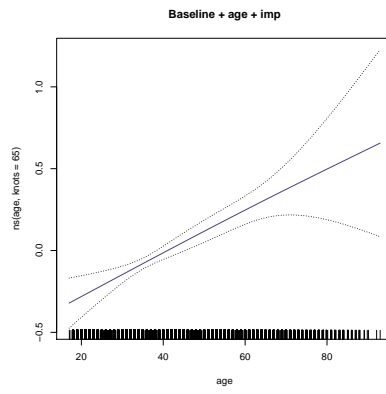
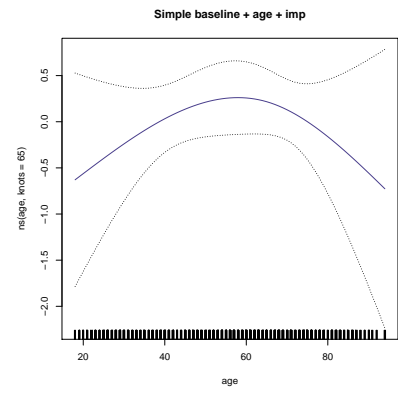


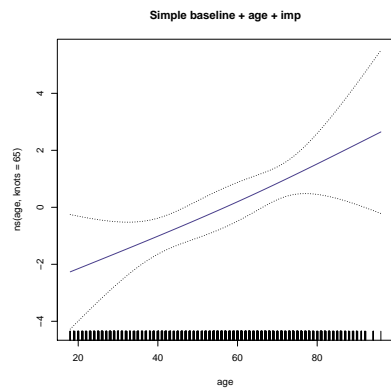
(a) 002 Incidence



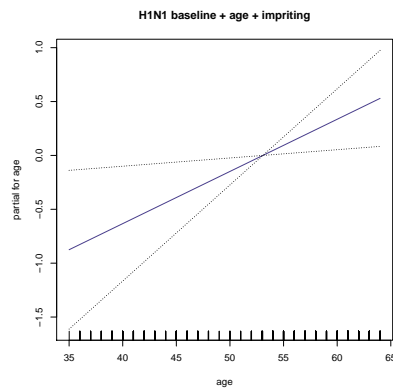
(b) 002 Duration



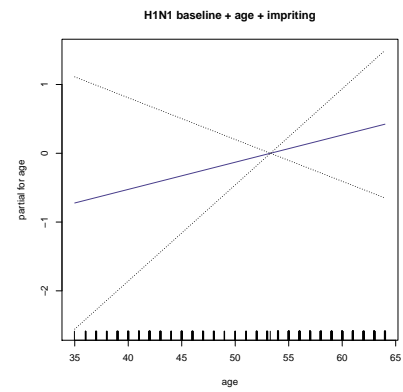
(c) 003 Symdur



(d) 003 Hospdays

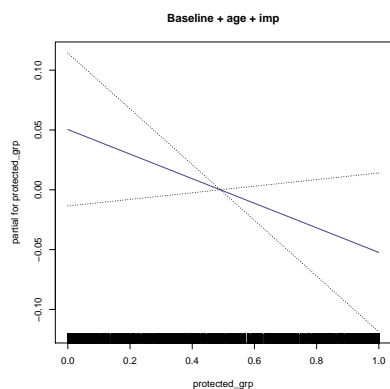


(e) 003 ICU

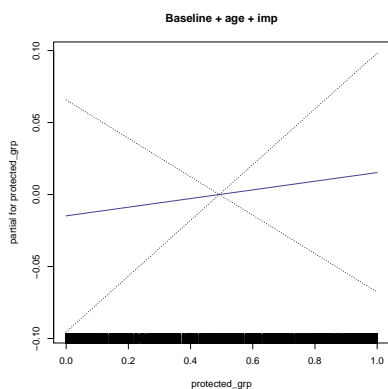


(f) 003 Death

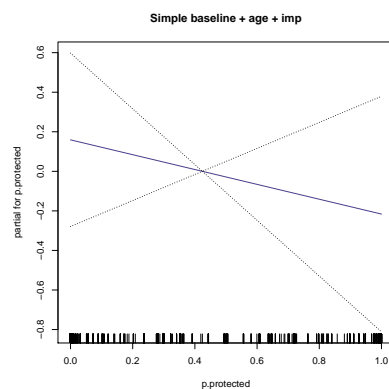
Figure 1: Age effects



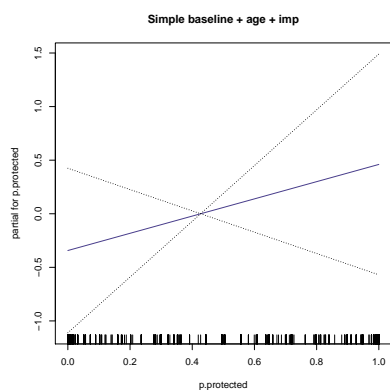
(a) 002 Incidence



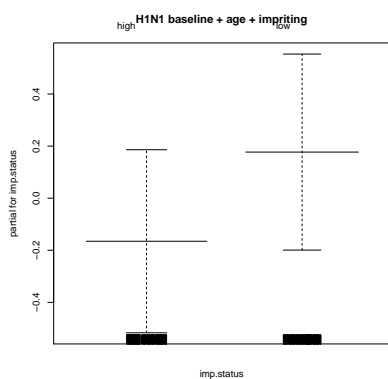
(b) 002 Duration



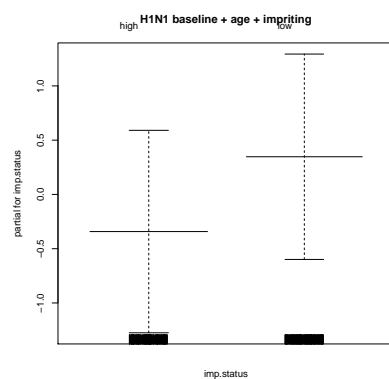
(c) 003 Symdur



(d) 003 Hospdays

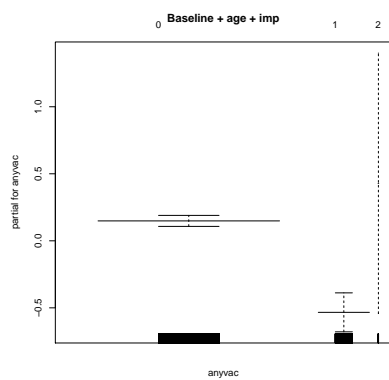


(e) 003 ICU

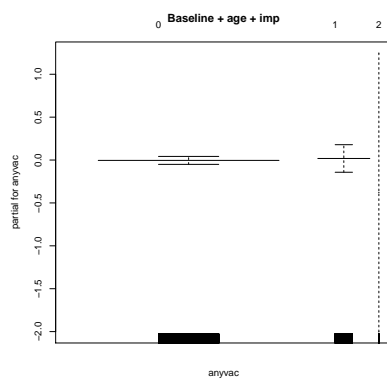


(f) 003 Death

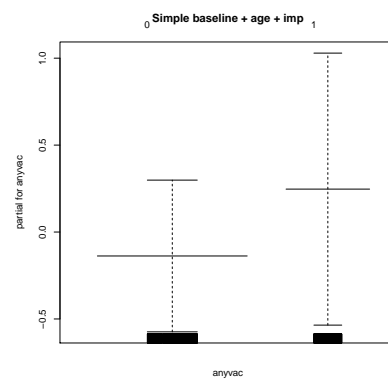
Figure 2: Imprinting effects



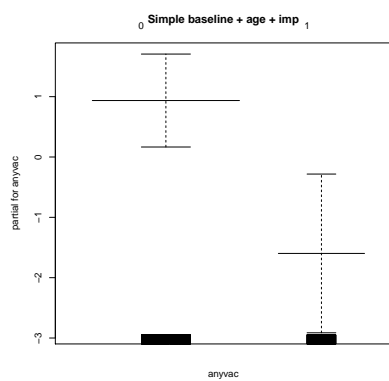
(a) 002 Incidence



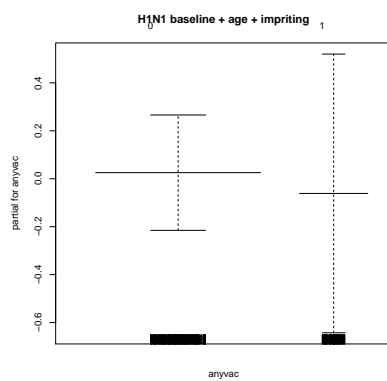
(b) 002 Duration



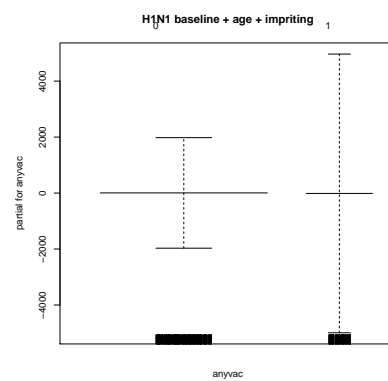
(c) 003 Symdur



(d) 003 Hospdays



(e) 003 ICU



(f) 003 Death

Figure 3: Constrained vaccine effects

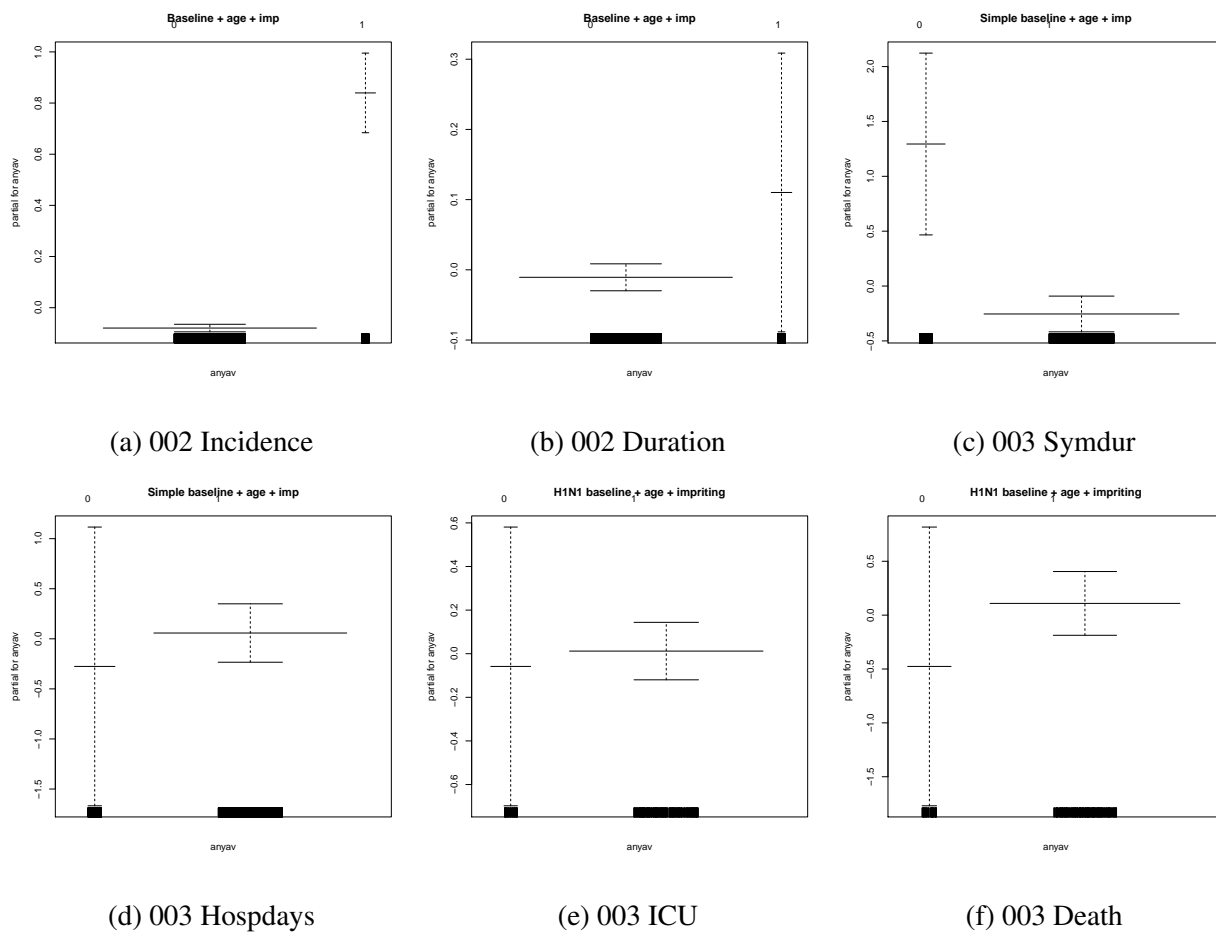
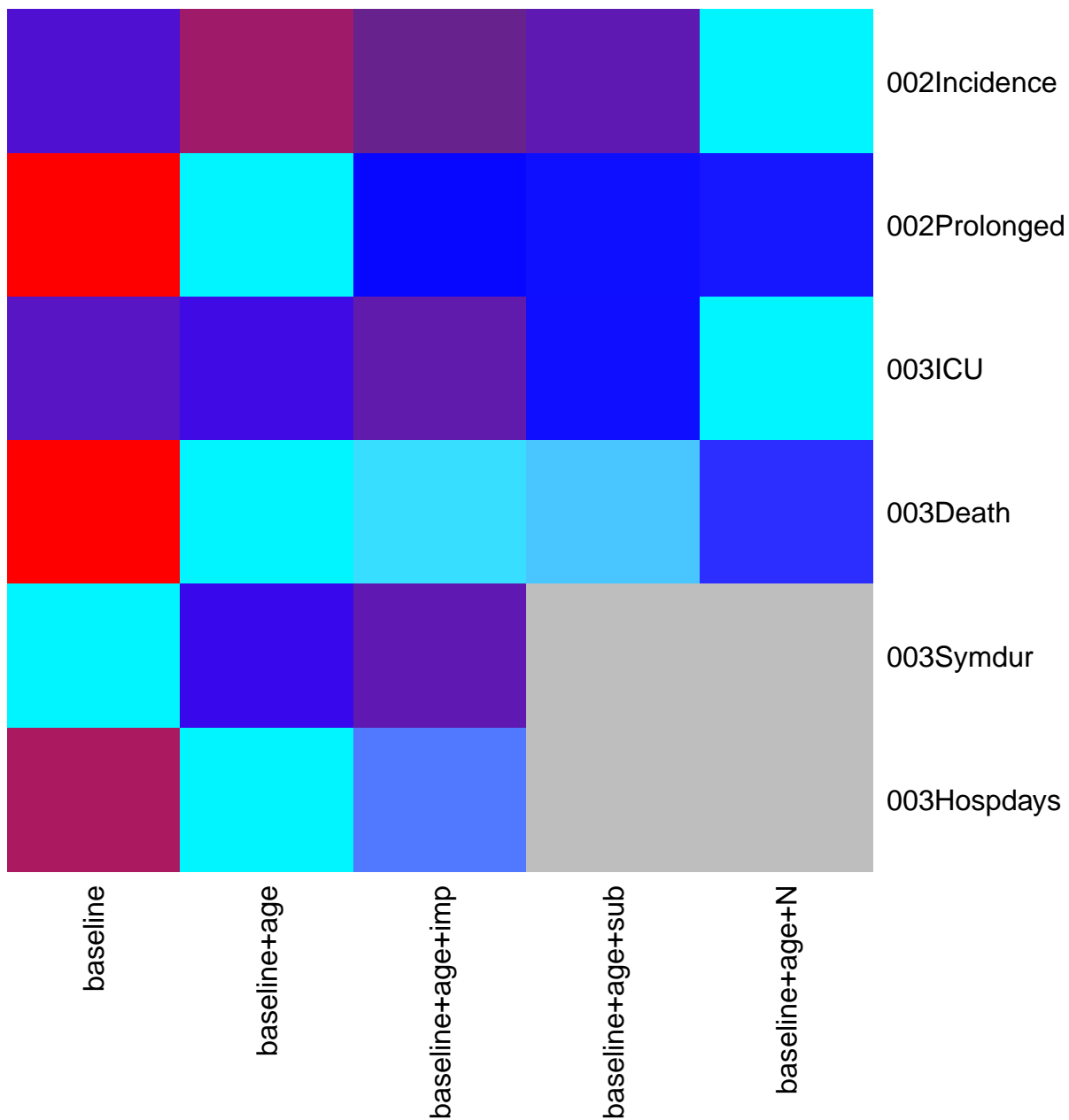
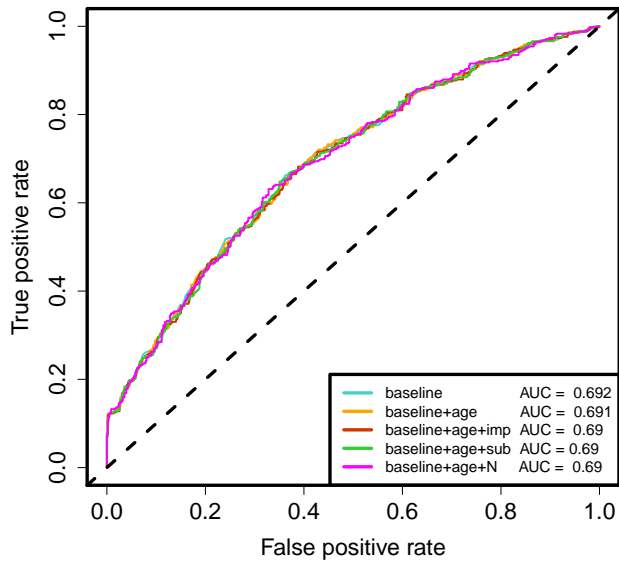


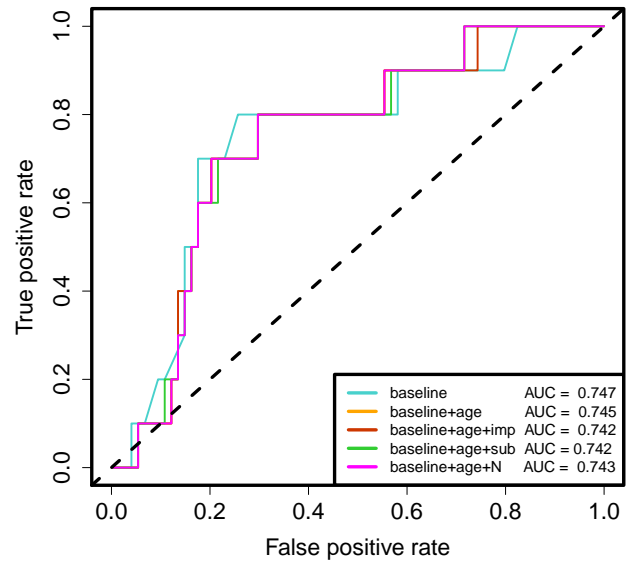
Figure 4: Antiviral effects

## Constrained

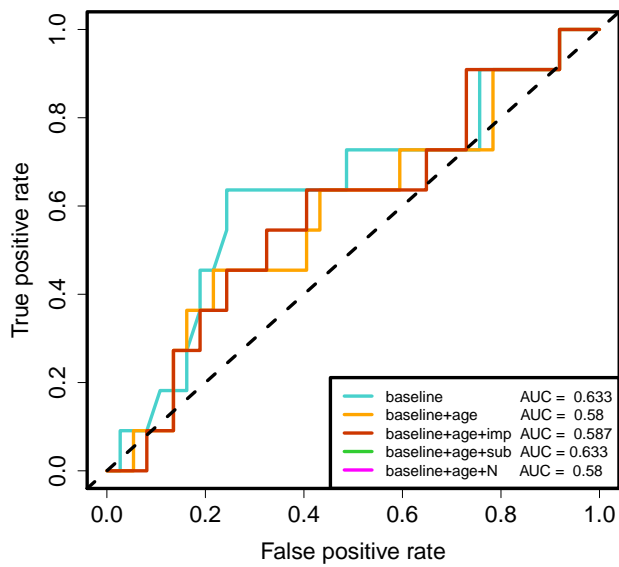




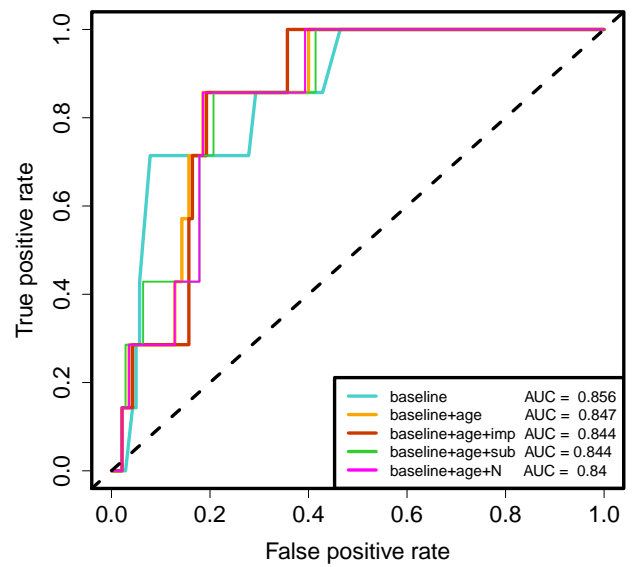
(a) 002 Incidence



(b) 002 Duration



(c) 003 ICU



(d) 003 Death

Figure 5: ROC curve and AUC Values