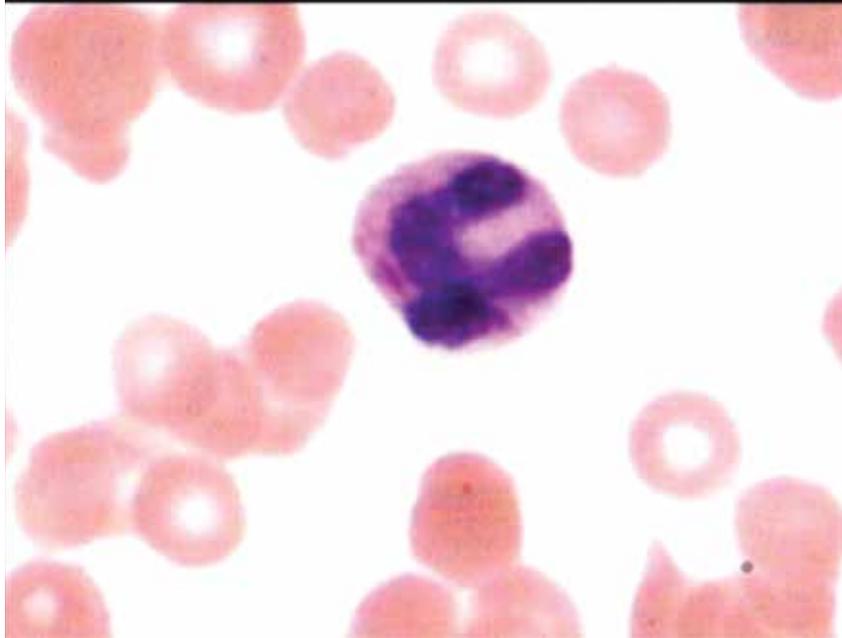


## Auer Rod in a Neutrophil in a Nonmalignant Condition

### Malign Olmayan Bir Durumda Nötrofilde Görülen Auer Cisimciği

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**Figure 1.** Neutrophil shows an Auer rod at 100 $\times$  (Jenner-Giemsa stain), 270 $\times$ 203 mm (72 $\times$ 72 dpi).

Auer rods are normally observed in immature myeloid precursors including myeloblasts and promyelocytes in cases of acute myeloid leukemia, while cases have rarely reported Auer rods in polymorphs in acute myeloid leukemia [1,2].

A 19-year-old female presented with high-grade fever and abdominal pain for 1 week. Her laboratory investigations revealed hemoglobin of 65 g/L, red blood cell count of  $3.3 \times 10^{12}/L$ , mean cell volume of 96.2 fL, white blood cell count of  $8.5 \times 10^9/L$ , and platelet count of  $23 \times 10^9/L$ . She was found to be positive for *Salmonella* Typhi antigen O in 1:160 dilutions (slide agglutination by Beacon Diagnostics, India). An interesting finding was observed during her peripheral blood examination, which showed an Auer rod-like structure within

the cytoplasm of a neutrophil, along with features of dysmyelopoiesis (Figure 1). Bone marrow aspiration was done, which was unremarkable and showed normoblastic maturation.

To the best of our knowledge, no case has been reported in the literature with Auer rods in a nonmalignant condition. Therefore, the present case is being reported, which shows an Auer rod in a polymorph in a case of typhoid fever.

**Keywords:** Auer rods, Neutrophil, Typhoid fever

**Anahtar Sözcükler:** Auer cisimciği, Nötrofil, Tifo

#### Ethics

Informed Consent: It was taken.

#### Authorship Contributions

Concept: Harish Chandra, Smita Chandra; Design: Harish Chandra, Smita Chandra; Data Collection or Processing: Vibha Gupta, Divyaa Mahajan; Analysis or Interpretation: Harish Chandra, Smita Chandra, Vibha Gupta; Literature Search: Harish Chandra, Smita Chandra, Vibha Gupta, Divyaa Mahajan; Writing: Harish Chandra, Smita Chandra.

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