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Cover image: This is an award-winning image from the 2003 American College of Rheumatology slide contest. This Papanicolaou stain of cerebrospinal fluid shows a single macrophage with 5 ingested leukocytes. The patient, an 8-year-old child with systemic-onset juvenile idiopathic arthritis, presented with confusion, high fever, and hematemesis. Laboratory studies showed a marked anemia, thrombocytopenia, coagulopathy, a markedly elevated ferritin level, and elevated transaminase levels. The diagnosis of macrophage activation syndrome (MAS) was confirmed by the presence of active macrophage ingestion of hematopoietic cells in the bone marrow and cerebrospinal fluid. MAS may complicate systemic-onset juvenile idiopathic arthritis and other childhood systemic inflammatory disorders. The etiology of this syndrome may be related to excessive activation and proliferation of T-lymphocytes and macrophages.

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