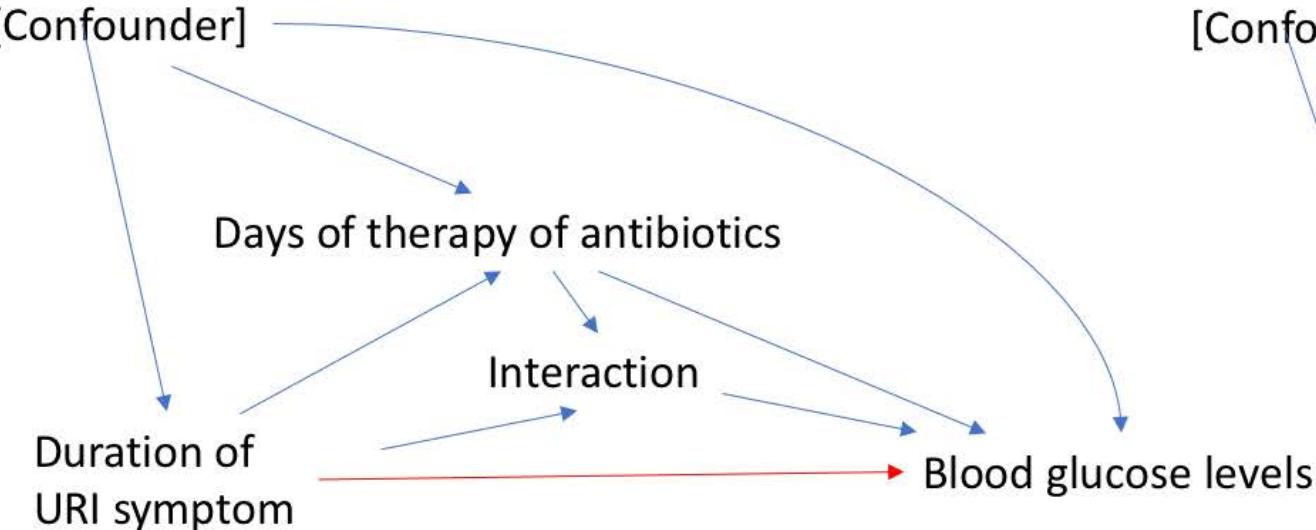
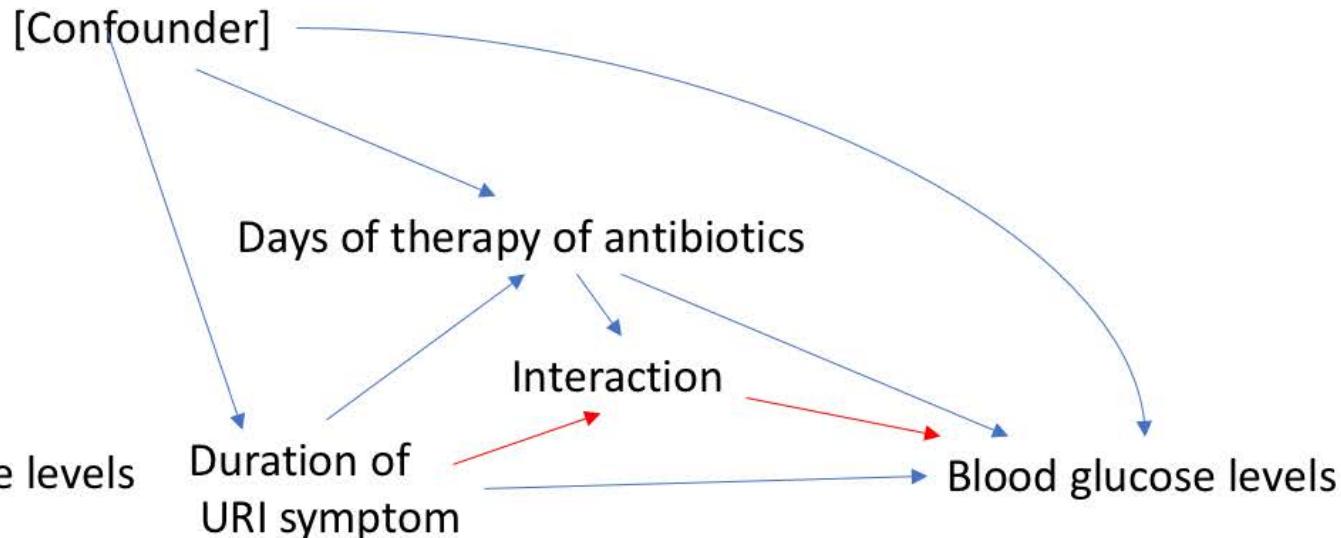


# Four-way decomposition in causal mediation

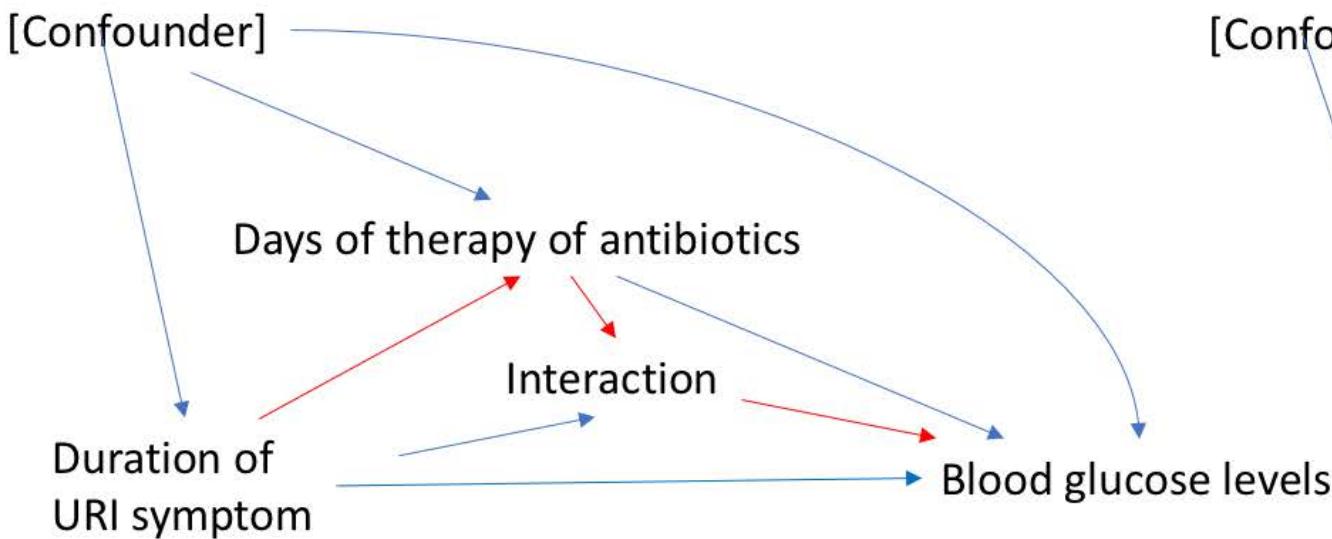
## 1. Controlled Direct Effect (CDE)



## 2. Reference Interaction Effect (RIE)



## 3. Mediated Interaction Effect (MIE)



## 4. Pure Indirect Effect (PIE)

