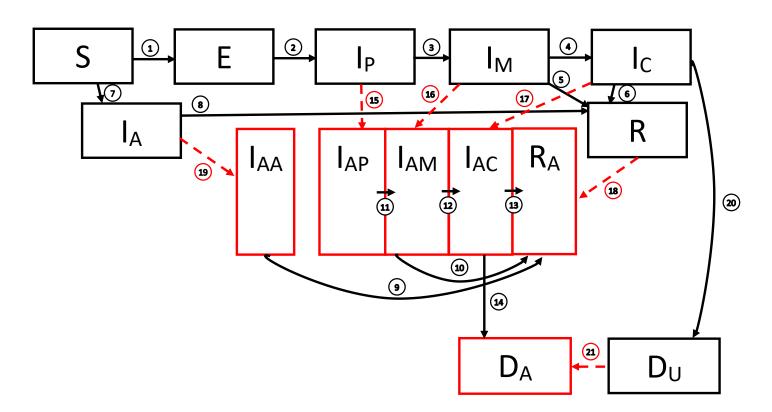
Model Compartments

- S Susceptible
- E-Exposed
- IP Infectious Pre-symptomatic
- I_A Infectious Asymptomatic
- IM Infectious Mild
- Ic Infectious severe/Critical
- IAP Ascertained Infectious Pre-symptomatic
- IAA Ascertained Infectious Asymptomatic
- I_{AM} Ascertained Infectious Mild
- IAC Ascertained Infectious Severe/Critical
- RA Ascertained Recovered
- Ru 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 with full and lasting immunity.