



# ASH Image Bank™

## Pernicious Anemia

**Authors:** Stanley Schrier

**Category:** <strong>Red Cell:</strong> Other Disorders > Megaloblastic Anemia

**Number of Units:** 4

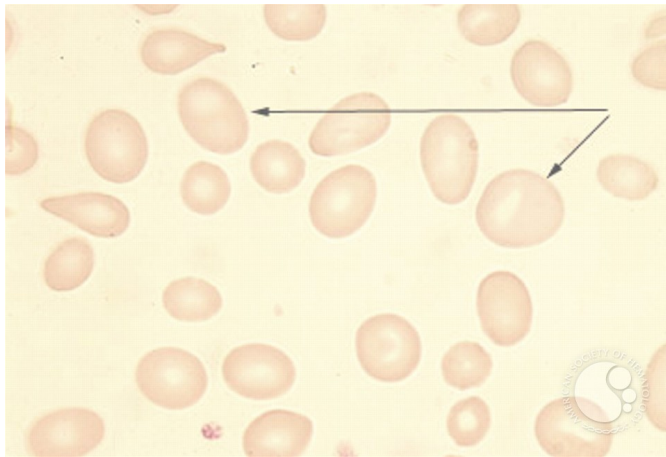
## Pernicious Anemia - 1A

**Image ID:** 1544

**Authors:** Stanley Schrier

**Category:** <strong>Red Cell:</strong> Other Disorders > Megaloblastic Anemia

**Description:** Note the macro-ovalocytes characteristic of vitamin B12 or folate deficiency states.



Copyright © 2026 American Society of Hematology. Copyright restrictions may apply.

## Pernicious Anemia - 1B





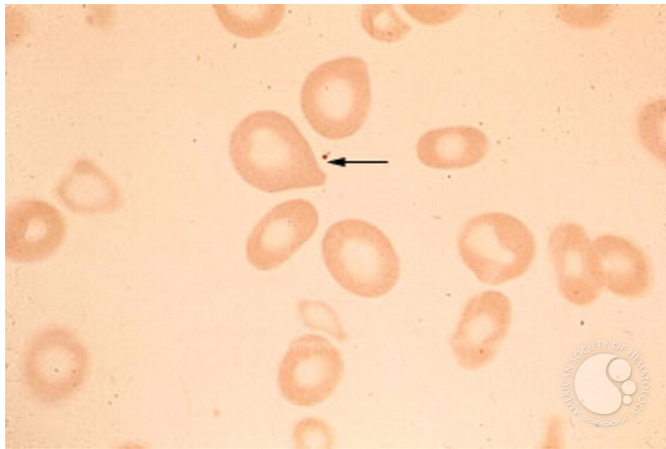
# ASH Image Bank™

**Image ID:** 1545

**Authors:** Stanley Schrier

**Category:** <strong>Red Cell:</strong> Other Disorders > Megaloblastic Anemia

**Description:** Note the macro-ovalocytes characteristic of vitamin B12 or folate deficiency states.



Copyright © 2026 American Society of Hematology. Copyright restrictions may apply.

## Pernicious Anemia - 2.

**Image ID:** 1546

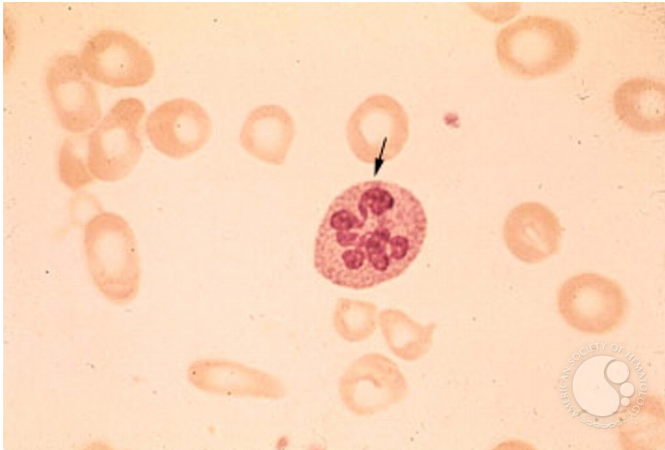
**Authors:** Stanley Schrier

**Category:** <strong>Red Cell:</strong> Other Disorders > Megaloblastic Anemia

**Description:** Note the hypersegmented neutrophil (7-8 lobes).



# ASH Image Bank™



Copyright © 2026 American Society of Hematology. Copyright restrictions may apply.

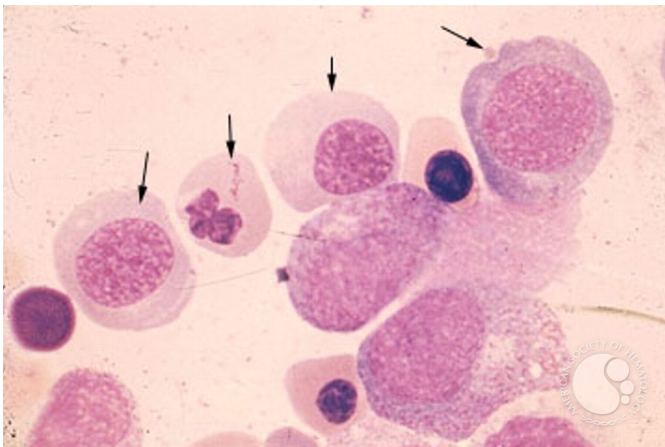
## Pernicious Anemia - 3.

Image ID: 1547

Authors: Stanley Schrier

Category: <strong>Red Cell:</strong> Other Disorders > Megaloblastic Anemia

**Description:** Bone Marrow Aspirate showing megaloblastic erythropoiesis with very fine nuclear chromatin and asynchrony of development of nucleus (immature) and cytoplasm (more mature).



Copyright © 2026 American Society of Hematology. Copyright restrictions may apply.

