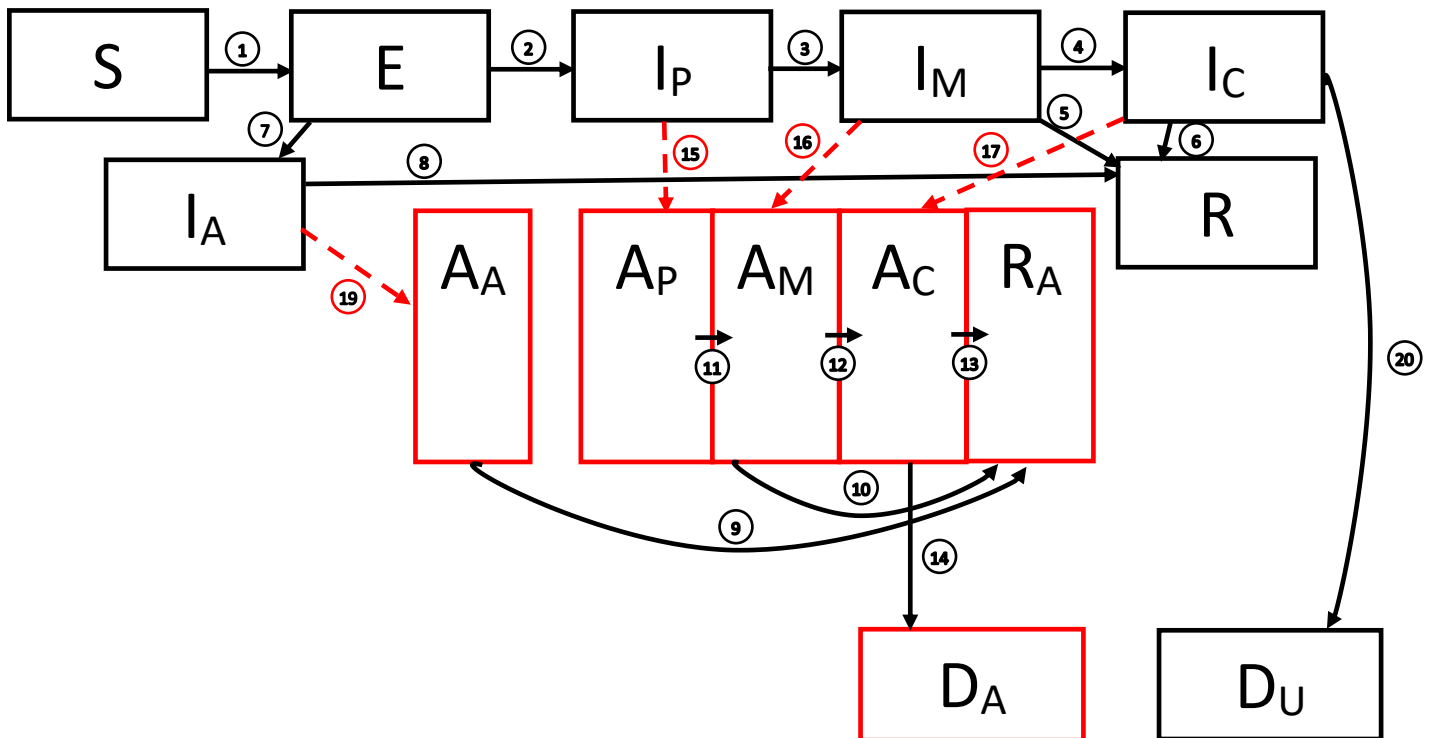


Model Compartments

S - Susceptible
 E - Exposed
 I_P - Infectious Pre-symptomatic
 I_A - Infectious Asymptomatic
 I_M - Infectious Mild
 I_C - Infectious severe/Critical
 A_P - Ascertained Infectious Pre-symptomatic
 A_A - Ascertained Infectious Asymptomatic
 A_M - Ascertained Infectious Mild
 A_C - Ascertained Infectious Severe/Critical
 R_A - Ascertained Recovered
 R_U - Un-ascertained Recovered



Model assumptions

- Some infections are completely asymptomatic.
- “Symptomatic” infections begin without symptoms (I_P), then progress to mild symptoms (I_M). Some infections progress to severe symptoms, while others recover*.
- Only severe/critical infections die from Covid.
- Recovery gives full and lasting immunity.

