> age4.mod<-lm(age.4~temp\*treatment,data=data)

> anova(age4.mod)

Analysis of Variance Table

Response: age.4

Df Sum Sq Mean Sq F value Pr(>F)

temp 1 481168 481168 845.5097 < 2e-16 \*\*\*

treatment 1 96041 96041 168.7640 < 2e-16 \*\*\*

temp:treatment 1 4469 4469 7.8523 0.00543 \*\*

Residuals 280 159344 569

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(age4.mod)

Call:

lm(formula = age.4 ~ temp \* treatment, data = data)

Residuals:

Min 1Q Median 3Q Max

-62.662 -15.532 -0.458 12.109 94.591

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 314.4655 13.3508 23.554 < 2e-16 \*\*\*

temp -8.9397 0.5269 -16.967 < 2e-16 \*\*\*

treatmentpara 85.9864 17.6313 4.877 1.81e-06 \*\*\*

temp:treatmentpara -1.9439 0.6937 -2.802 0.00543 \*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 23.86 on 280 degrees of freedom

(27 observations deleted due to missingness)

Multiple R-squared: 0.785, Adjusted R-squared: 0.7827

F-statistic: 340.7 on 3 and 280 DF, p-value: < 2.2e-16

> age5.mod<-lm(age.5~temp\*treatment,data=data)

> anova(age5.mod)

Analysis of Variance Table

Response: age.5

Df Sum Sq Mean Sq F value Pr(>F)

temp 1 1880503 1880503 1229.774 < 2.2e-16 \*\*\*

treatment 1 57867 57867 37.843 3.469e-09 \*\*\*

temp:treatment 1 1352 1352 0.884 0.3481

Residuals 225 344058 1529

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(age5.mod)

Call:

lm(formula = age.5 ~ temp \* treatment, data = data)

Residuals:

Min 1Q Median 3Q Max

-67.270 -33.259 2.369 25.385 157.641

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 768.9786 22.0839 34.821 <2e-16 \*\*\*

temp -21.7061 0.8746 -24.819 <2e-16 \*\*\*

treatmentpara 61.7039 32.1458 1.919 0.0562 .

temp:treatmentpara -1.1850 1.2604 -0.940 0.3481

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 39.1 on 225 degrees of freedom

(82 observations deleted due to missingness)

Multiple R-squared: 0.8493, Adjusted R-squared: 0.8473

F-statistic: 422.8 on 3 and 225 DF, p-value: < 2.2e-16

> age5.mod2<-lm(age.5~temp+treatment,data=data)

> anova(age5.mod2)

Analysis of Variance Table

Response: age.5

Df Sum Sq Mean Sq F value Pr(>F)

temp 1 1880503 1880503 1230.406 < 2.2e-16 \*\*\*

treatment 1 57867 57867 37.862 3.419e-09 \*\*\*

Residuals 226 345409 1528

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> anova(age5.mod,age5.mod2)

Analysis of Variance Table

Model 1: age.5 ~ temp \* treatment

Model 2: age.5 ~ temp + treatment

Res.Df RSS Df Sum of Sq F Pr(>F)

1 225 344058

2 226 345409 -1 -1351.8 0.884 0.3481