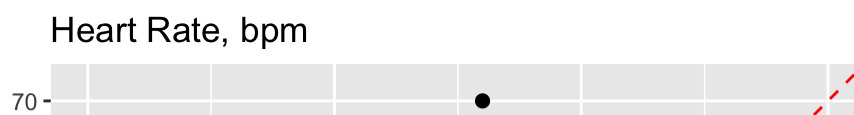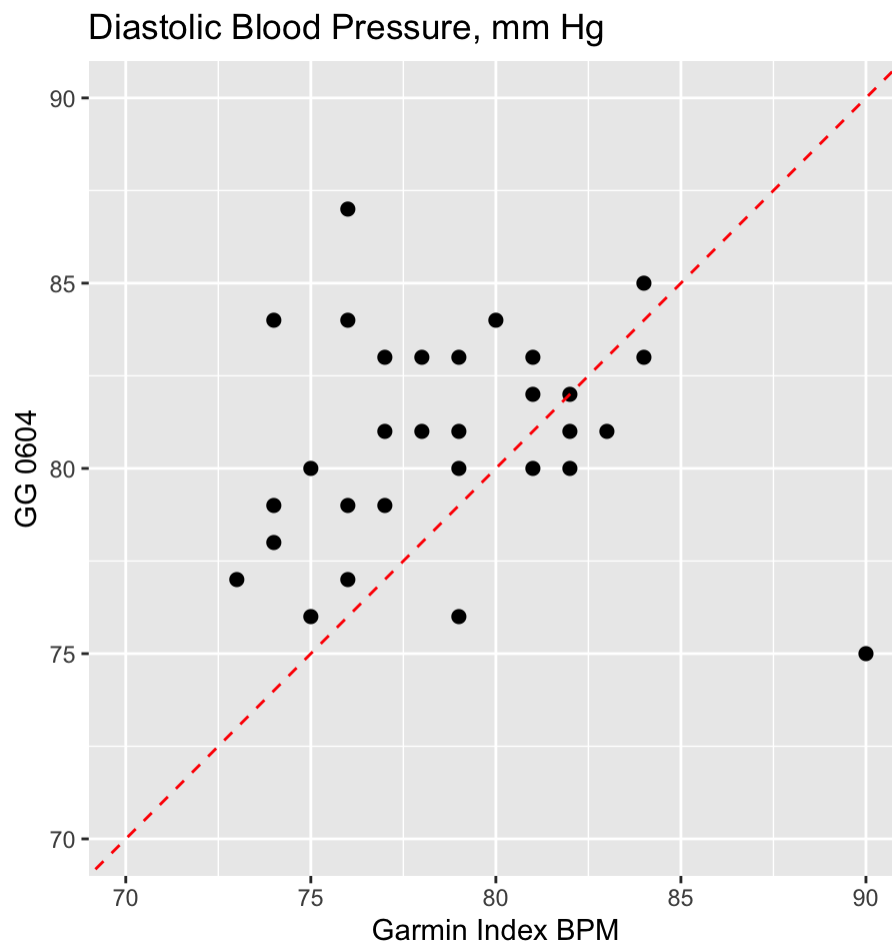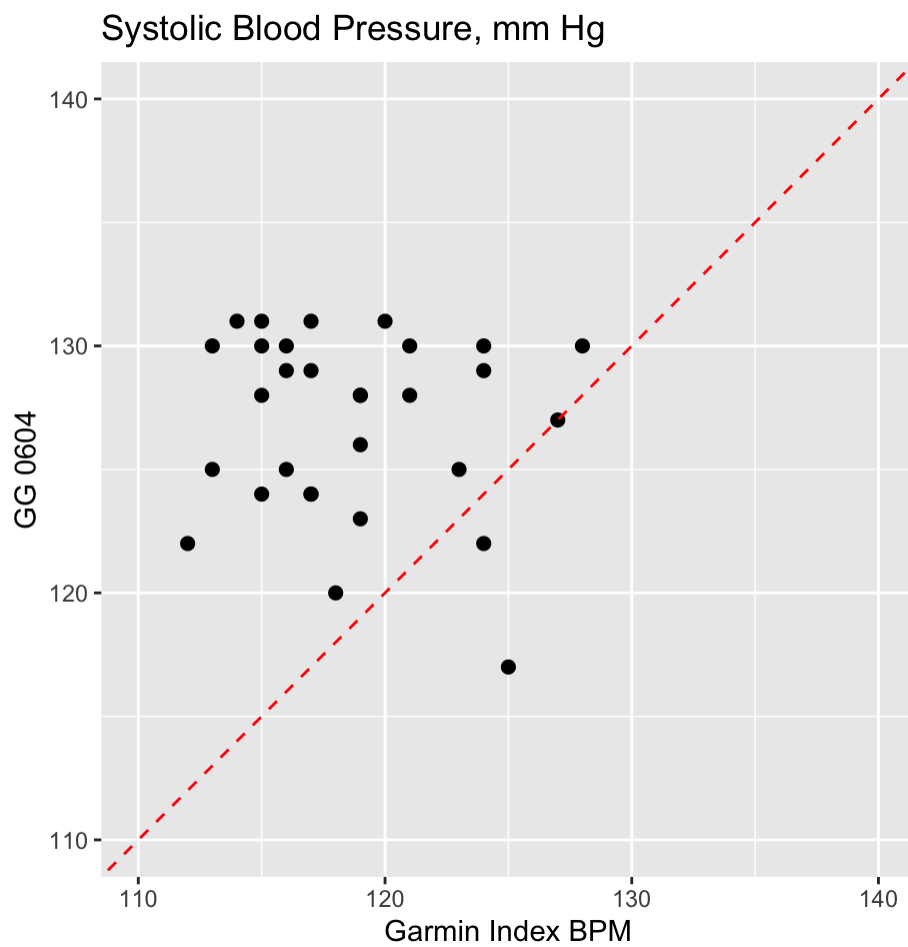# Garmin Index BPM vs GG Balance 0604

Code ▾

**Jose A, Hernandez**

2022-11-22

## Summary Statistics
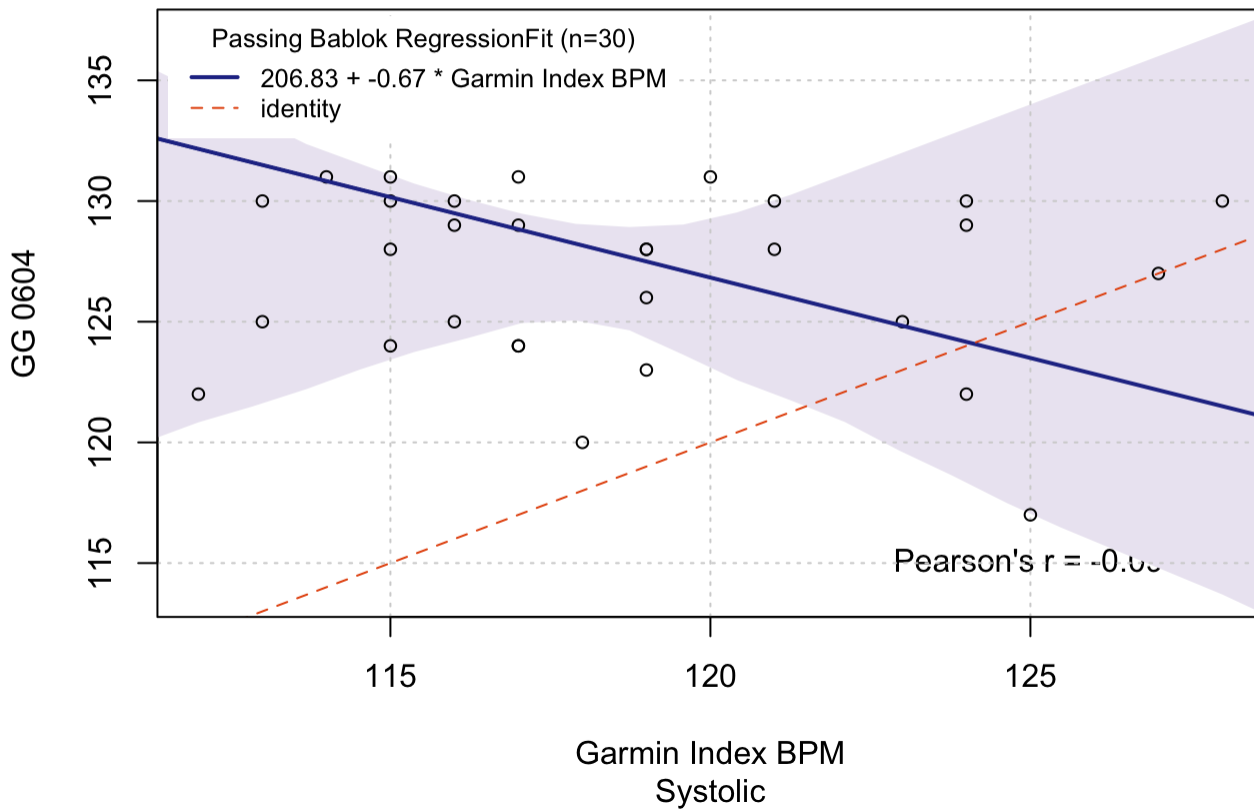
## 1:1 Comparision

Systolic Blood Pressure, mm Hg



Diastolic Blood Pressure, mm Hg



Heart Rate, bpm
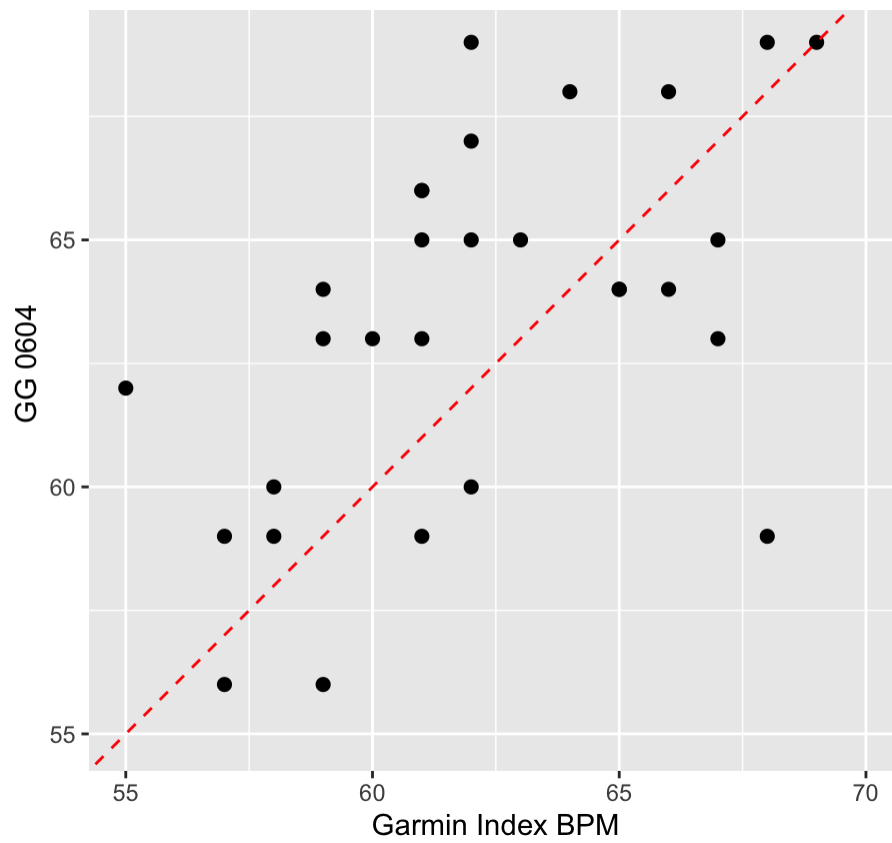
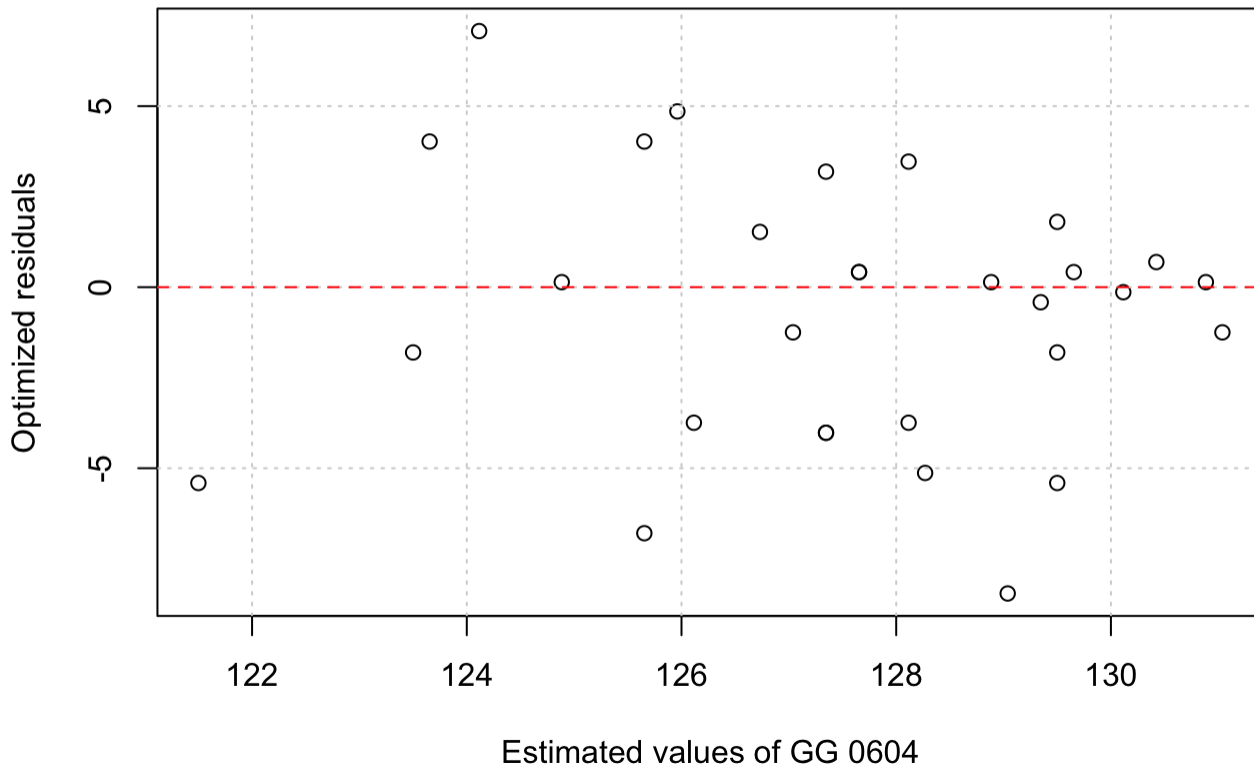Passing Bablok regression and Bland-Altman plots:

# Passing Bablok Regression Fit



Passing Bablok RegressionFit (n=30)

— 206.83 + -0.67 * Garmin Index BPM
-- identity

Pearson's r = -0.0⎕

GG 0604

Garmin Index BPM
Systolic

# Residual plot for Passing Bablok Regression Fit



Optimized residuals

Estimated values of GG 0604

# Difference plot

## Passing Bablok Regression Fit

# Residual plot for Passing Bablok Regression Fit



Optimized residuals

Estimated values of GG 0604

# Difference plot



GG 0604 - Garmin Index BPM

+ 2 SD
11.37

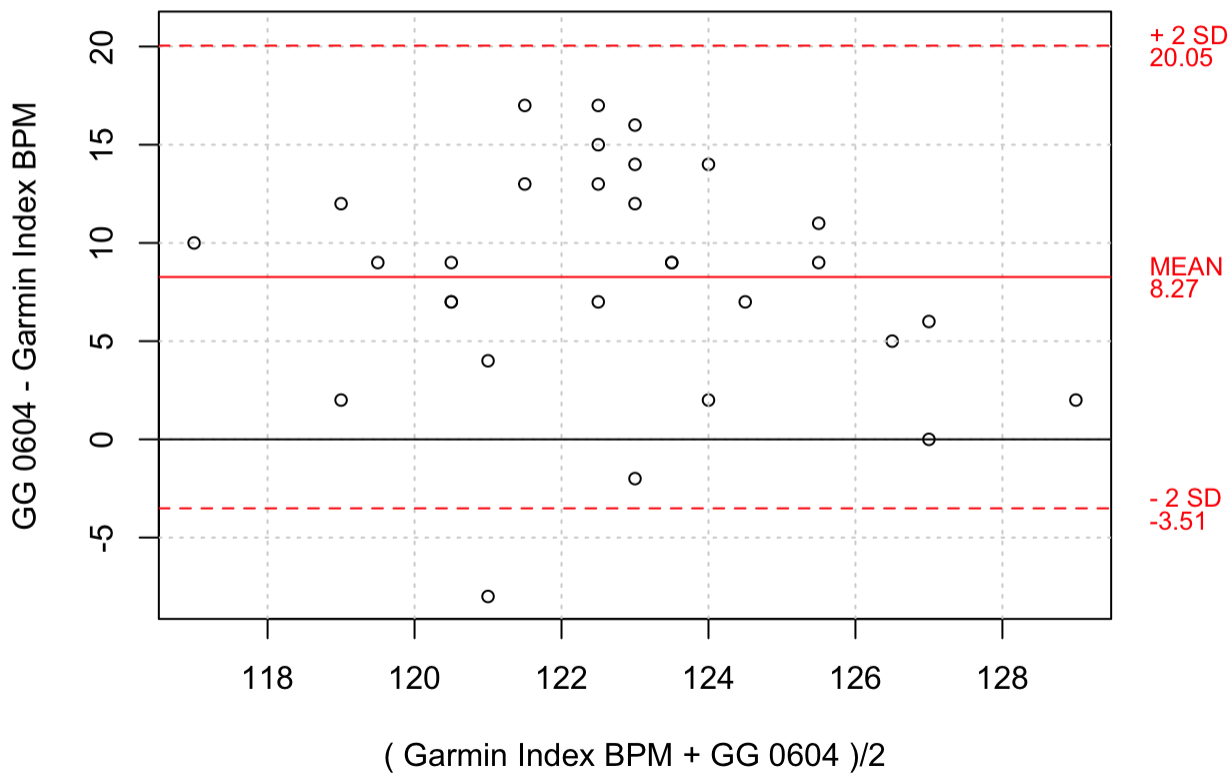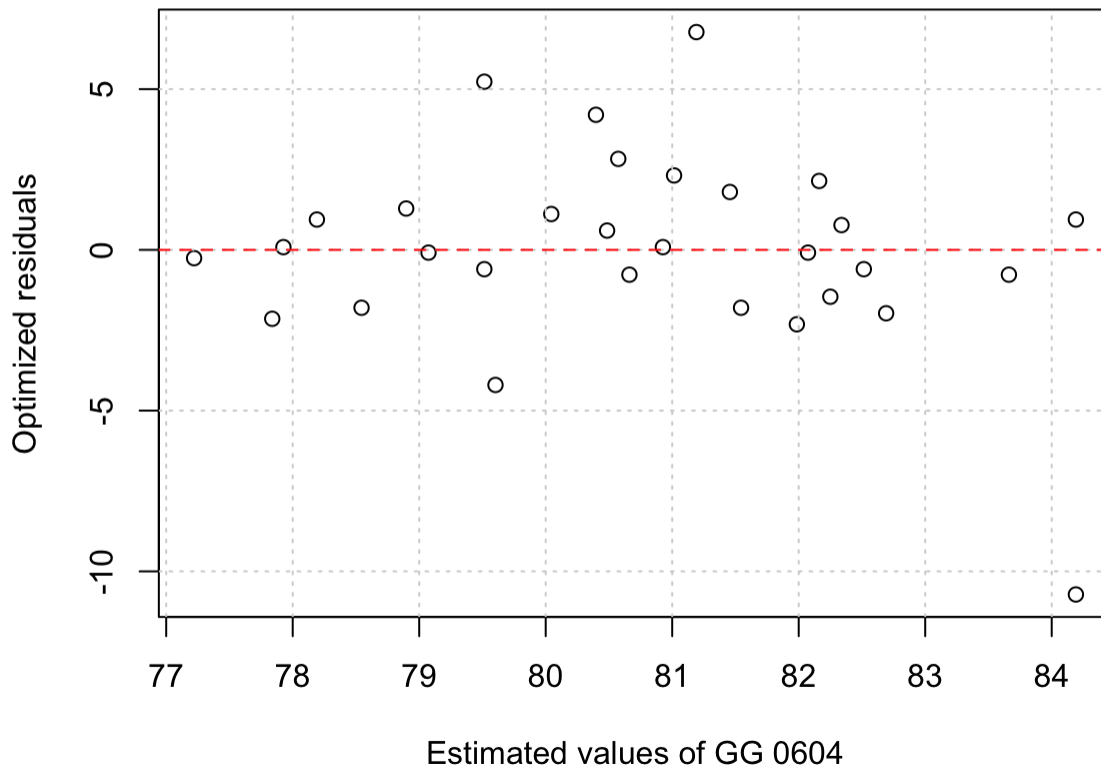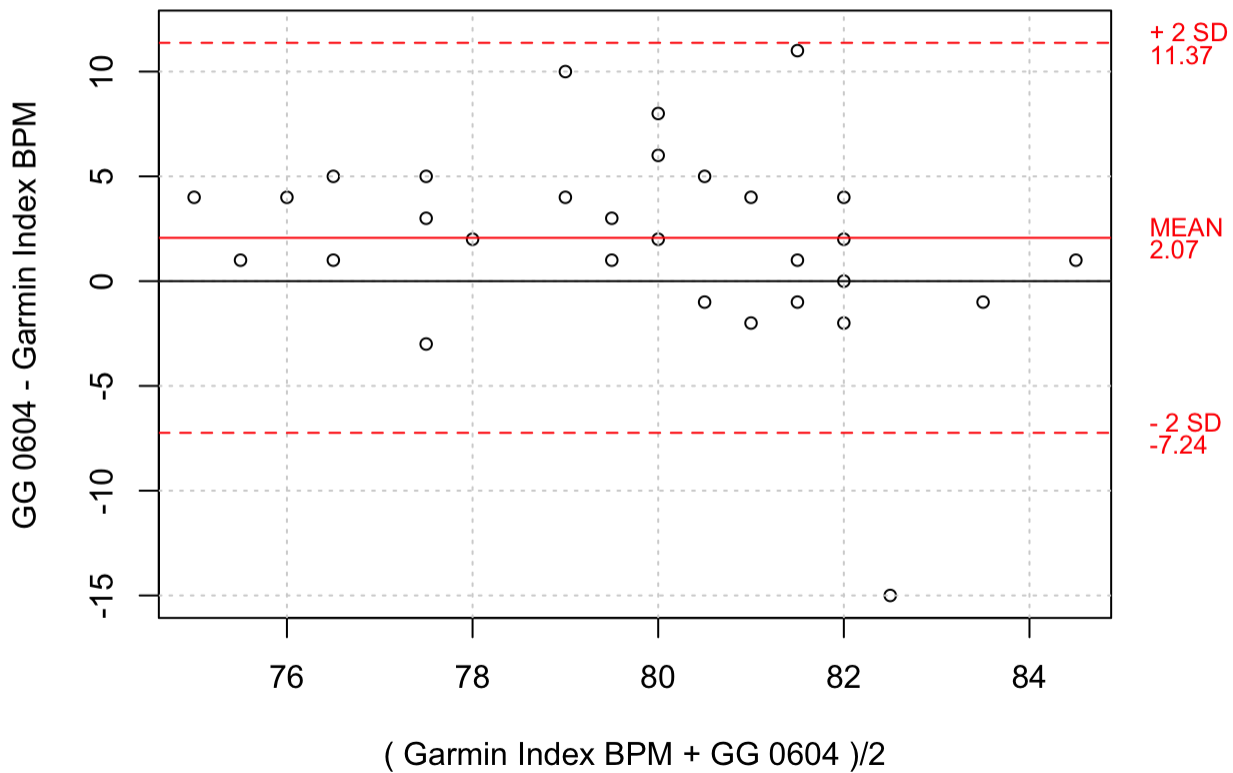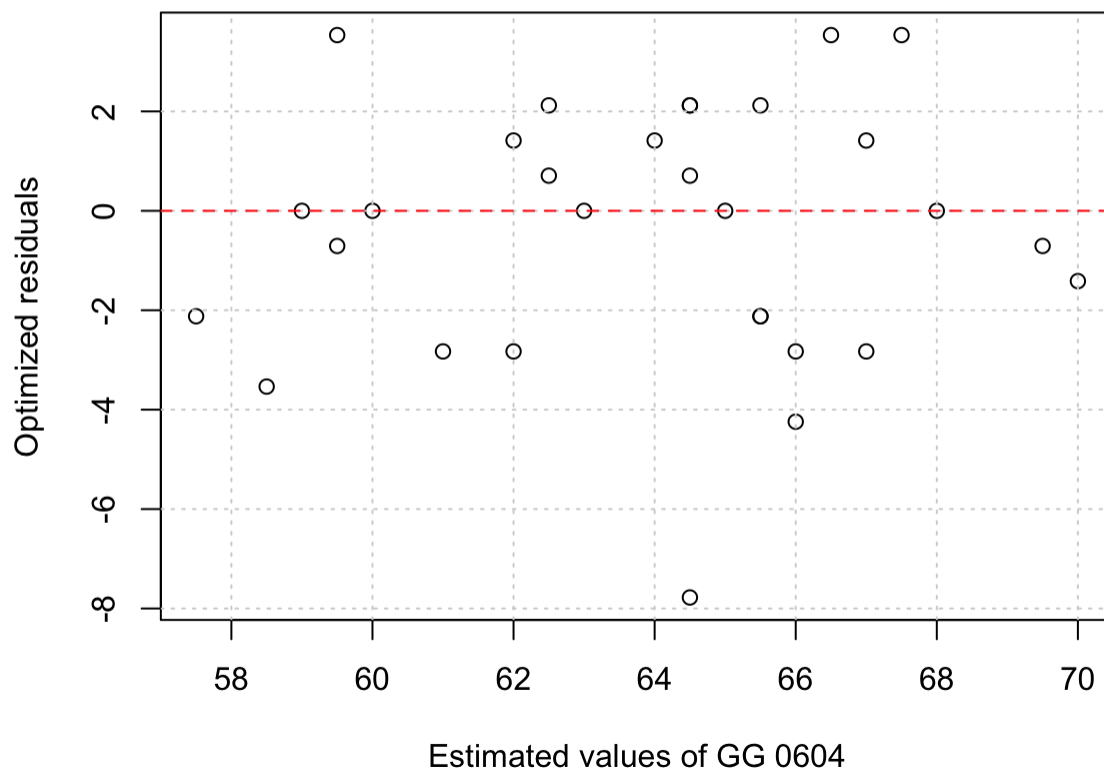MEAN
2.07

- 2 SD
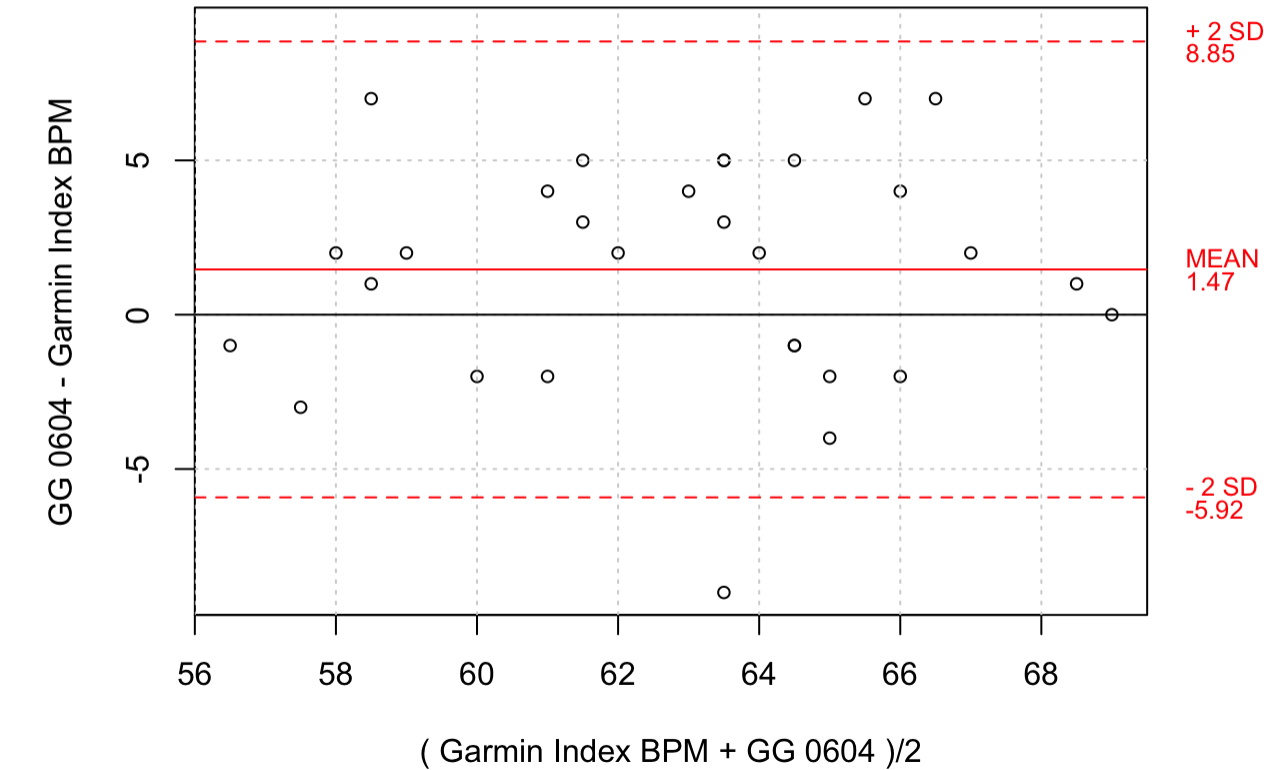-7.24

( Garmin Index BPM + GG 0604 )/2

# Passing Bablok Regression Fit
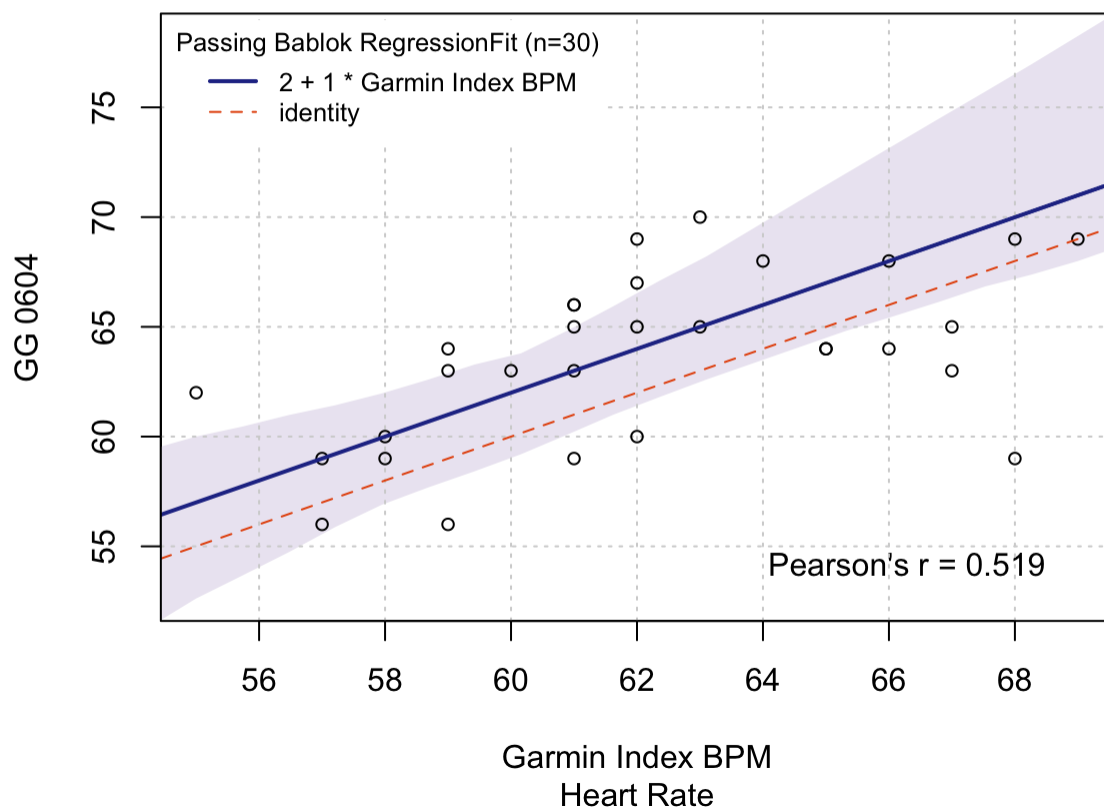


# Residual plot for Passing Bablok Regression Fit

## Difference plot



# Accuracy Metrics

Blood Pressure Accuracy Metrics

|                  | n  | MAE   | MAPE  | RMSE   | R2    |
|------------------|----|-------|-------|--------|-------|
| Systolic, mm Hg  | 30 | 8.933 | 0.070 | 10.093 | 0.009 |
| Diastolic, mm Hg | 30 | 3.733 | 0.046 | 5.020  | 0.003 |
| HR, BPM          | 30 | 3.267 | 0.051 | 3.916  | 0.269 |