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Sample Preparation System



## UNLOCK THE POWER OF LEAN

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# An unexpected finding during microscopy for urinary hemosiderin

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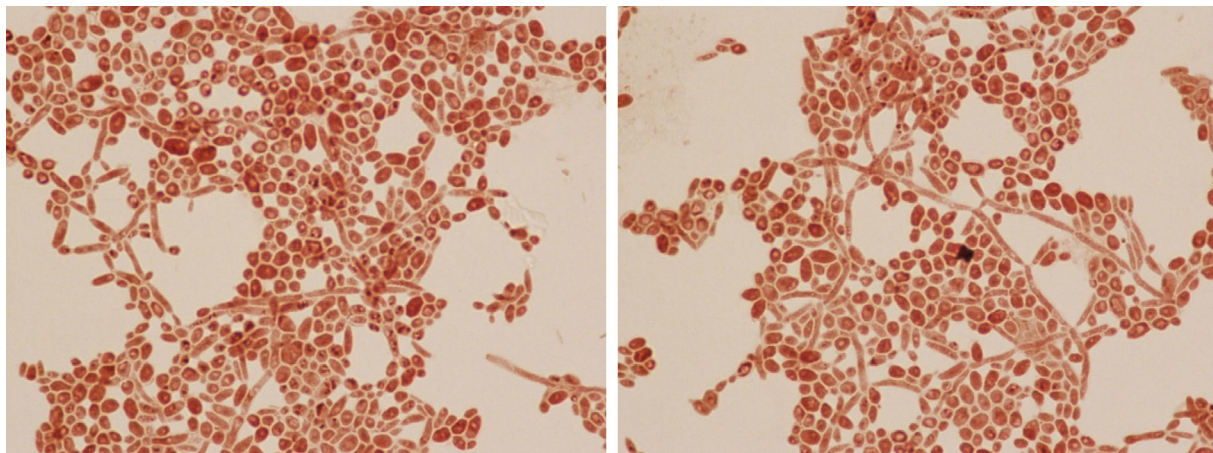
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A 59-year-old woman was admitted to intensive care after suffering a community cardiac arrest with ventricular fibrillation and 12 min downtime. She had a background of poorly controlled type 1 diabetes and severe chronic bilateral leg ulcers. A blood count showed hemoglobin concentration 85 g/L, mean cell volume 85.8 fL, red cell distribution width (RDW) 18.3% (normal range 10%–16%), and reticulocytes  $117 \times 10^9/L$ ; the platelet count and total and differential white cell counts were normal. A blood film showed anisopoikilocytosis, with elliptocytes, polychromasia, vacuolation of neutrophils, and reactive lymphocytes. A direct antiglobulin test was positive (2+) for immunoglobulin G. Lactate dehydrogenase was mildly increased, but bilirubin was normal. C-reactive protein was greatly increased at 197 mg/L. Microbiological cultures from the ulcers identified

*Staphylococcus aureus* and *Citrobacter koseri*. These organisms were thought to have caused overwhelming sepsis leading to cardiac arrest.

A Perls stain for urinary hemosiderin was performed as part of investigation for suspected hemolysis. Unexpectedly, microscopy identified a partly filamentous microorganism with some budding yeast forms, which had been stained with the counterstain (images,  $\times 100$  objective). The presence of fungi was reported to clinical staff for further investigation and treatment.

Laboratories performing microscopy on blood, bone marrow, or urine should be alert to unexpected findings that may alter clinical management. Often this is the unanticipated presence of a microorganism—a bacterium, a fungus, or a parasite.

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**CONFLICT OF INTEREST**

The authors declare no conflict of interest.

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