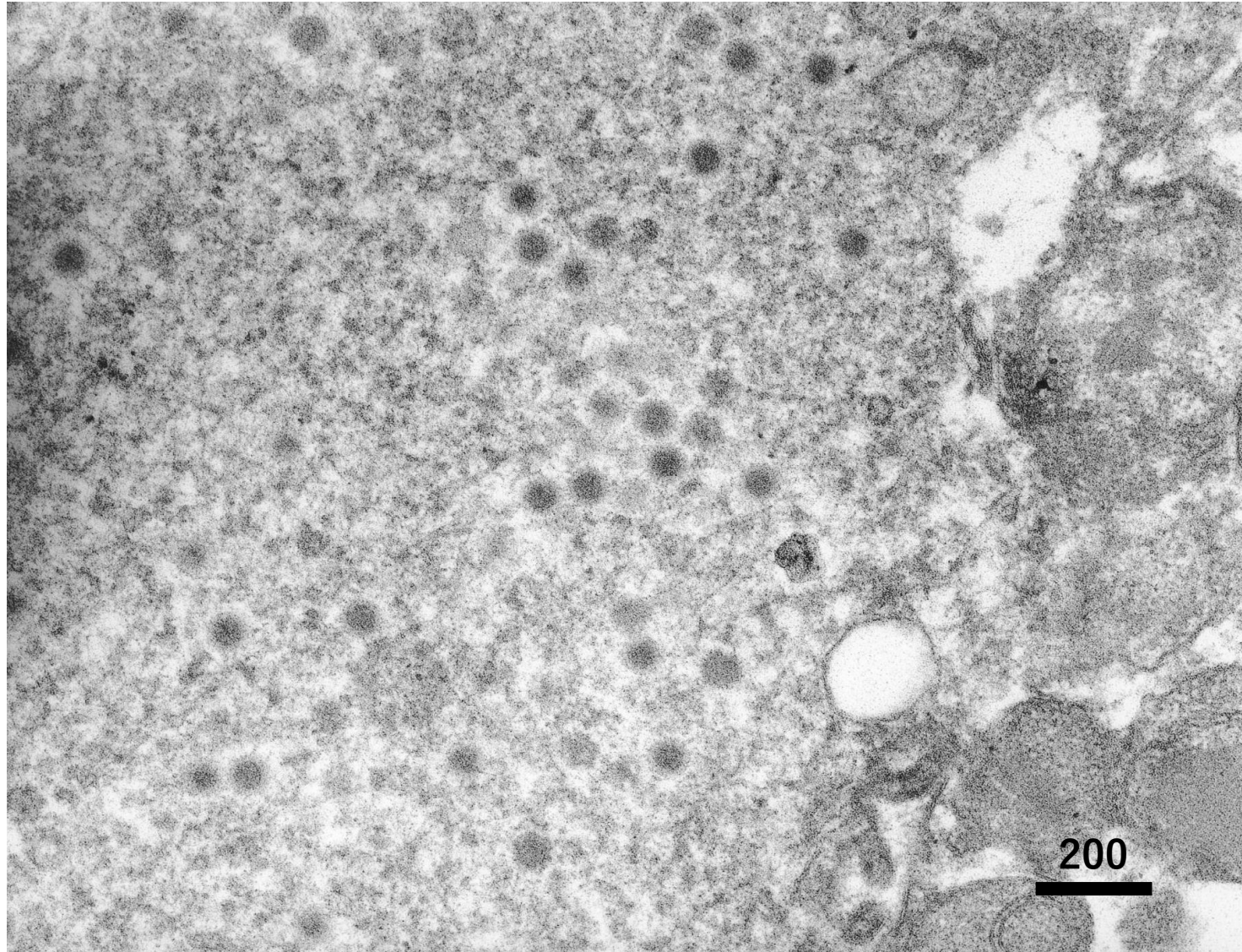
Ultrastructure of adenoviral fulminant hepatitis. Viral particles are regularly arranged in the nuclei of the hepatocyte. The enveloped viral particles measure around 70 nm in diameter. EM-3



Ultrastructure of adenoviral fulminant hepatitis. Viral particles are regularly arranged in the nuclei of the hepatocyte. The enveloped viral particles measure around 70 nm in diameter. EM-4



Ultrastructure of adenoviral fulminant hepatitis. Developing viral particles are clustered in the cytoplasm. EM-5



Ultrastructure of adenoviral fulminant hepatitis. Developing and mature viral particles are scattered in the cytoplasm. EM-6