Mustard Gas Keratitis
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Mustard Gas is a vesicant inducing agent which was first used in 1917, by the Germans in first world war.

The clinical course follows a particular path, after exposure to the gas there is an incubation period, followed by irreversible cellular damage of the cornea and conjunctival cells causing severe inflammatory response which gradually subsides in about one to two months and is followed by server permanent damage.

Mechanisms: it enters the nucleus of the cell inducing hyper-active compounds which react with the proteins and acids containing -SH (Sulfidrile) and amine (-NH₂) ultimately inhibiting synthesis of RNA, DNA, Proteins and causing chromosomal abnormality.

Treatment is symptomatic and in case of corneal melting high dose Systemic Steroids is beneficial.