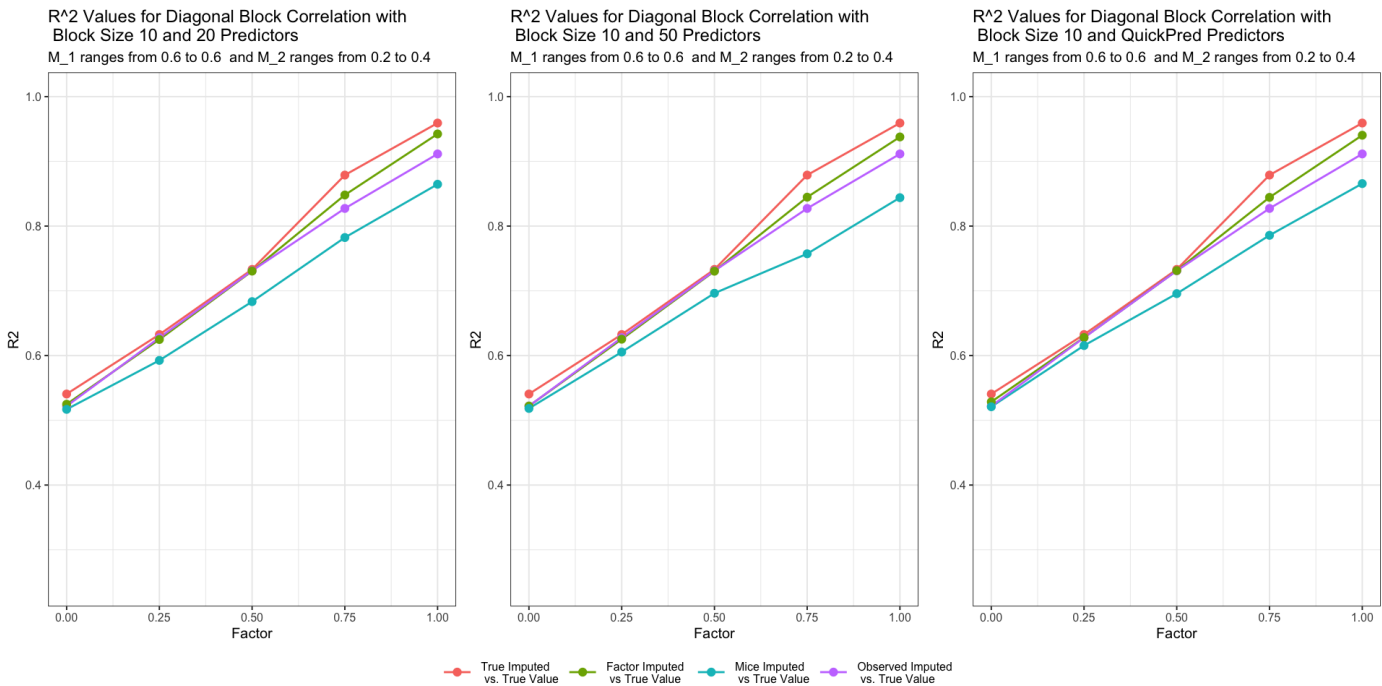
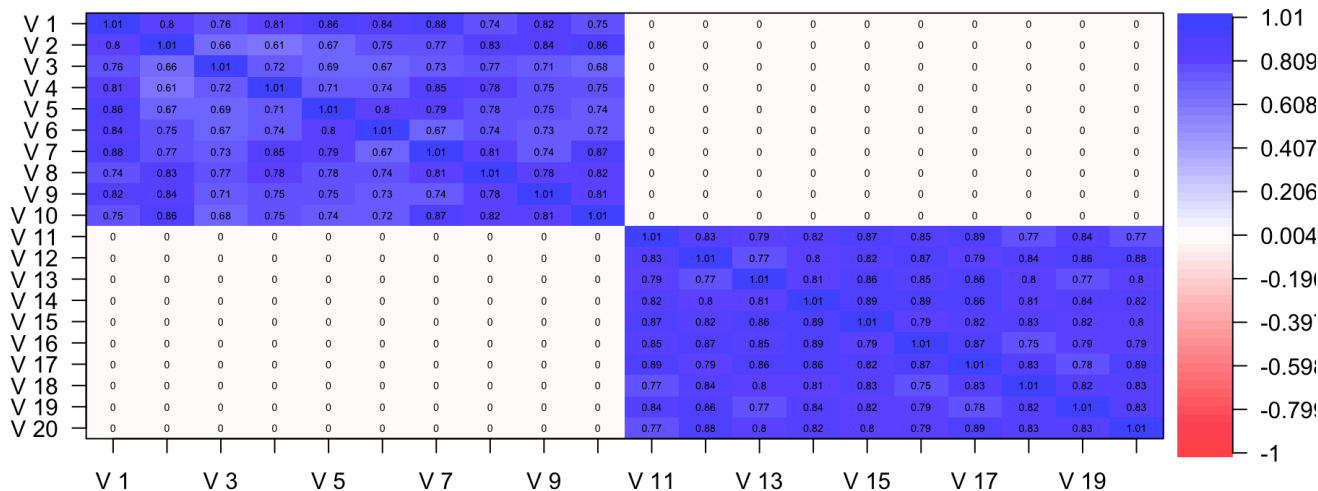


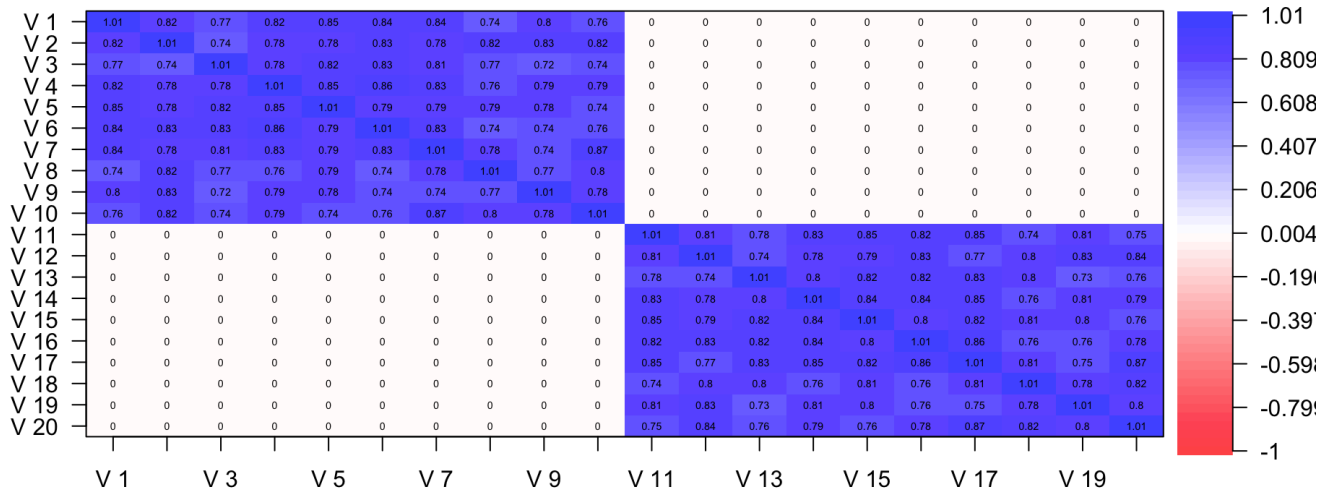
Simulation Comparing Factor Analysis, Mice, Average, and Truth



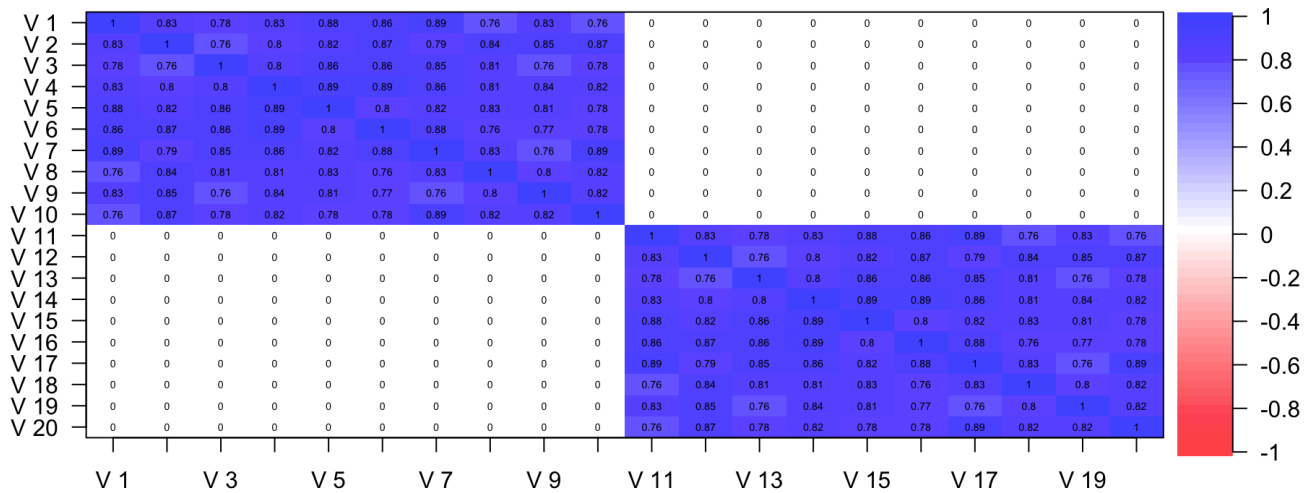
Mice Median Correlation V3-V6 Removed. True Factor = 1



Factor Analysis Correlation V3-V6 Removed. True Factor = 1

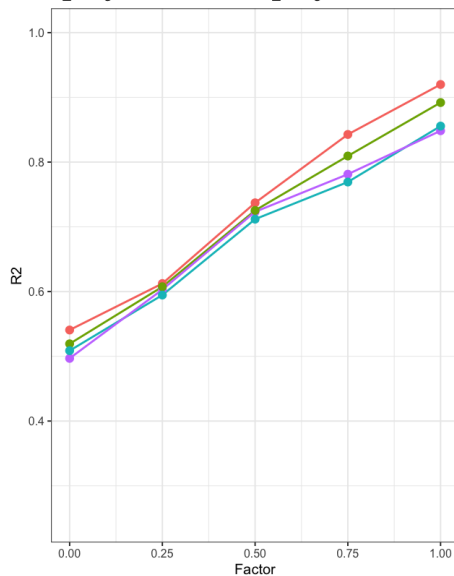


True Correlation V3-V6 Removed. True Factor = 1



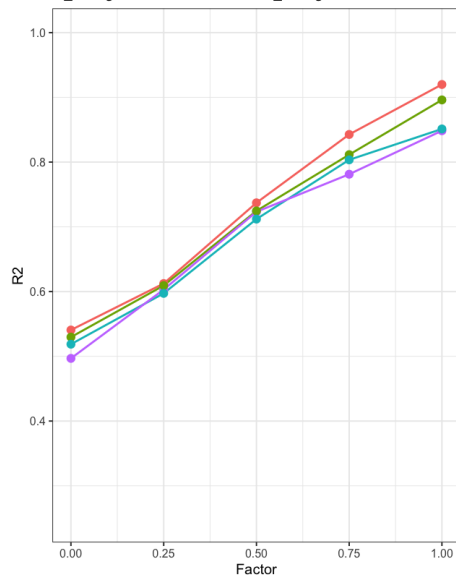
R² Values for Diagonal Block Correlation with Block Size 10 and 20 Predictors

M₁ ranges from 0.6 to 0.6 and M₂ ranges from 0 to 0.4



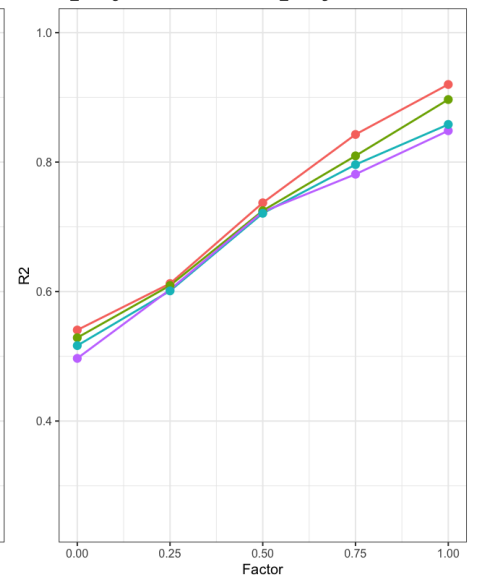
R² Values for Diagonal Block Correlation with Block Size 10 and 50 Predictors

M₁ ranges from 0.6 to 0.6 and M₂ ranges from 0 to 0.4



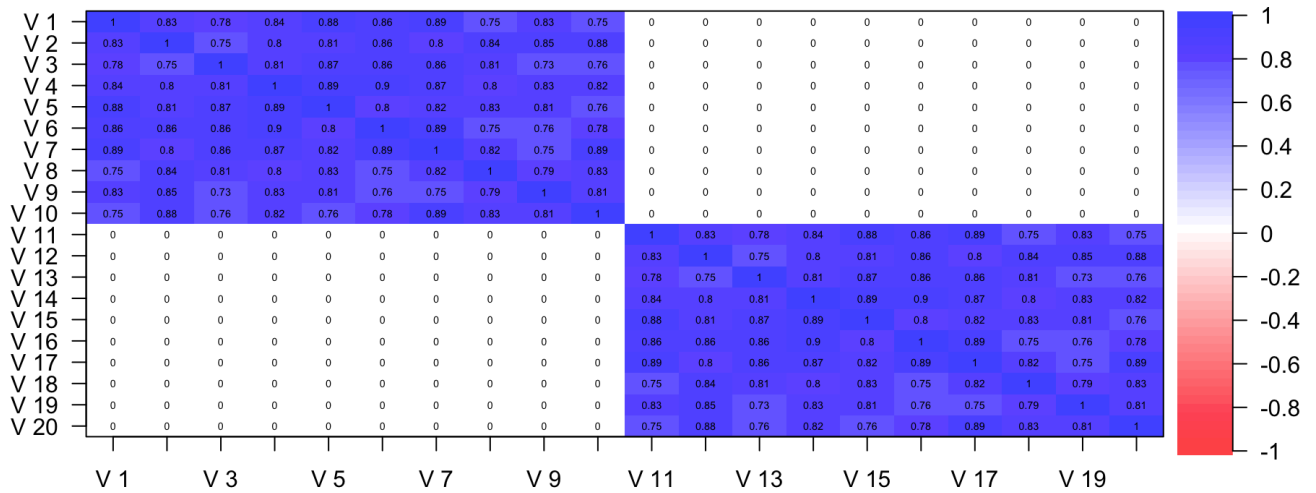
R² Values for Diagonal Block Correlation with Block Size 10 and QuickPred Predictors

M₁ ranges from 0.6 to 0.6 and M₂ ranges from 0 to 0.4

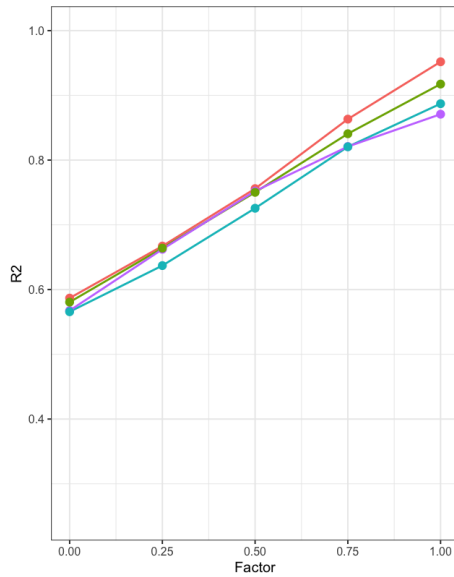


True Imputed vs. True Value Factor Imputed vs. True Value Mice Imputed vs. True Value Observed Imputed vs. True Value

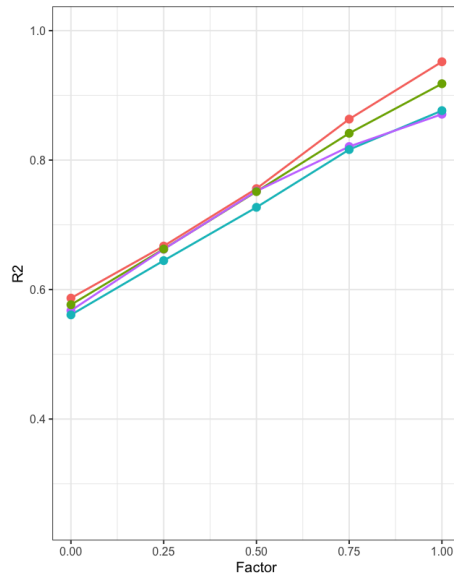
True Correlation V3-V6 Removed. True Factor = 1



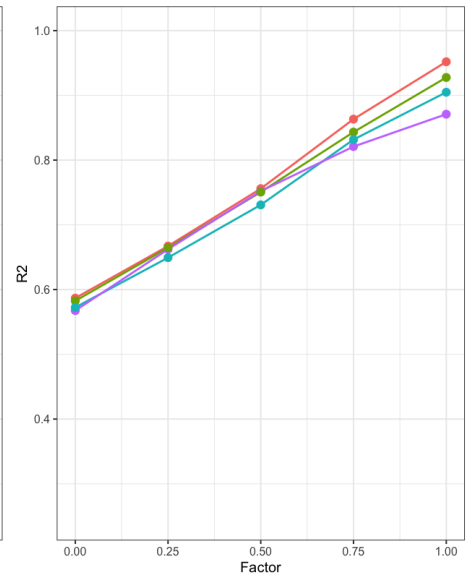
R² Values for Diagonal Block Correlation with Block Size 10 and 20 Predictors
M₁ ranges from 0.5 to 0.7 and M₂ ranges from 0.1 to 0.3



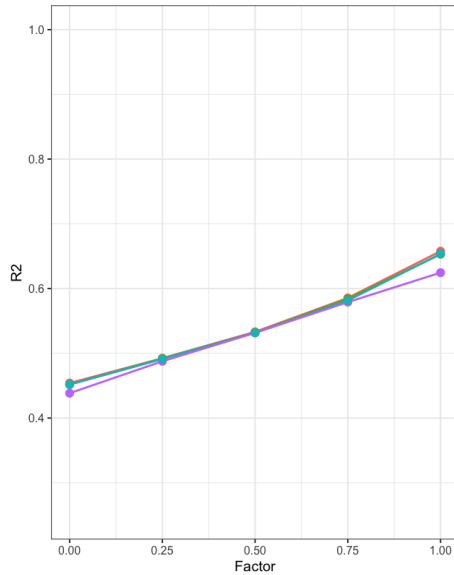
R² Values for Diagonal Block Correlation with Block Size 10 and 50 Predictors
M₁ ranges from 0.5 to 0.7 and M₂ ranges from 0.1 to 0.3



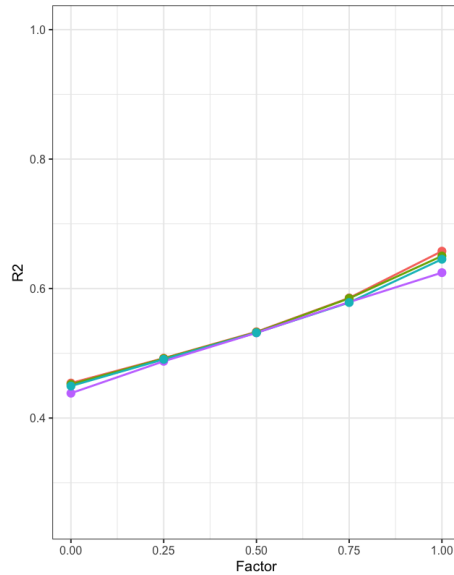
R² Values for Diagonal Block Correlation with Block Size 10 and QuickPred Predictors
M₁ ranges from 0.5 to 0.7 and M₂ ranges from 0.1 to 0.3



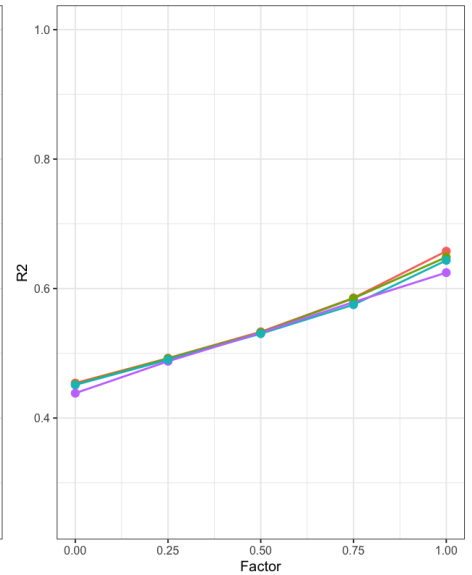
R² Values for Diagonal Block Correlation with Block Size 4 and 20 Predictors
M₁ ranges from 0.6 to 0.6 and M₂ ranges from 0 to 0.4



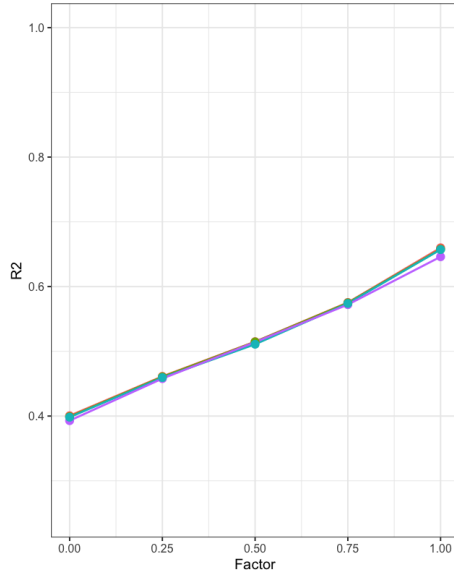
R² Values for Diagonal Block Correlation with Block Size 4 and 50 Predictors
M₁ ranges from 0.6 to 0.6 and M₂ ranges from 0 to 0.4



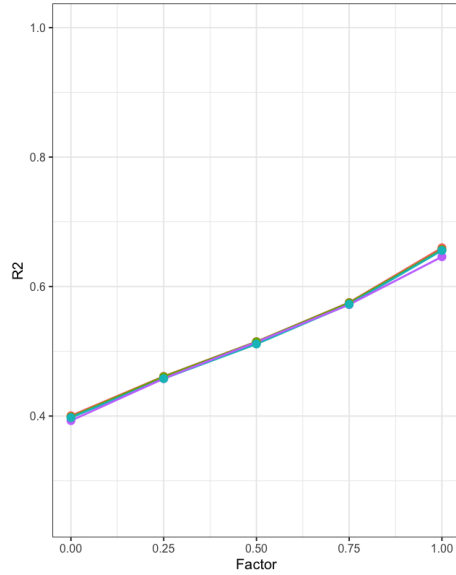
R² Values for Diagonal Block Correlation with Block Size 4 and QuickPred Predictors
M₁ ranges from 0.6 to 0.6 and M₂ ranges from 0 to 0.4



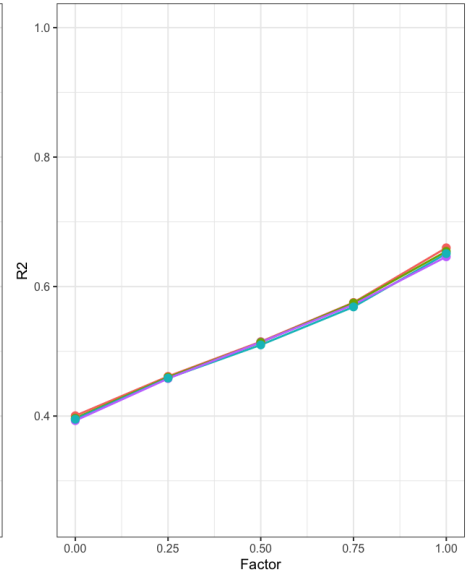
R² Values for Diagonal Block Correlation with Block Size 4 and 20 Predictors
M₁ ranges from 0.5 to 0.7 and M₂ ranges from 0.1 to 0.3



R² Values for Diagonal Block Correlation with Block Size 4 and 50 Predictors
M₁ ranges from 0.5 to 0.7 and M₂ ranges from 0.1 to 0.3

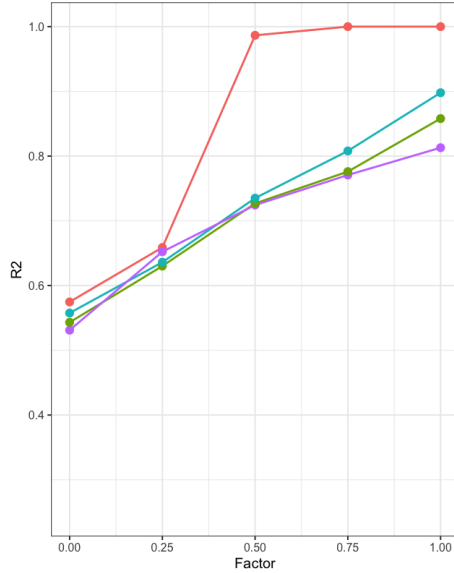


R² Values for Diagonal Block Correlation with Block Size 4 and QuickPred Predictors
M₁ ranges from 0.5 to 0.7 and M₂ ranges from 0.1 to 0.3

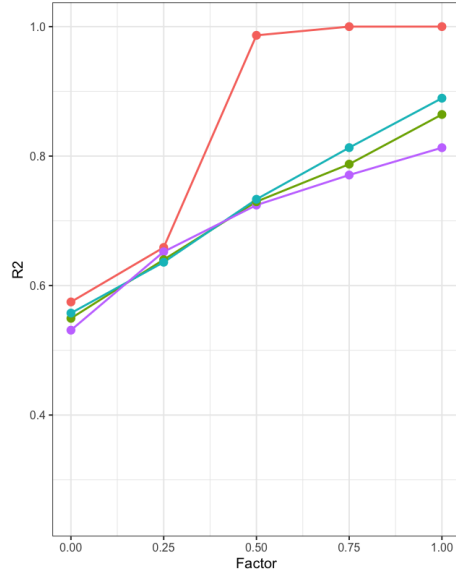


True Imputed vs. True Value Factor Imputed vs. True Value Mice Imputed vs. True Value Observed Imputed vs. True Value

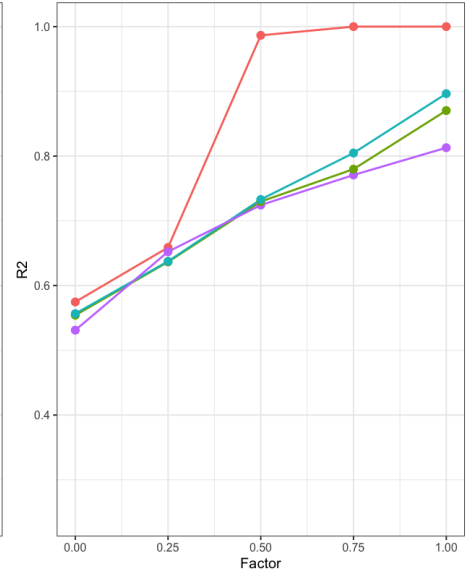
R² Values for Autoregressive Correlation with 20 Predictors
Rho1 = 0.8 and Rho2 = 0.2



R² Values for Autoregressive Correlation with 50 Predictors
Rho1 = 0.8 and Rho2 = 0.2

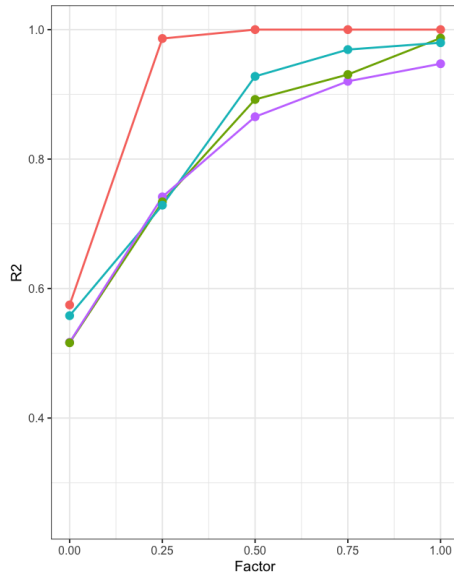


R² Values for Autoregressive Correlation with QuickPred Predictors
Rho1 = 0.8 and Rho2 = 0.2

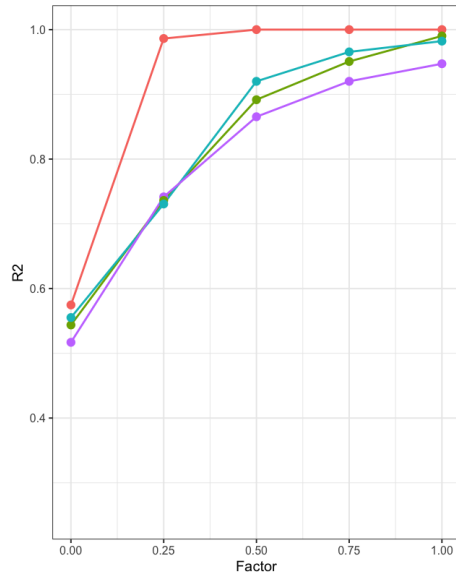


True Imputed vs. True Value Factor Imputed vs. True Value Mice Imputed vs. True Value Observed Imputed vs. True Value

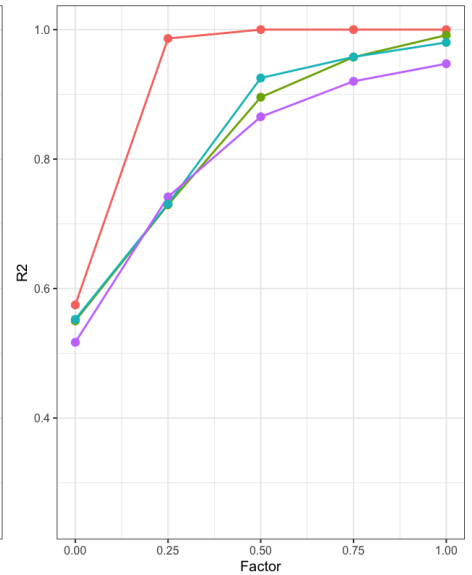
R² Values for Autoregressive Correlation with 20 Predictors
Rho1 = 0.8 and Rho2 = 0.4



R² Values for Autoregressive Correlation with 50 Predictors
Rho1 = 0.8 and Rho2 = 0.4

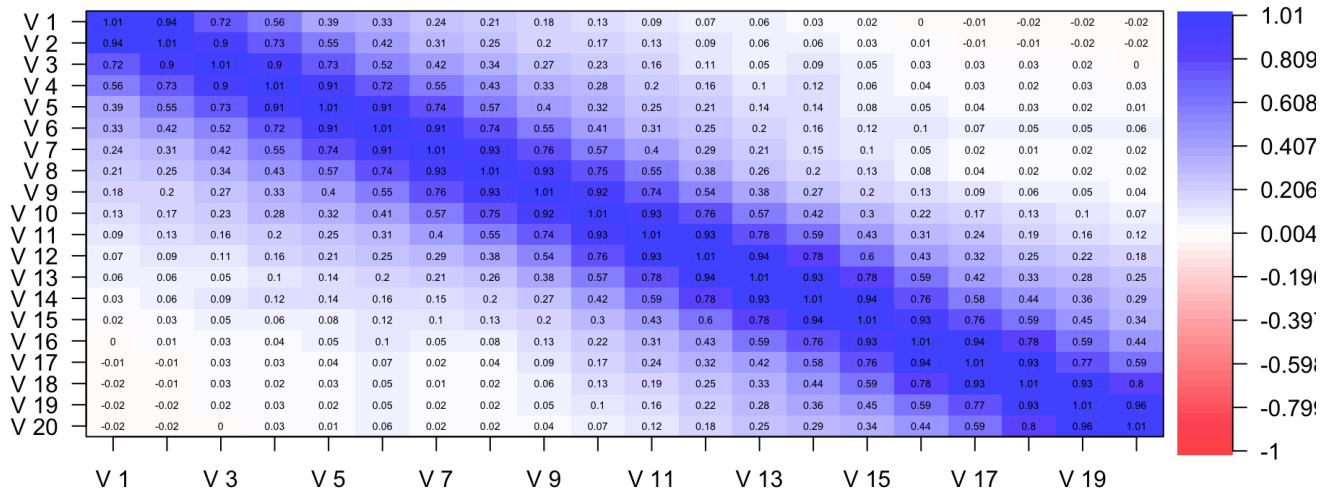


R² Values for Autoregressive Correlation with QuickPred Predictors
Rho1 = 0.8 and Rho2 = 0.4

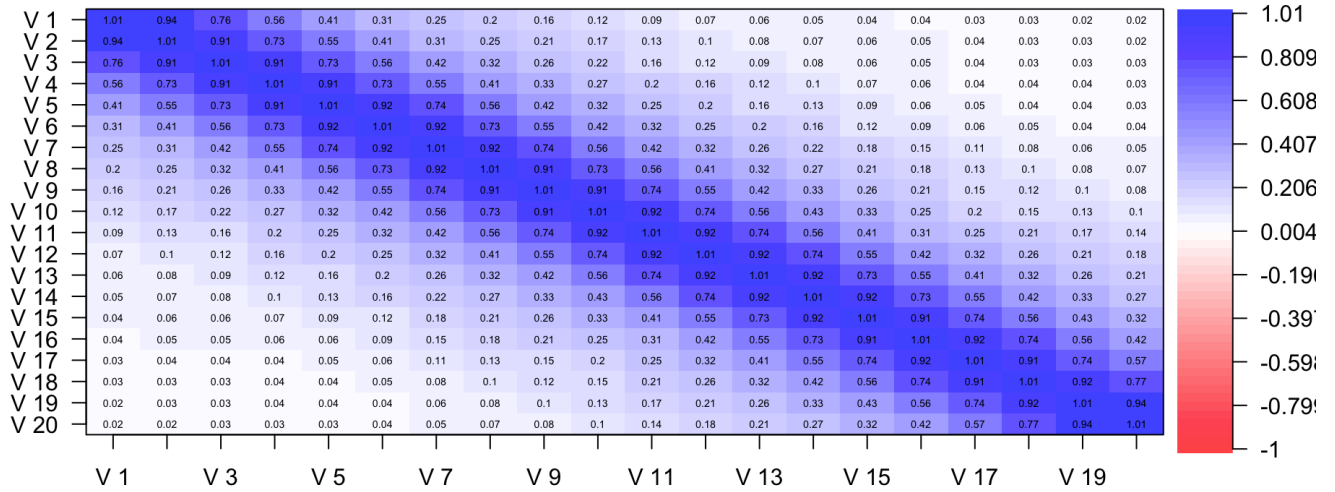


True Imputed vs. True Value Factor Imputed vs. True Value Mice Imputed vs. True Value Observed Imputed vs. True Value

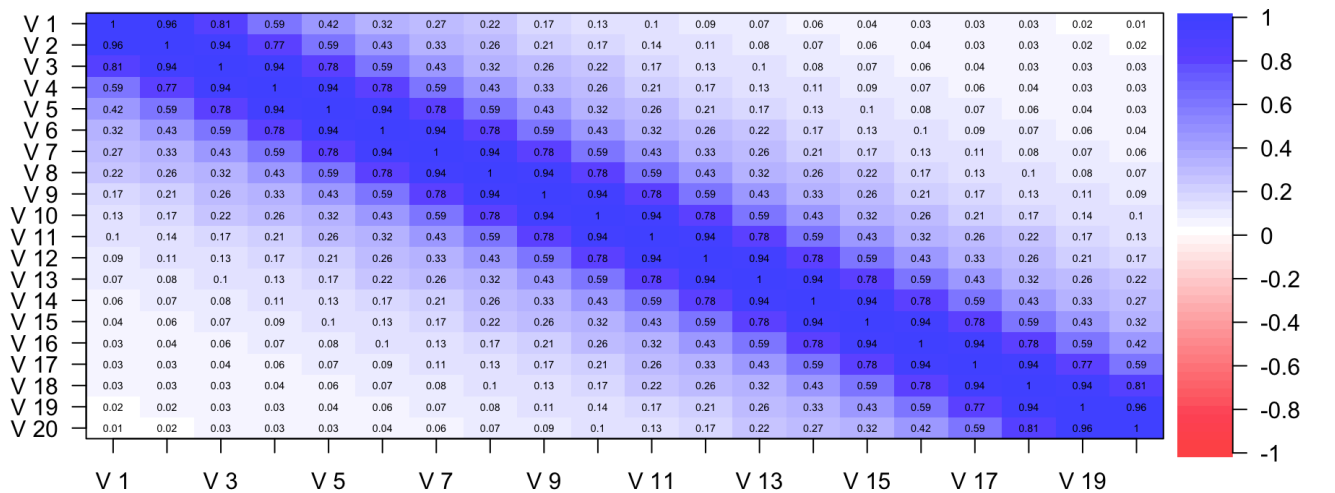
Mice Median Correlation V3-V6 Removed. True Factor = 1

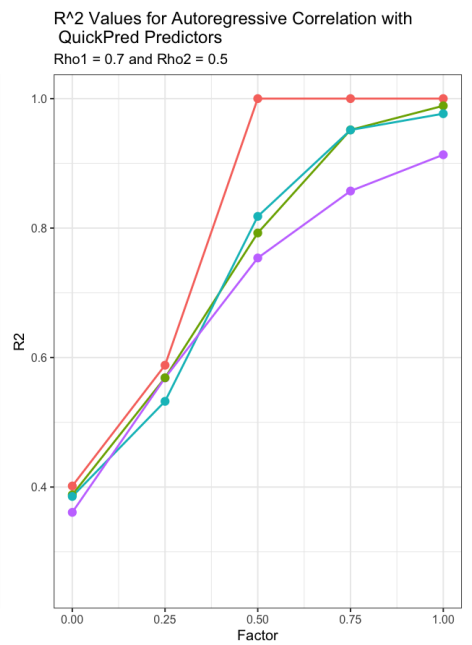
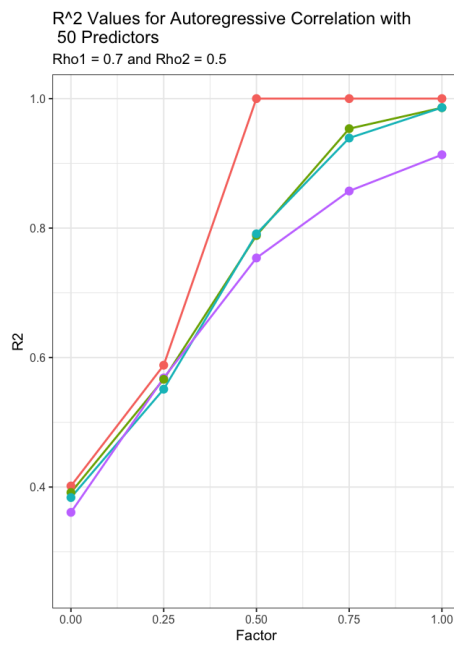
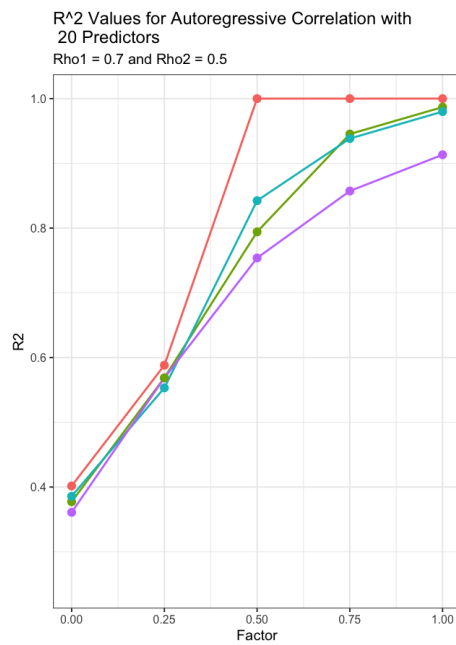
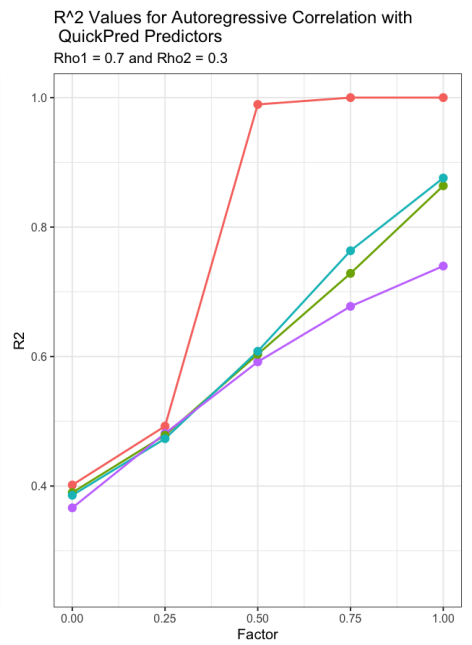
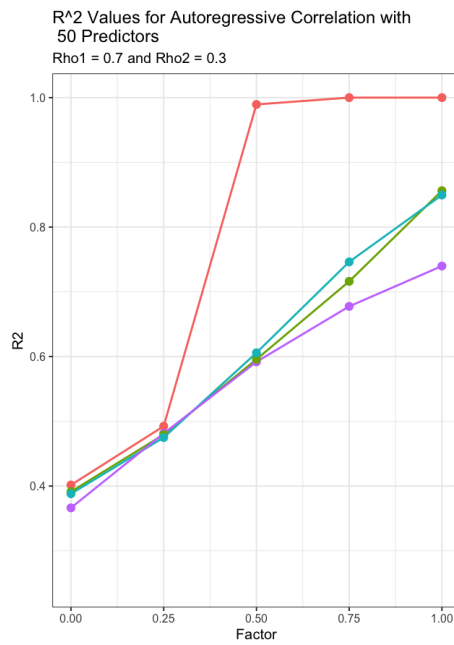
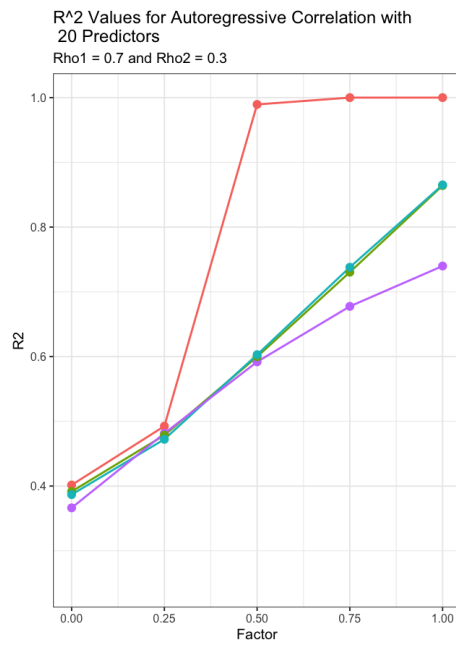


Factor Analysis Correlation V3-V6 Removed. True Factor = 1



True Correlation V3-V6 Removed. True Factor = 1





True Imputed vs. True Value Factor Imputed vs True Value Mice Imputed vs True Value Observed Imputed vs. True Value

True Imputed vs. True Value Factor Imputed vs True Value Mice Imputed vs True Value Observed Imputed vs. True Value

```
# ###FOR Sensitivity Analysis
# for (i in seq(1,24,4)){
#   print(ggarrange(plot_list[[i]],
#     plot_list[[i+1]],
#     plot_list[[i+2]], ncol=3, common.legend = TRUE, legend="bottom",align = c("h")))
# }
```

```

###FOR from truth

# cor.plot(data_frame_list[[2]][[3]][,3],
#           main = "ATBC True Correlation")
#
#
# cor.plot(data_frame_list[[52]][[3]][,3],
#           main = "PLCO True Correlation")
#
#
# for (i in seq(1,44,4)){
#   print(annotate_figure(ggarrange(plot_list[[i]],
#                                   plot_list[[i+2]],
#                                   ncol=2, common.legend = TRUE, legend="bottom",align = c("hv")),top = "A
TBC"))
#   print(annotate_figure(ggarrange(plot_list[[i+50]],
#                                   plot_list[[i+2+50]],
#                                   ncol=2, common.legend = TRUE, legend="bottom",align = c("hv")),top = "P
LCO"))
#
#   # if (i == 9){
#     #   cor.plot(data_frame_list[[i+1]][[2]][,1], main = "Mice Median Correlsation for Factor = 0")
#     #   cor.plot(data_frame_list[[i+1]][[1]][,1], main = "Factor Analysis Correlation for Factor = 0")
#     #   cor.plot(data_frame_list[[i+1]][[3]][,1], main = "True Correlation for Factor = 0")
#     # }
# }

```