

## Age-specific parameters

eta - susceptibility  $\lambda^V$  - forces of infection

u - hospitalization rate

 $oldsymbol{r}$  - vaccination rate

## Constant parameters

1/lpha - latent period

 $1/\gamma$  - infectious period

 $VE_S$  - vaccine efficacy in reducing susceptibility

 $VE_{I}\,$  - vaccine efficacy in reducing infectivity (not shown)

 $VE_{H}$  - vaccine efficacy in preventing hospitalization/death