

Pathogenesis of acute gouty arthritis Deposition of UA crystals in the joint cavity is the triggering cause of gout. Interestingly, it is thought that may even end the inflammatory phase by engulfing the crystals and the inflammatory debris This involves the triggering of G protein, phospholipase A2, C and D, tyrosine kinase and other kinases such as mitogen-activated kinases (ERK1/ERK2, p38) and c-Jun N-terminal kinase. While less-differentiated monocytes produce abundant amounts of TNF, IL-1, IL-6 and IL-8 along with endothelial activation following phagocytosis of urate crystals. The pathogenesis of gouty arthritis involves initial activation of monocytes and mast cells followed by neutrophils.