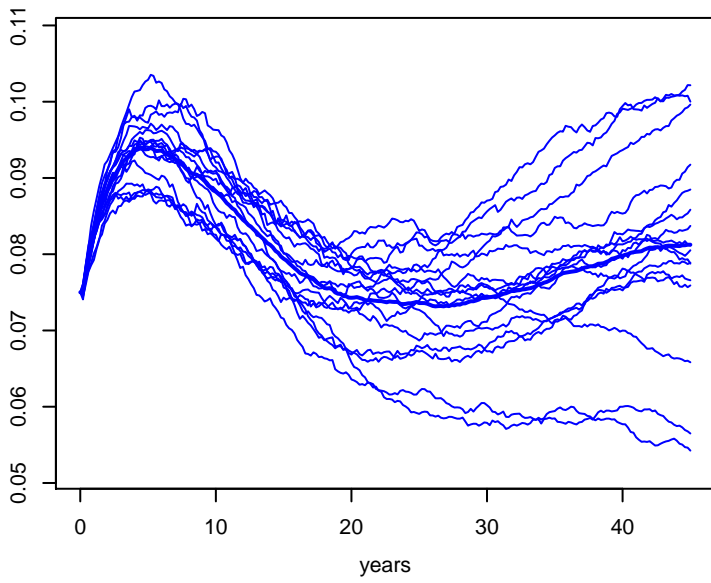
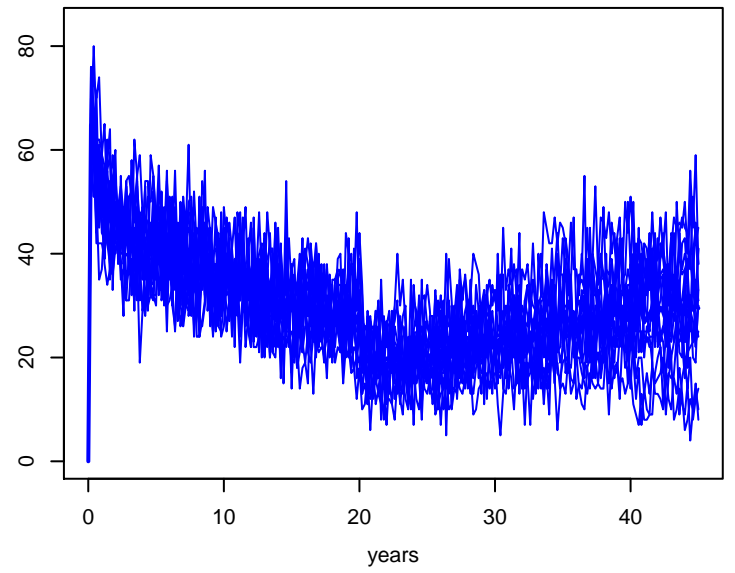


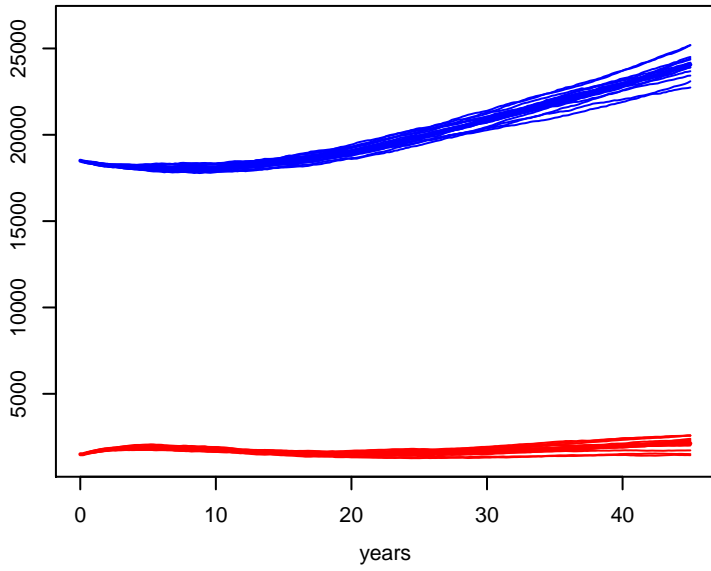
**prevalence**



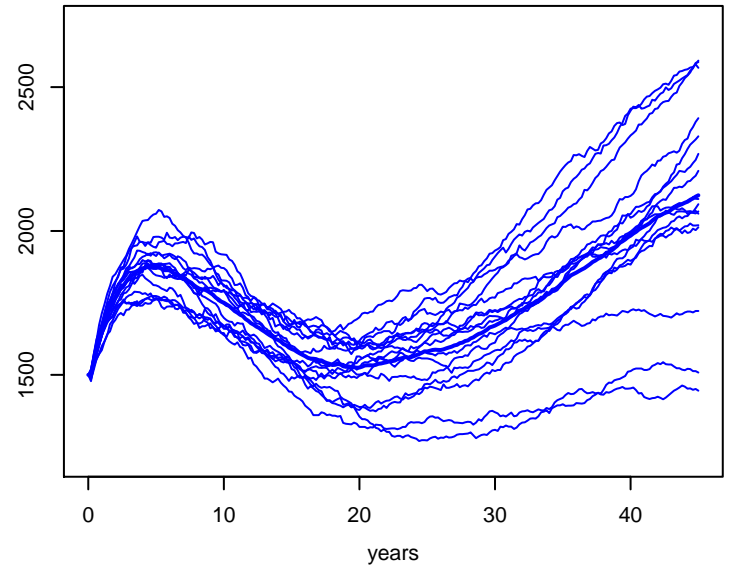
**new\_infections**



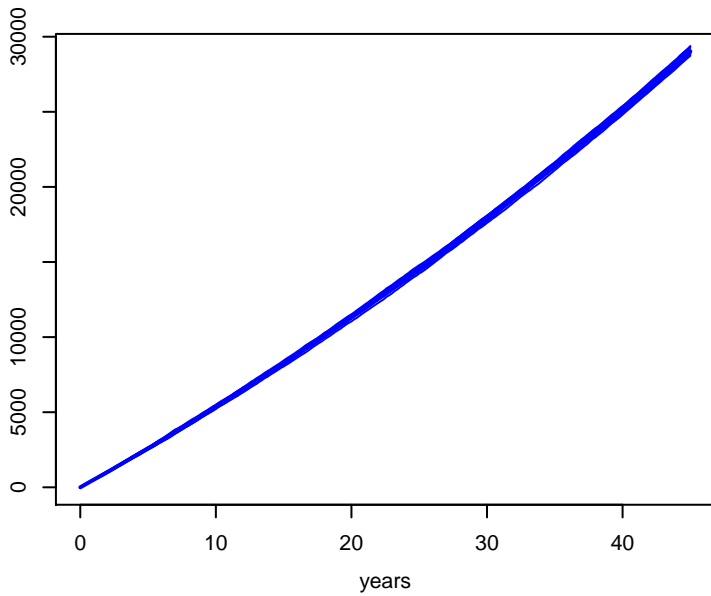
**susceptibles**  
**total\_infections\_alive**



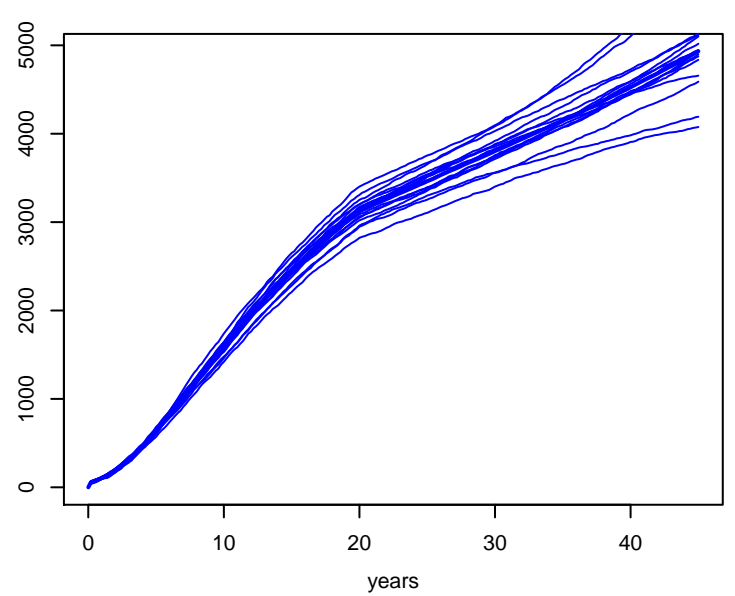
**total\_infections\_alive**



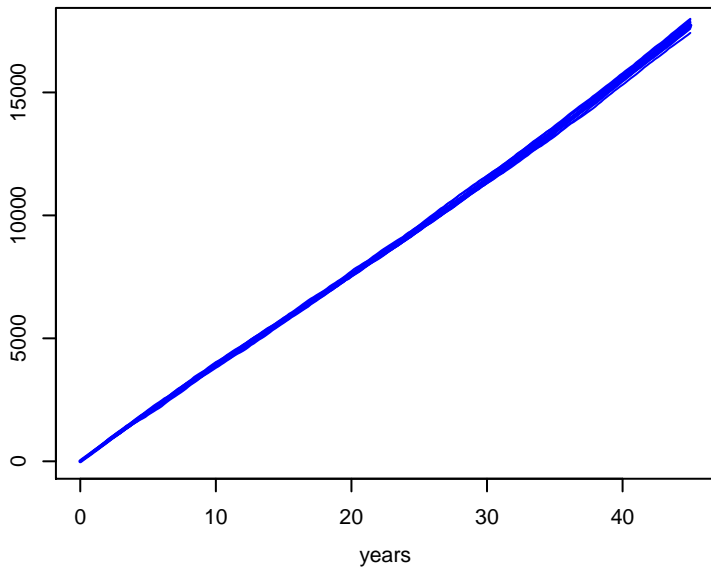
**births**



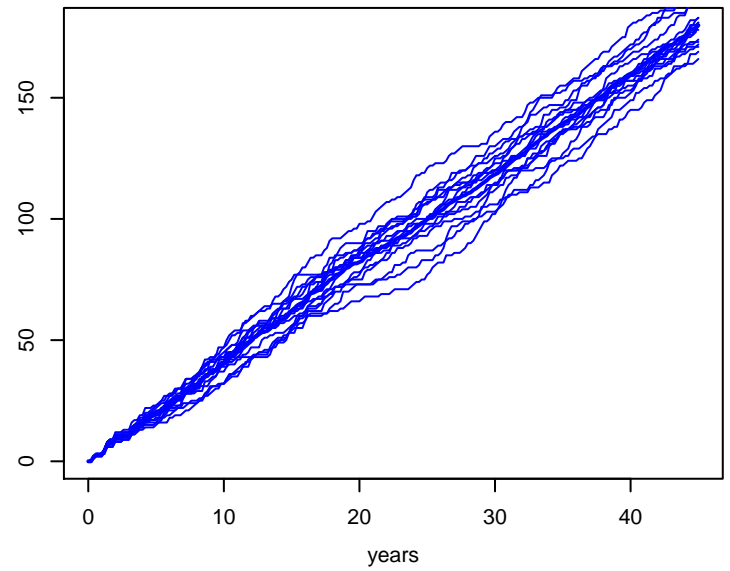
**aids\_deaths**



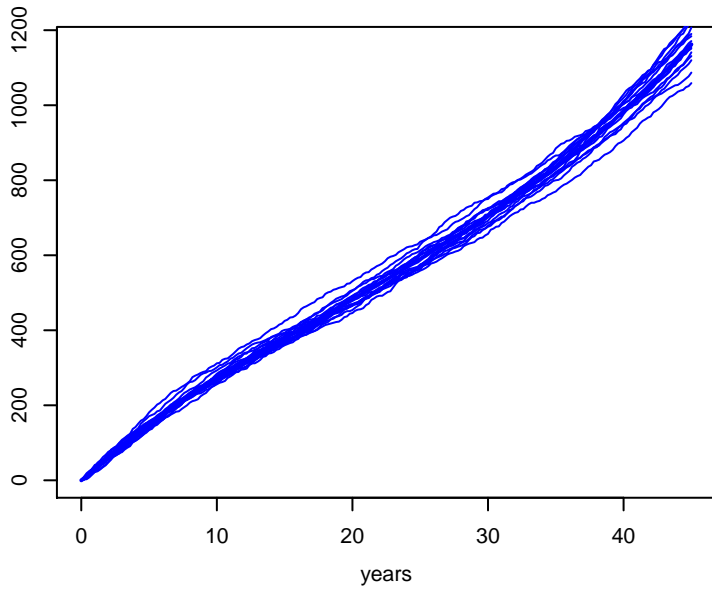
**natural\_deaths**



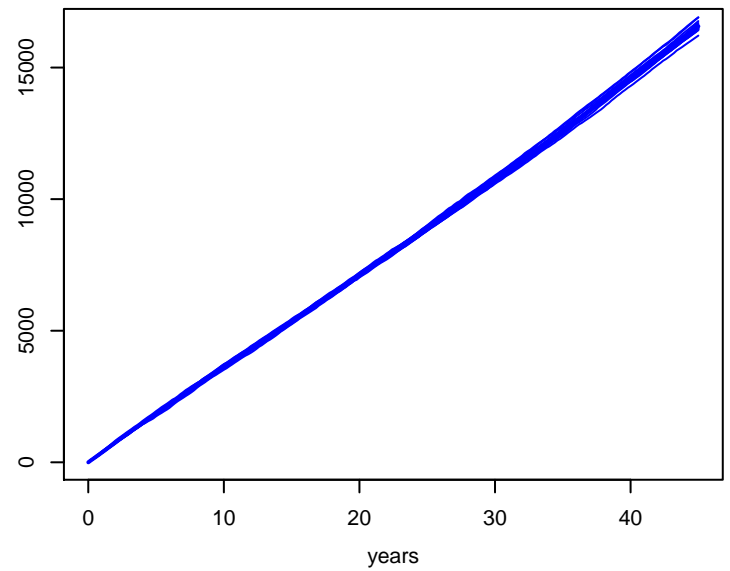
**aged\_out**



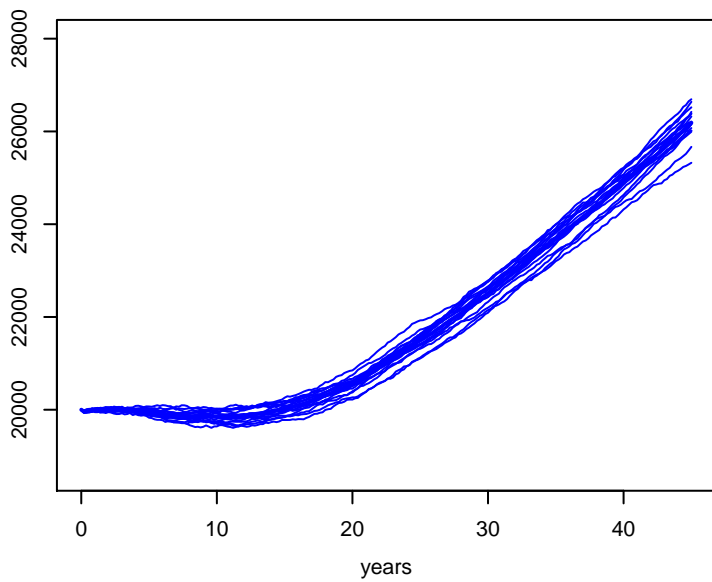
**natural\_deaths\_infecteds**



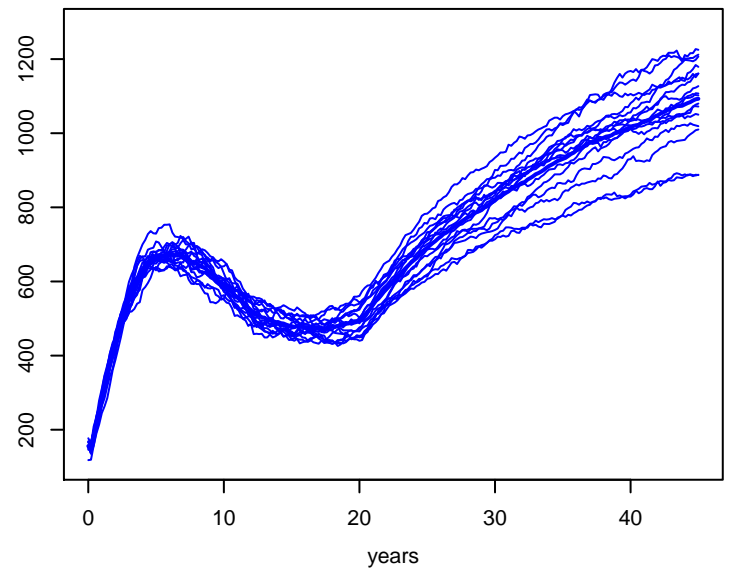
**natural\_deaths\_susceptibles**



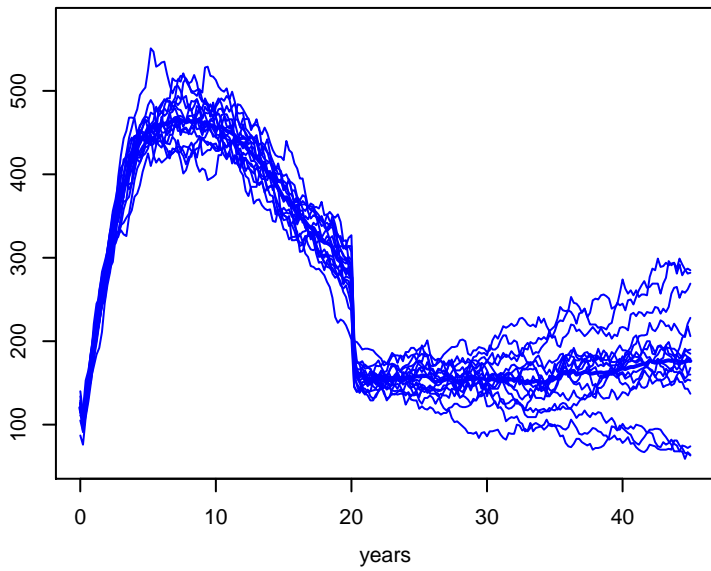
**alive**



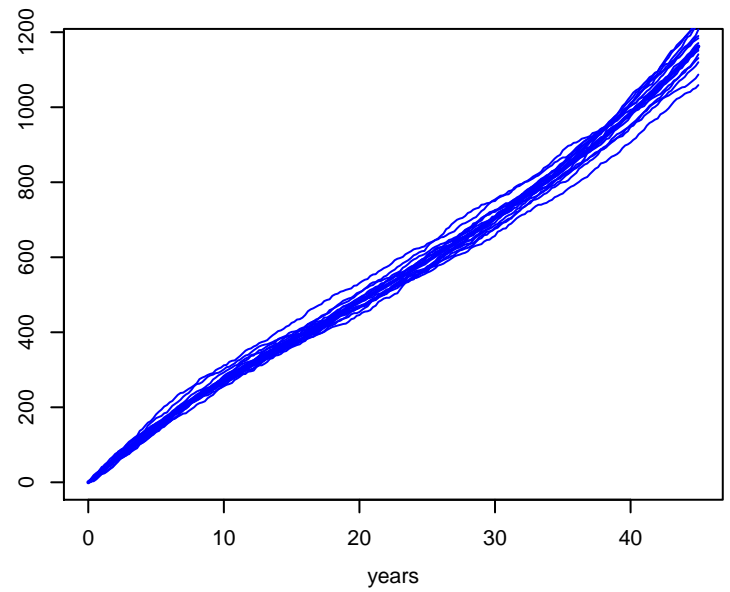
**no\_in\_aids\_gamma**



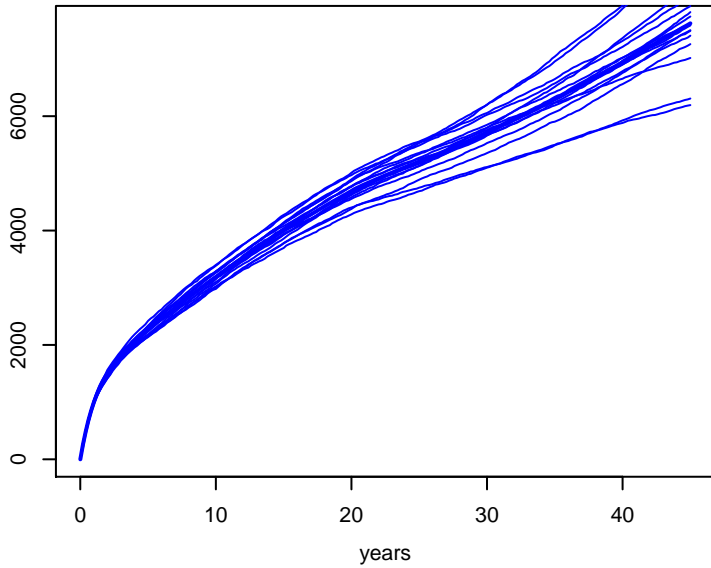
**no\_in\_aids\_cd4**



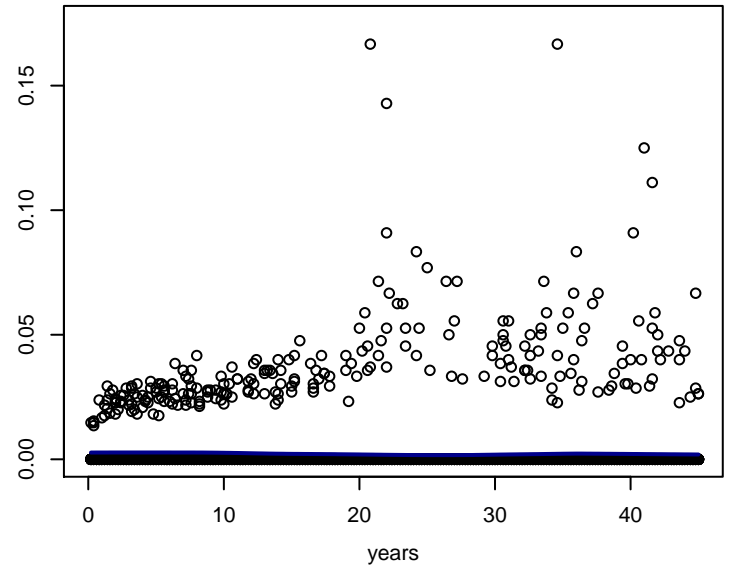
**natural\_deaths\_infecteds**



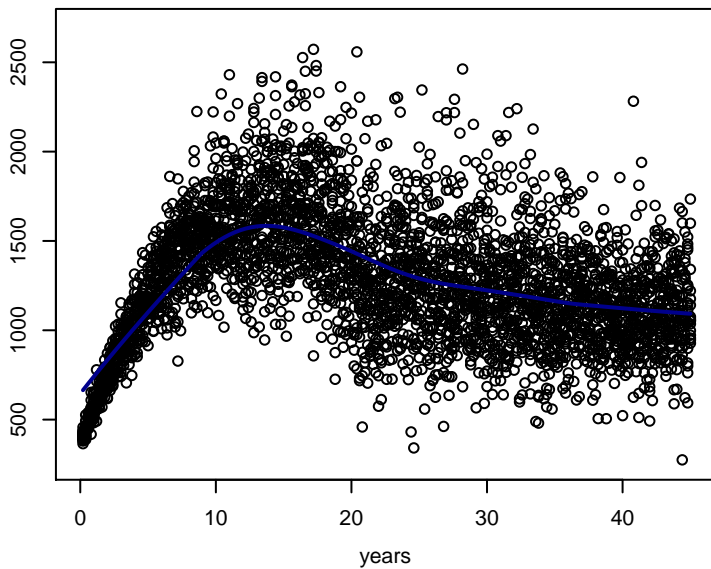
**new\_diagnoses**



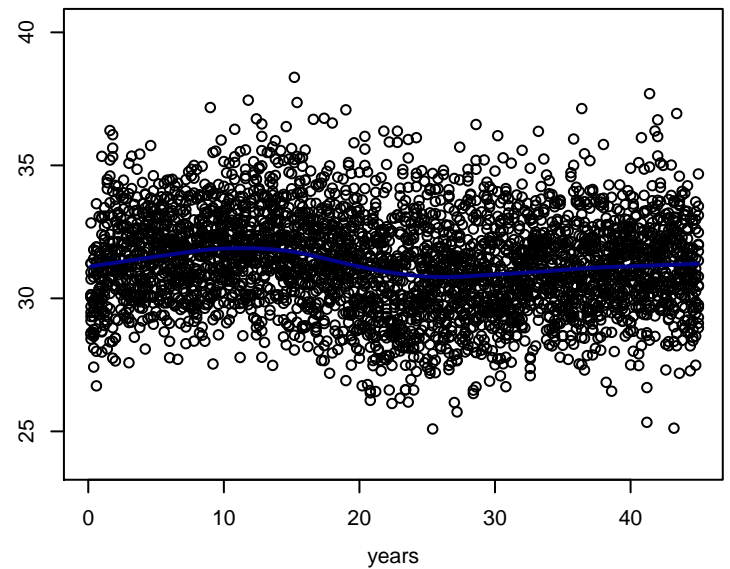
**percent\_donor\_acute**



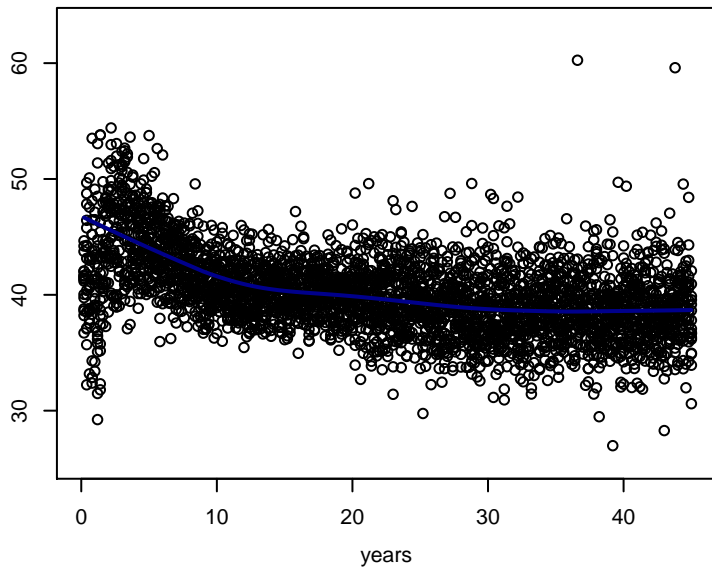
**mean\_time\_donor\_infected\_incident**



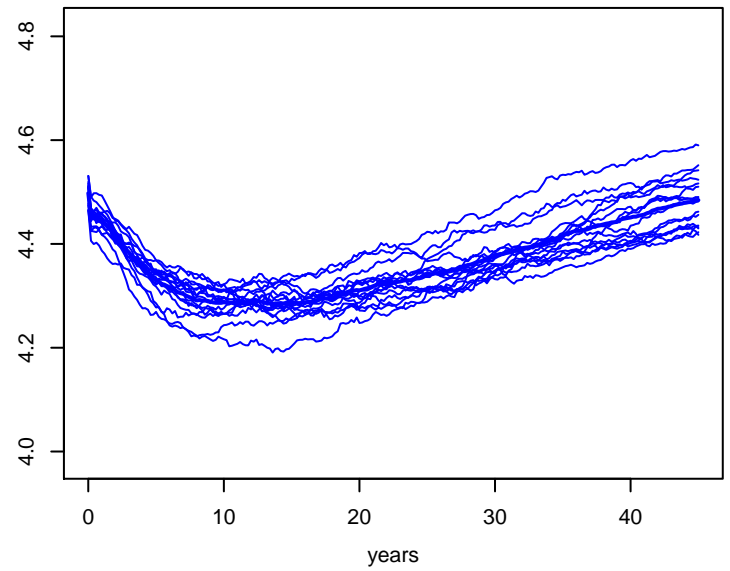
**mean\_age\_incident**



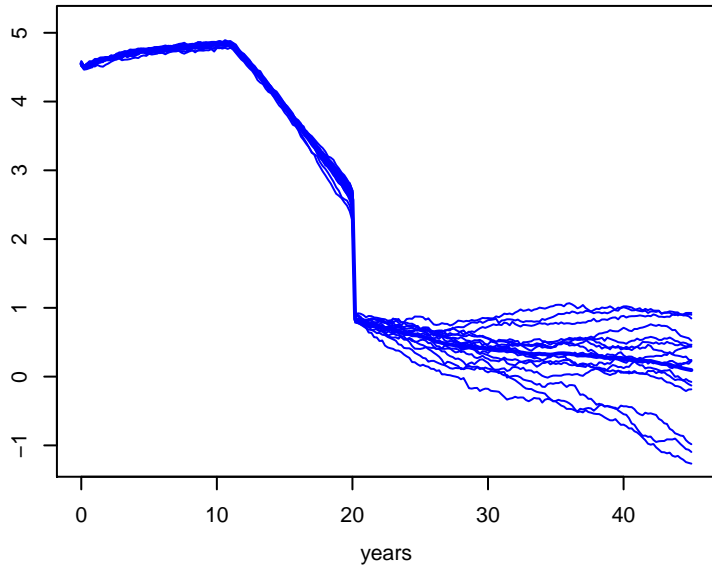
**mean\_age\_died\_AIDS**



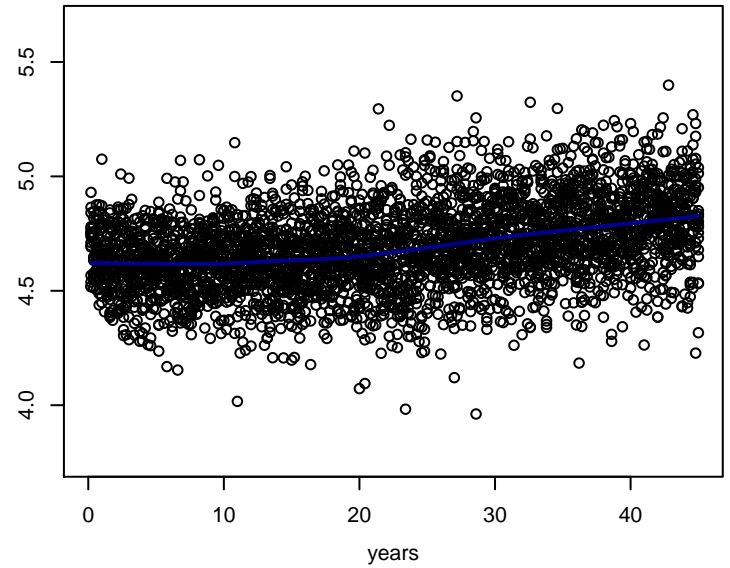
**mean\_spvl\_pop\_all**



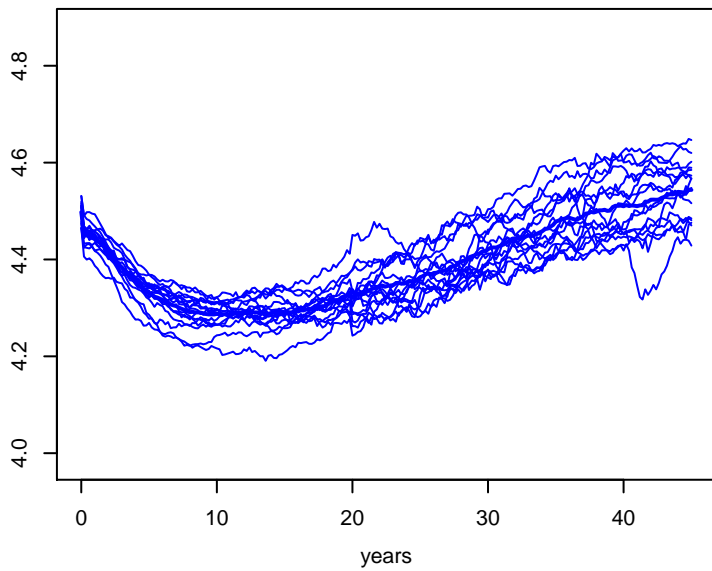
**mean\_vl\_pop\_all**



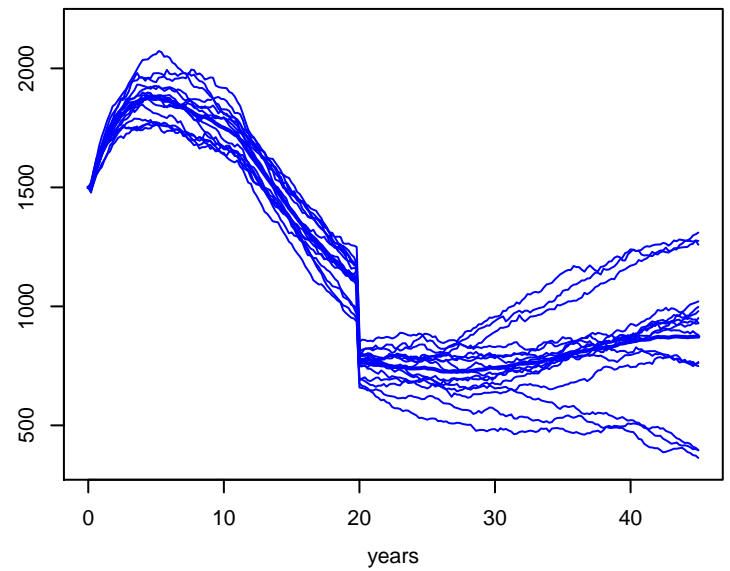
**mean\_spvl\_incident**



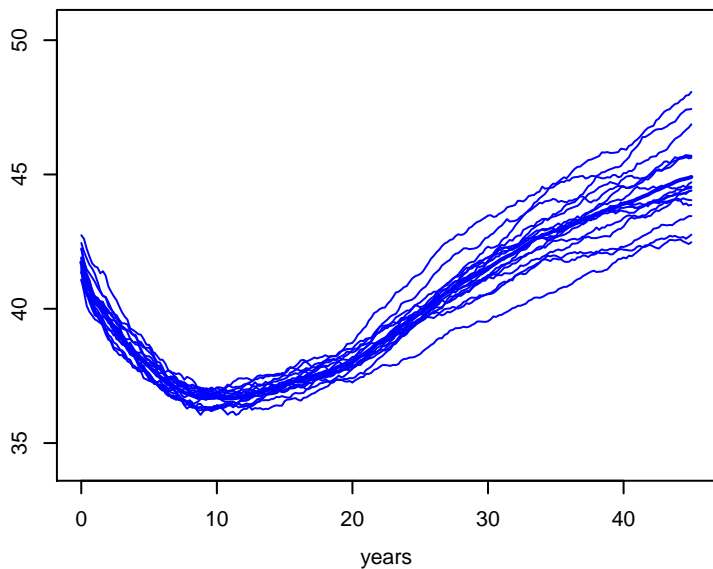
**mean\_spvl\_pop\_untreated**



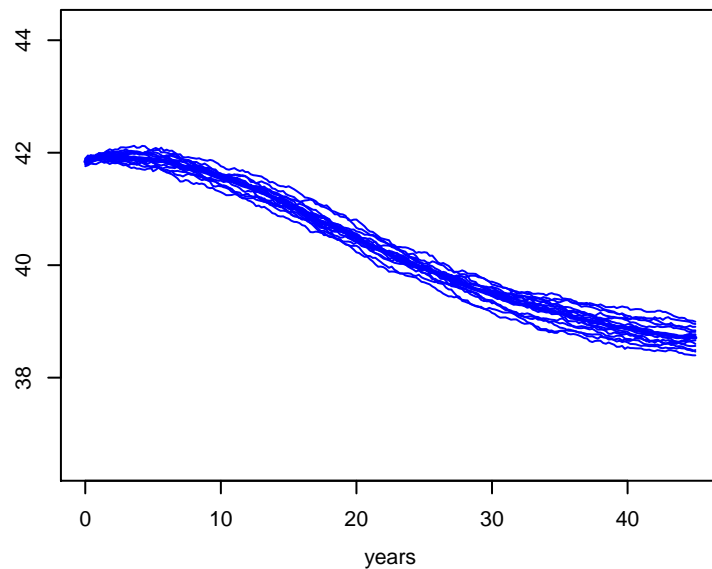
**total\_infections\_not\_treated**



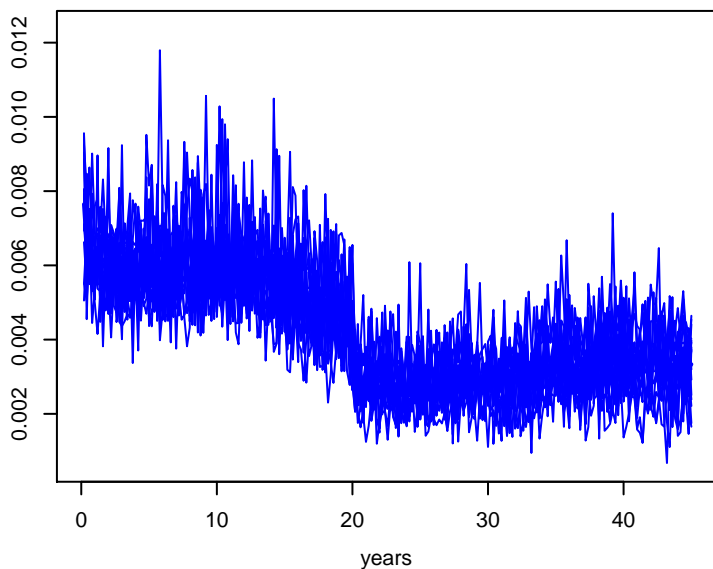
**mean\_age\_infecteds**



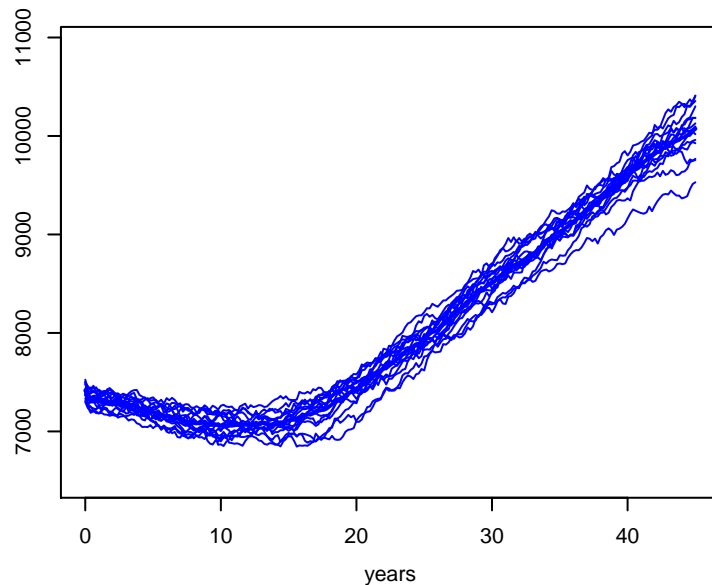
**mean\_age\_susceptibles**



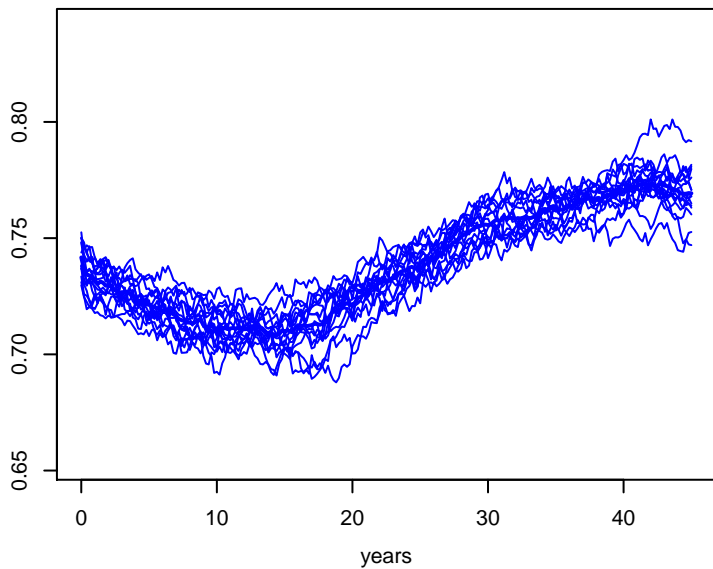
**mean\_trans\_prob**



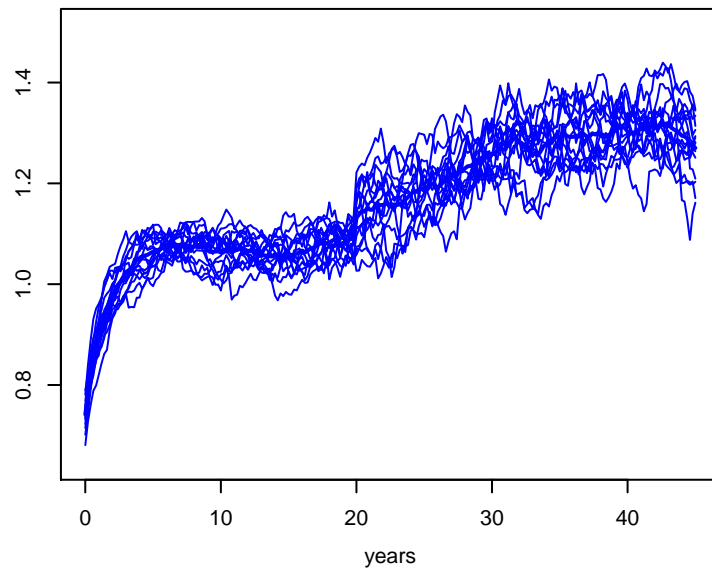
**no\_edges**



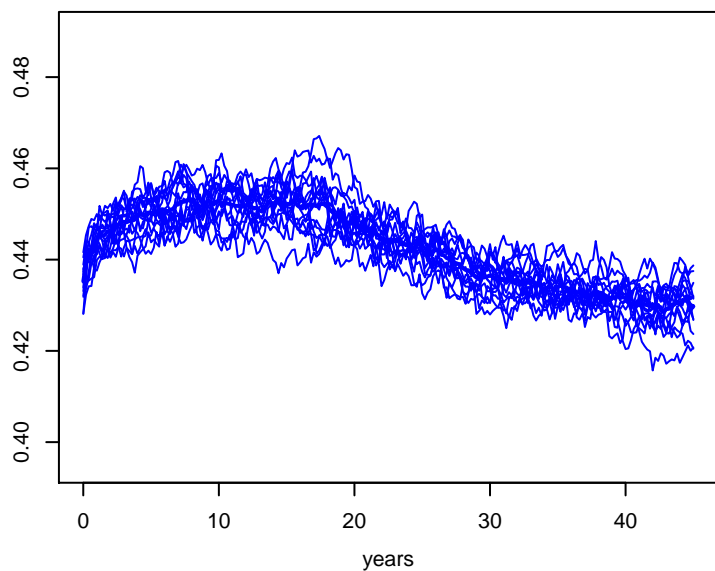
**mean\_degree**



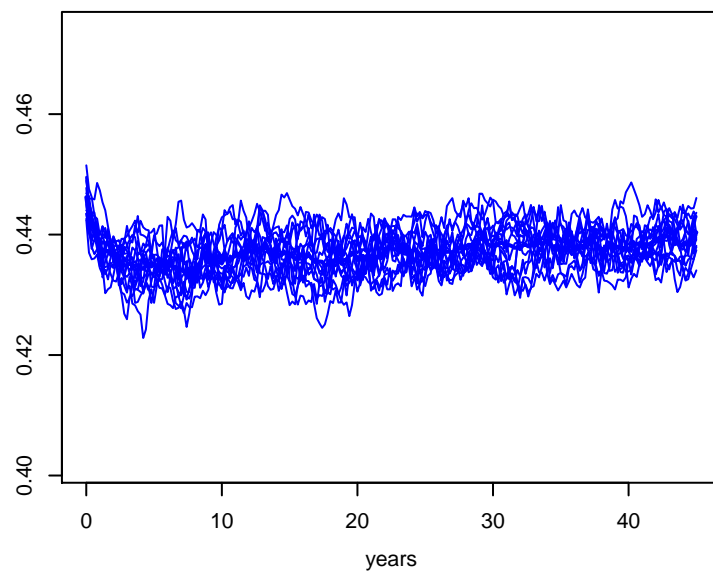
**mean\_degree\_inf\_untreated**



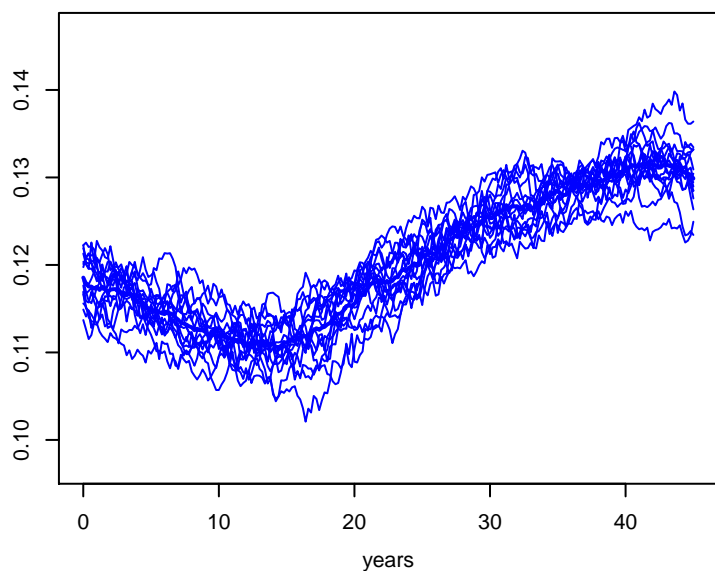
**prop\_nodes\_degree\_0**



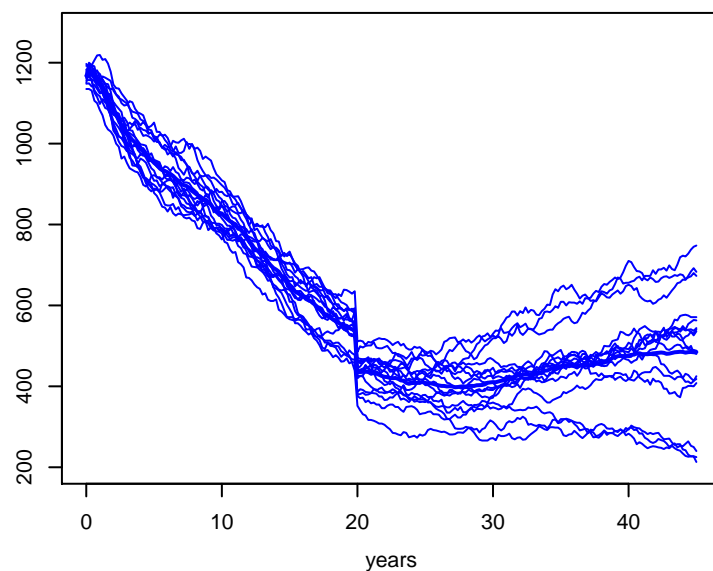
**prop\_nodes\_degree\_1**



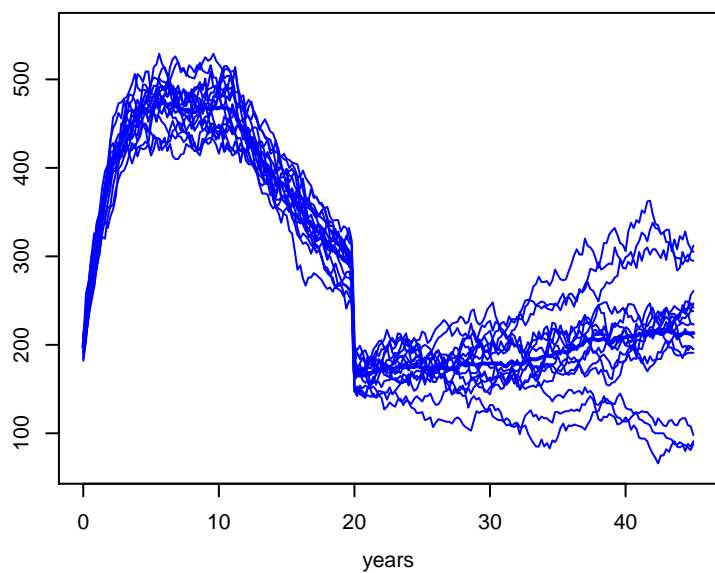
**prop\_nodes\_concurrent**



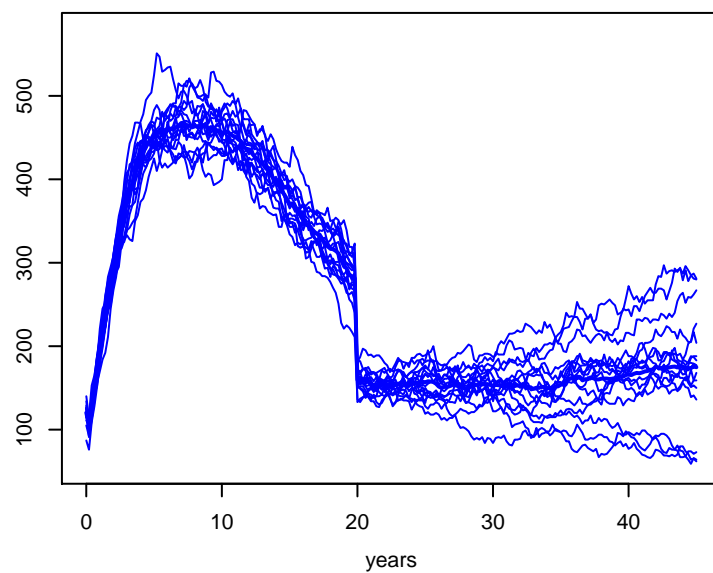
**cd4\_gt\_350**



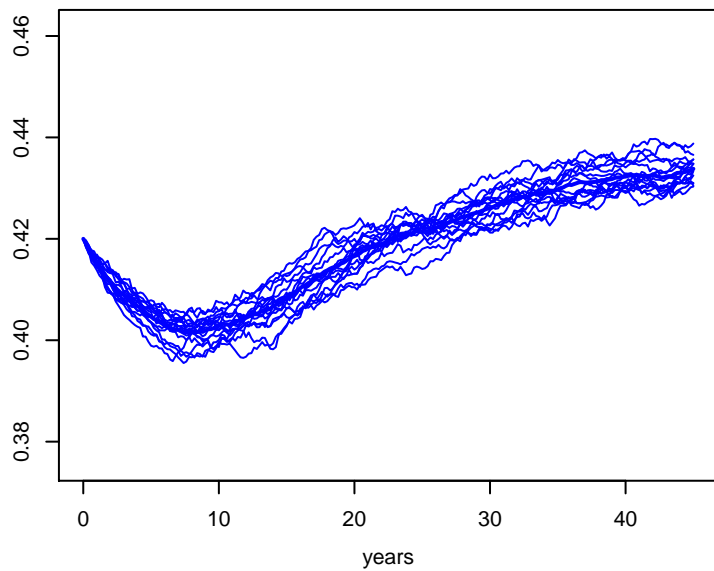
**cd4\_200\_350**



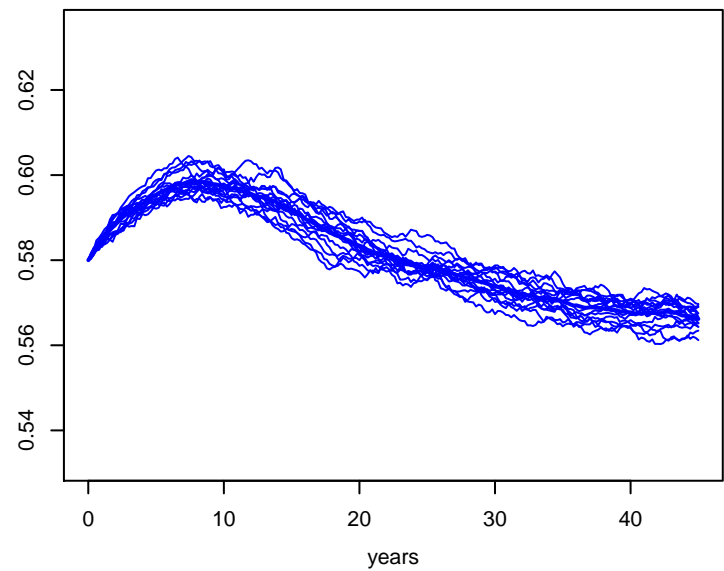
**cd4\_0\_200**



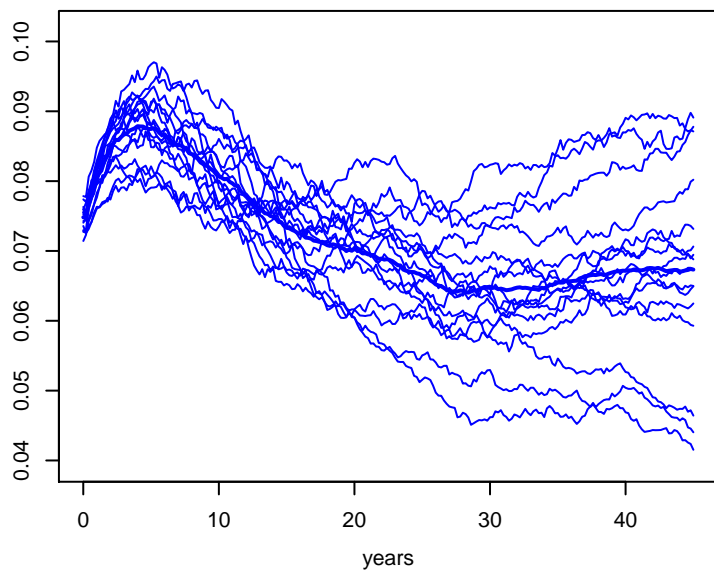
**generic\_att\_percent\_cat\_1**



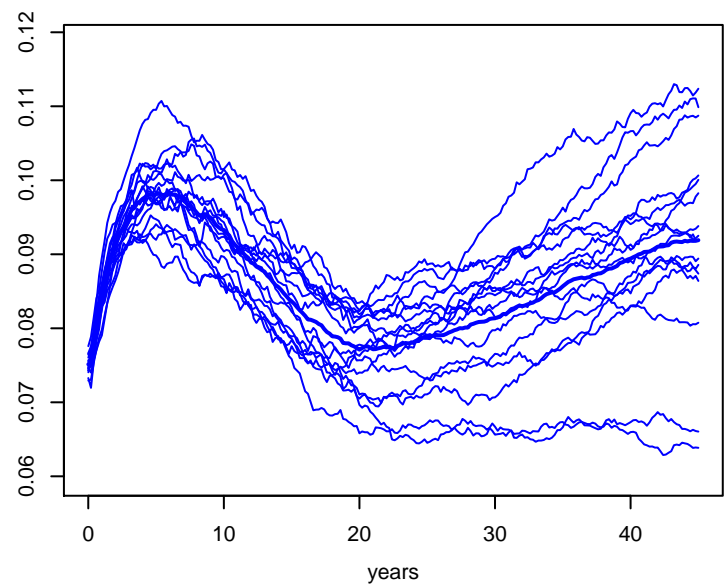
**generic\_att\_percent\_cat\_2**



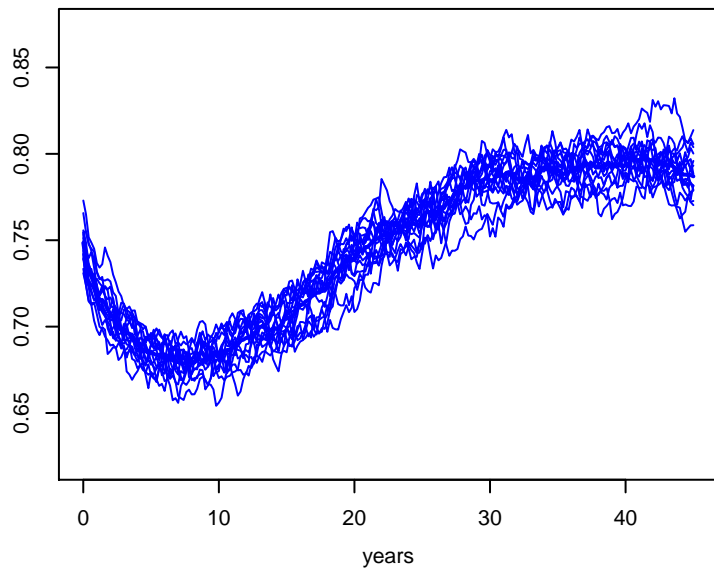
**generic\_att\_percent\_inf\_cat\_1**



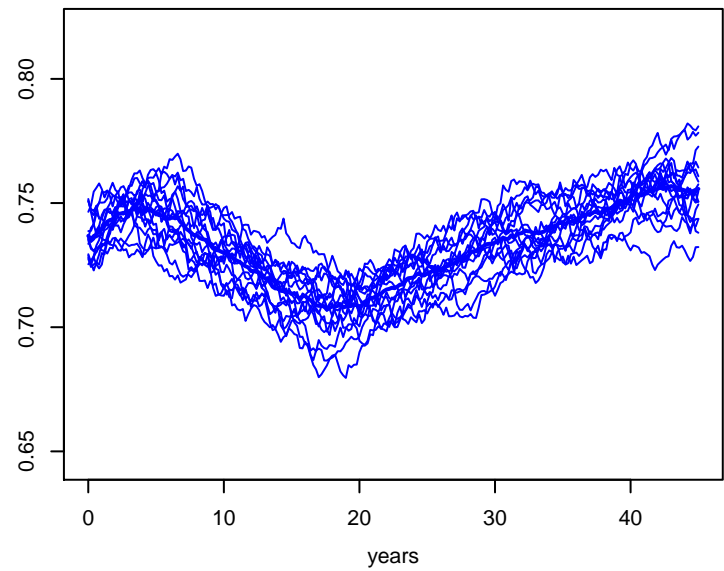
**generic\_att\_percent\_inf\_cat\_2**



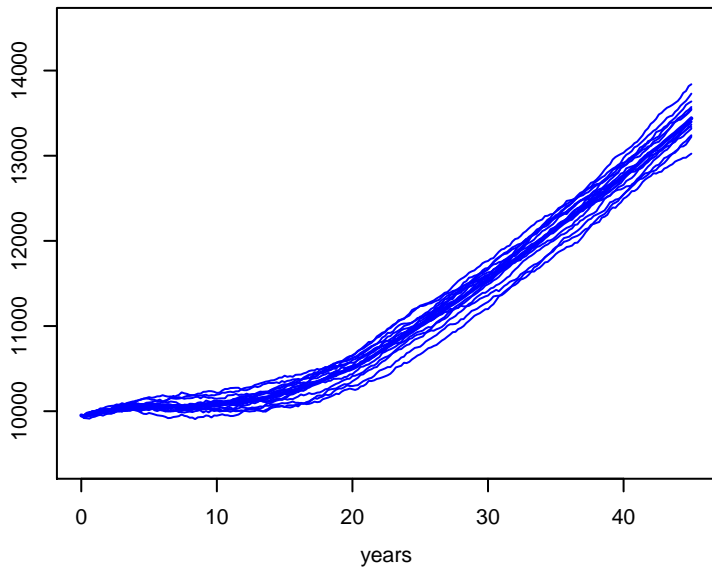
**generic\_att\_mean\_degree\_cat\_1**



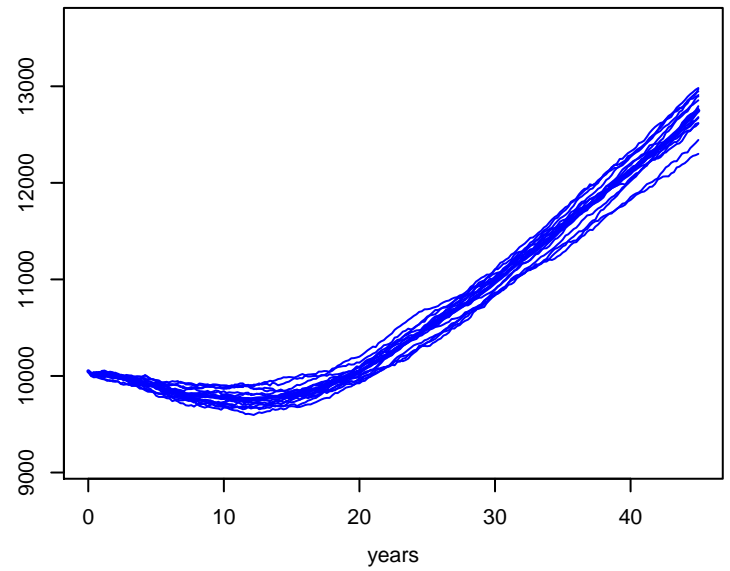
**generic\_att\_mean\_degree\_cat\_2**



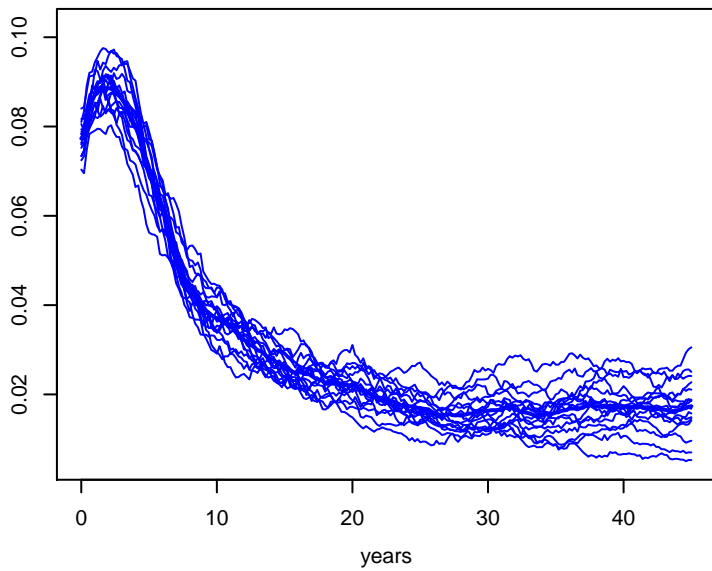
**alive\_female**



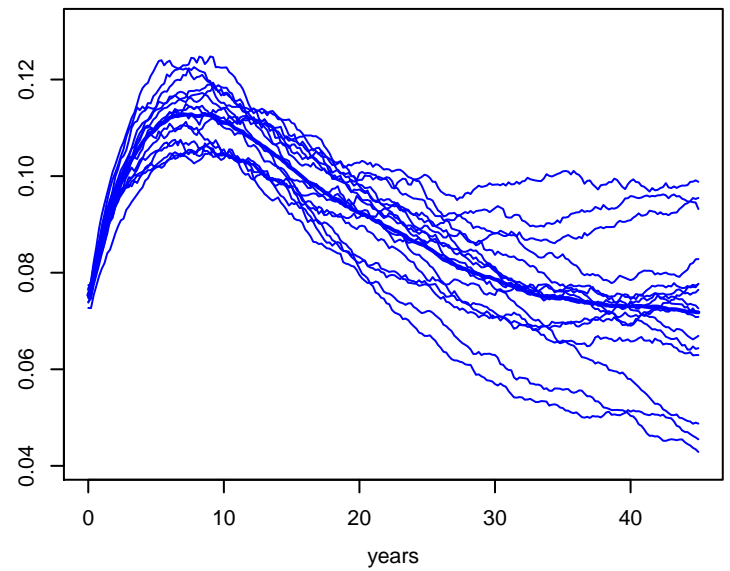
**alive\_male**



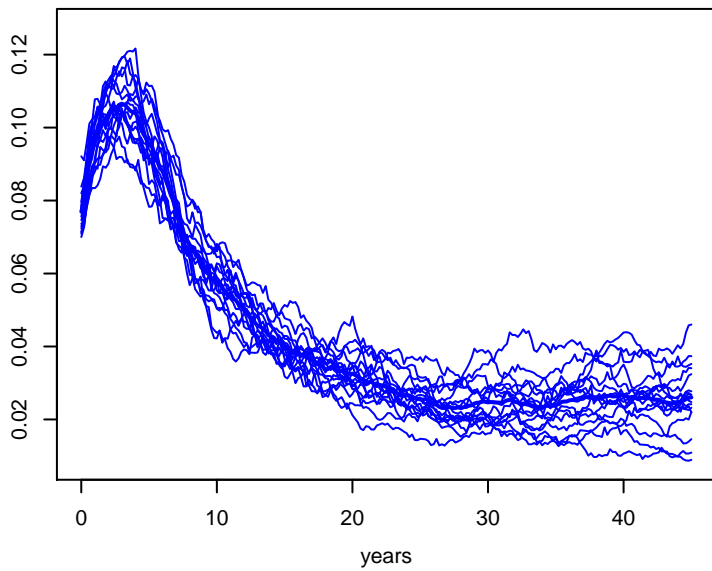
**prev\_15to24**



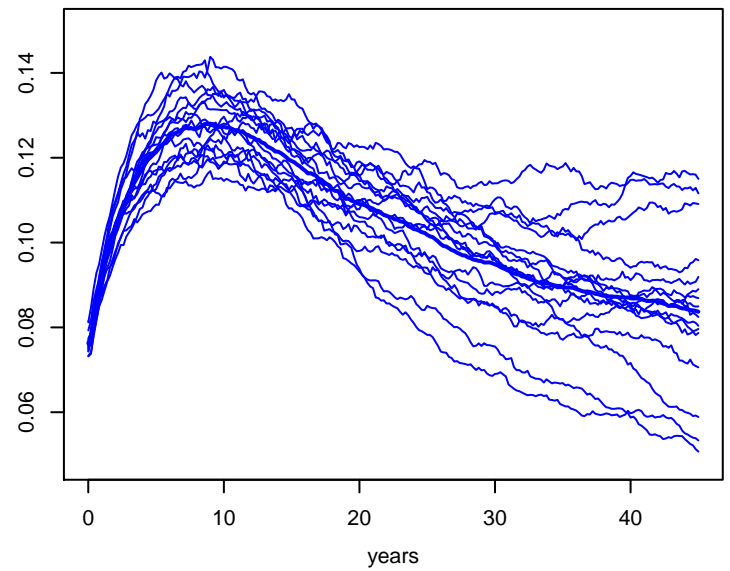
**prev\_15to49**



**prev\_f\_15to24**

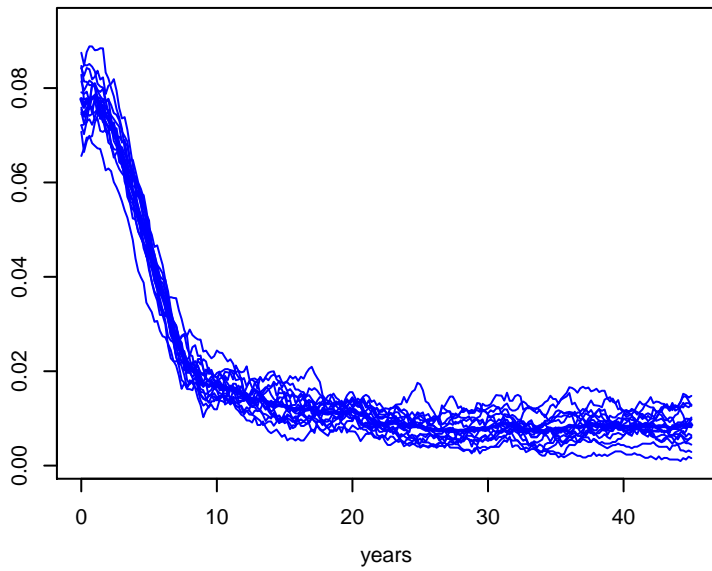


**prev\_f\_15to49**

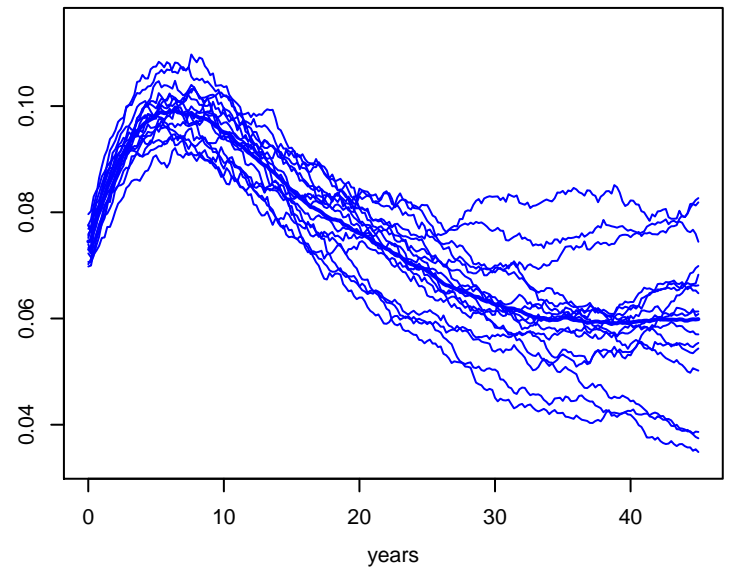




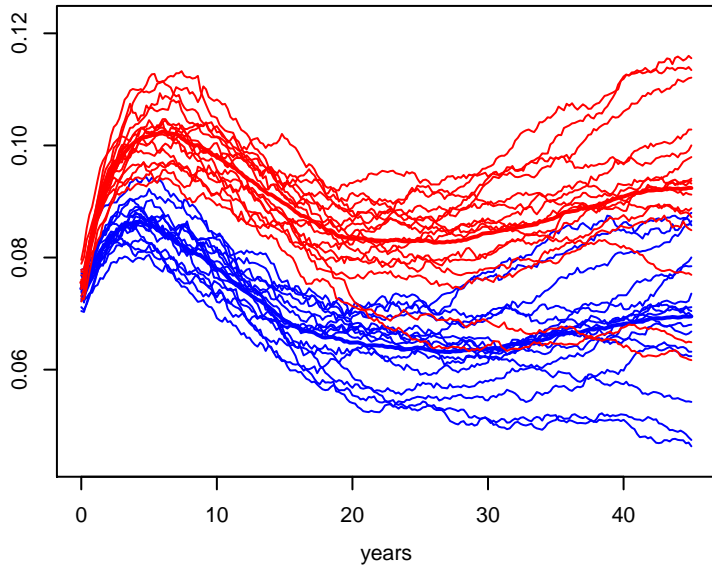
**prev\_m\_15to24**



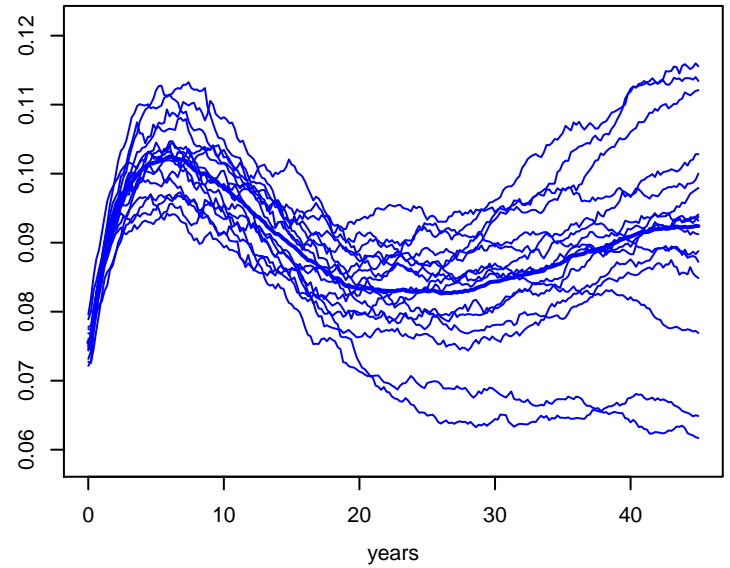
**prev\_m\_15to49**



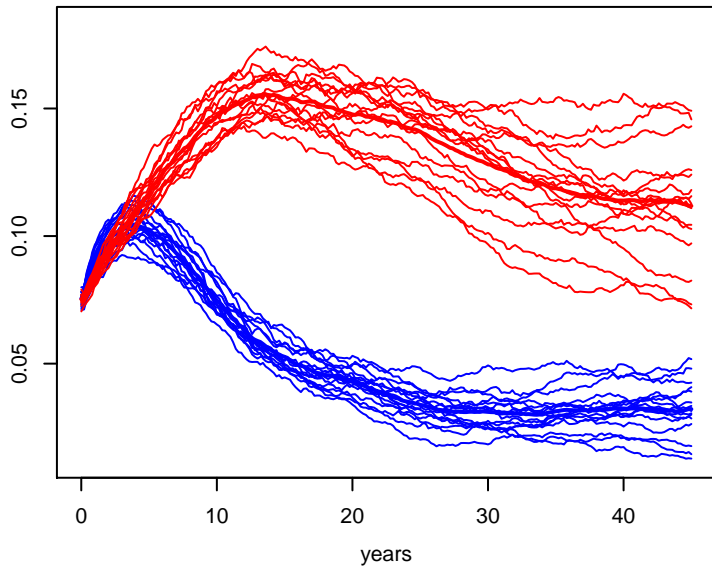
**inf\_men**  
**inf\_women**



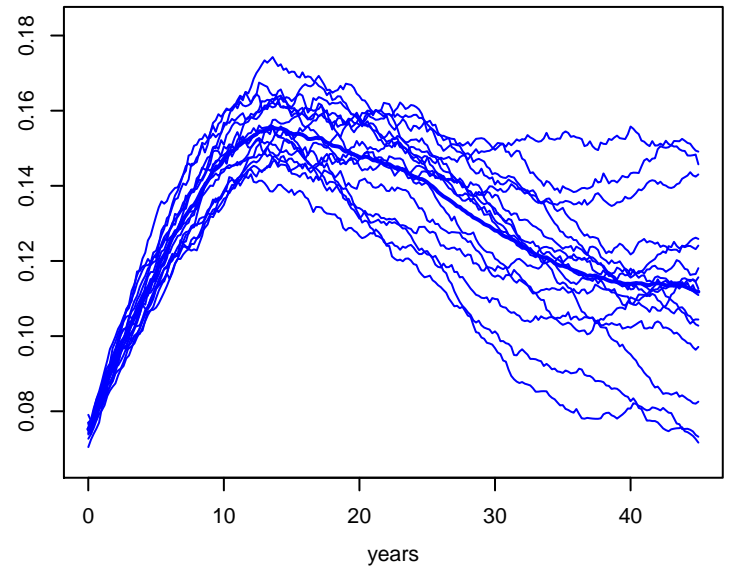
**inf\_women**



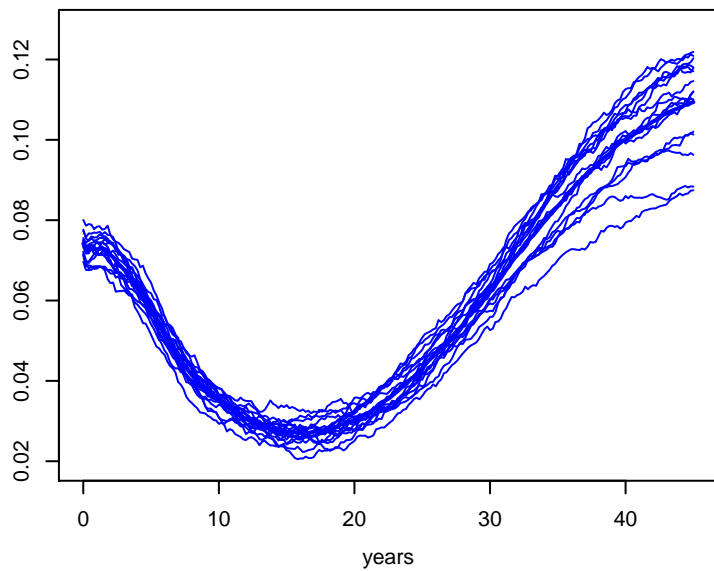
**inf\_under30**  
**inf\_30to50**



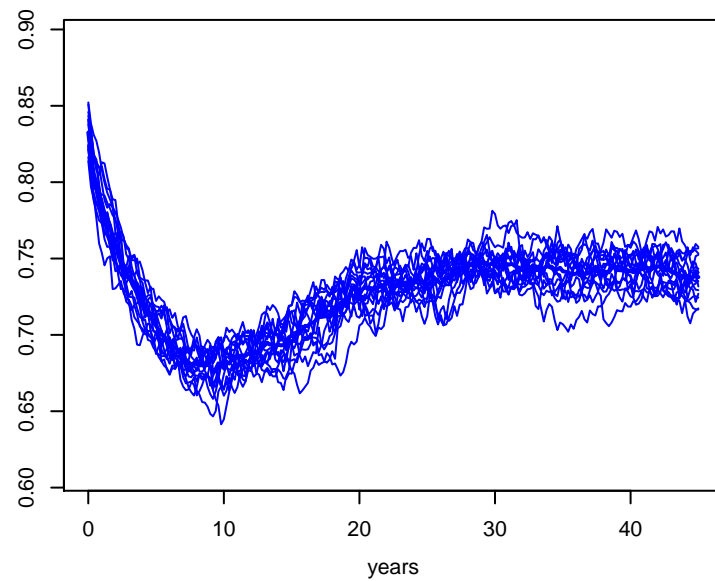
**inf\_30to50**



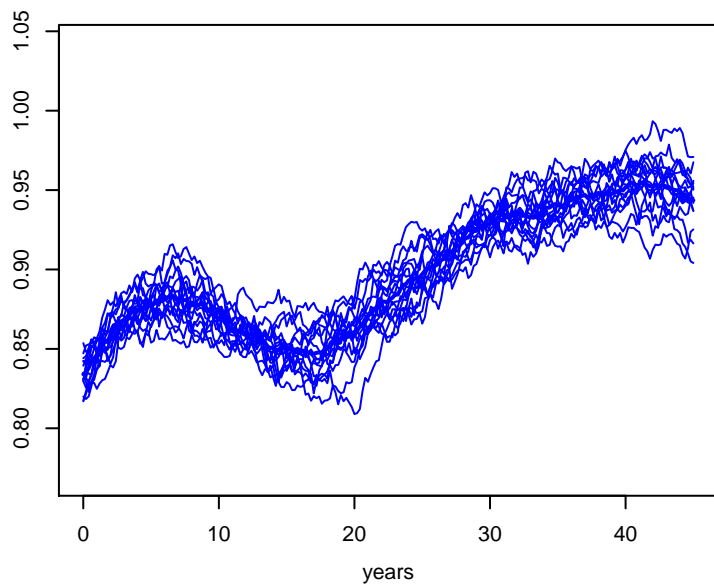
**inf\_over50**



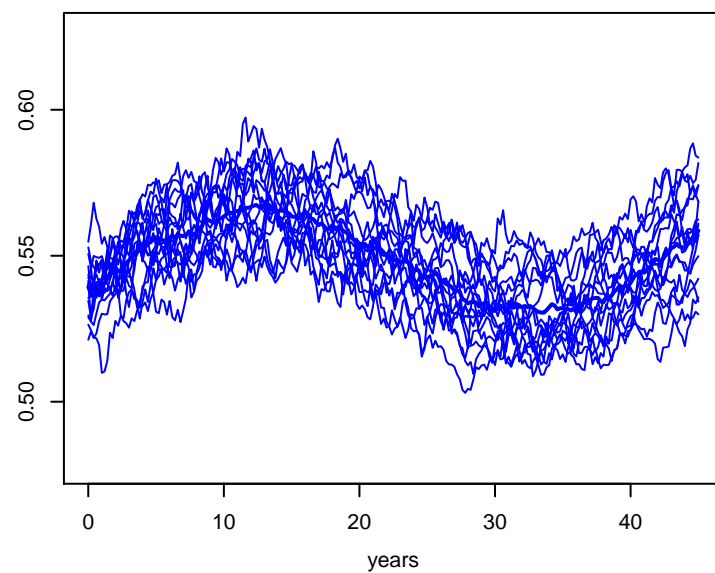
**mean\_degree\_under\_30**



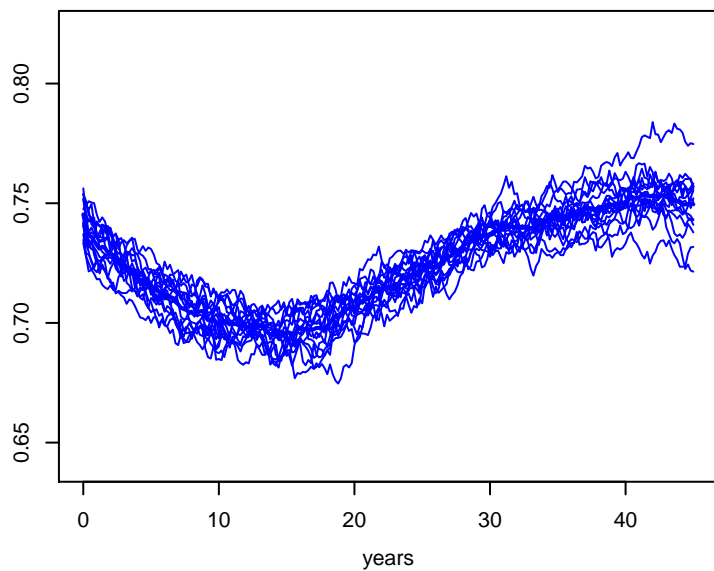
**mean\_degree\_30\_50**



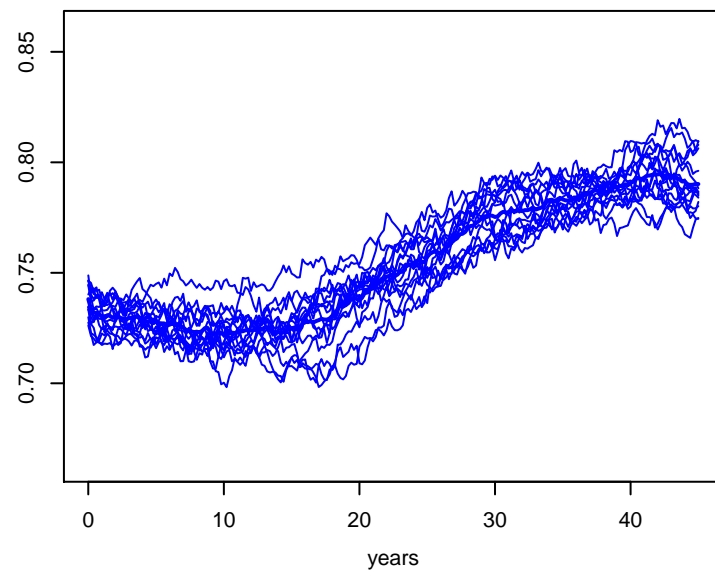
**mean\_degree\_over\_50**



**mean\_degree\_female**

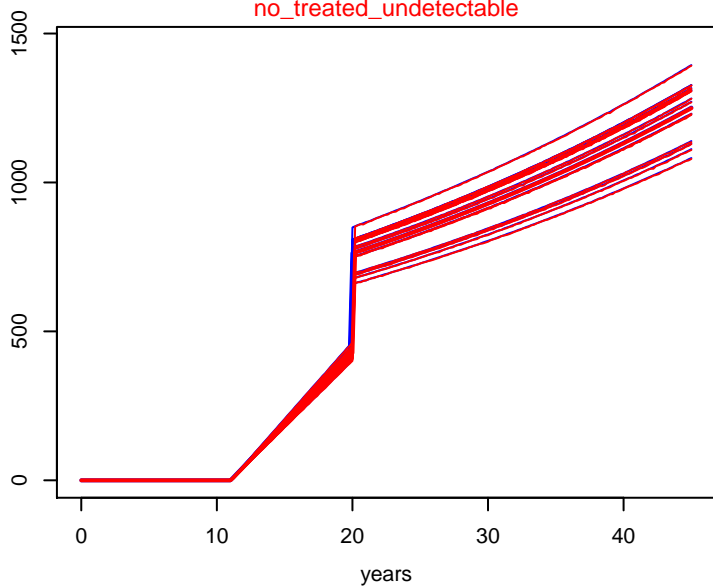


**mean\_degree\_male**

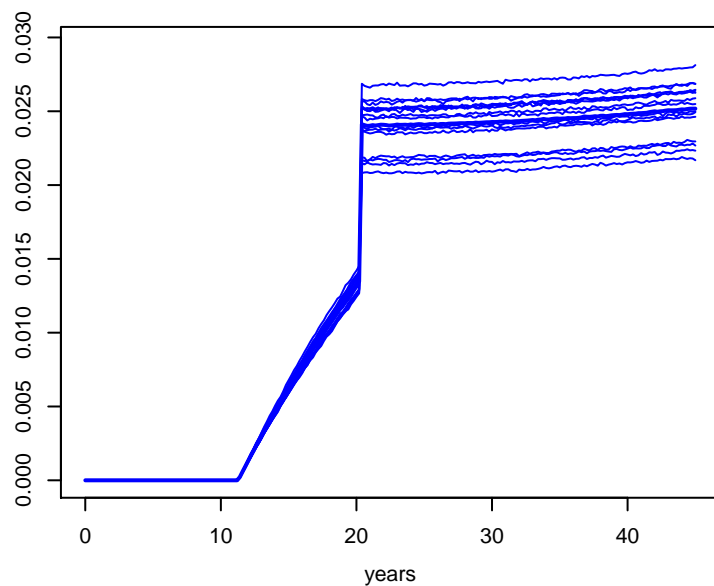


**no\_treated**

no\_treated\_undetectable

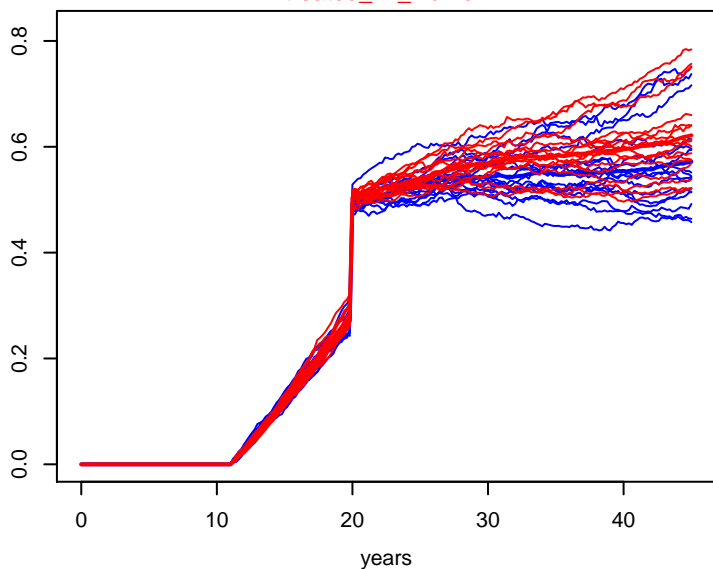


**percent\_suppressed**

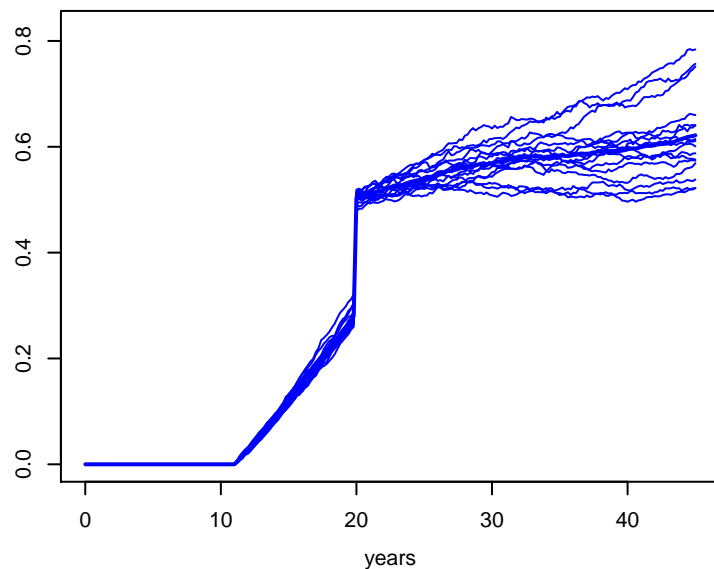


**treated\_inf\_men**

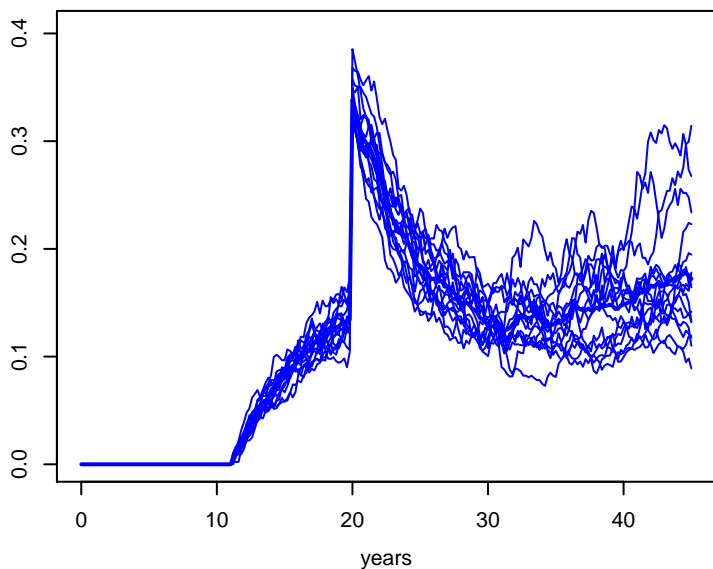
treated\_inf\_women



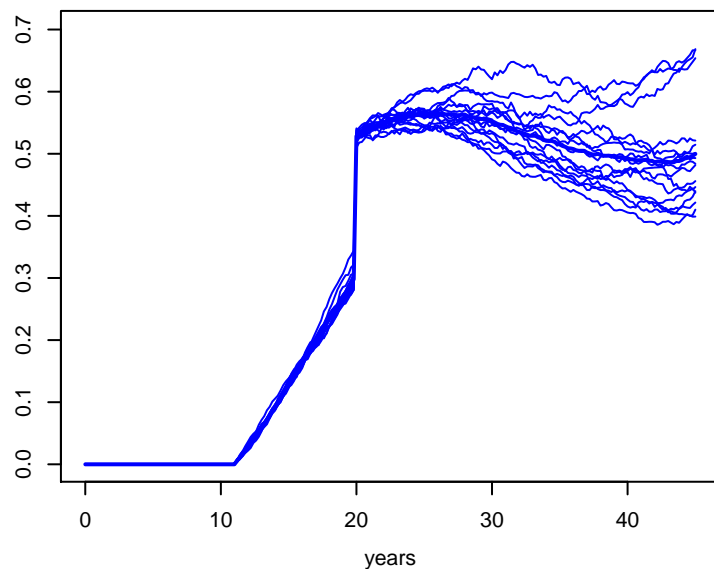
**treated\_inf\_women**



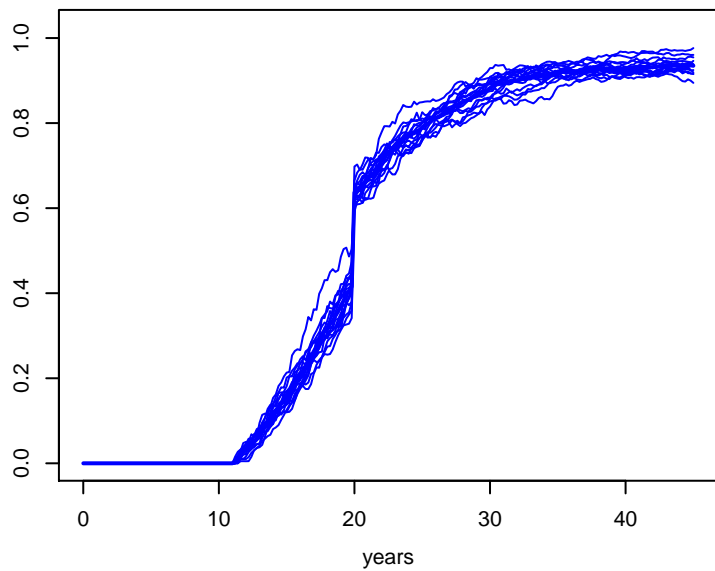
**treated\_inf\_under30**



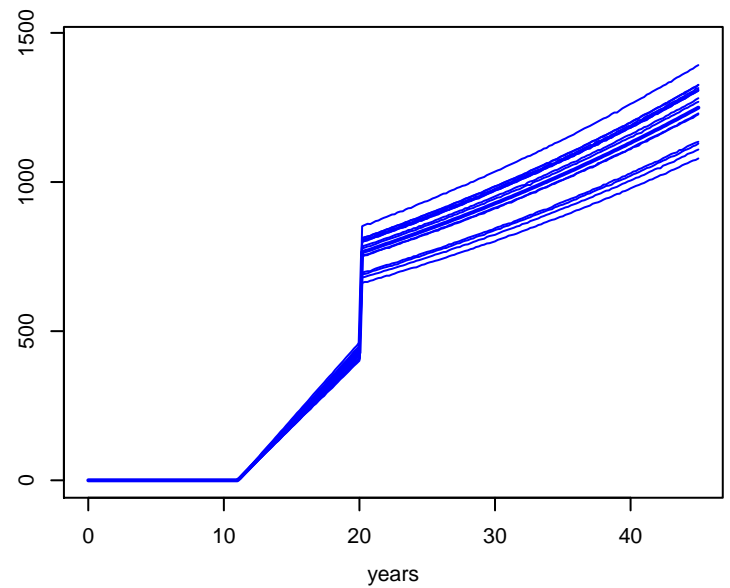
**treated\_inf\_30to50**



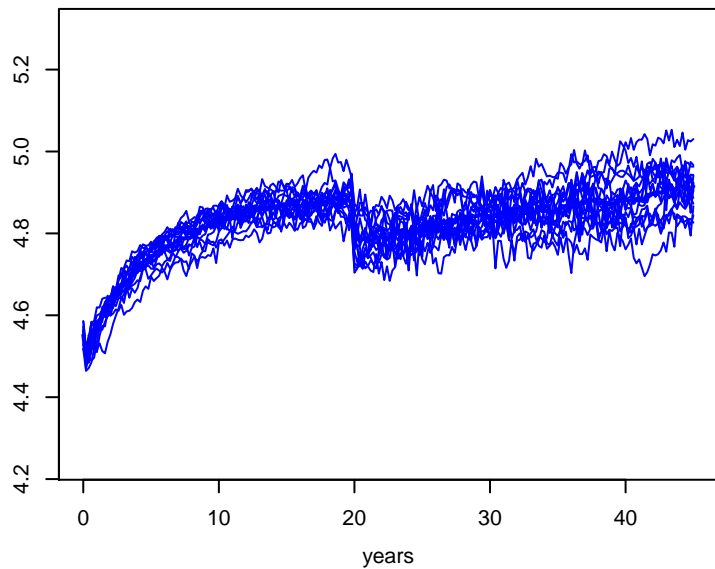
**treated\_inf\_over50**



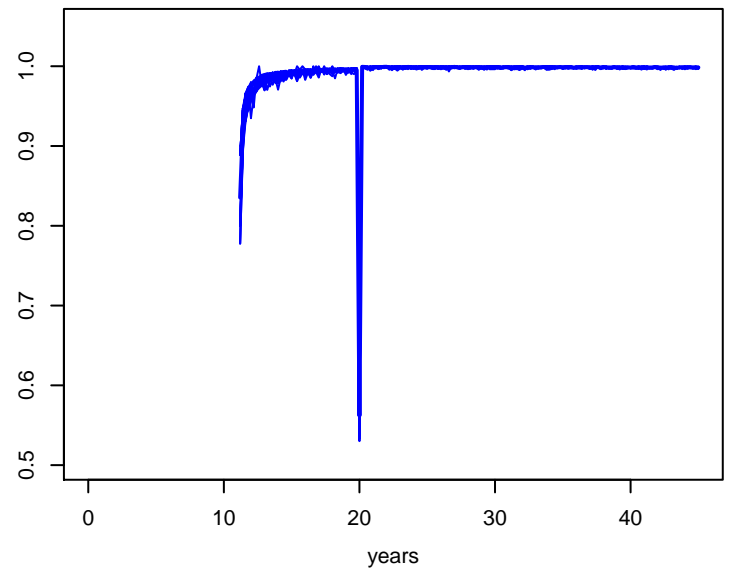
**no\_treated\_undetectable**



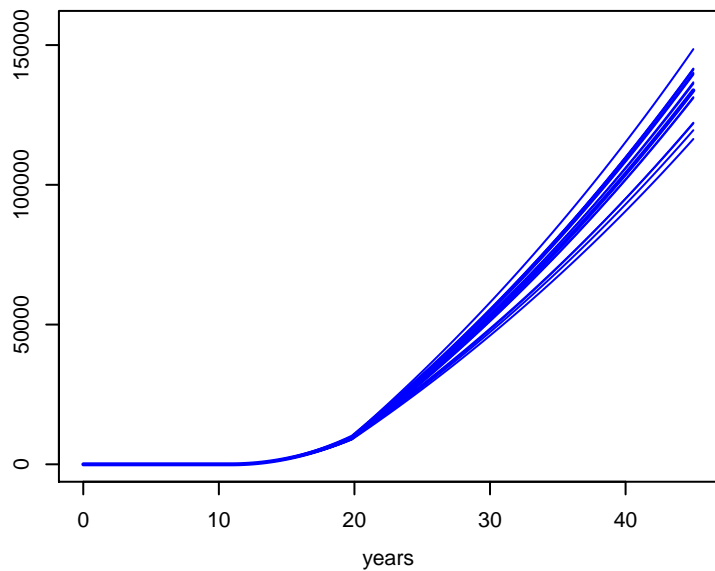
**mean\_vl\_pop\_untreated**



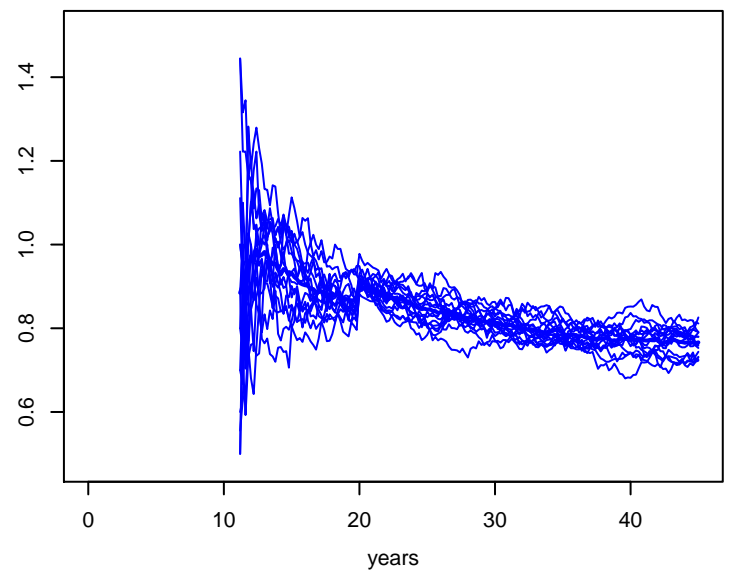
**percent\_treated\_undetectable**



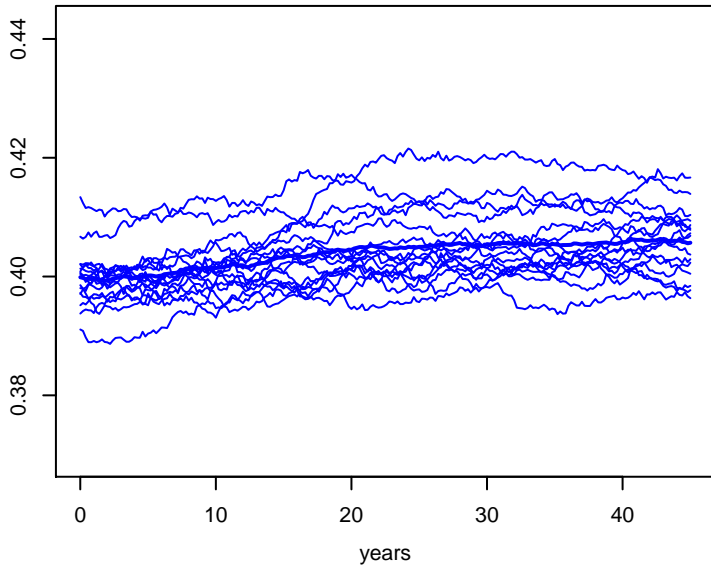
**total\_pills\_taken**



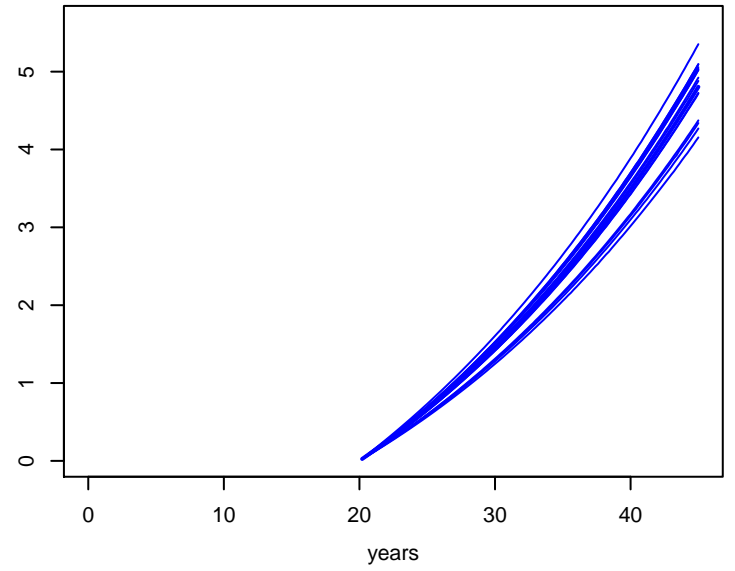
**mean\_degree\_inf\_treated**



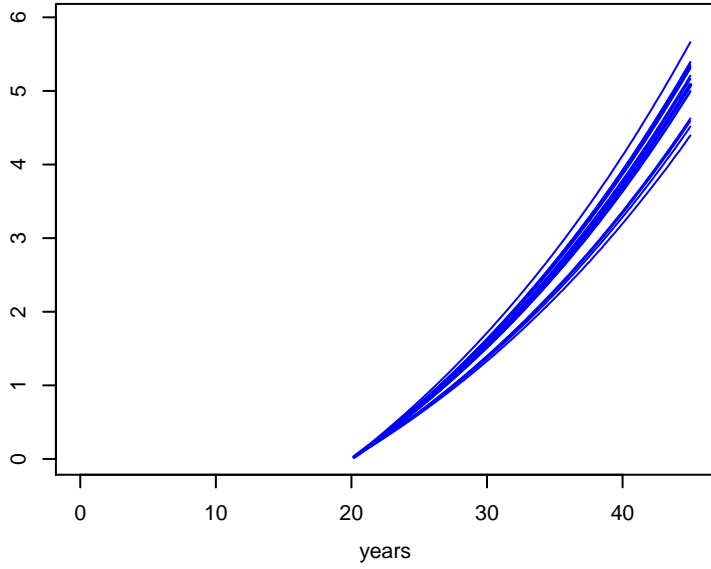
**circum\_prev**



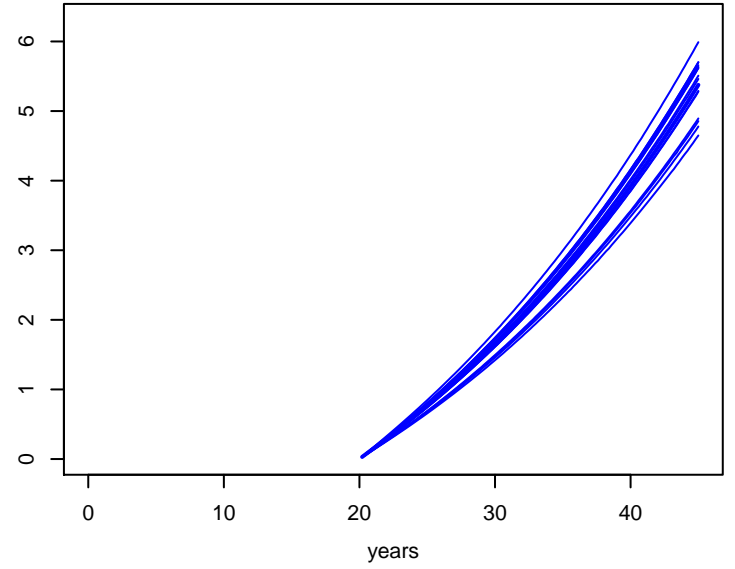
**daly1**



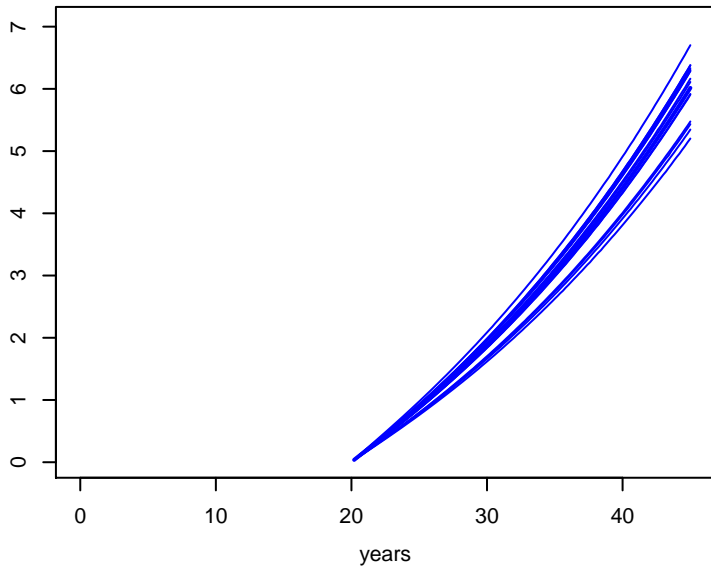
**daly2**



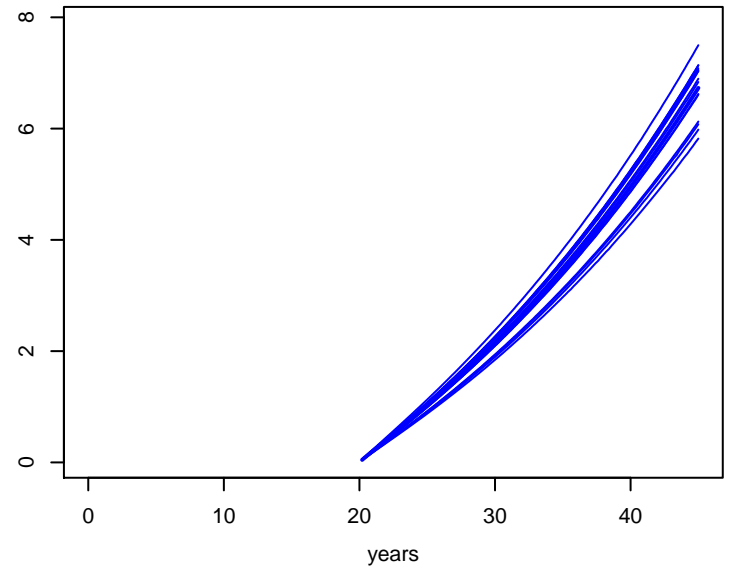
**daly3**



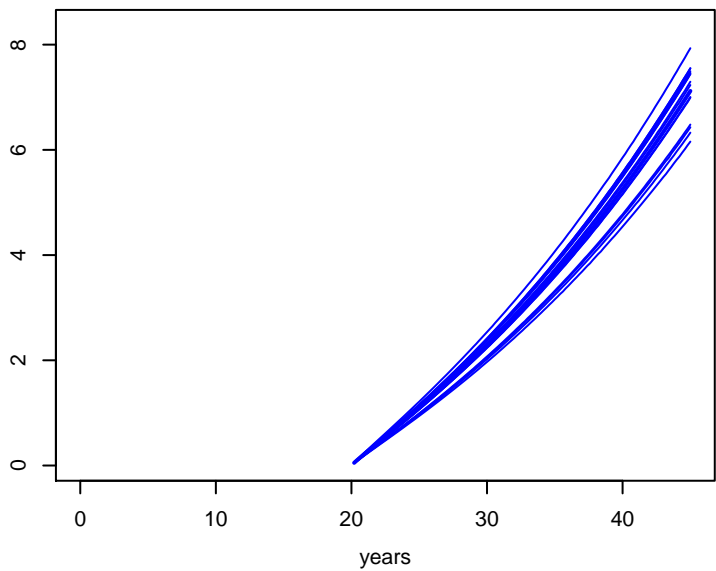
**daly5**



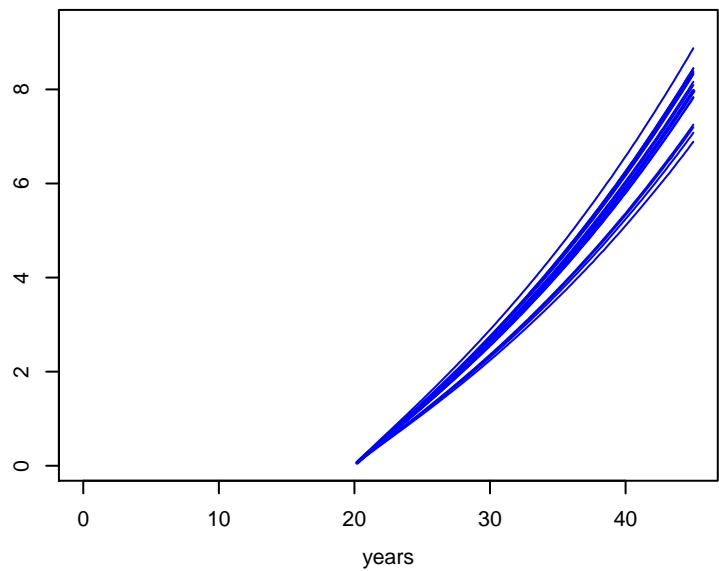
**daly7**



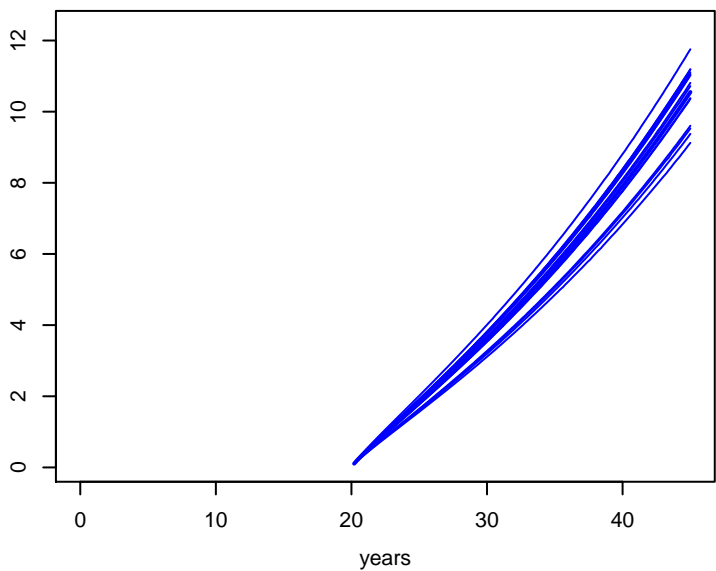
**daly8**



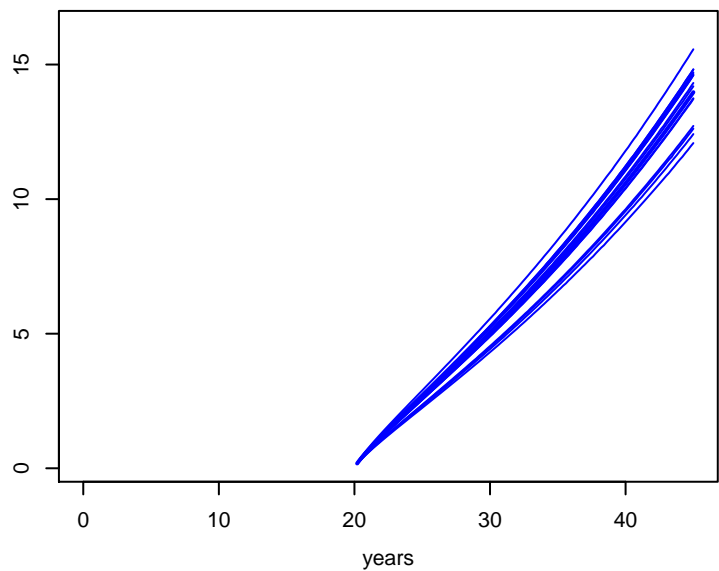
**daly10**



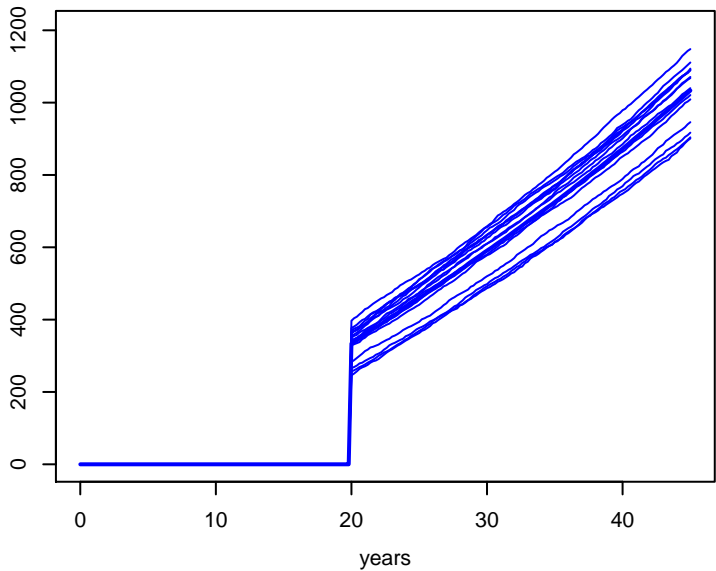
**daly15**



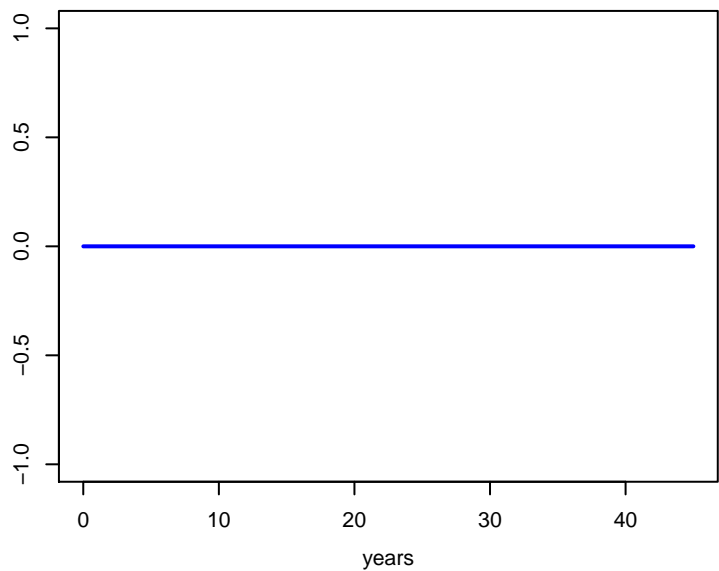
**daly20**



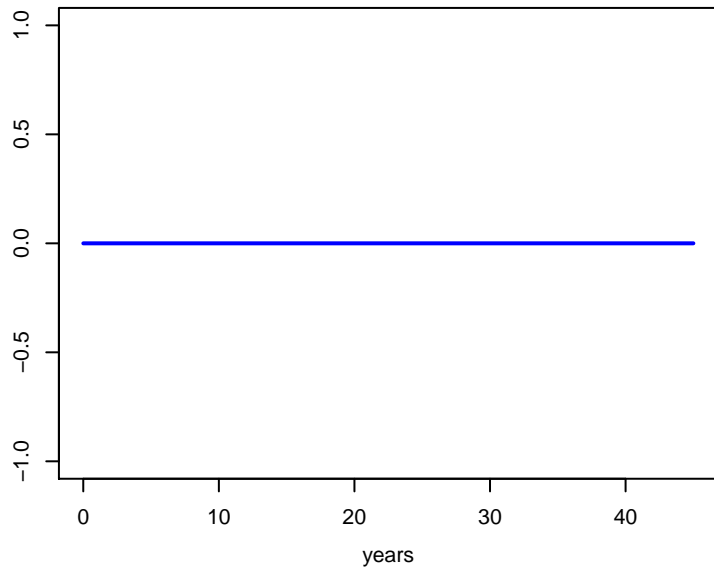
**prioritized\_tx**



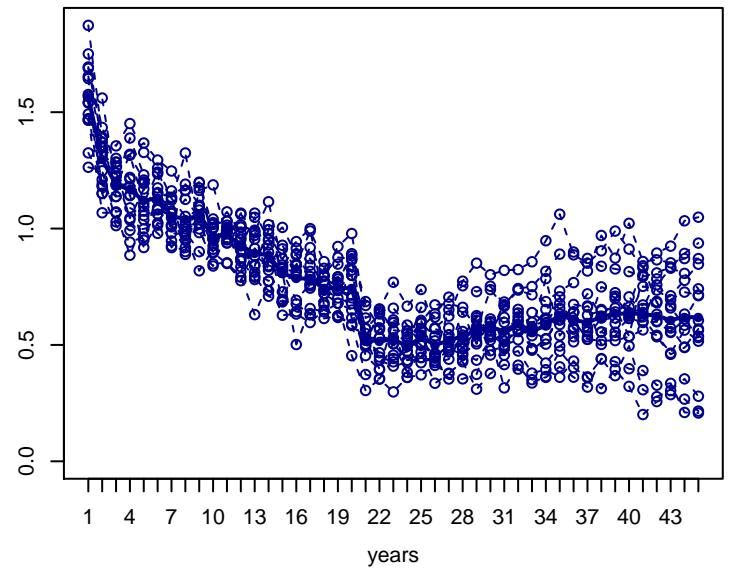
**generic\_att\_percent\_vacc\_cat\_1**



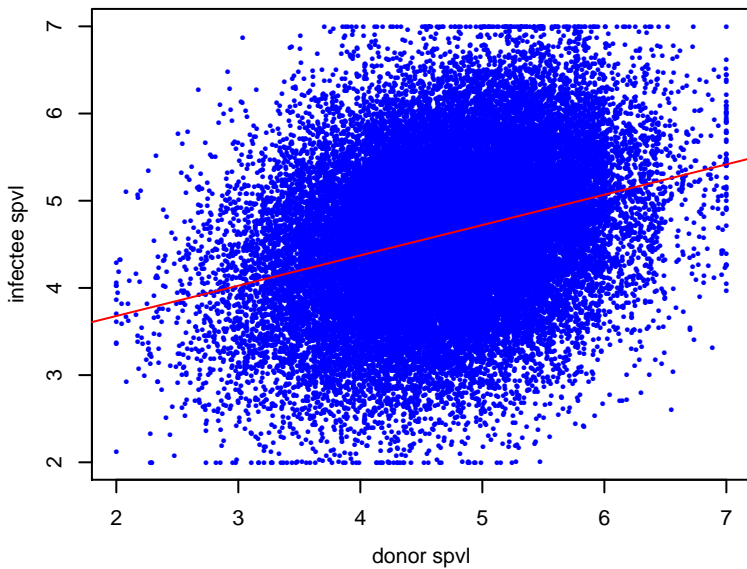
generic\_att\_percent\_vacc\_cat\_2



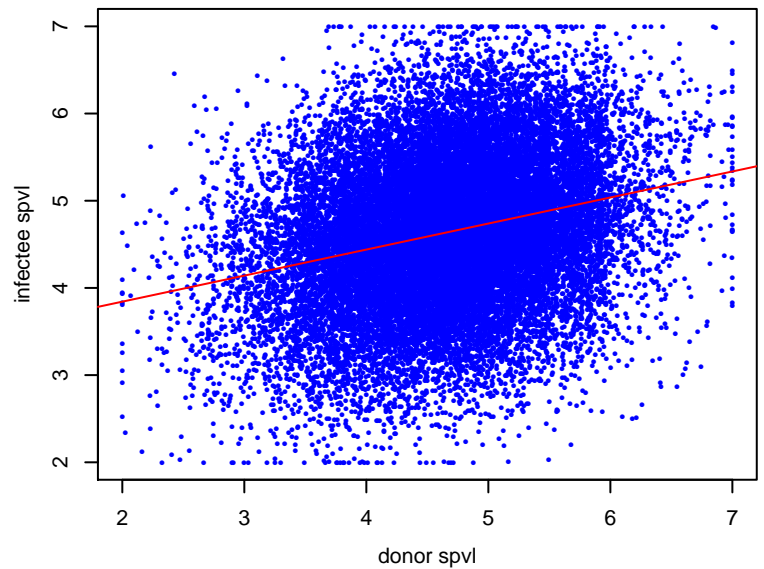
incidence rate per 100 person years



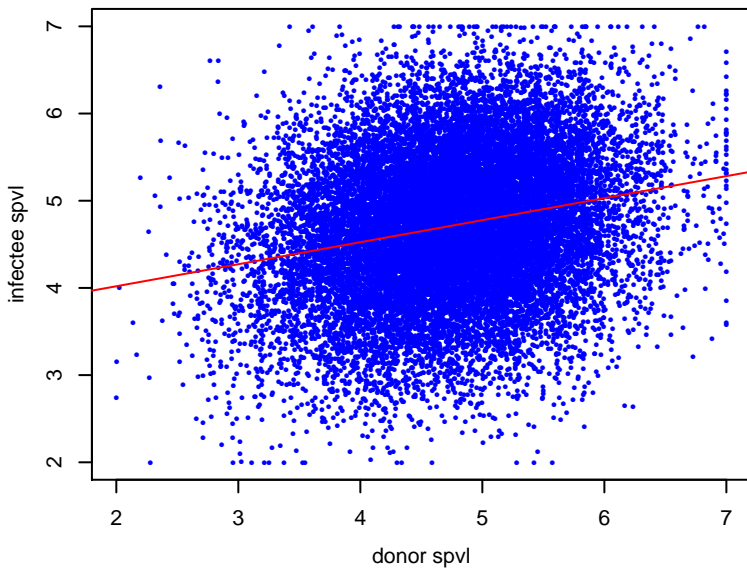
1st quarter heritability (n= 37171 ): 0.35



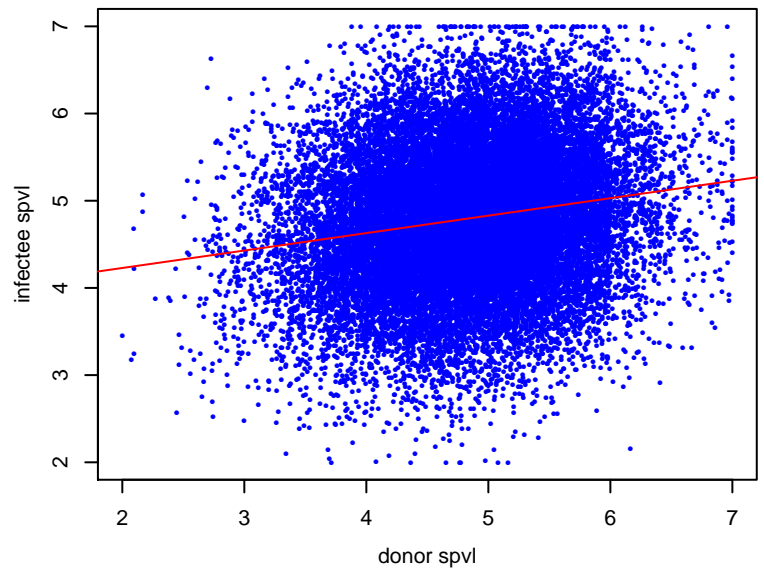
2nd quarter heritability (n= 24935 ): 0.3



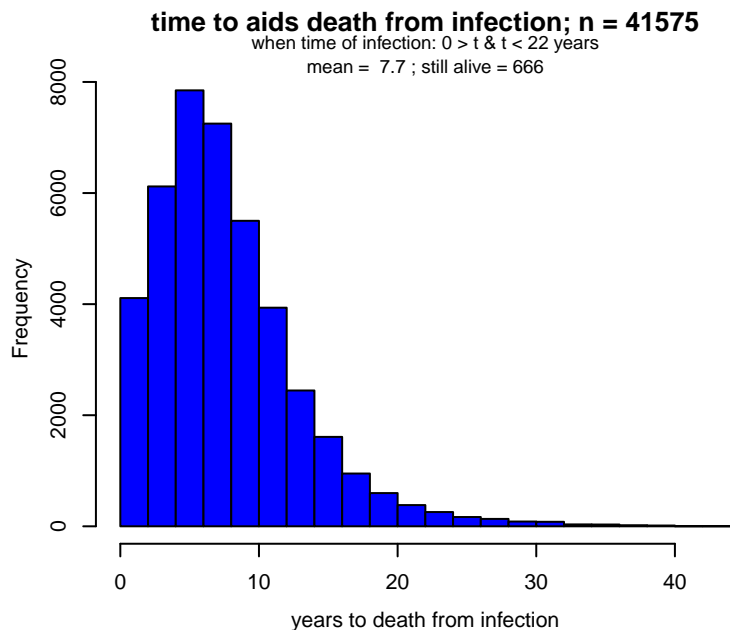
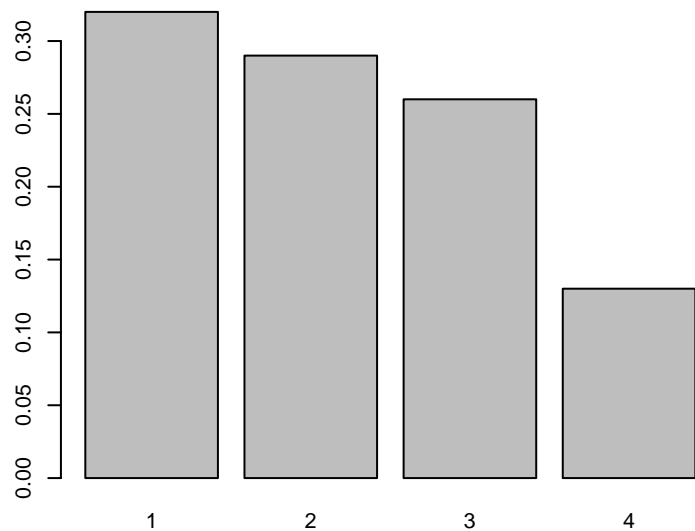
3rd quarter heritability (n= 20109 ): 0.25



4th quarter heritability (n= 25307 ): 0.2

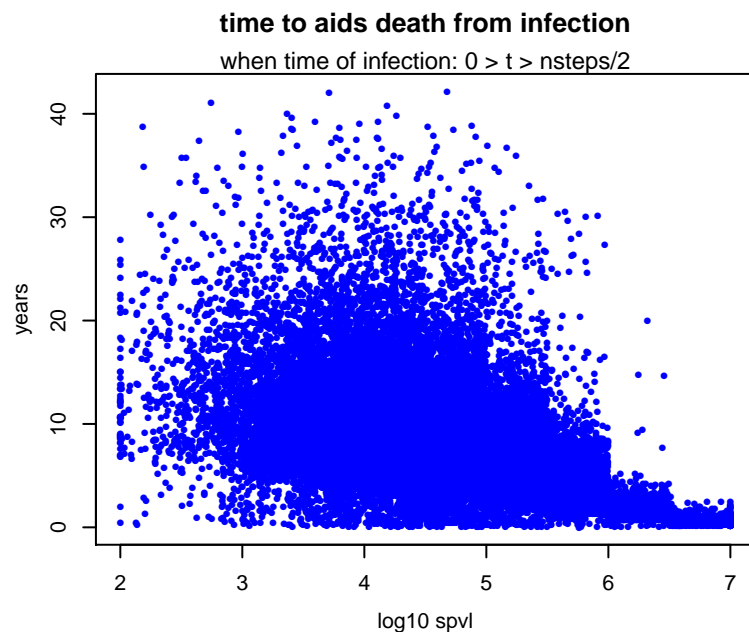
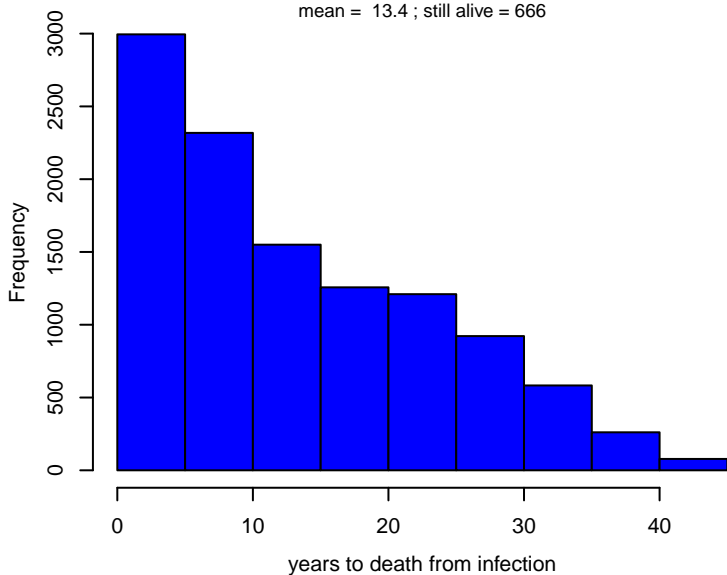


## Percent infection by donors CD4



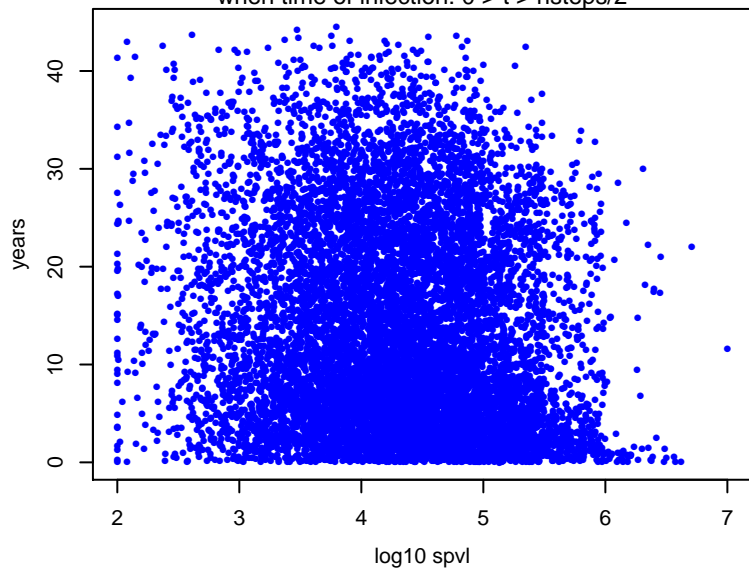
### time to non-aids death from infection; n = 11174

when time of infection:  $0 > t \text{ \& } t < 22$  years  
mean = 13.4 ; still alive = 666

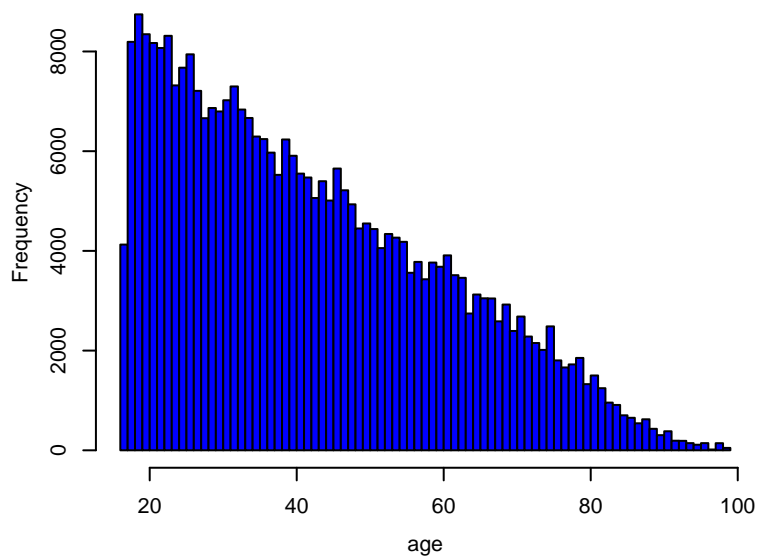


### time to non-aids death from infection

when time of infection:  $0 > t > nsteps/2$

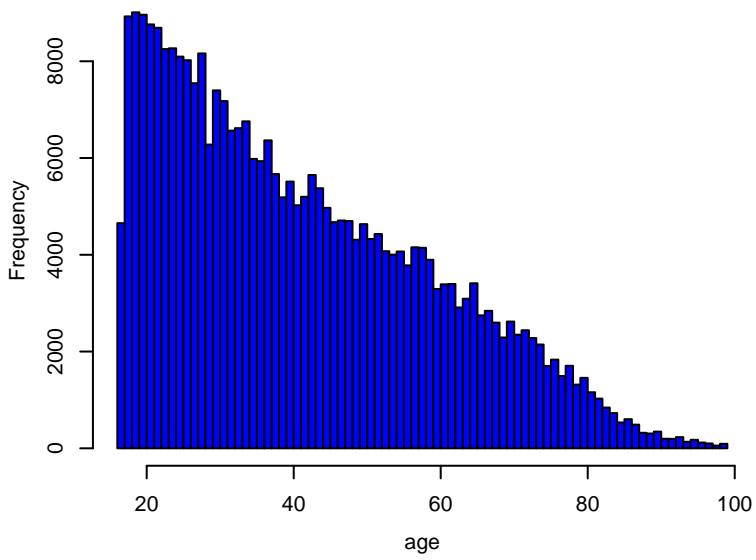


## age distribution at year 0

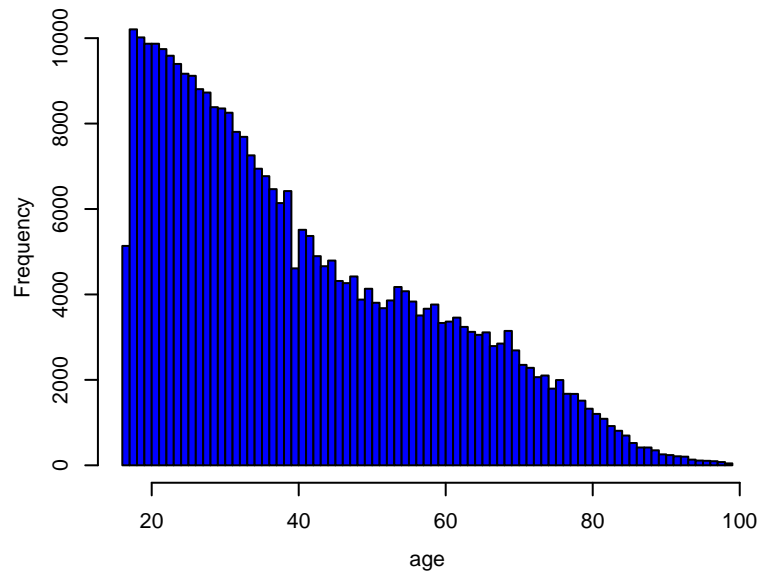




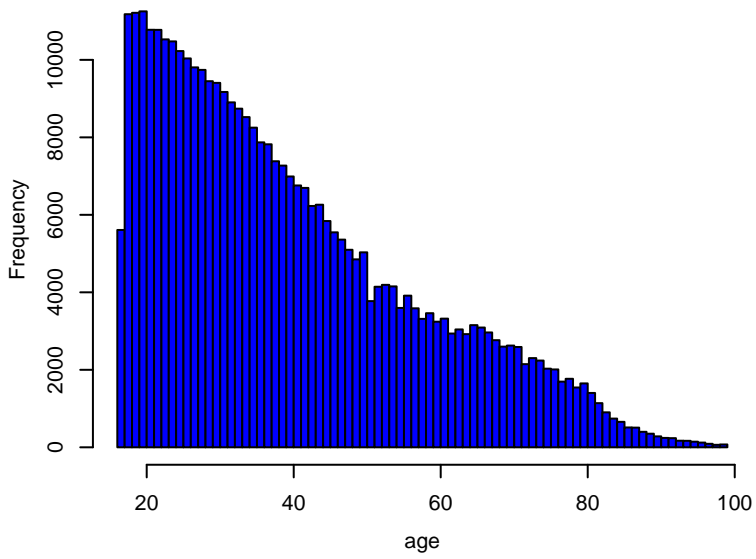
age distribution at year 11.2



age distribution at year 22.5



age distribution at year 33.8



age distribution at year 45

