\[ \frac{dp_a}{dt} = \epsilon p_a \]

\[ \frac{dp}{dt} = \epsilon (1 - p_a) \]

The diagram represents a compartmental model of disease transmission, where:

- **Susceptible**: Individuals who are susceptible to infection.
- **Latent**: Individuals who are infected but not yet symptomatic.
- **Asymptomatic Infectious**: Individuals who are infected and not symptomatic, but can transmit the disease.
- **Symptomatic Infectious**: Individuals who are infected and symptomatic, capable of transmitting the disease.
- **Recovered**: Individuals who have recovered from the infection and are no longer infectious.