

GAS immunology – pathophysiology, diagnosis, prognosis

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ARF Pathogenesis

GWAS

- IGVH4-61, Pacific
- HLA-DQA1, Aboriginal Australians

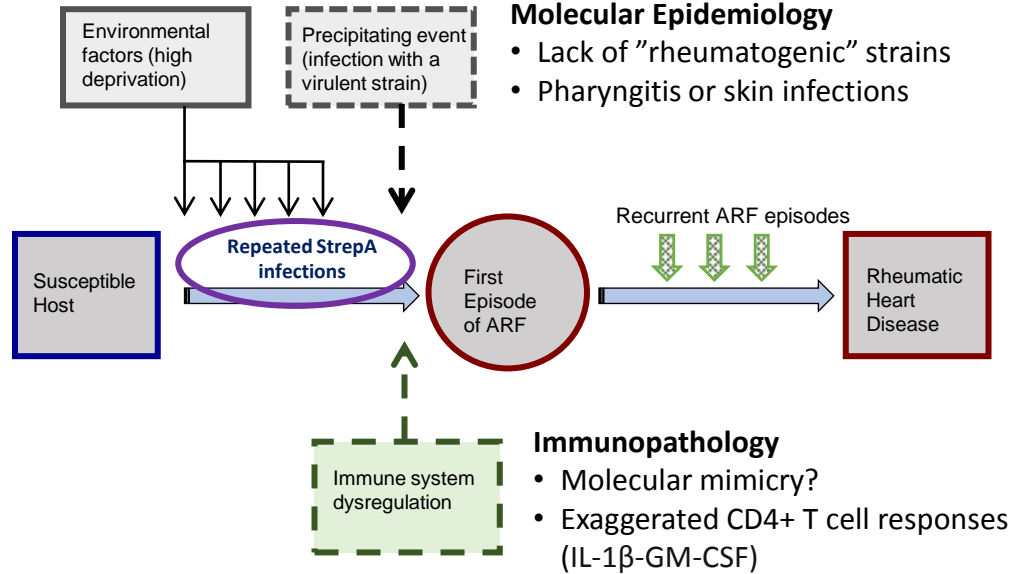


Figure adapted from Carapetis et al., Lancet, 2005

Parks et al., Nat Comms 2017; Gray et al., JID 2017

Williamson et al., JCM 2015; Williamson et al., BMC ID 2016

Kim et al., Circulation, 2018

Immune Priming Hypothesis



John Zabriskie, 1982.

- **1967**, Zabriskie observed a single case of recurrent ARF with 2 previous StrepA infections 8 years apart.
- Proposed that repeated exposures to StrepA required to “**prime**” the immune system for an autoimmune reaction.

Retrospective mapping of StrepA exposure

