# Comparison from Stata mimix output with R output for selected individuals

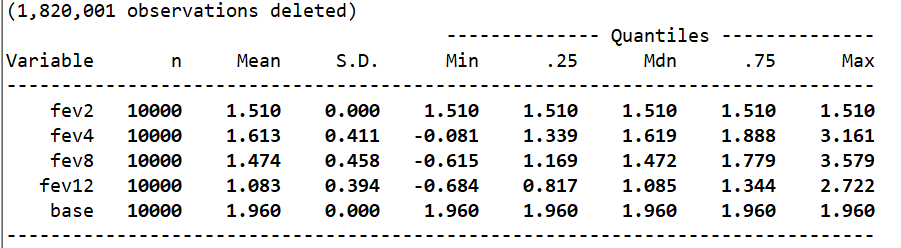
## Estimates for J2R – jump to reference

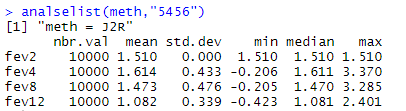
Using Stata command

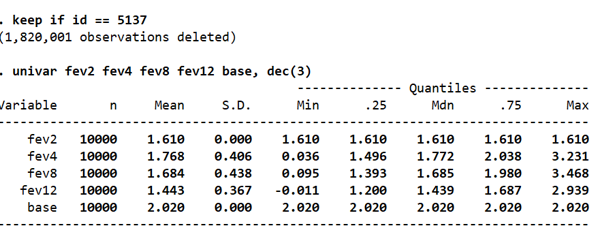
mimix fev treat, id(id) time(time) method(j2r) refgroup(2) covariates(base) clear m(10000) seed(301)

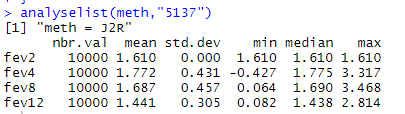
The Following shows Stata output followed by R output, both J2R using seed 301 for given individuals

Figure 1 Figure 16 mimix fev treat, id(id) time(time) method(j2r) refgroup(2) covariates(base) clear m(10000) seed(301) 5456



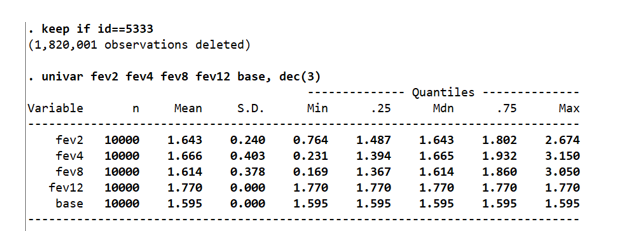


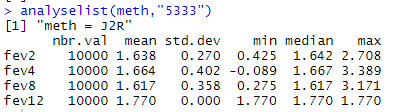




pttestf(10000,10000,1.768,0.406,1.772,0.431)

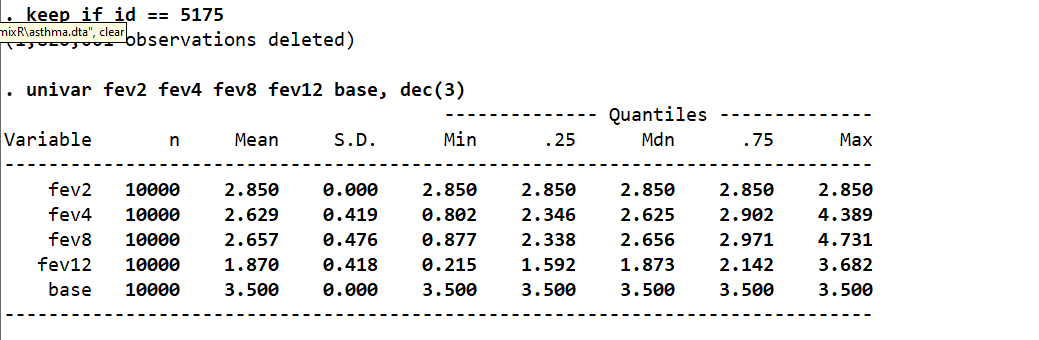
[1] 0.2496679

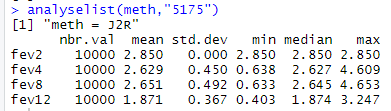


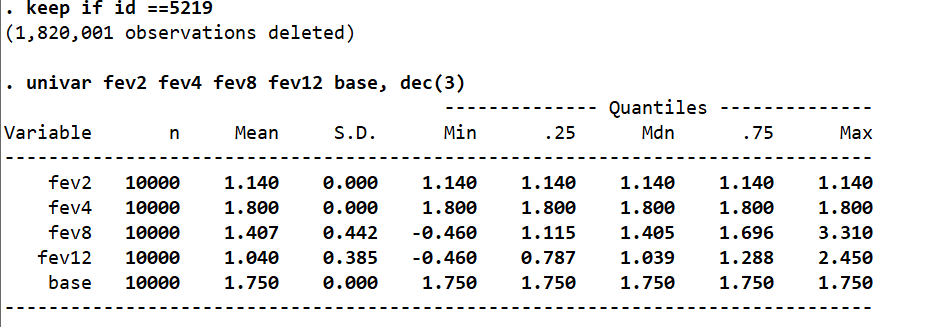


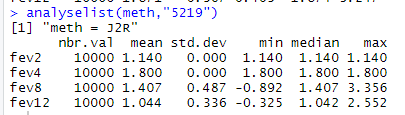
pttestf(10000,10000,1.638,0.27,1.643,0.240)

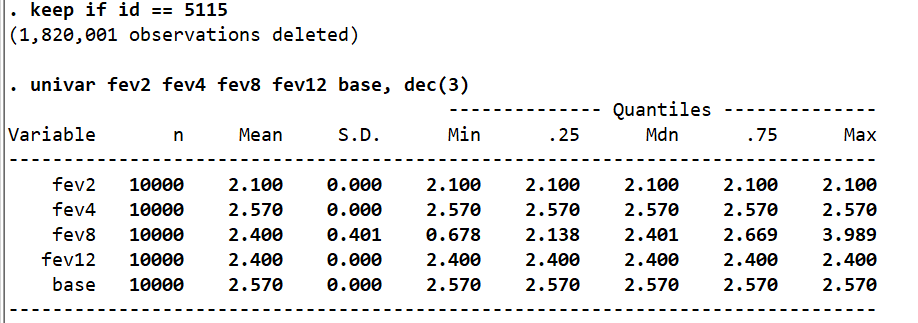
[1] 0.08317297

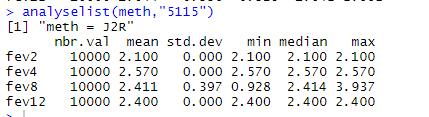












**CIR Copy increments in reference**

Figure 2 mimix fev treat, id(id) time(time) method(cir) refgroup(2) covariates(base) clear m(10000)

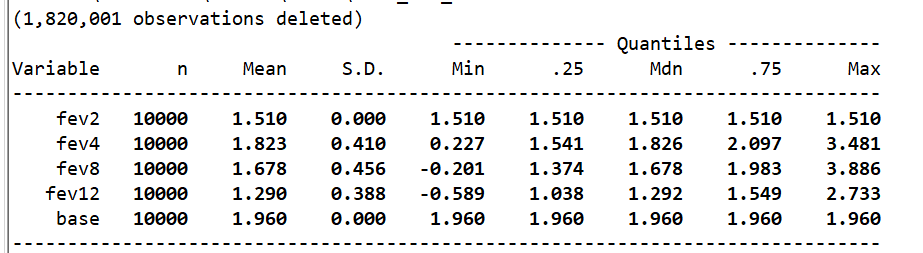


Figure 3 seed =201

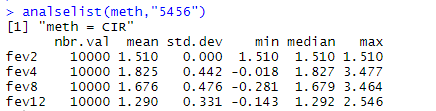
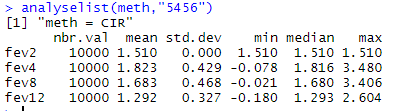


Figure 4 seed = 301



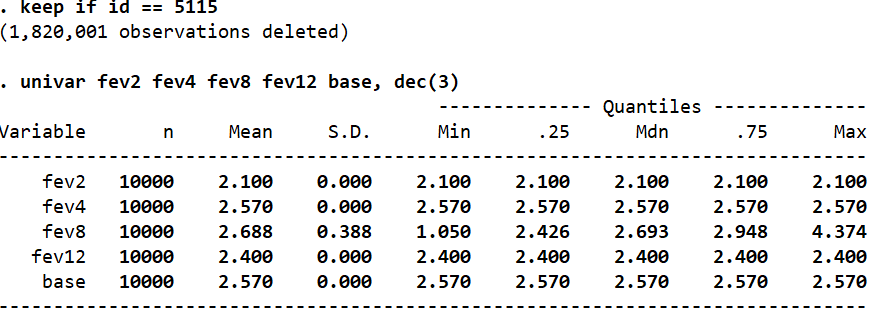


Figure 5 seed 101

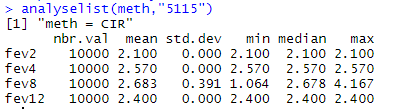
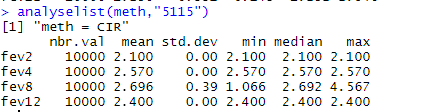


Figure 6 seed =201



**CR Copy Reference**

Figure 7 . mimix fev treat, id(id) time(time) method(cr) refgroup(2) covariates(base) clear m(1000) seed(101)

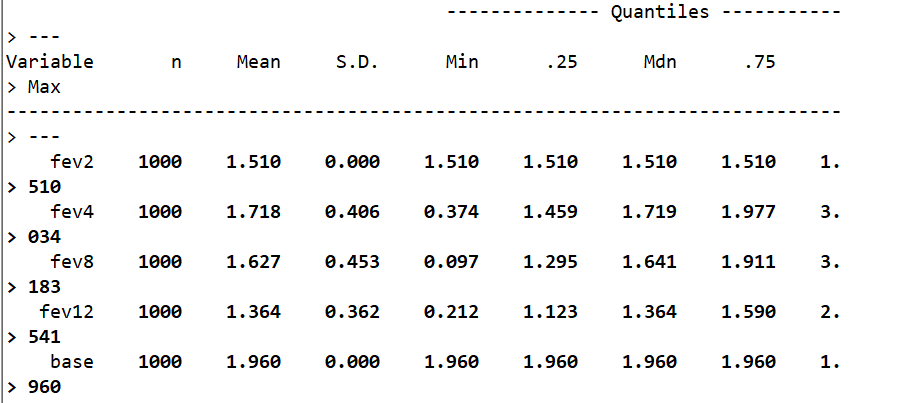
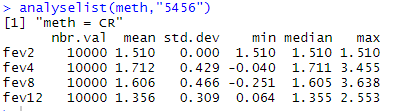
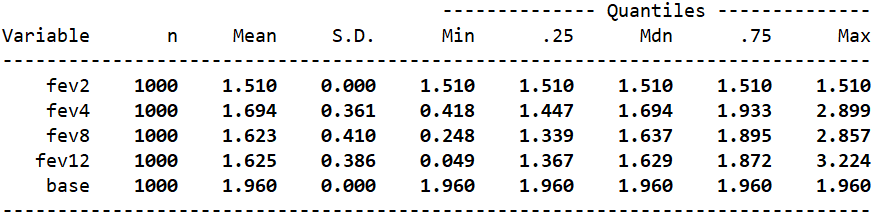


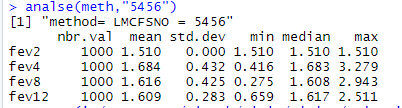
Figure 8 seed 101



## LMCF Last mean carried forward

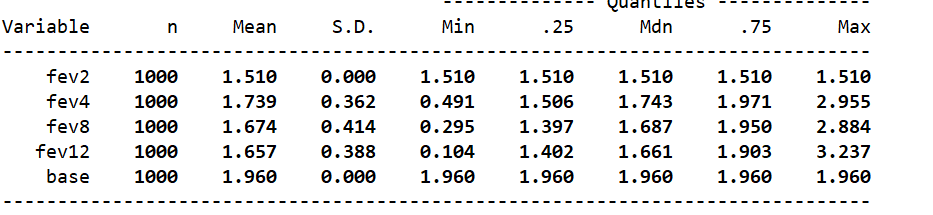
Figure 9 . mimix fev treat, id(id) time(time) method(lmcf) refgroup(2) covariates(base) clear m(1000) seed(101)

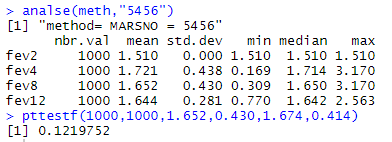




## MAR Missing at random

Figure 10 Figure 11 . mimix fev treat, id(id) time(time) method(mar) refgroup(2) covariates(base) clear m(1000) seed(101)





## Running regressions on imputed data sets

lm(fev12~as.factor(treat)+ base)

# Assign list of input parameters

kmargs <- list("fev","treat","id","time","base",1000,2,"J2R",101)

## J2R – jump to reference

regression coefficient outputs and se’s with different dependent vars

Figure 11 mimix fev treat, id(id) time(time) method(j2r) refgroup(2) covariates(base) clear m(1000) regress seed(101)

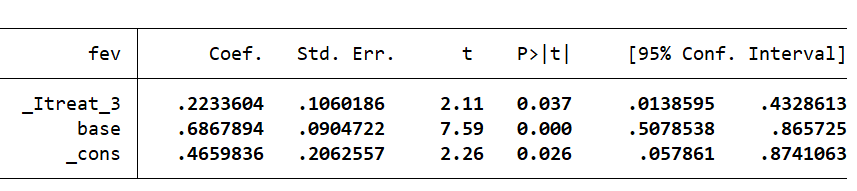


Figure fev12

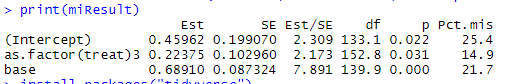


Figure mi estimate:regress fev i.treat base if time == 8

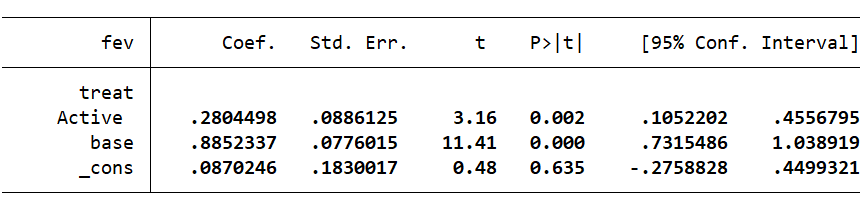


Figure fev8

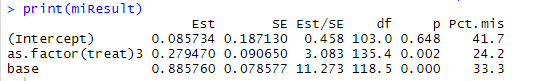


Figure mi estimate:regress fev i.treat base if time == 4

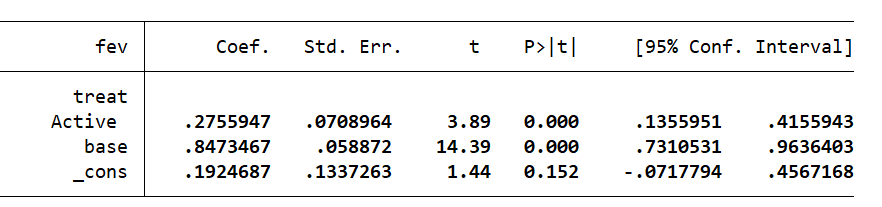


Figure fev4

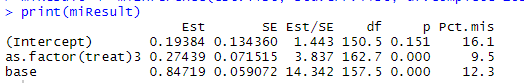


Figure mi estimate:regress fev i.treat base if time == 2

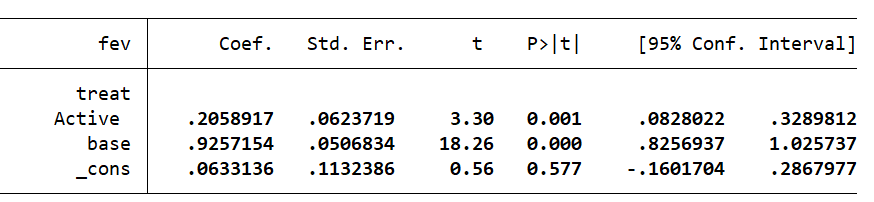
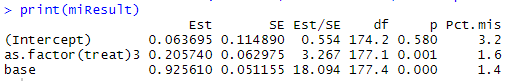


Figure fev2



## CIR

Figure kmargs <- list("fev","treat","id","time","base",1000,2,"CIR",101)

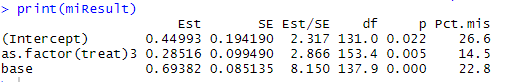
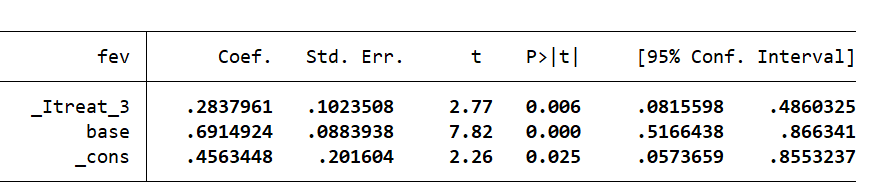


Figure . mimix fev treat, id(id) time(time) method(CIR) refgroup(2) covariates(base) clear m(1000) regress seed(101)



## CR

Figure kmargs <- list("fev","treat","id","time","base",1000,2,"CR",101)

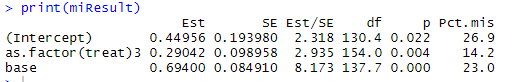
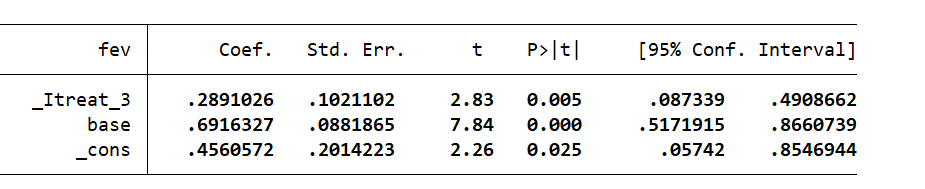


Figure . mimix fev treat, id(id) time(time) method(CR) refgroup(2) covariates(base) clear m(1000) regress seed(101)



## MAR

Figure list("fev","treat","id","time","base",1000,2,"MAR",101)

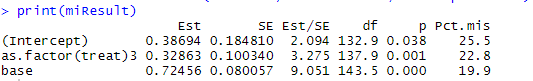
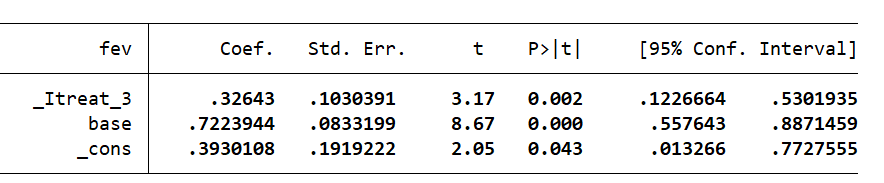


Figure . mimix fev treat, id(id) time(time) method(MAR) refgroup(2) covariates(base) clear m(1000) regress seed(101)



## LMCF with different dependent vars

Figure list("fev","treat","id","time","base",1000,2,"LMCF",101)

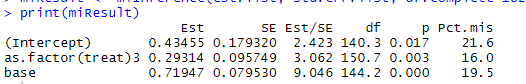




Figure . mimix fev treat, id(id) time(time) method(LMCF) refgroup(2) covariates(base) clear m(1000) regress seed(101)

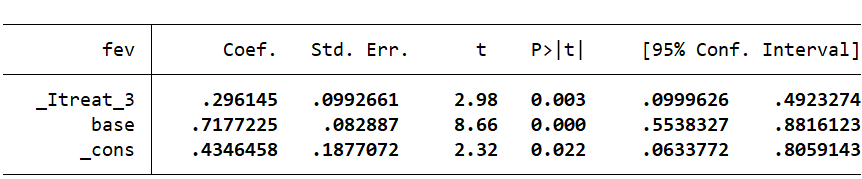


Figure fev8 dependent

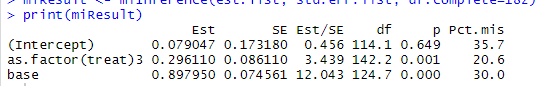
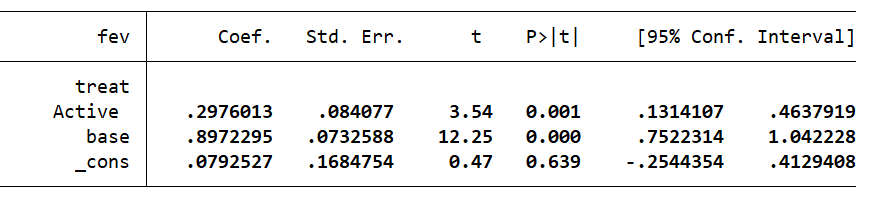


Figure mi estimate:regress fev i.treat base if time == 8

Figure fev4 dependent

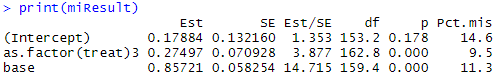
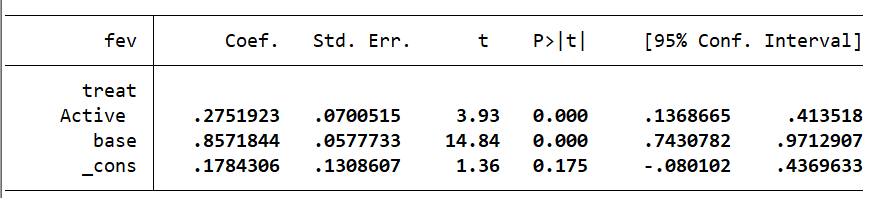


Figure mi estimate:regress fev i.treat base if time == 4

Figure fev2 dependent

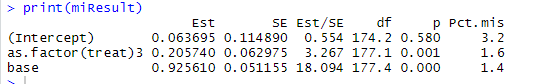


Figure mi estimate:regress fev i.treat base if time == 2

