

## Auer Rods

Auer rods are azurophilic granular needles consisting of the enzyme myeloperoxidase. They are seen in leukemic blast cells and are virtually diagnostic of AML.



PLAY PICMONIC

### Azurophilic granular needles in leukemic blasts

[Purple Arizona with Grain Needles in Leukemia-Luke's Blasting-cell](#)

Auer rods stain purple and are present in leukemic blast cells.

### Disseminated Intravascular Coagulation (DIC)

[Dice](#)

Release of Auer rods can cause DIC (disseminate intravascular coagulation), a pathological activation of coagulation mechanisms.

### Acute Myelogenous Leukemia (AML)

[American Monkey Legion \(AML\)](#)

Auer rods are seen in AML and their presence is virtually diagnostic of AML.

### All-trans Retinoic Acid (Vitamin A)

[All-train with red-tins of Acidic-lemons \(Viking-Apple\)](#)

This is used in the treatment of AML and allows leukemic blasts to mature and differentiate further.