



breath



sneeze



cough



talk



surface
touch



face
touch



sanitize
hands



clean
surface



eat

Triggering contagion-related behaviours

The event timing of contagion-related behaviours can be handled using a *transition probability* (P_u) per *time step* (Δt).

$$p_u = \int_0^{\Delta t_s} \left(\frac{1}{\tau^\gamma} e^{-\frac{t}{\tau^\gamma}} \right) dt = \int_{\Delta t_s}^0 \left(e^{-\frac{t}{\tau^\gamma}} \right) dt = 1 - e^{-\frac{\Delta t_s}{\tau}}$$

τ : time interval
 p_u : transition probability

Δt_s : time step
 γ : behaviour state coefficient