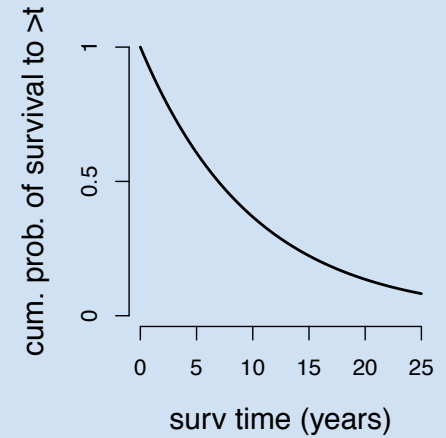
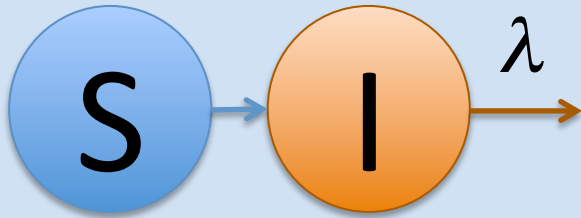


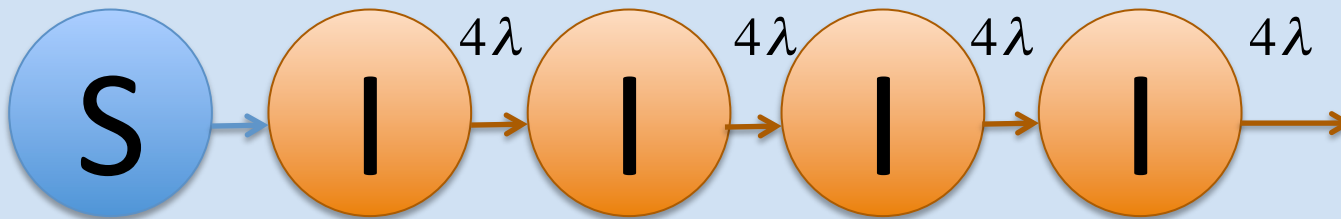
Justification of the Distributed Delay (Boxcar Model)

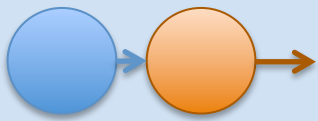
Exponential survival:



Gamma survival:

Average rate is the same, distribution is different!

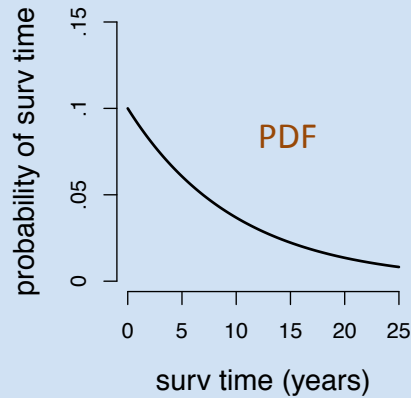




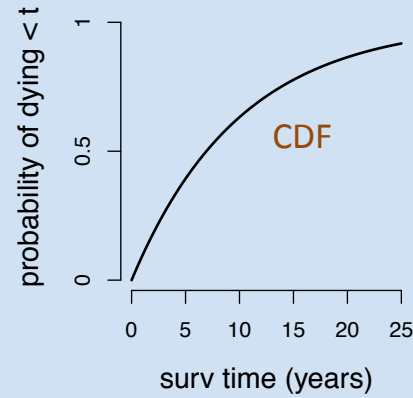
Exponential Survival Times



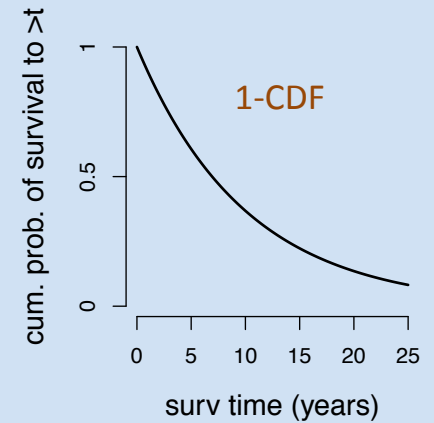
hazard of mortality:
deaths / (person*year)



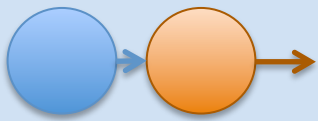
probability of
dying **AT** year t



probability of
dying **BY** year t



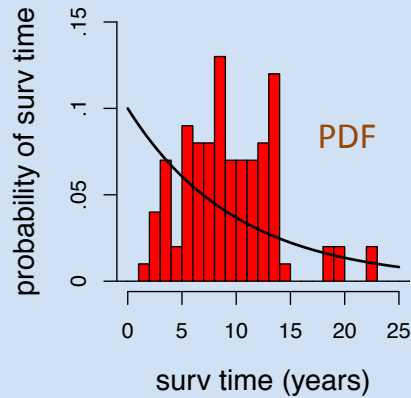
probability of
surviving **PAST** year t



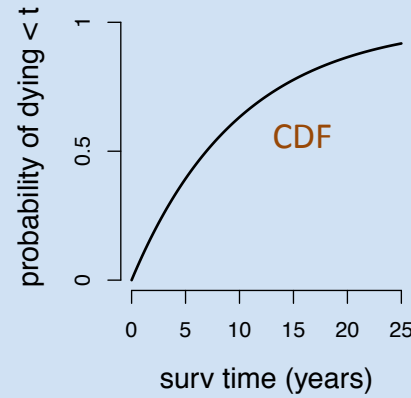
Exponential Survival Times



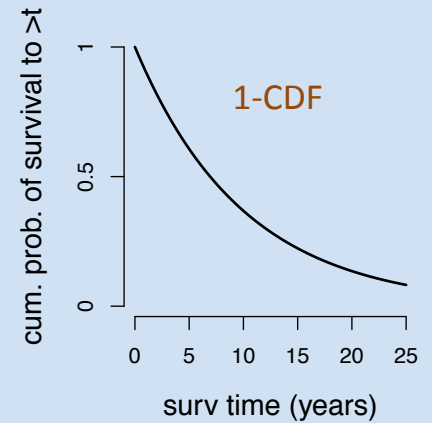
hazard of mortality:
deaths / (person*year)



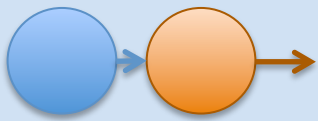
probability of
dying AT year t



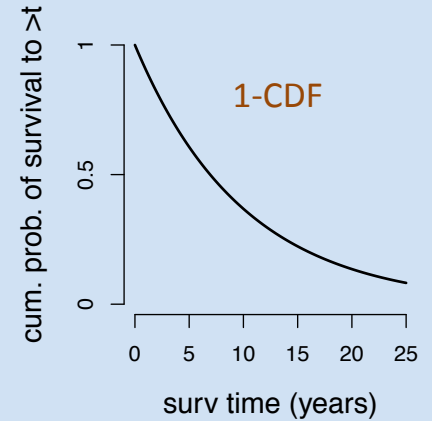
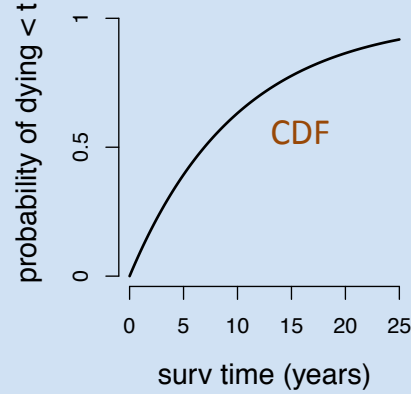
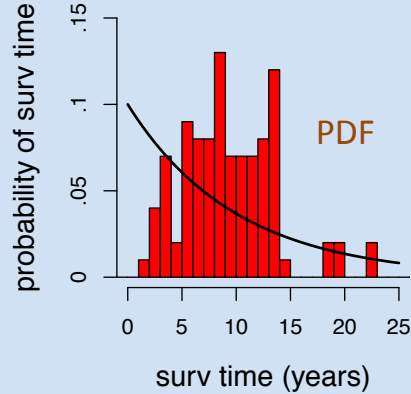
probability of
dying BY year t



probability of
surviving PAST year t



Exponential Survival Times



hazard of mortality:
deaths / (person*year)

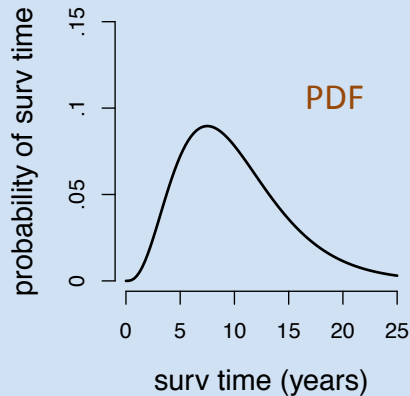
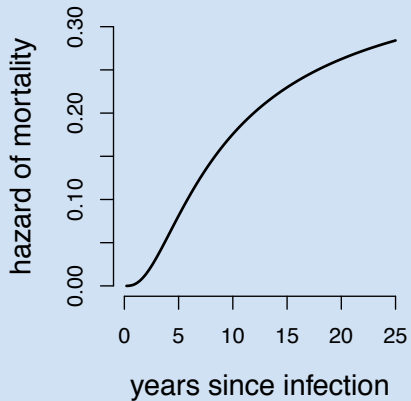
probability of dying
AT year t

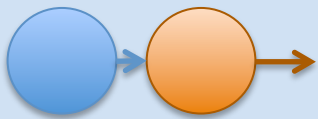
probability of dying
BY year t

probability of surviving
PAST year t



Gamma Survival Times

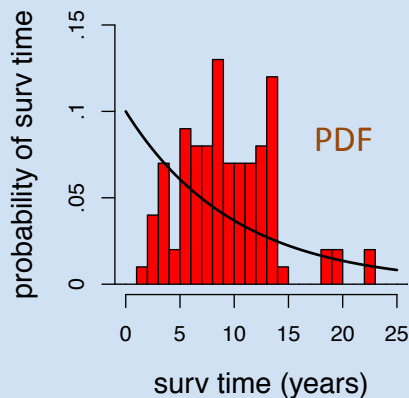




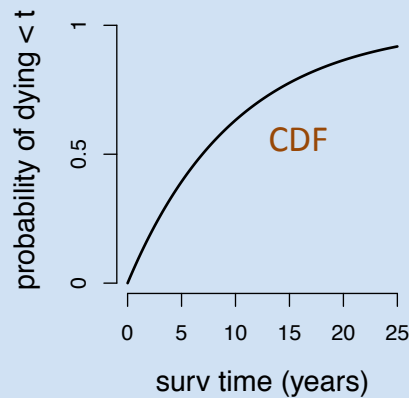
Exponential Survival Times



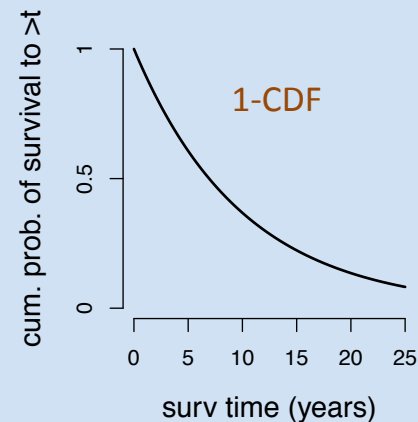
hazard of mortality:
deaths / (person*year)



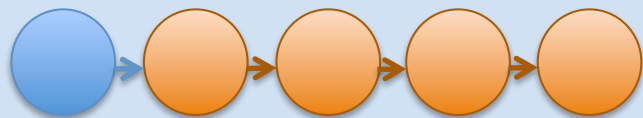
probability of dying
AT year t



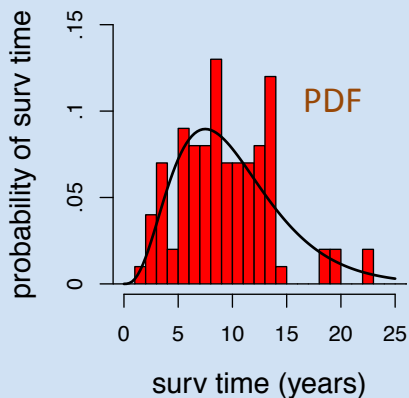
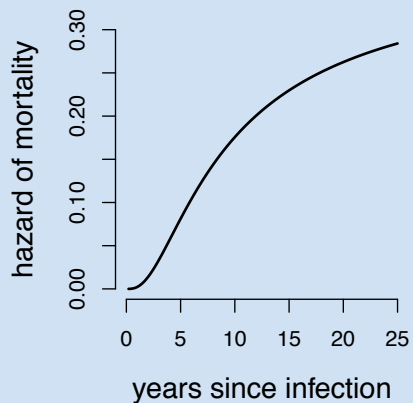
probability of dying
BY year t



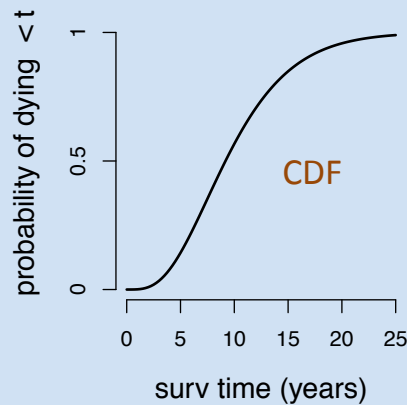
probability of
surviving PAST year t



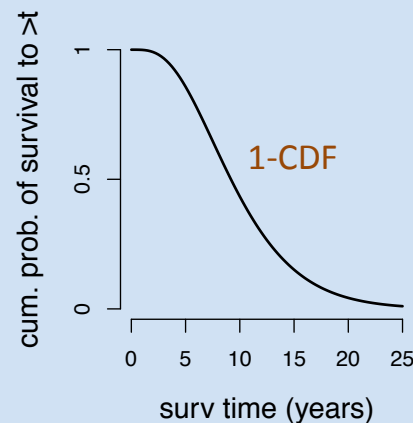
Gamma Survival Times



surv time (years)



surv time (years)



surv time (years)