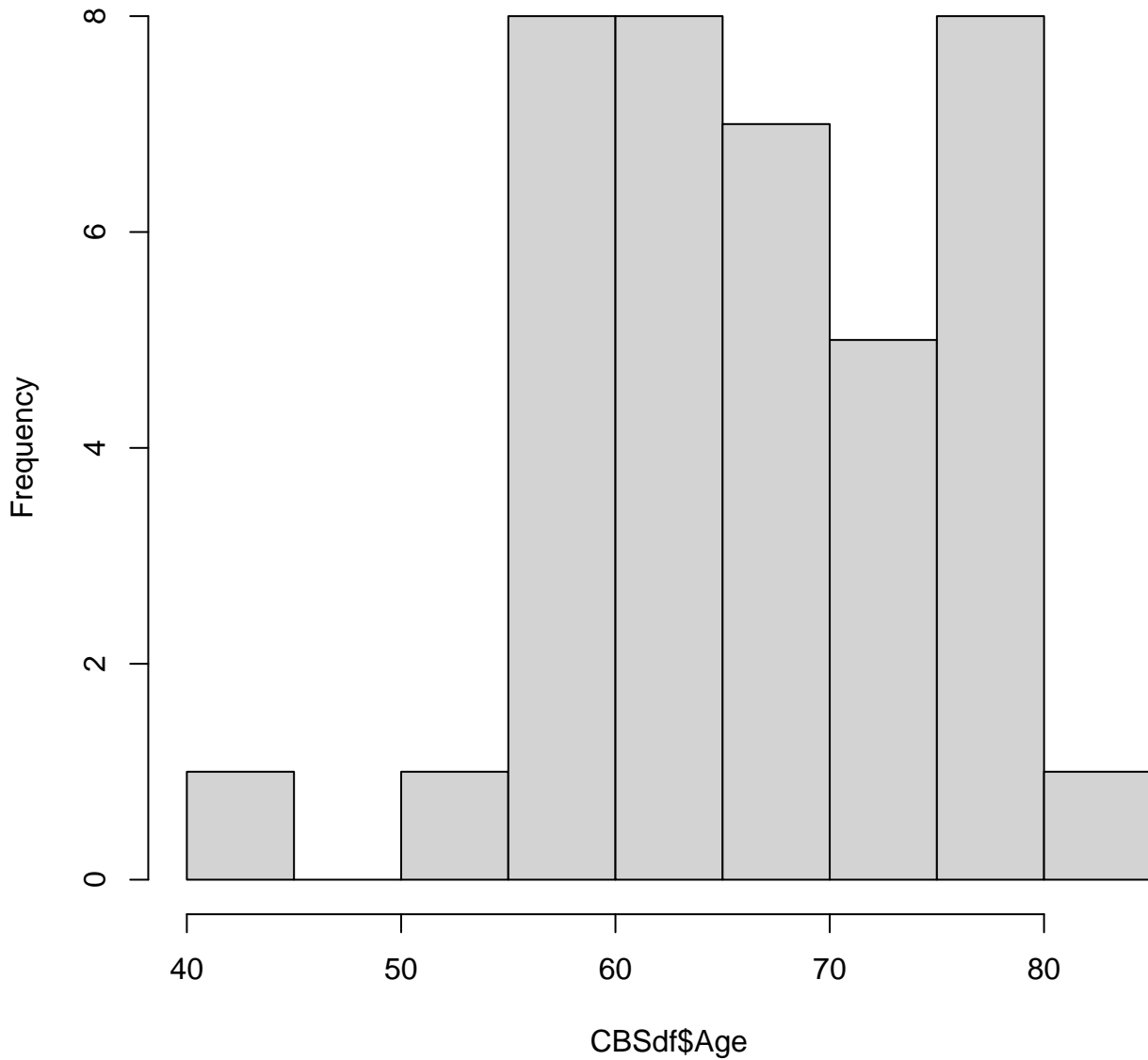
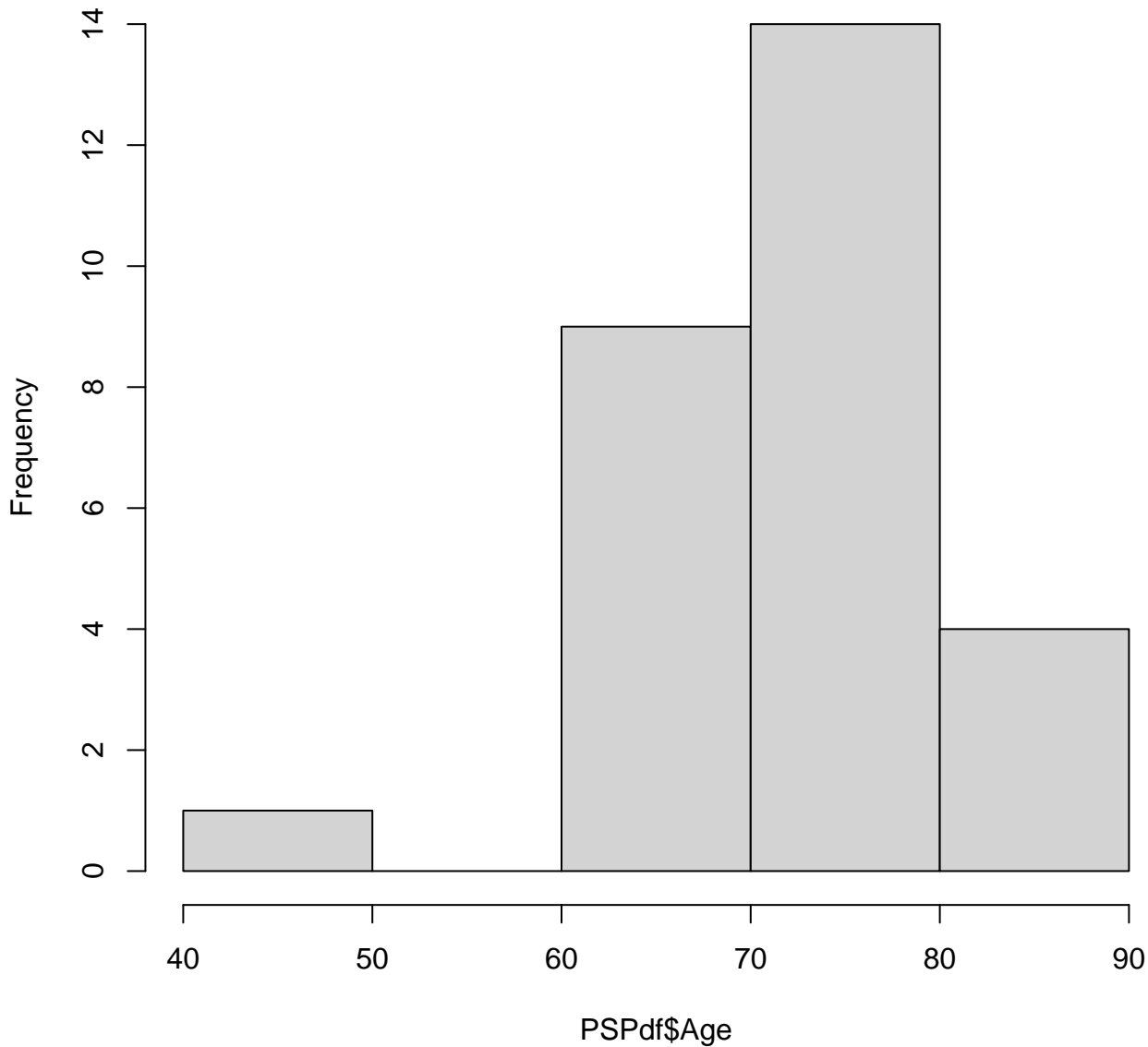


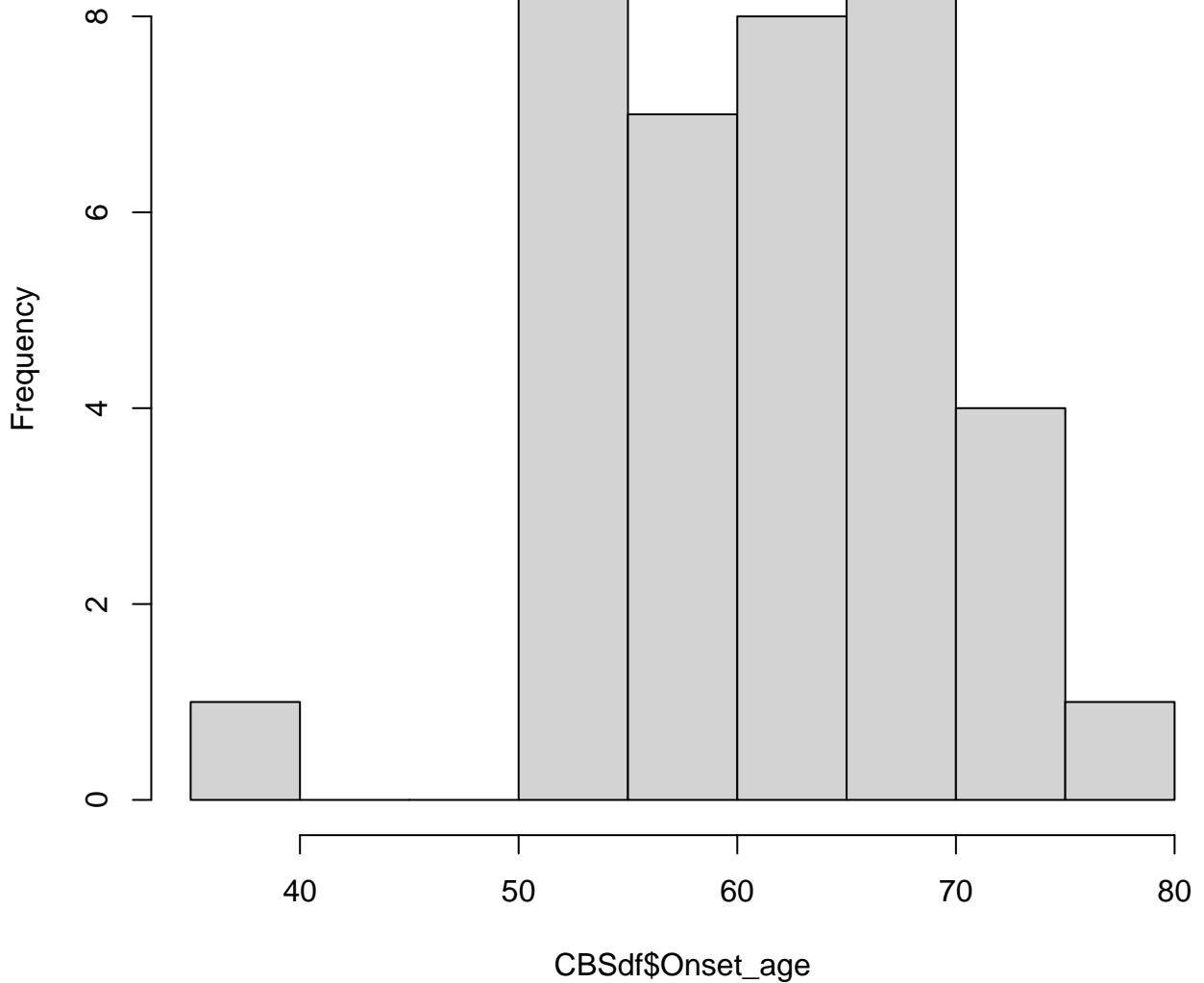
Histogram of CBSdf\$Age



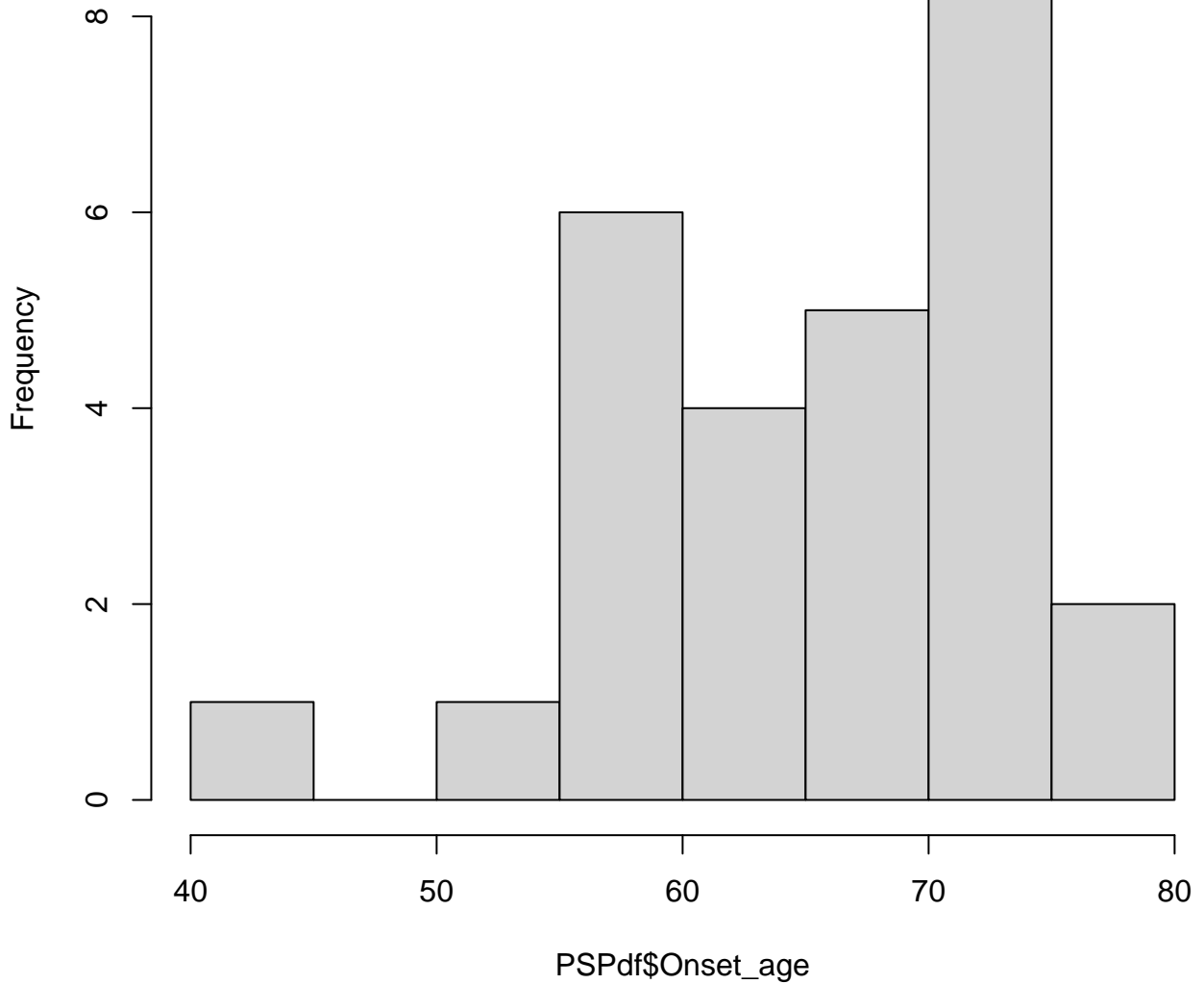
Histogram of PSPdf\$Age



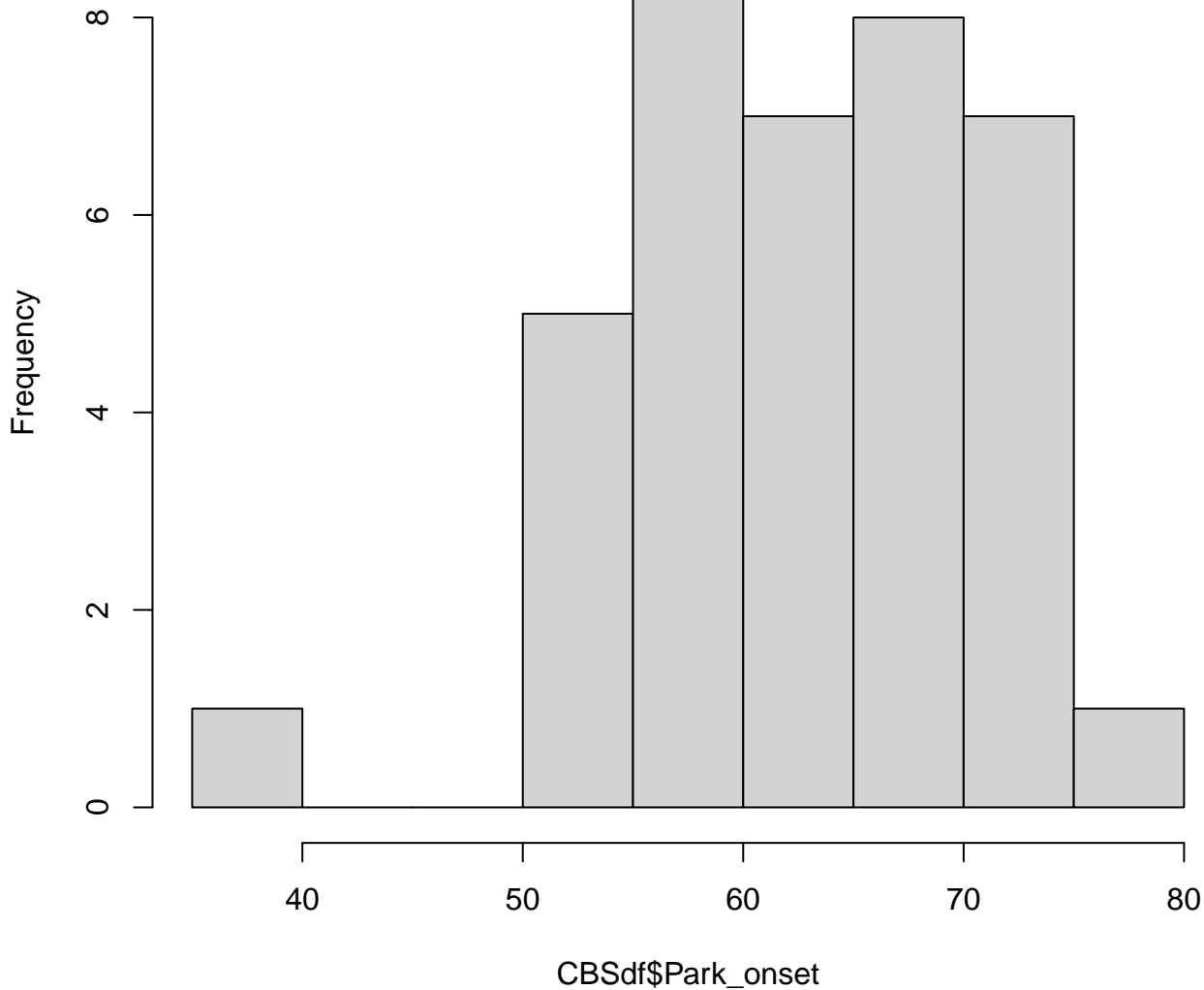
Histogram of CBSdf\$Onset_age



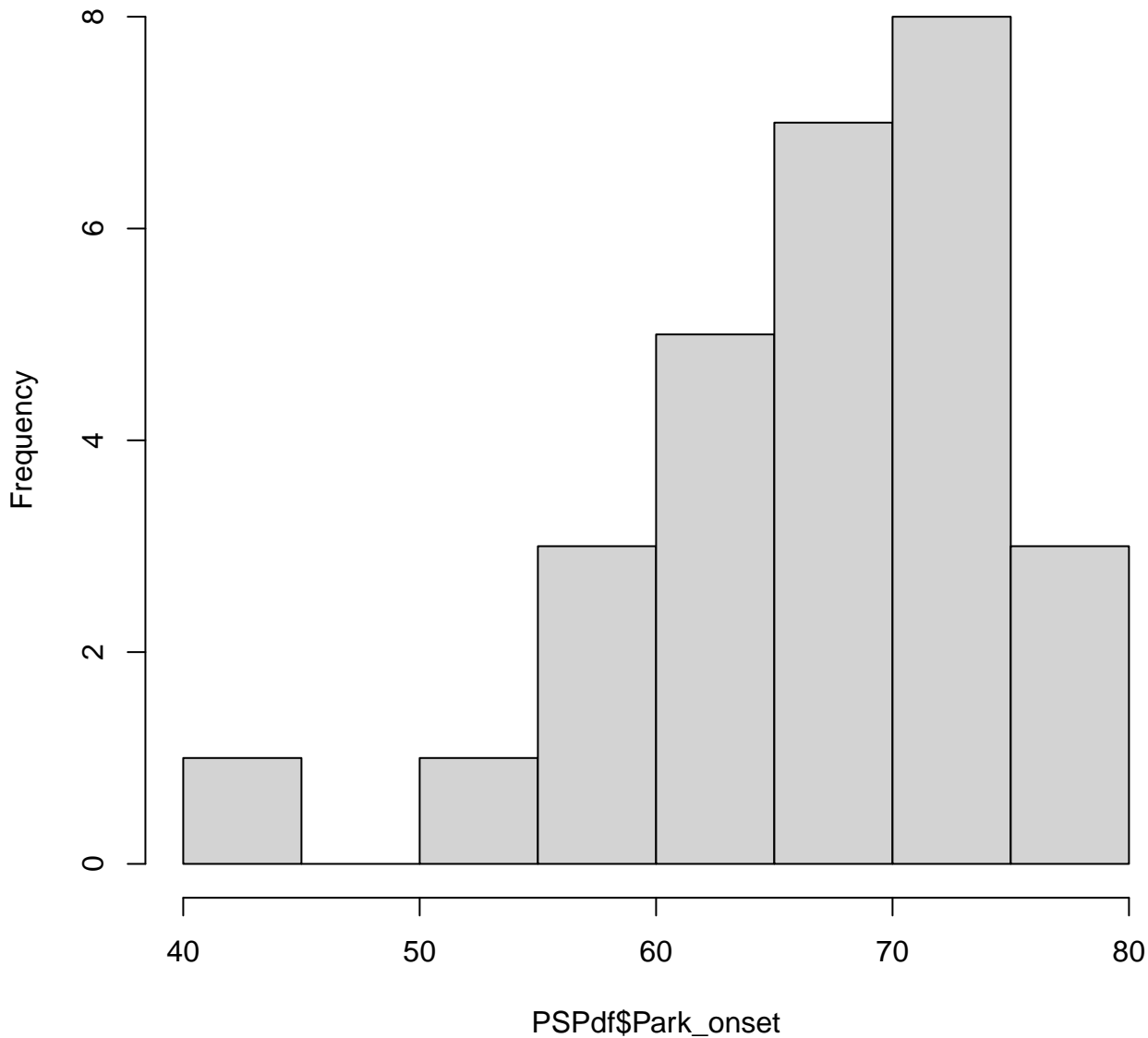
Histogram of PSPdf\$Onset_age



Histogram of CBSdf\$Park_onset



Histogram of PSPdf\$Park_onset



LP2_MOCA_Z.score

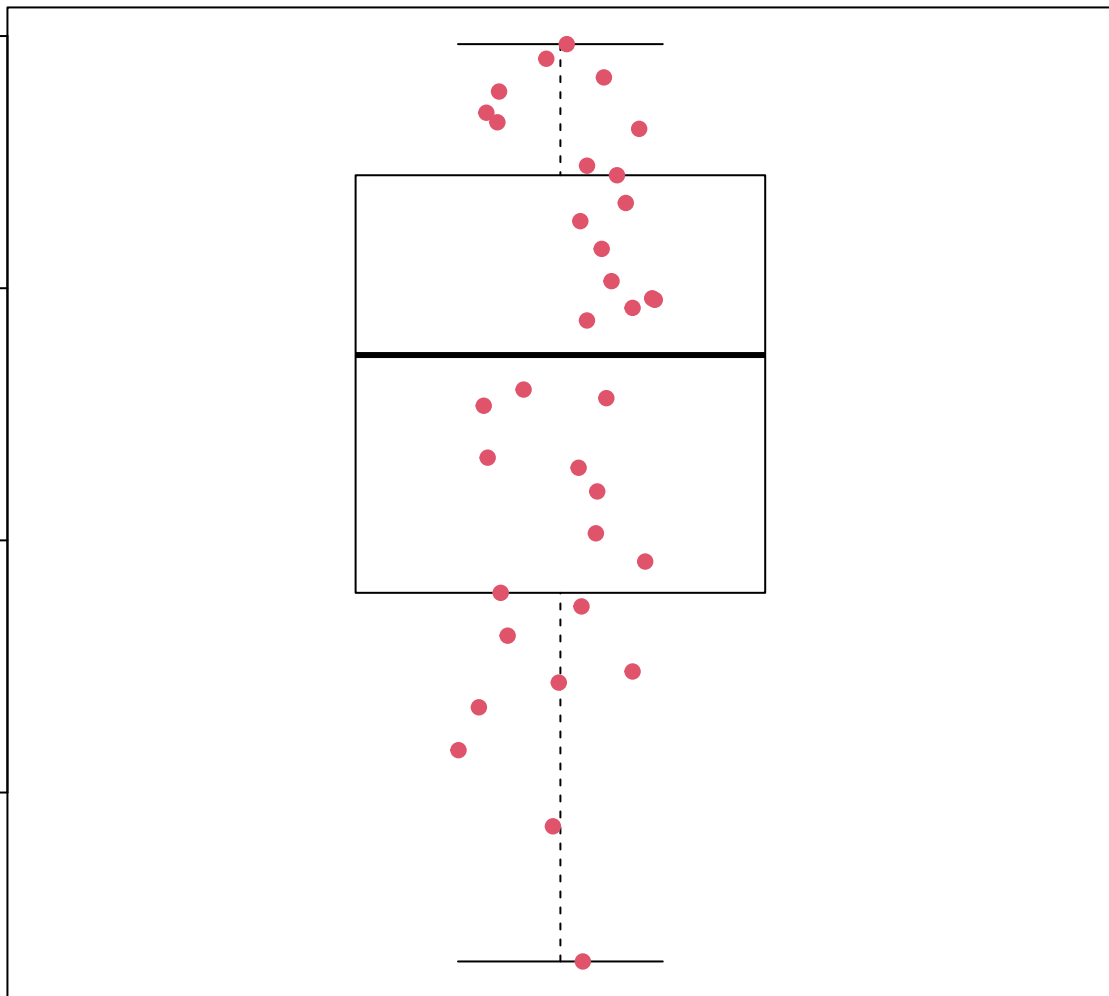
0

-5

-10

-15

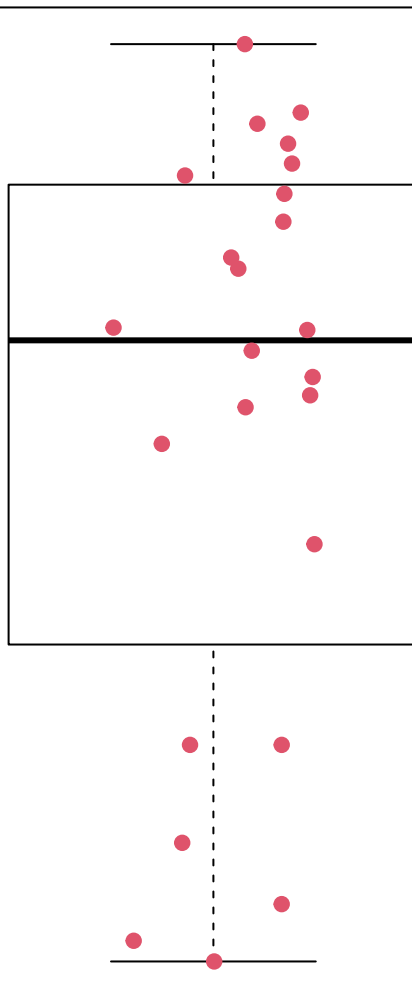
DX_APD



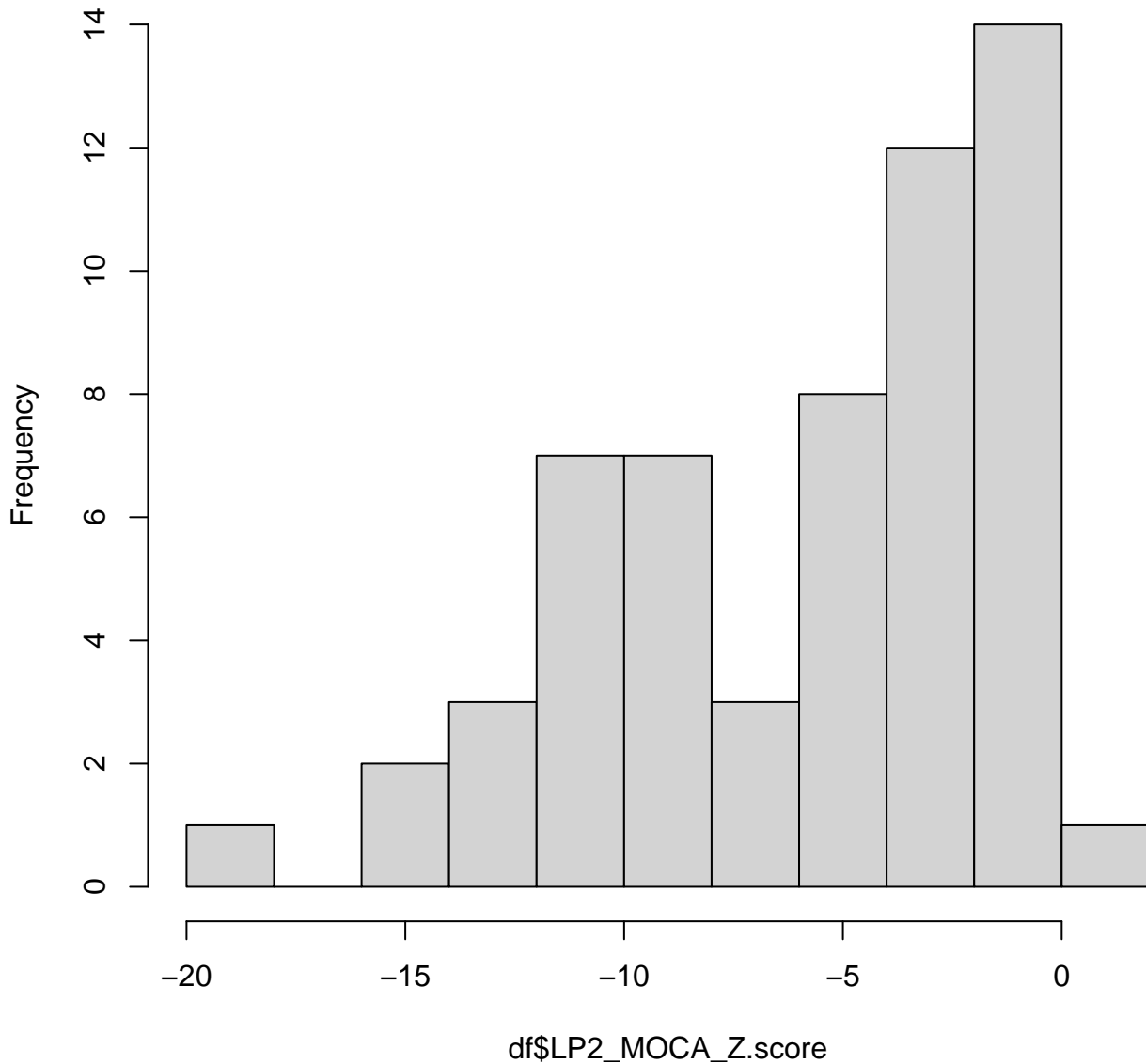
LP2_MOCA_Z.score

0
-2
-4
-6
-8
-10

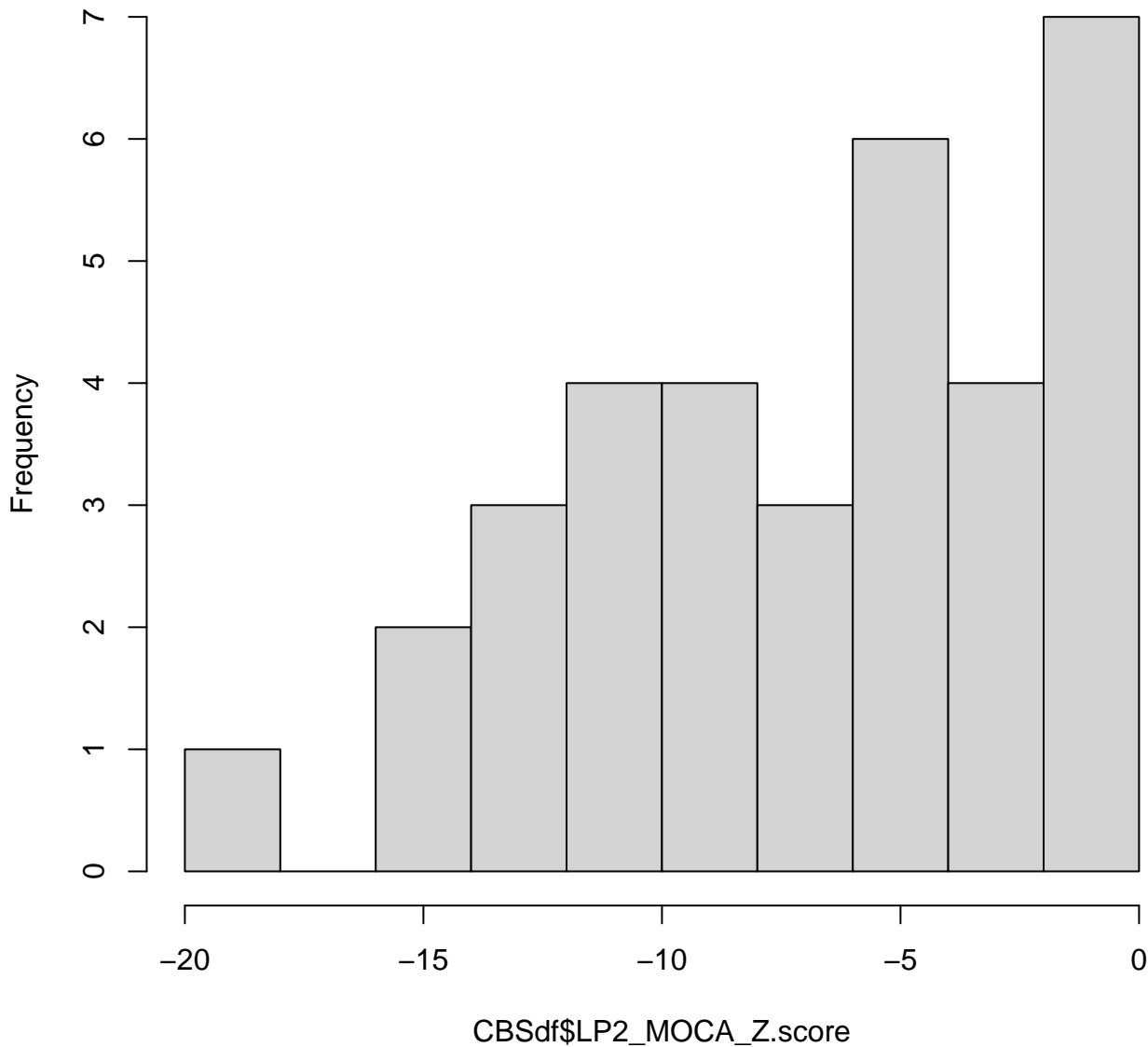
DX_APD



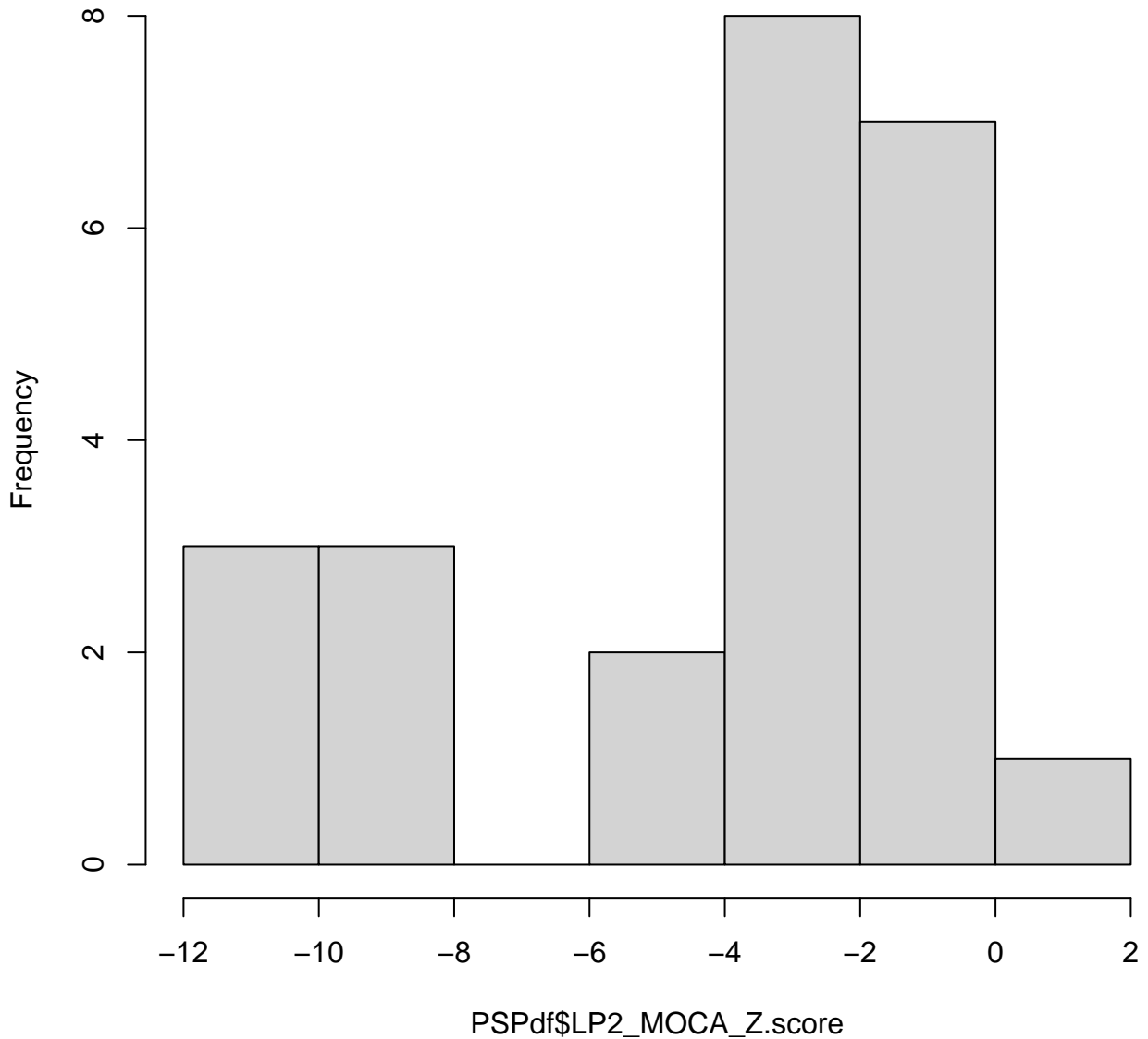
Histogram of df\$LP2_MOCA_Z.score

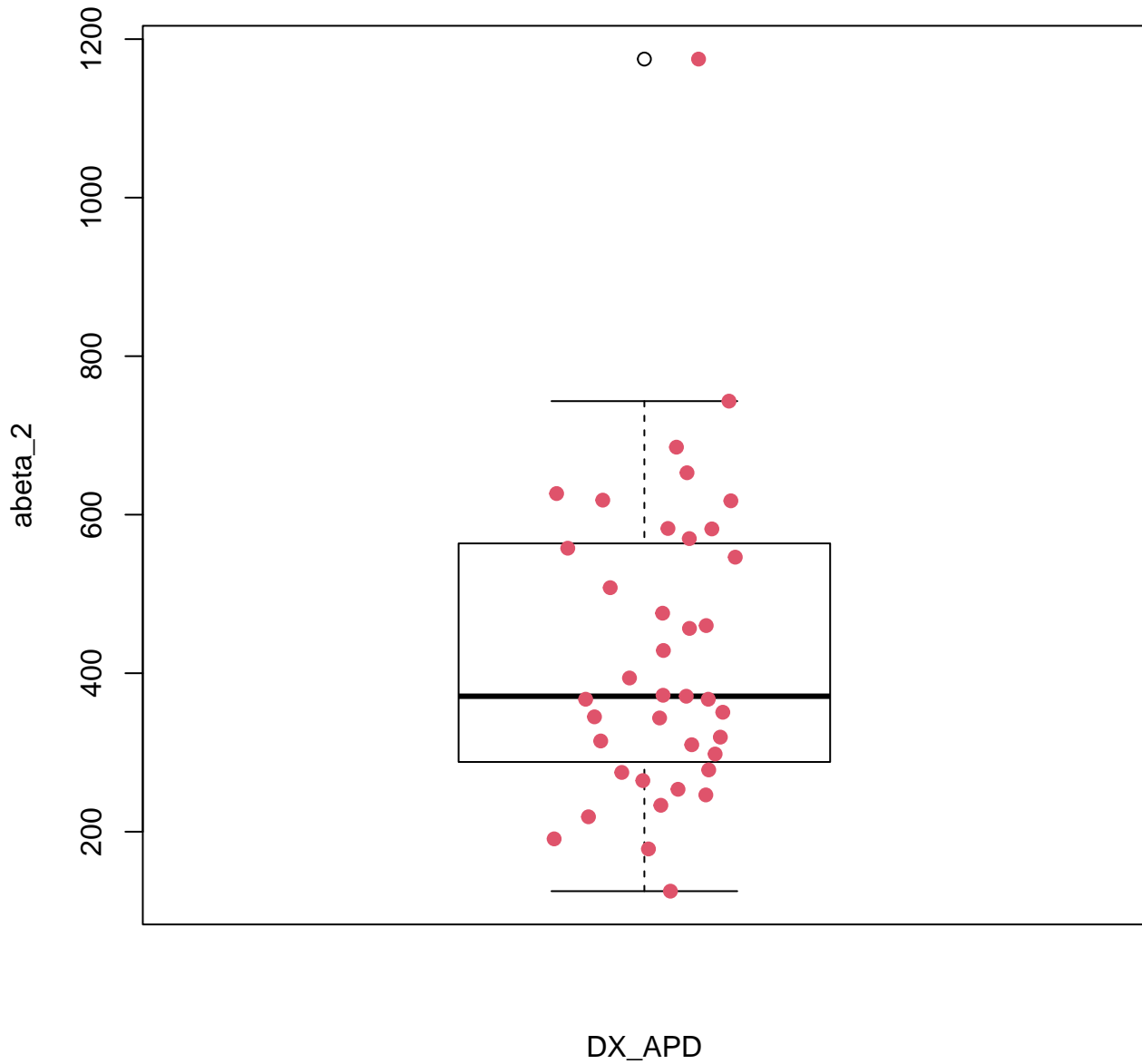


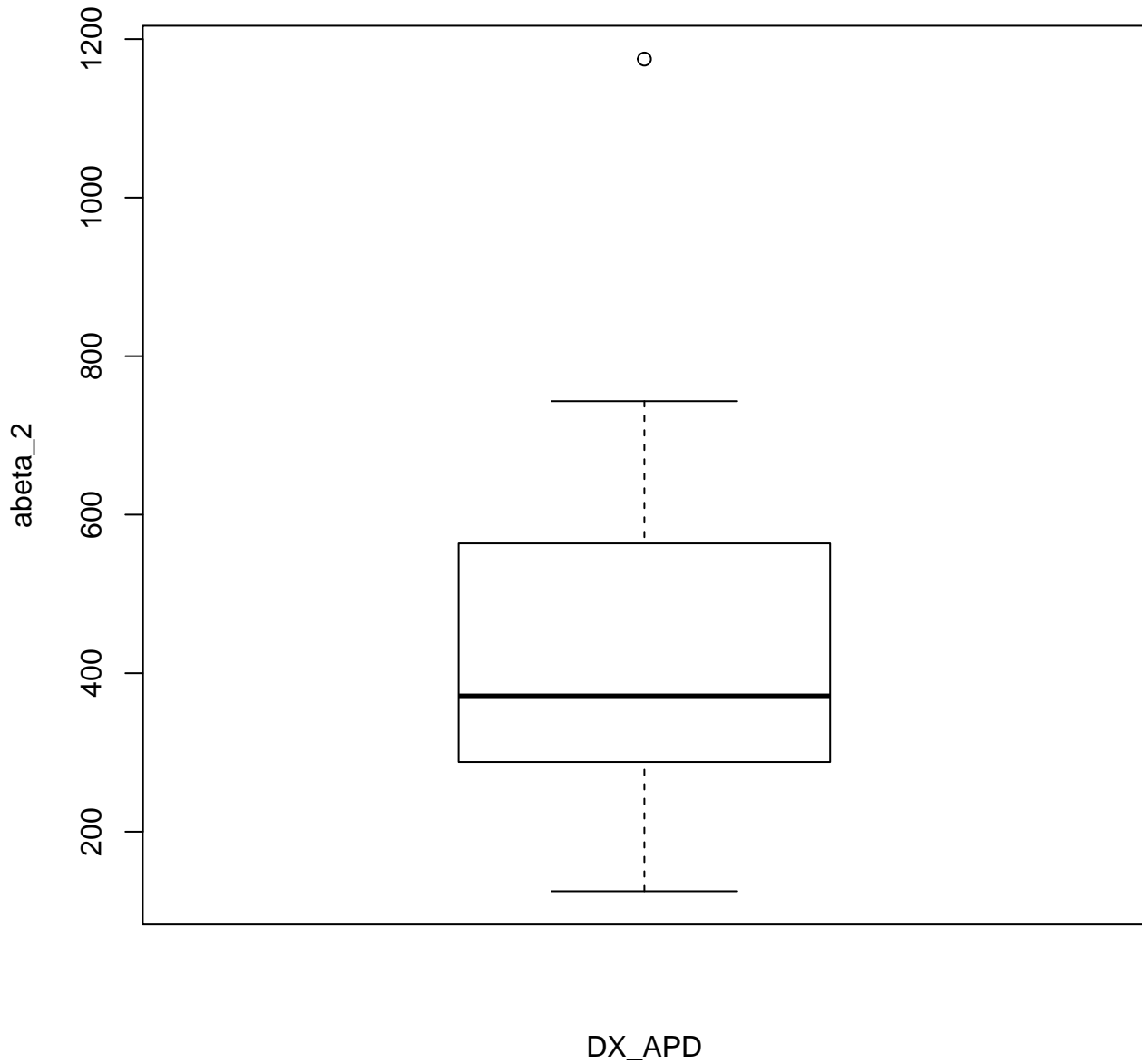
Histogram of CBSdf\$LP2_MOCA_Z.score

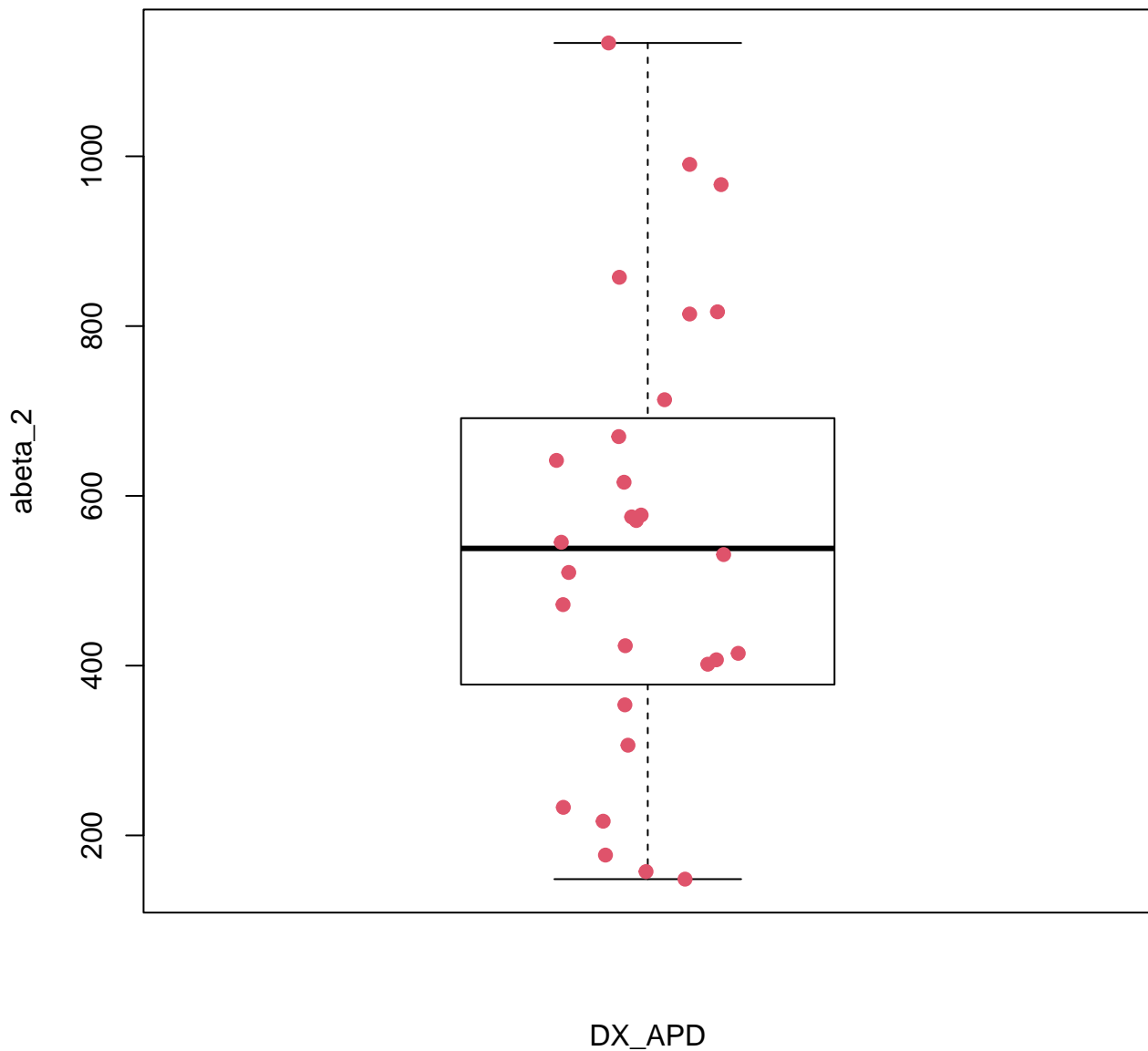


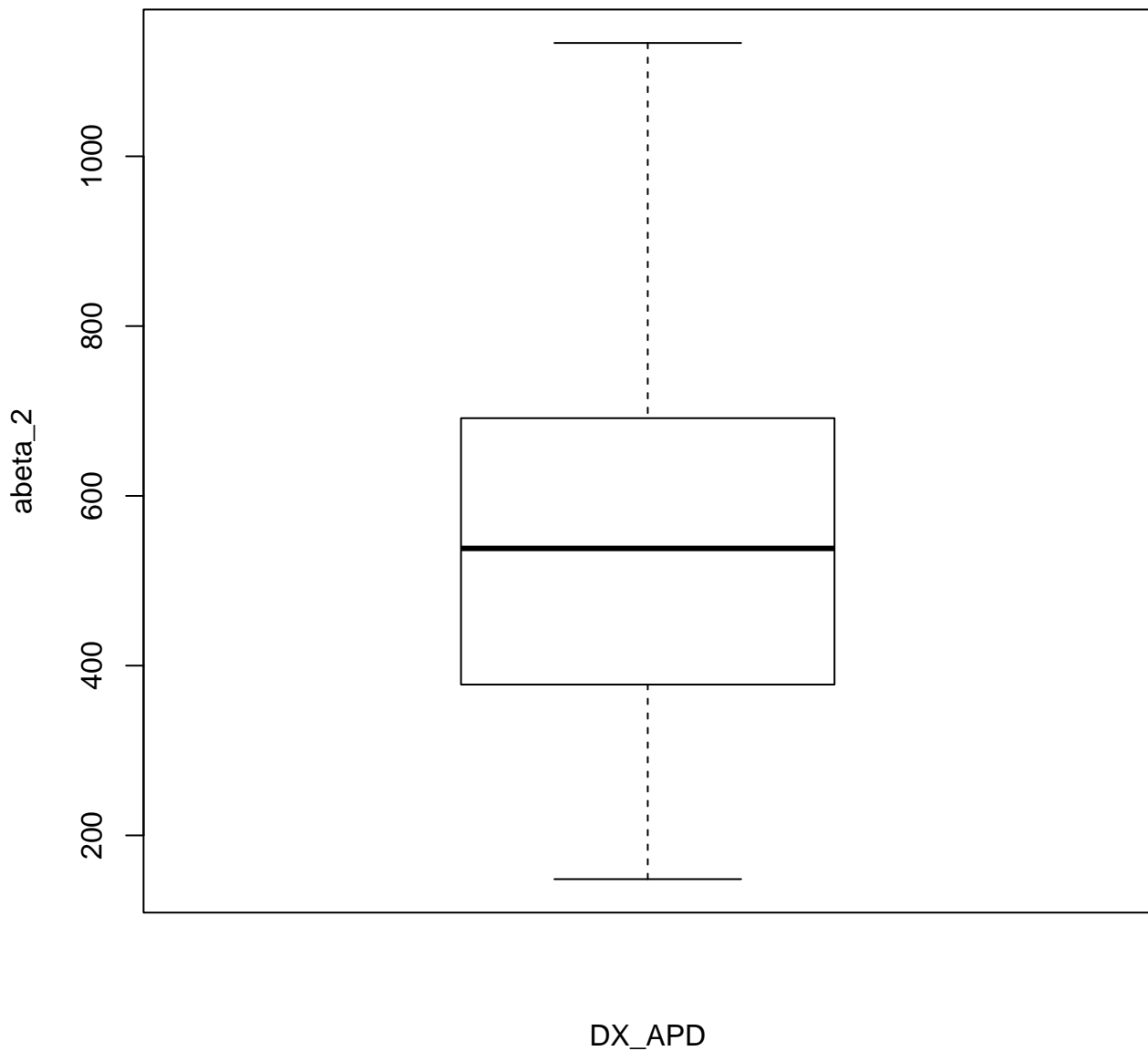
Histogram of PSPdf\$LP2_MOCA_Z.score



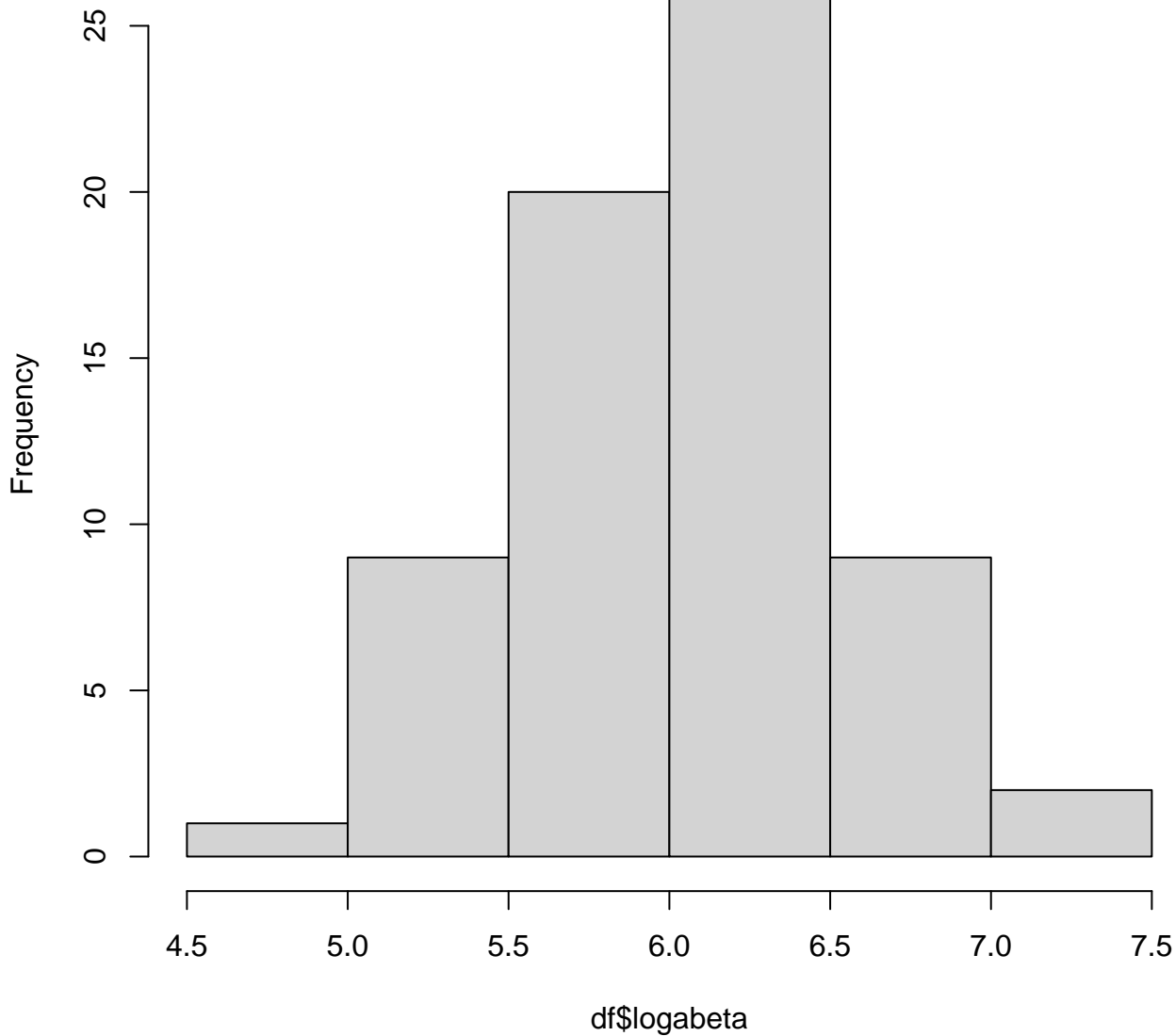




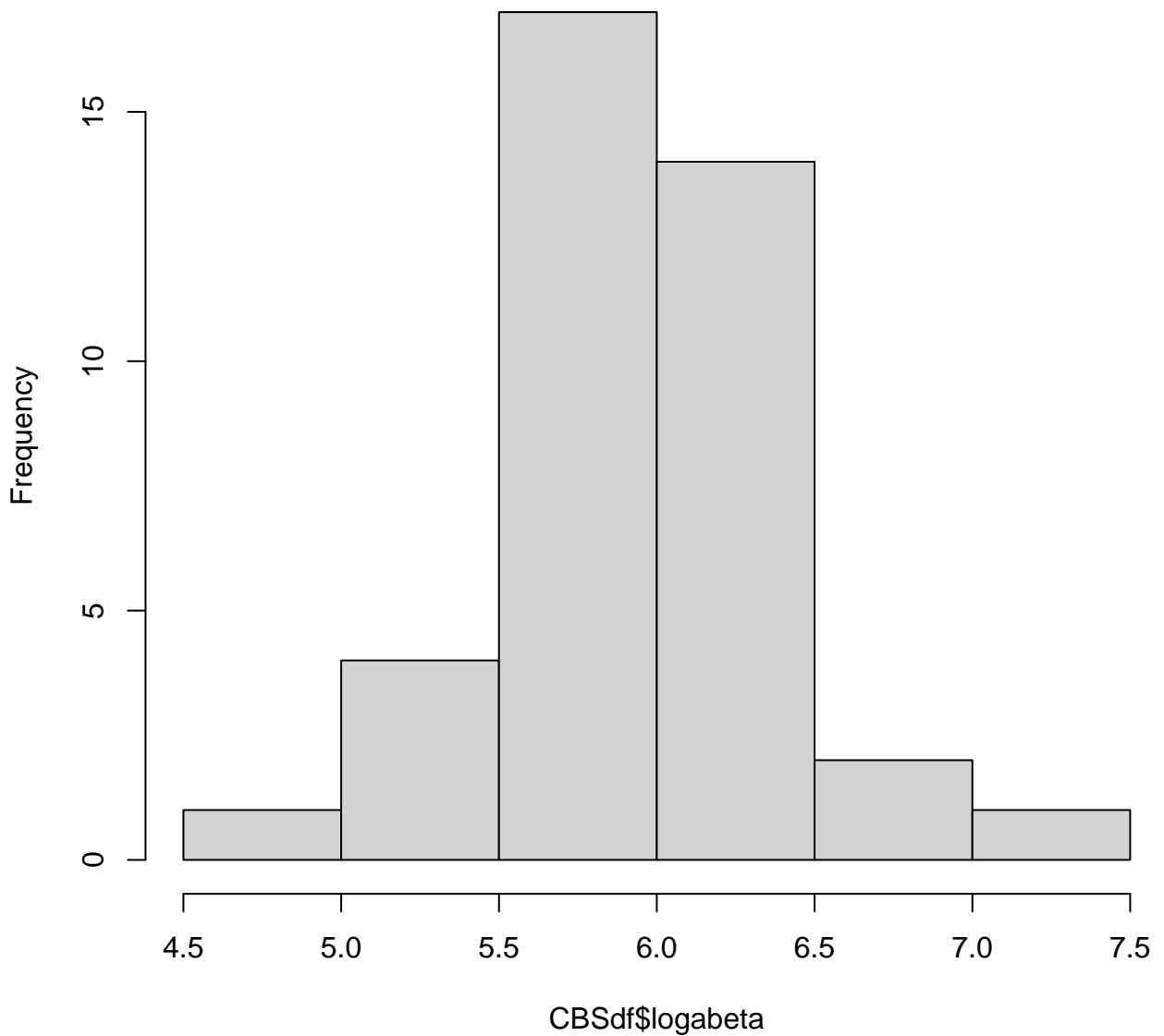




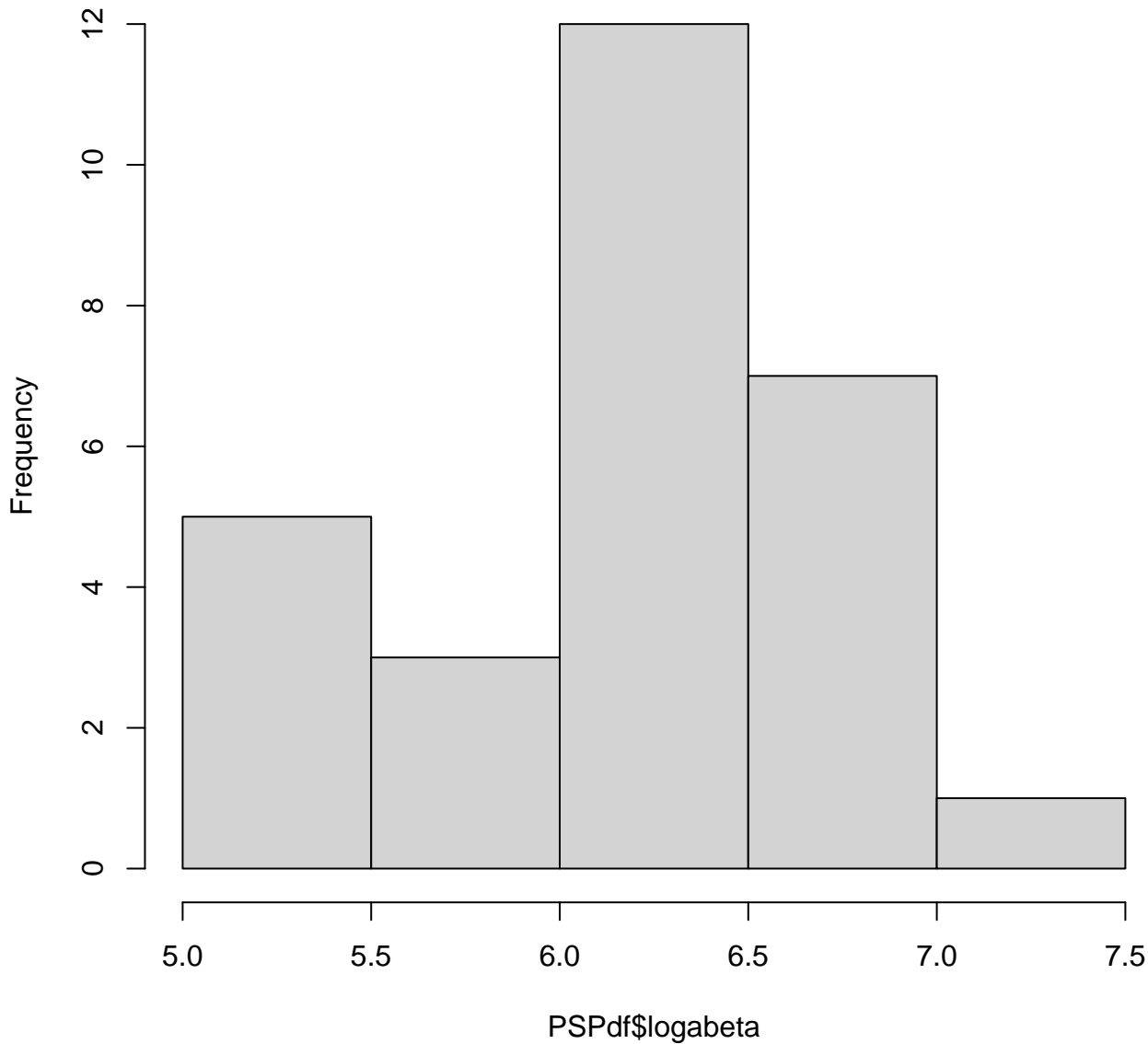
Histogram of df\$logabeta

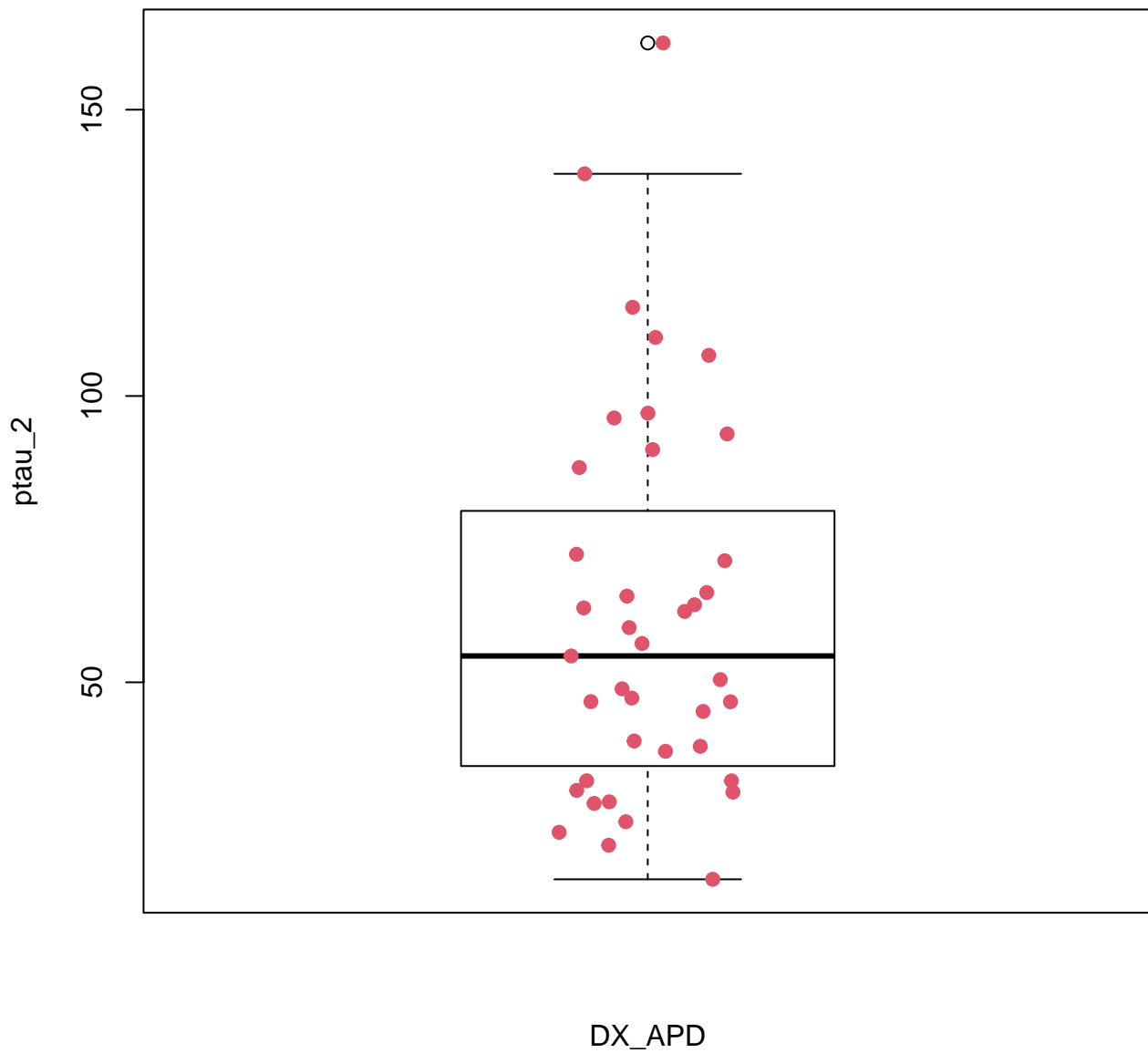


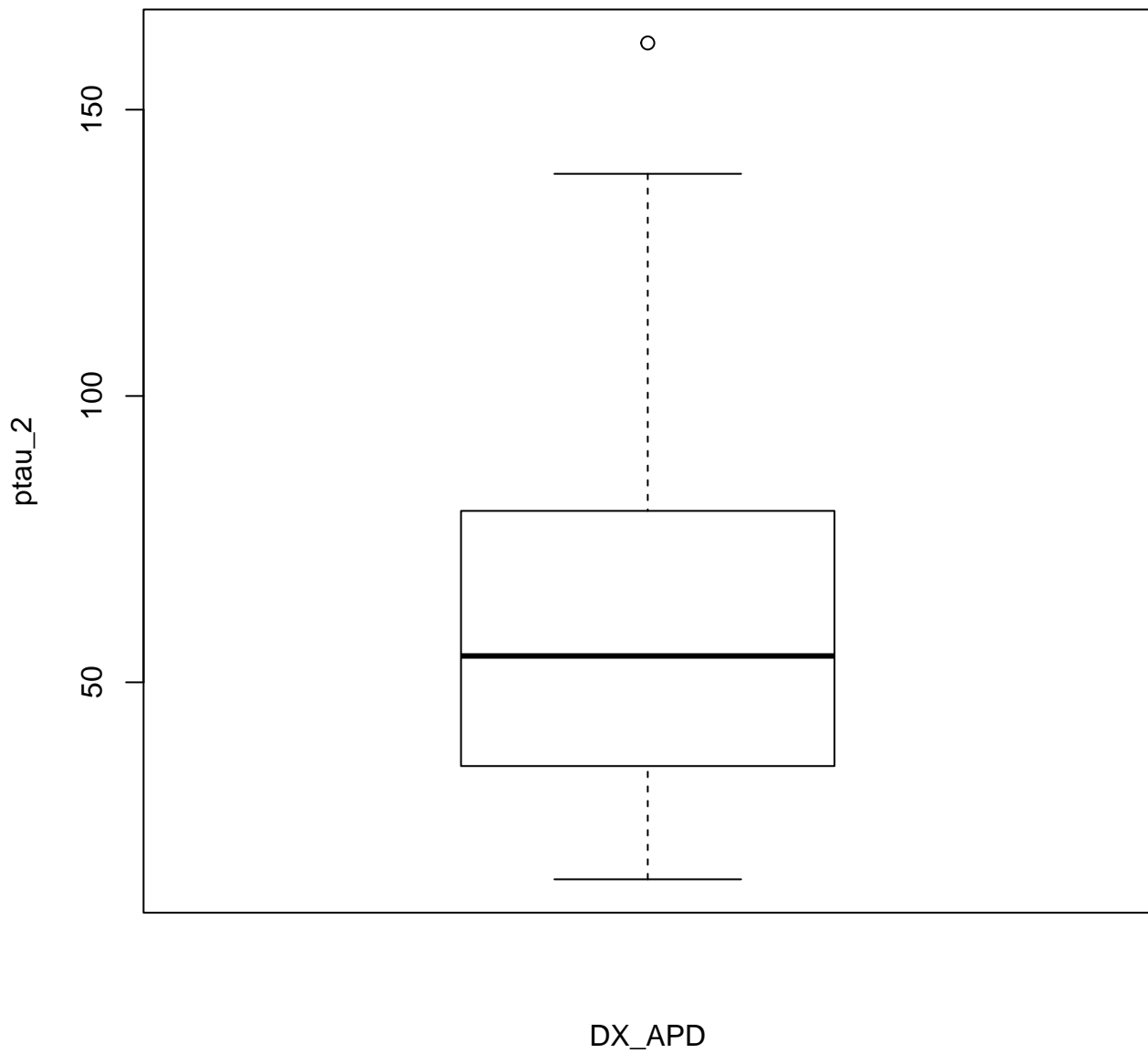
Histogram of CBSdf\$logabeta

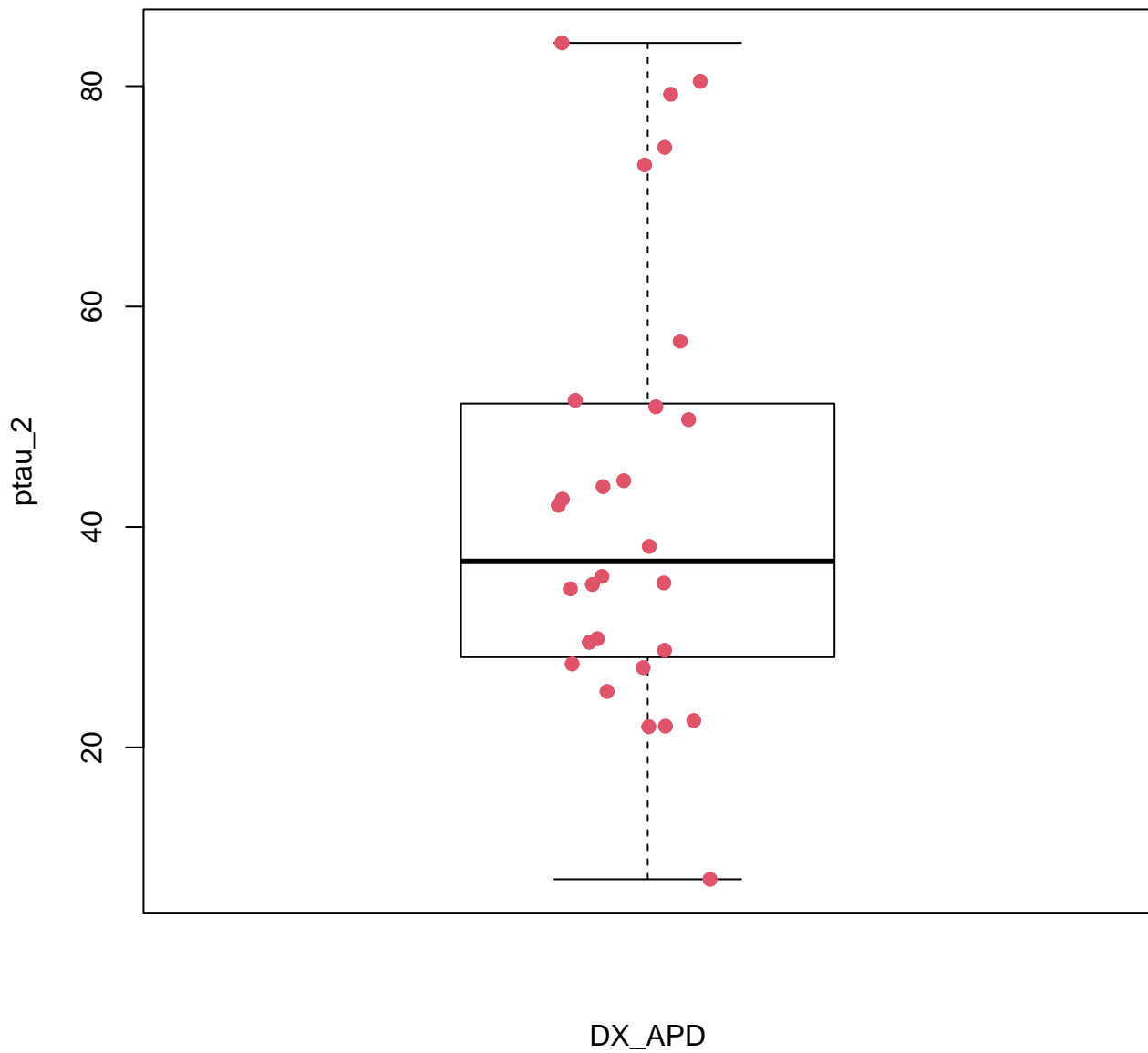


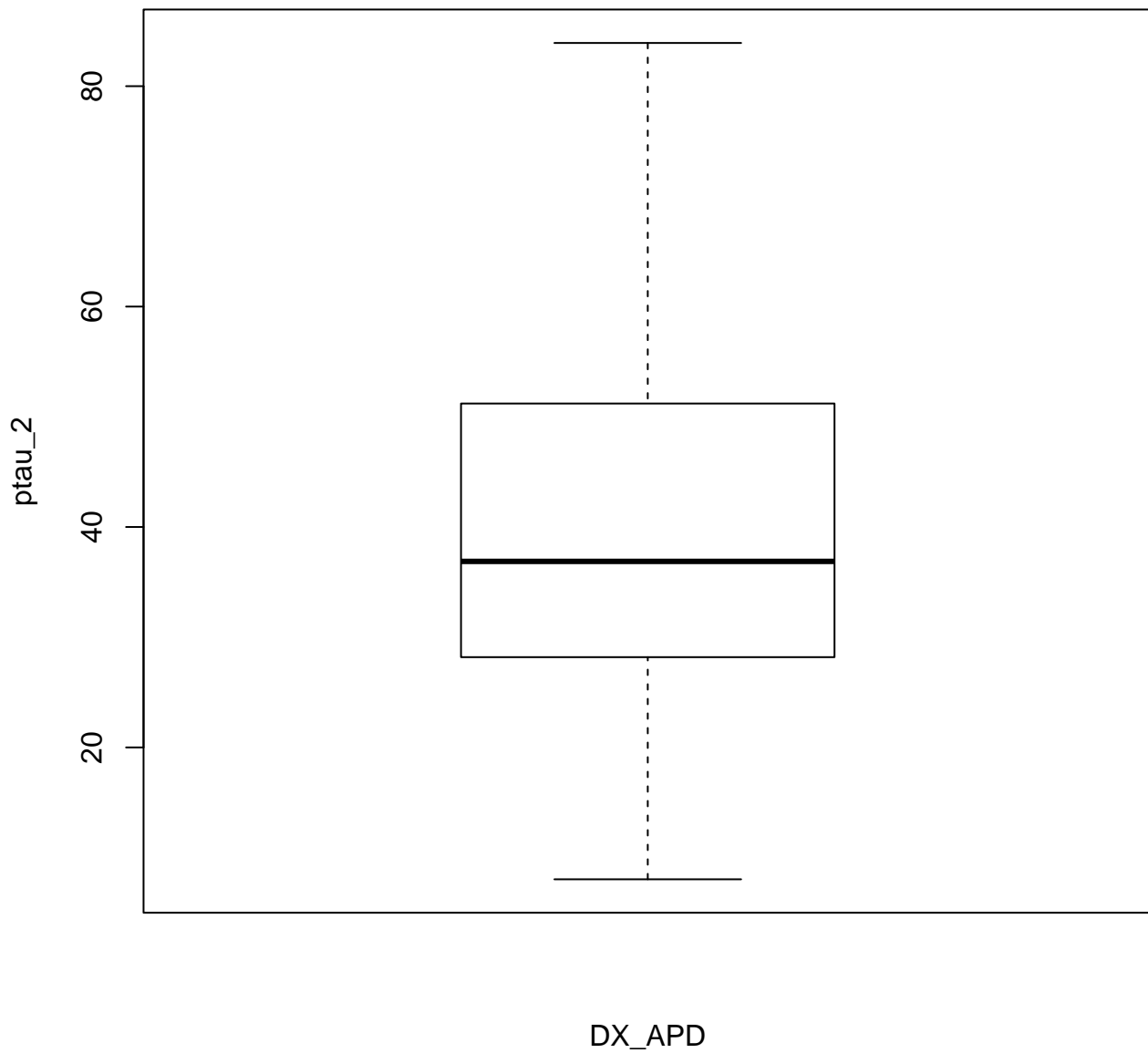
Histogram of PSPdf\$logabeta



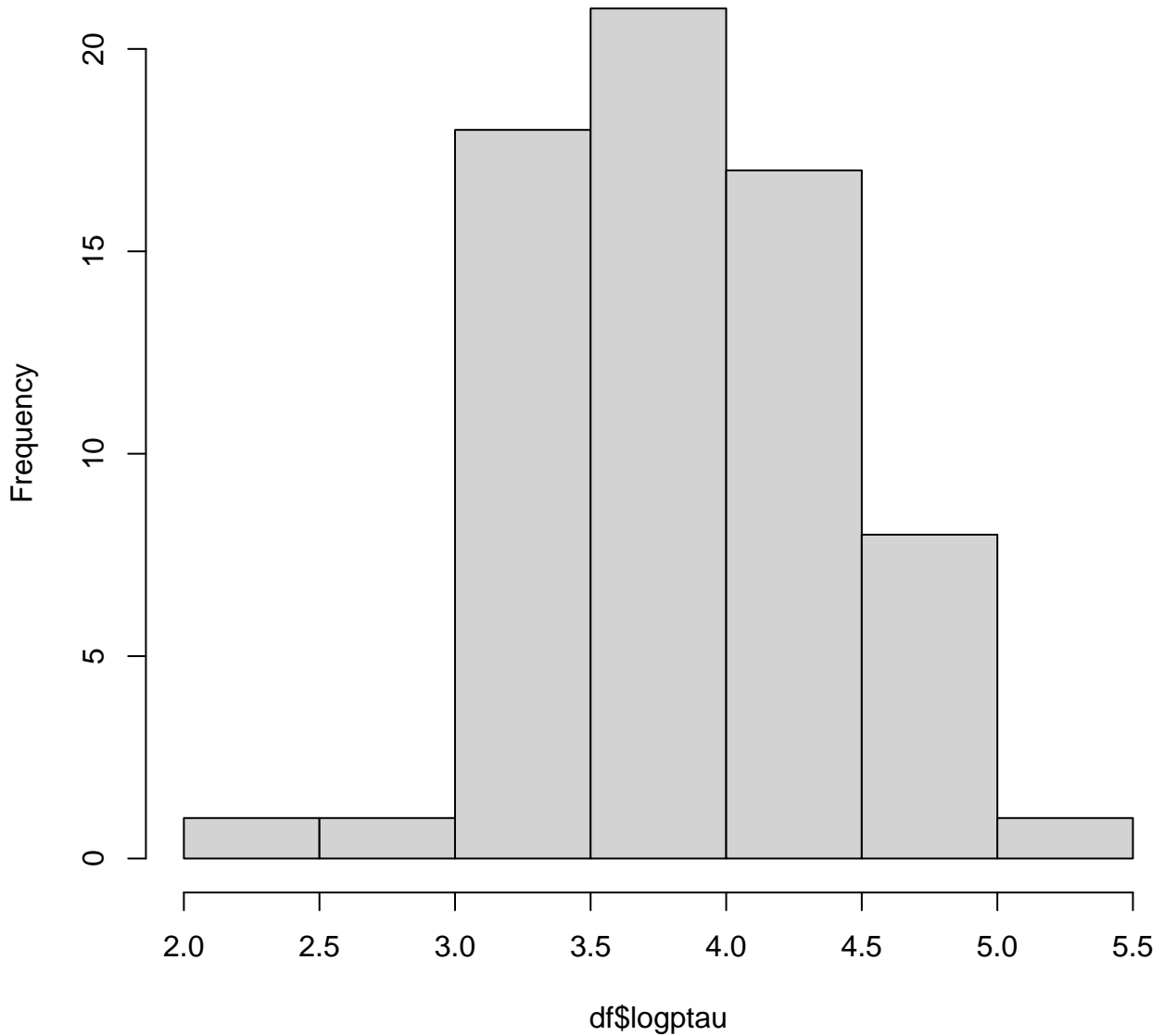




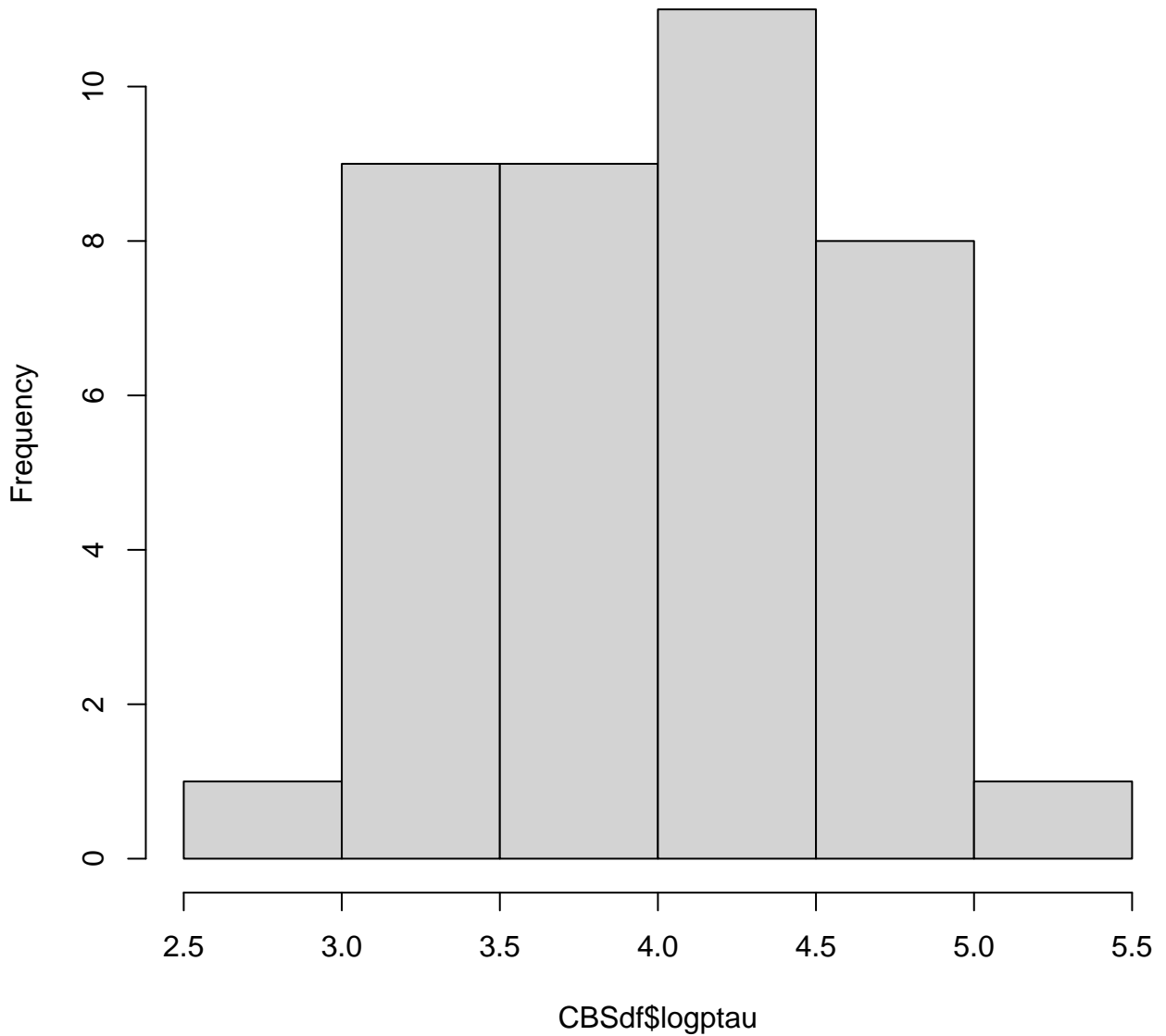




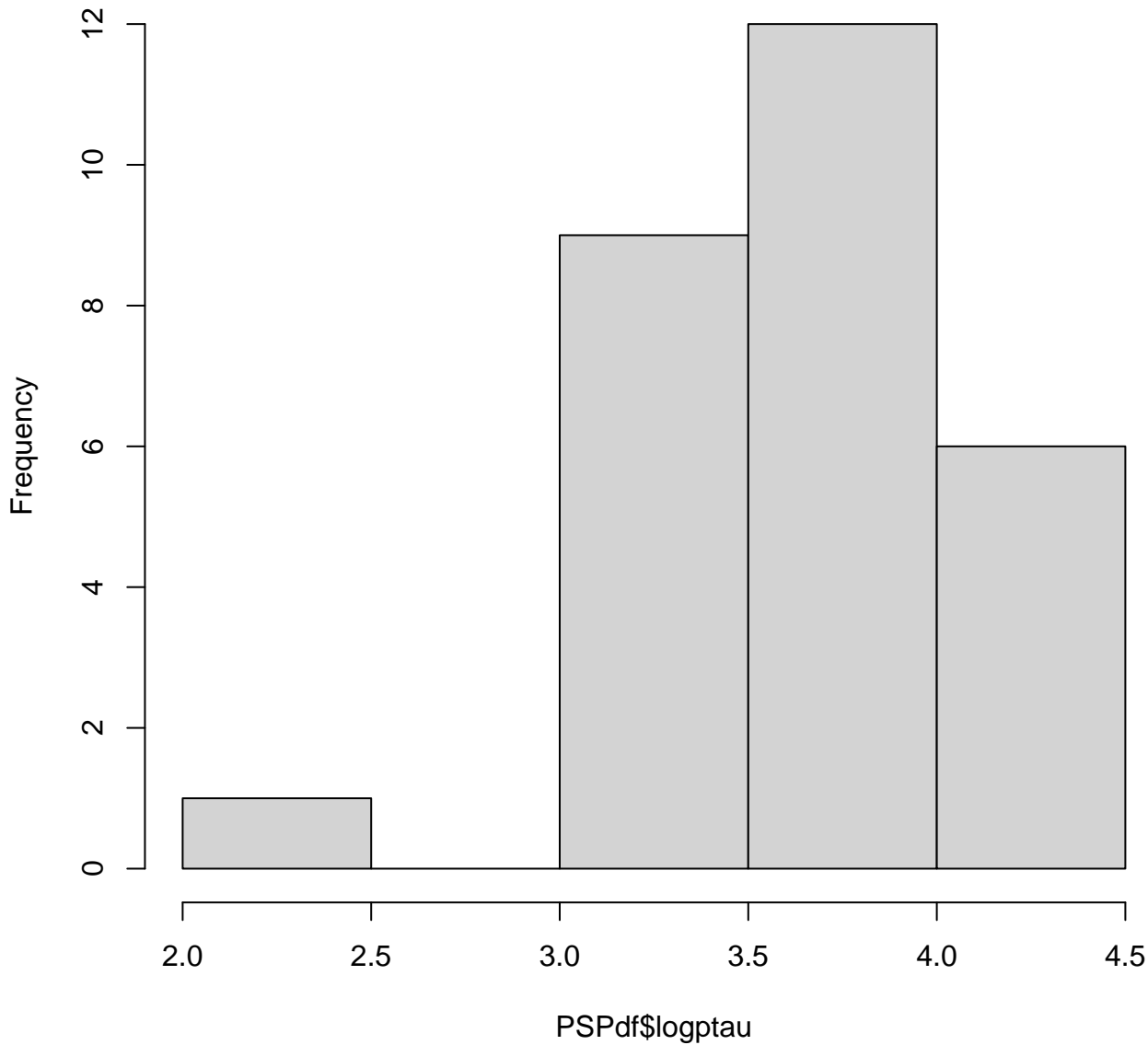
Histogram of df\$logptau

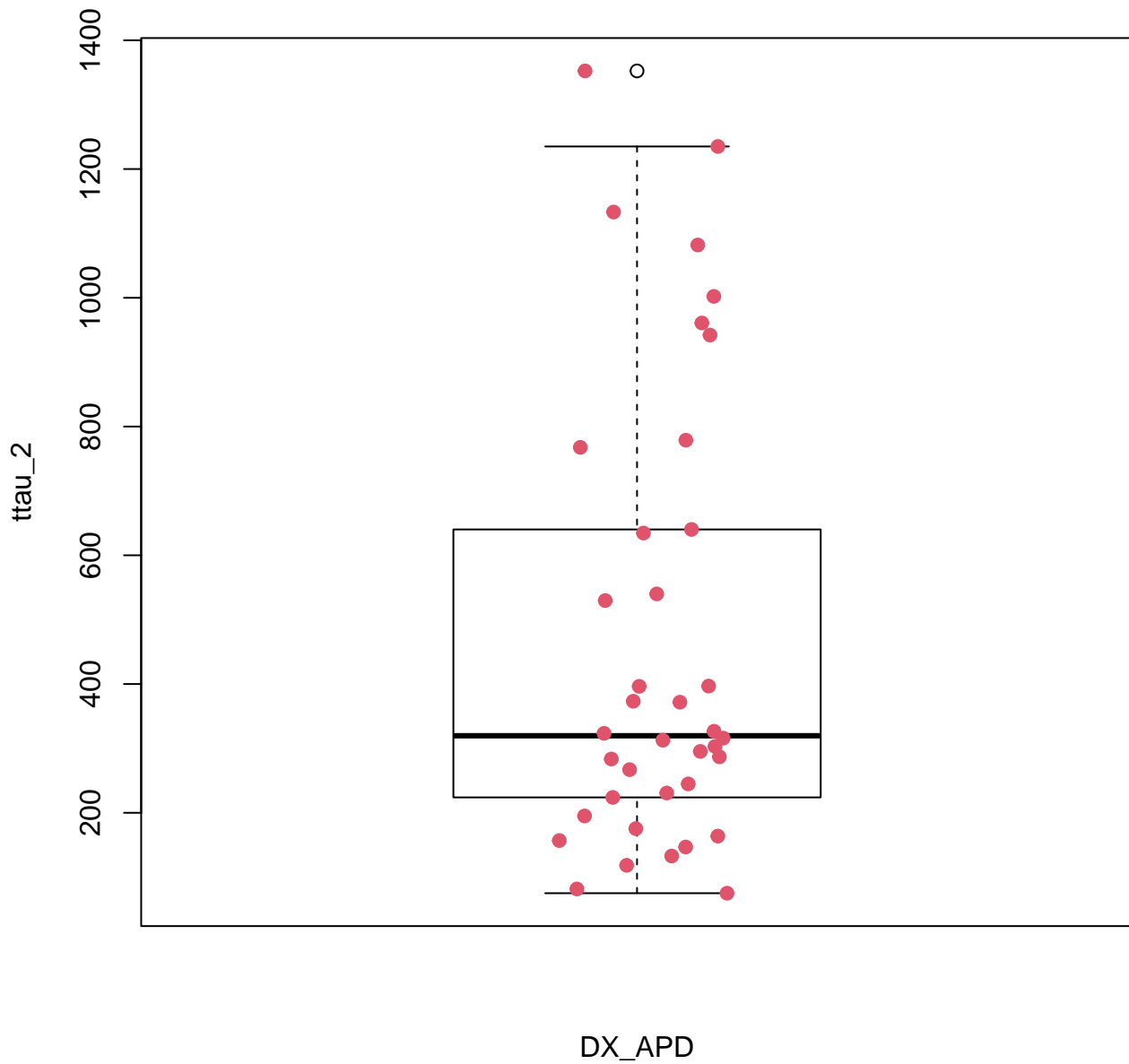


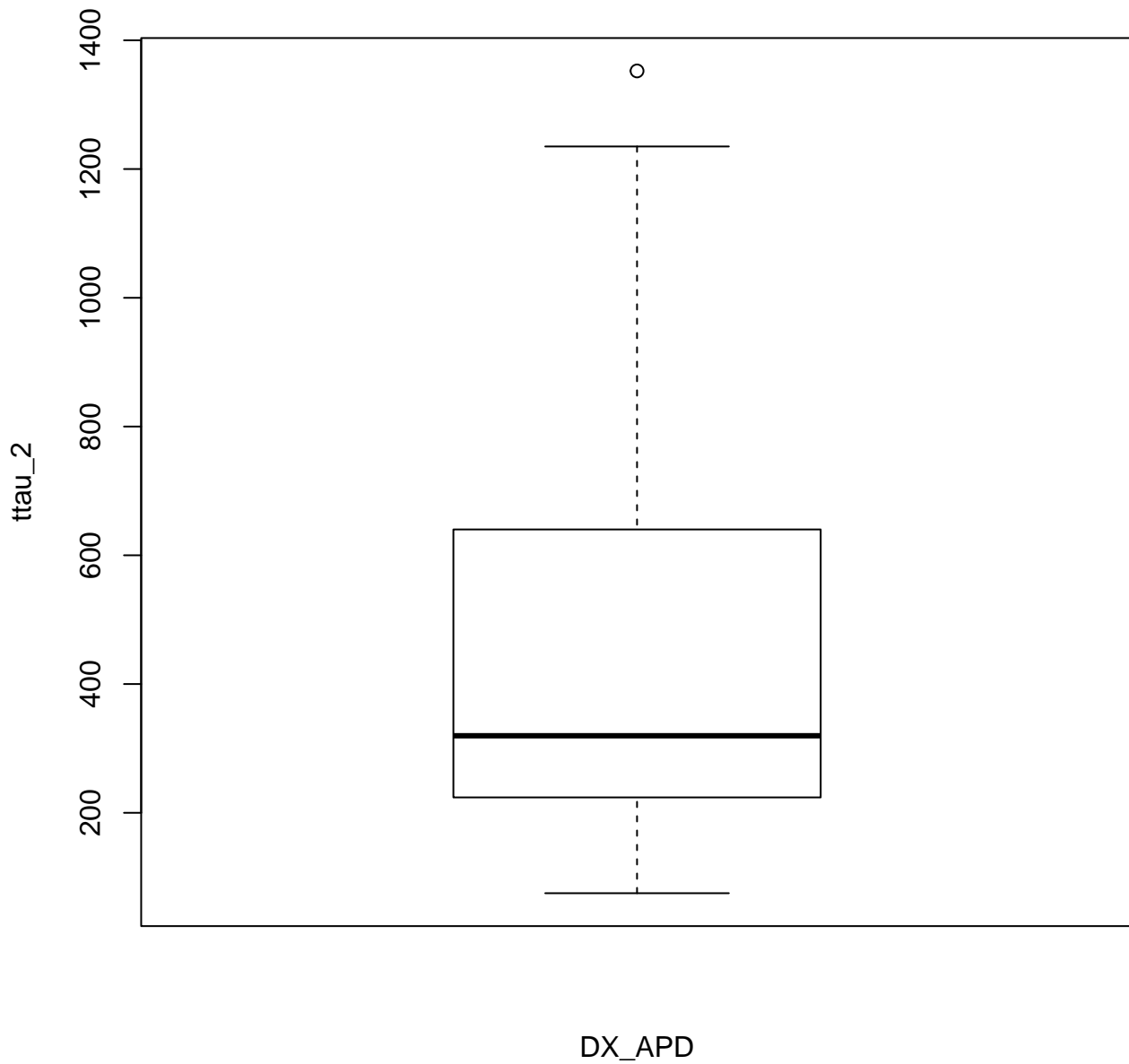
Histogram of CBSdf\$logptau

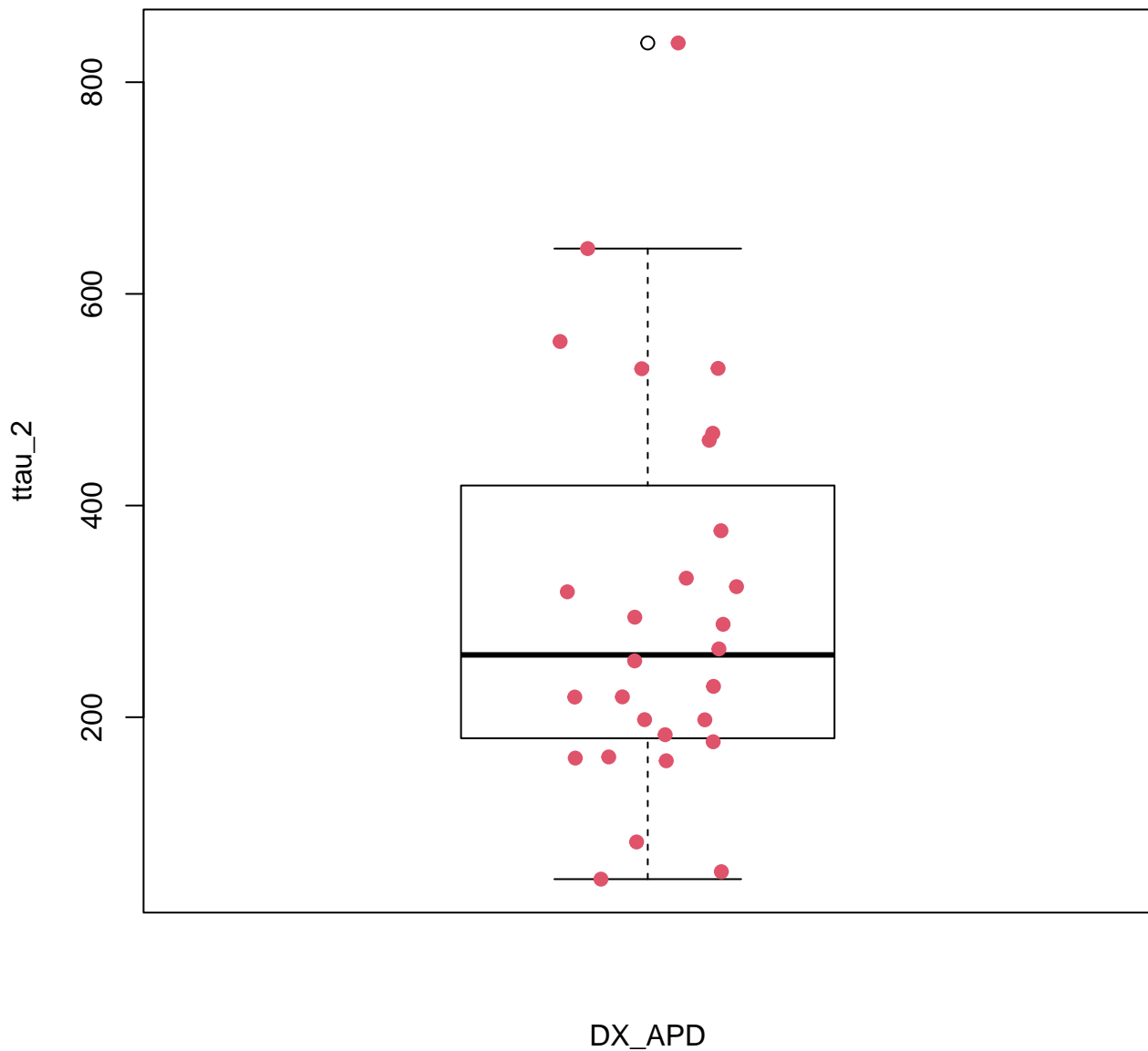


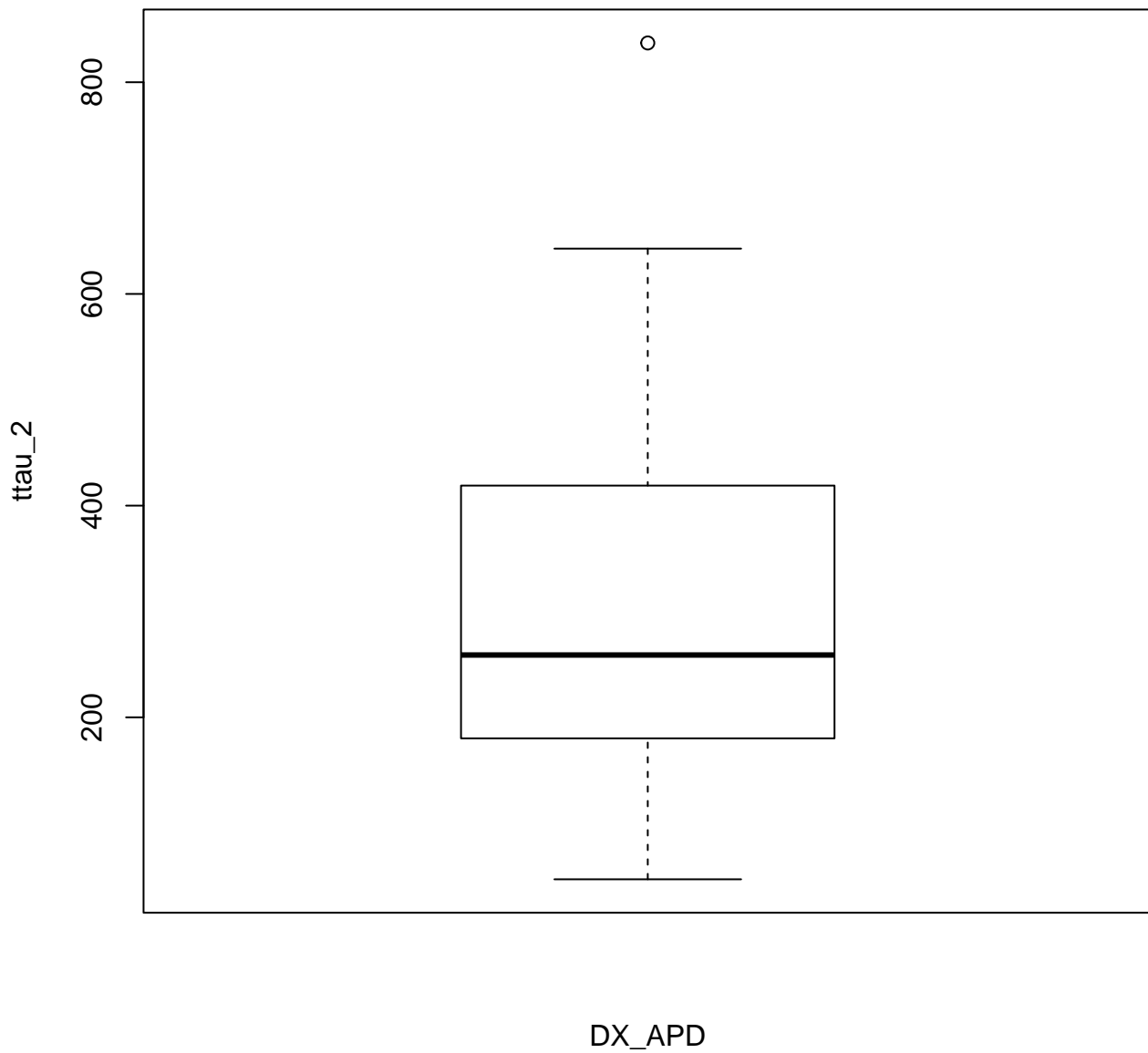
Histogram of PSPdf\$logptau



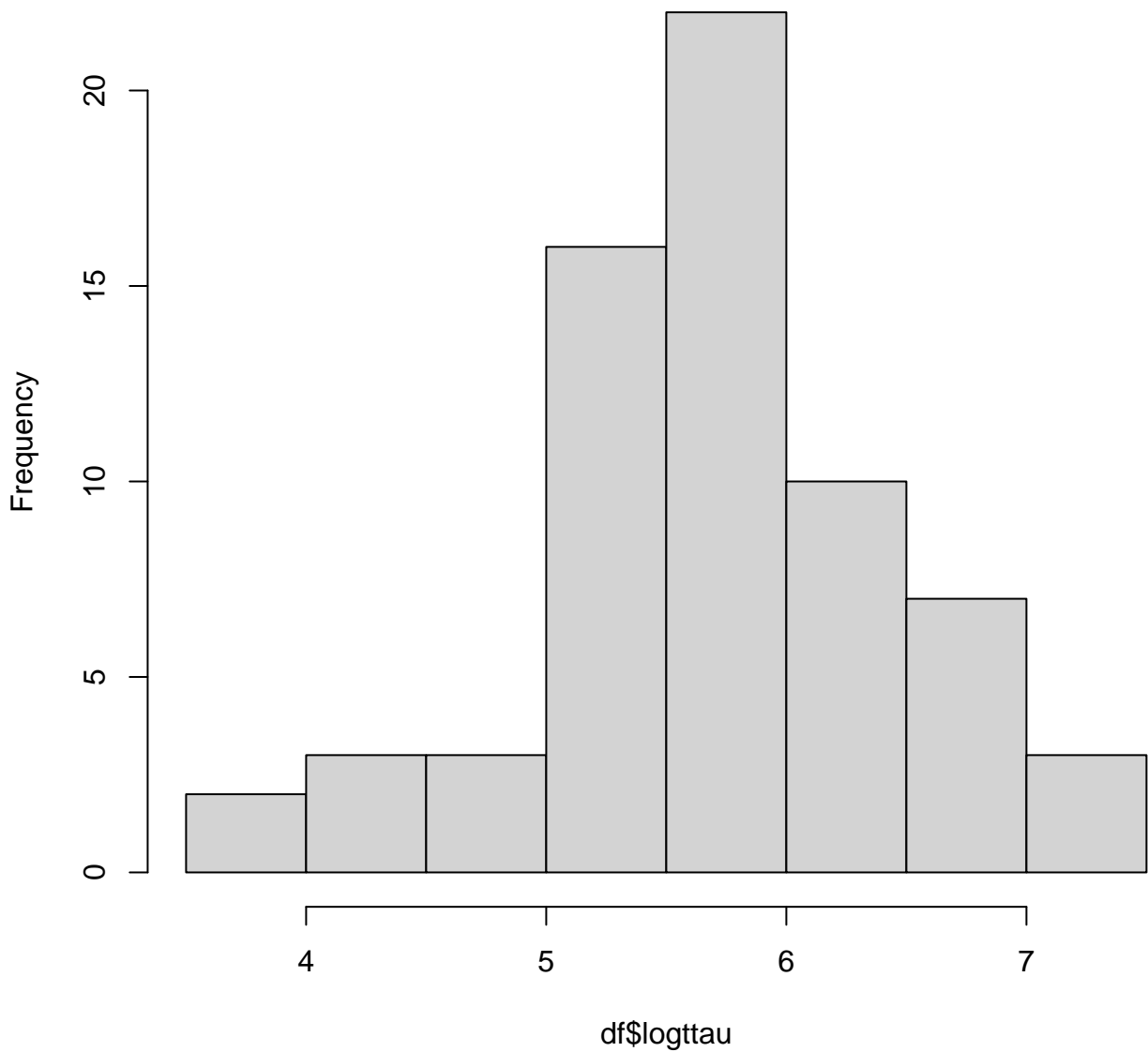




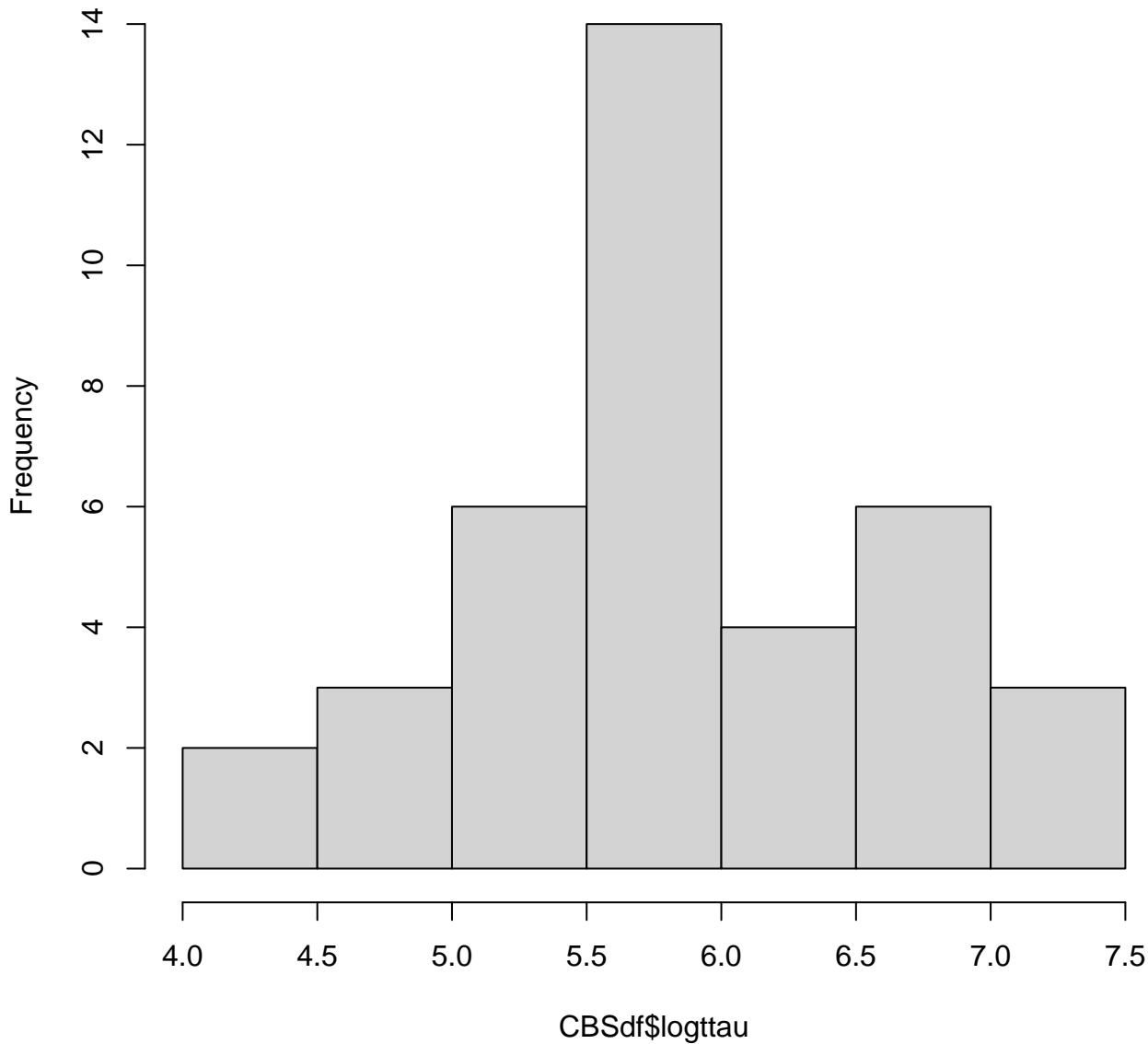




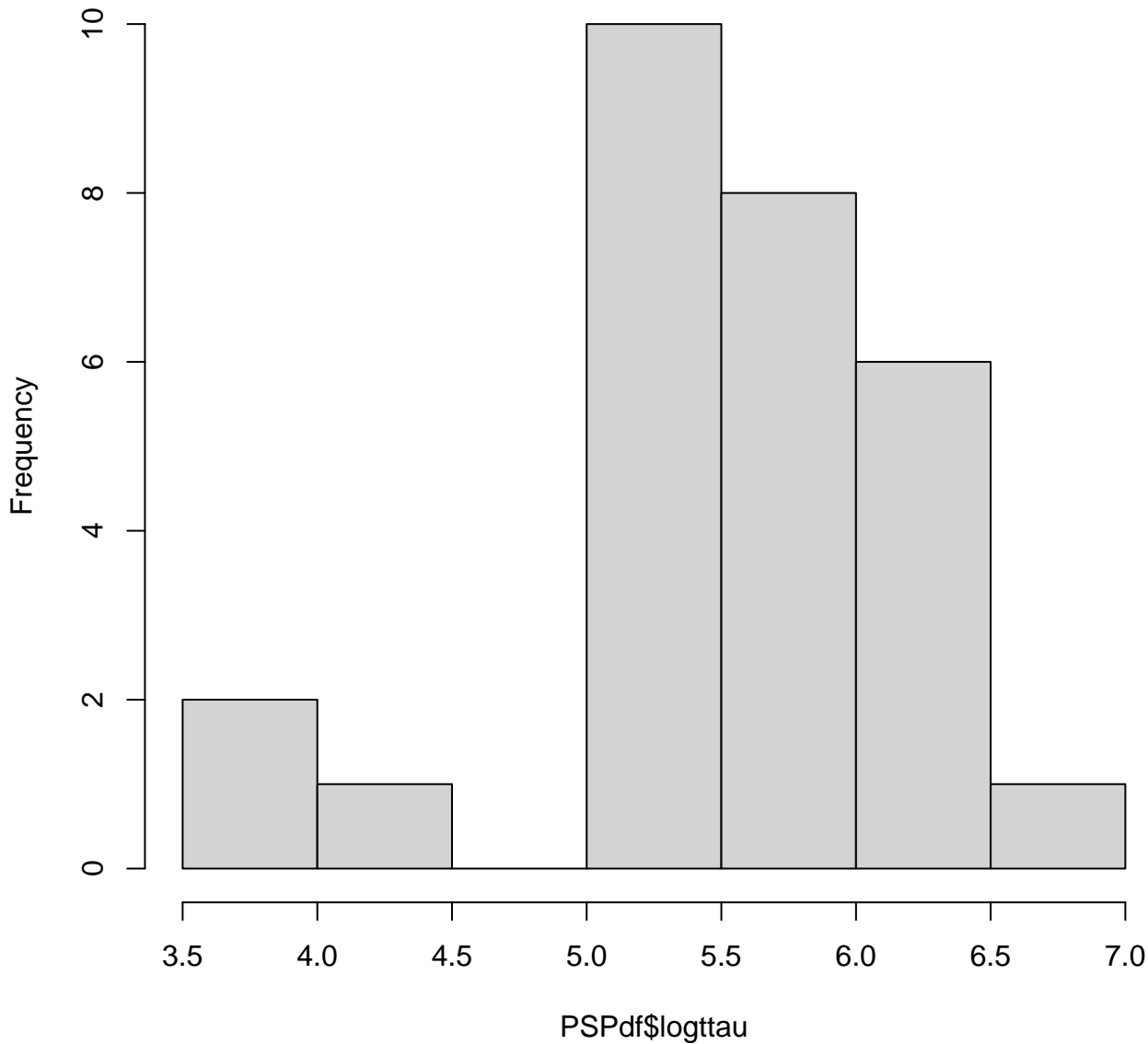
Histogram of df\$logttau

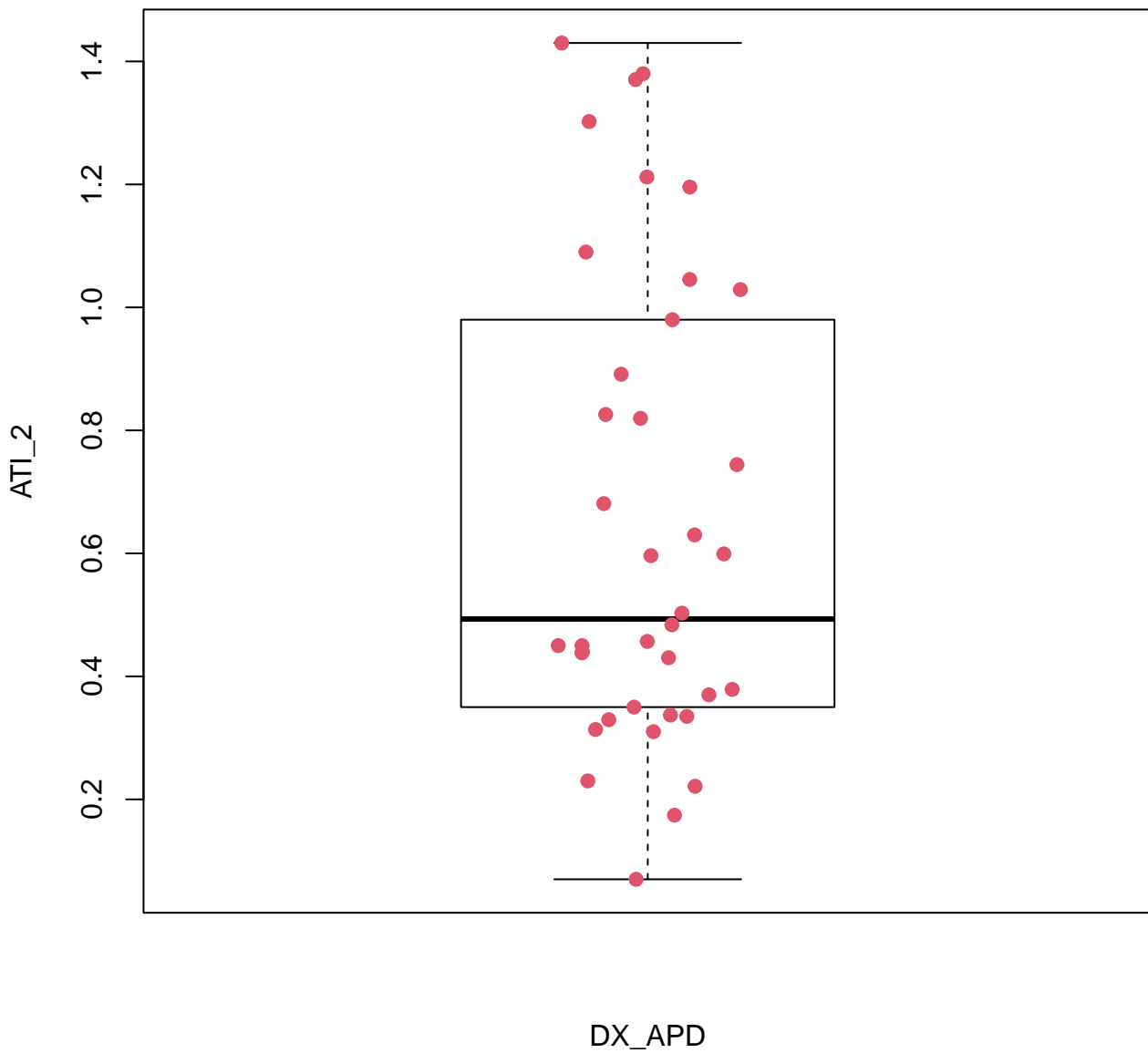


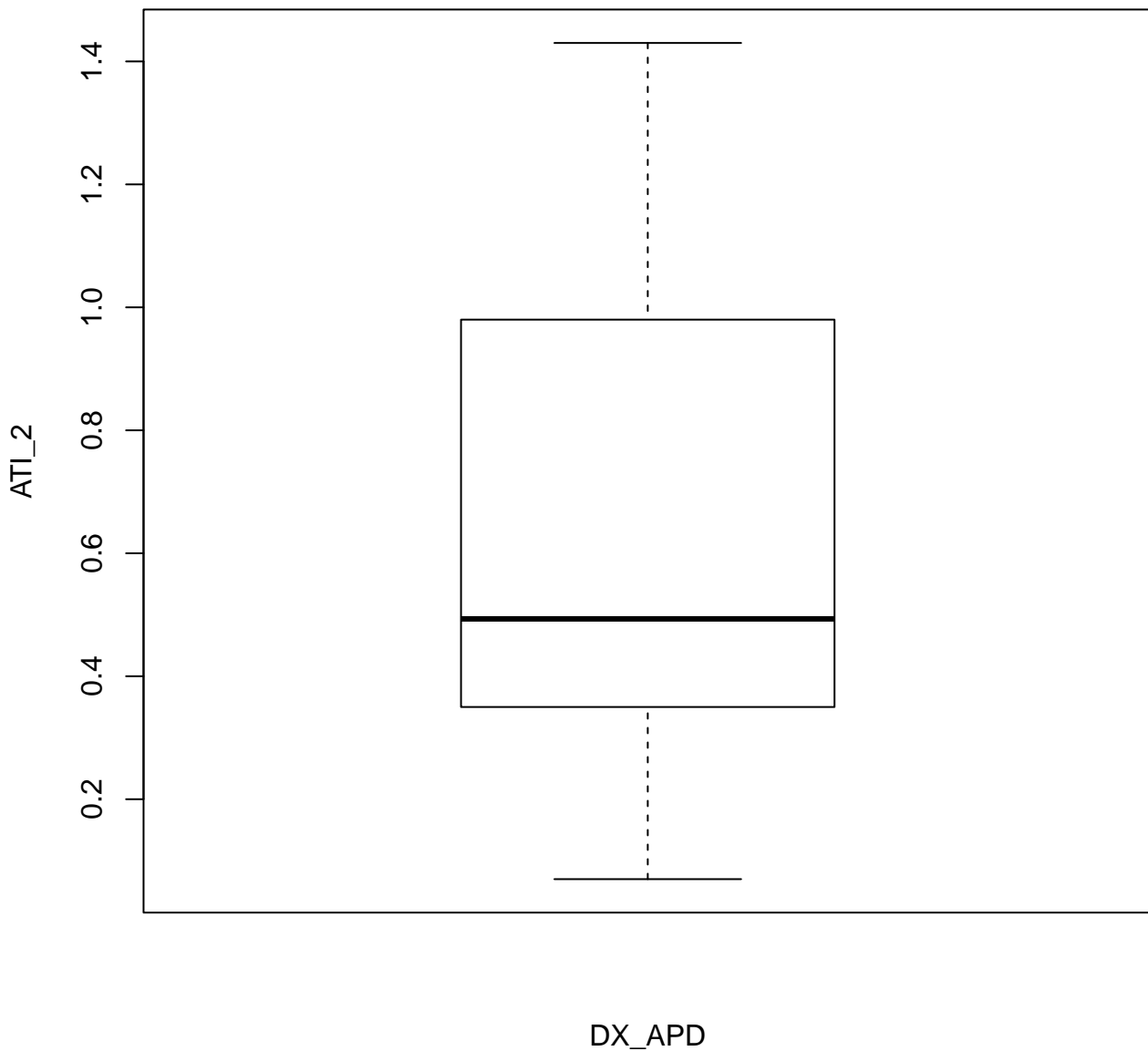
Histogram of CBSdf\$logttau

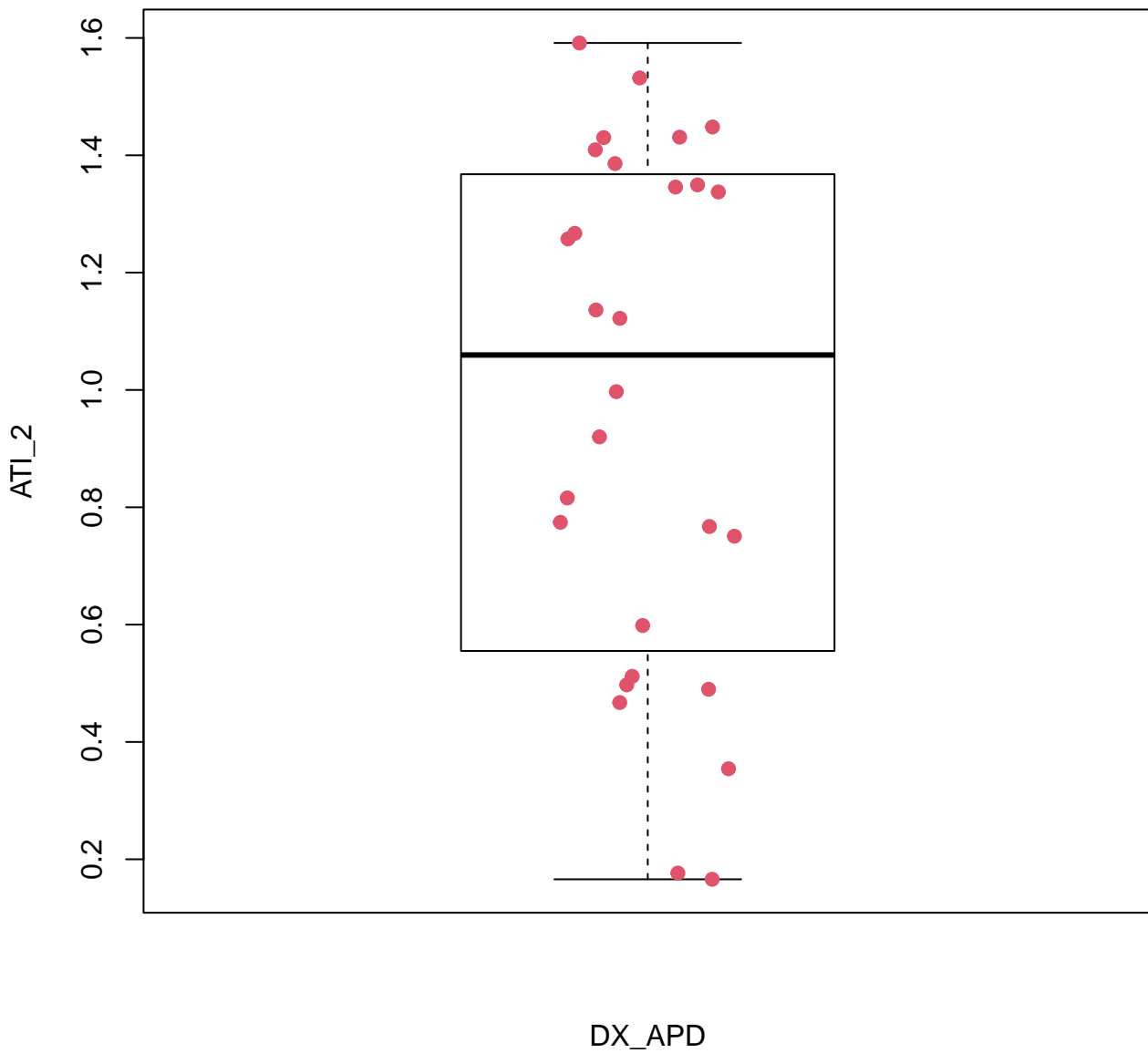


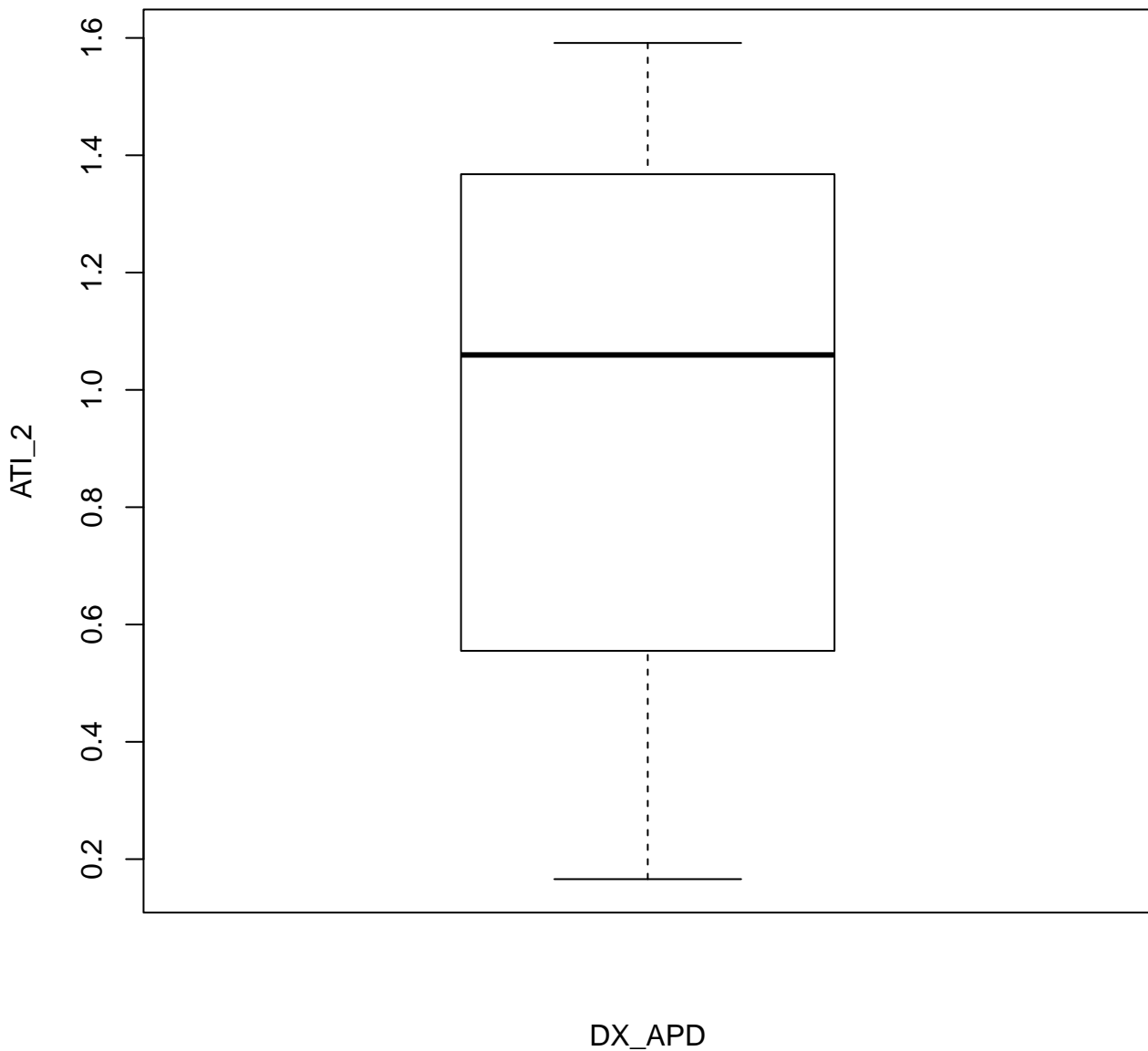
Histogram of PSPdf\$logttau



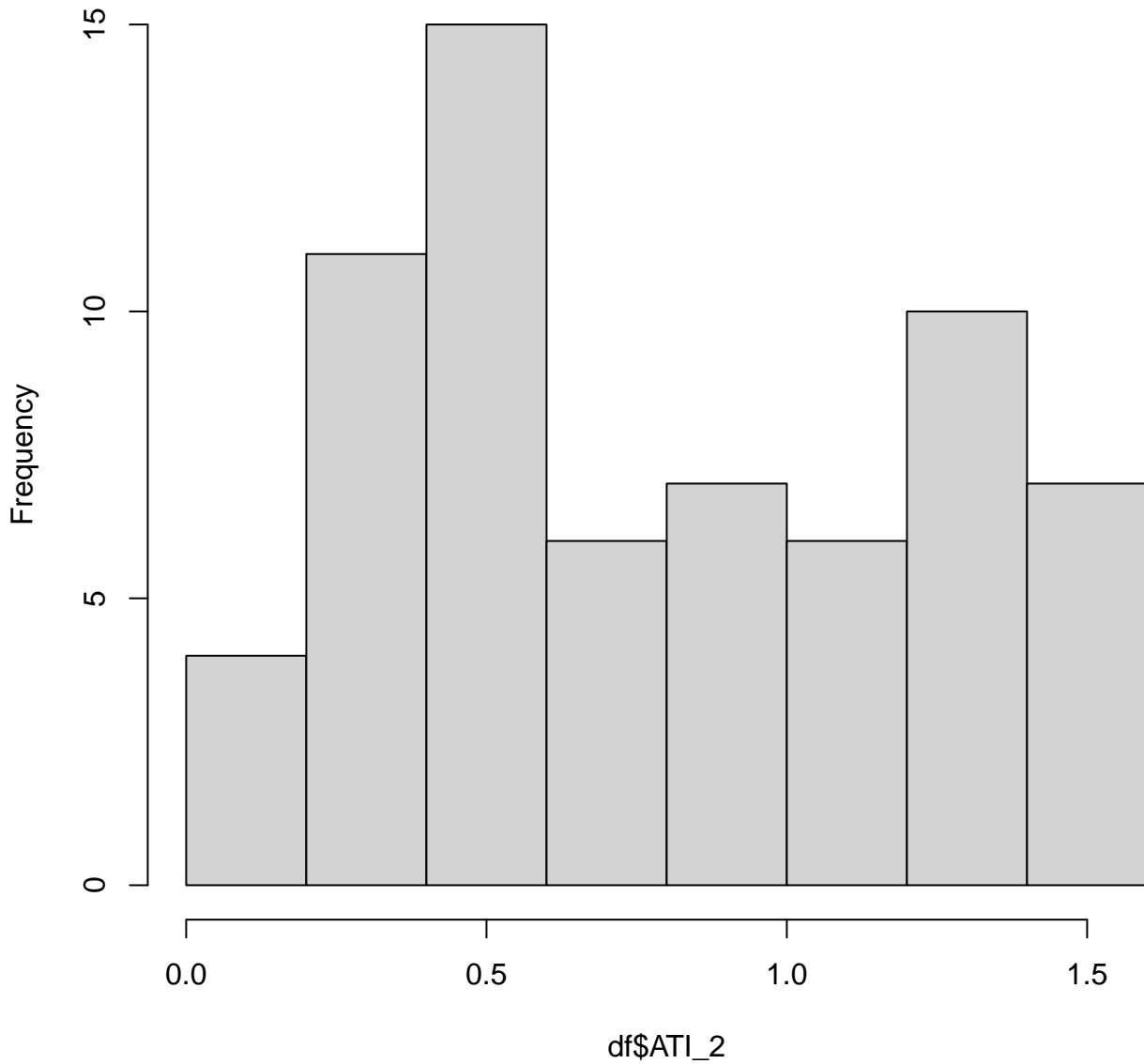




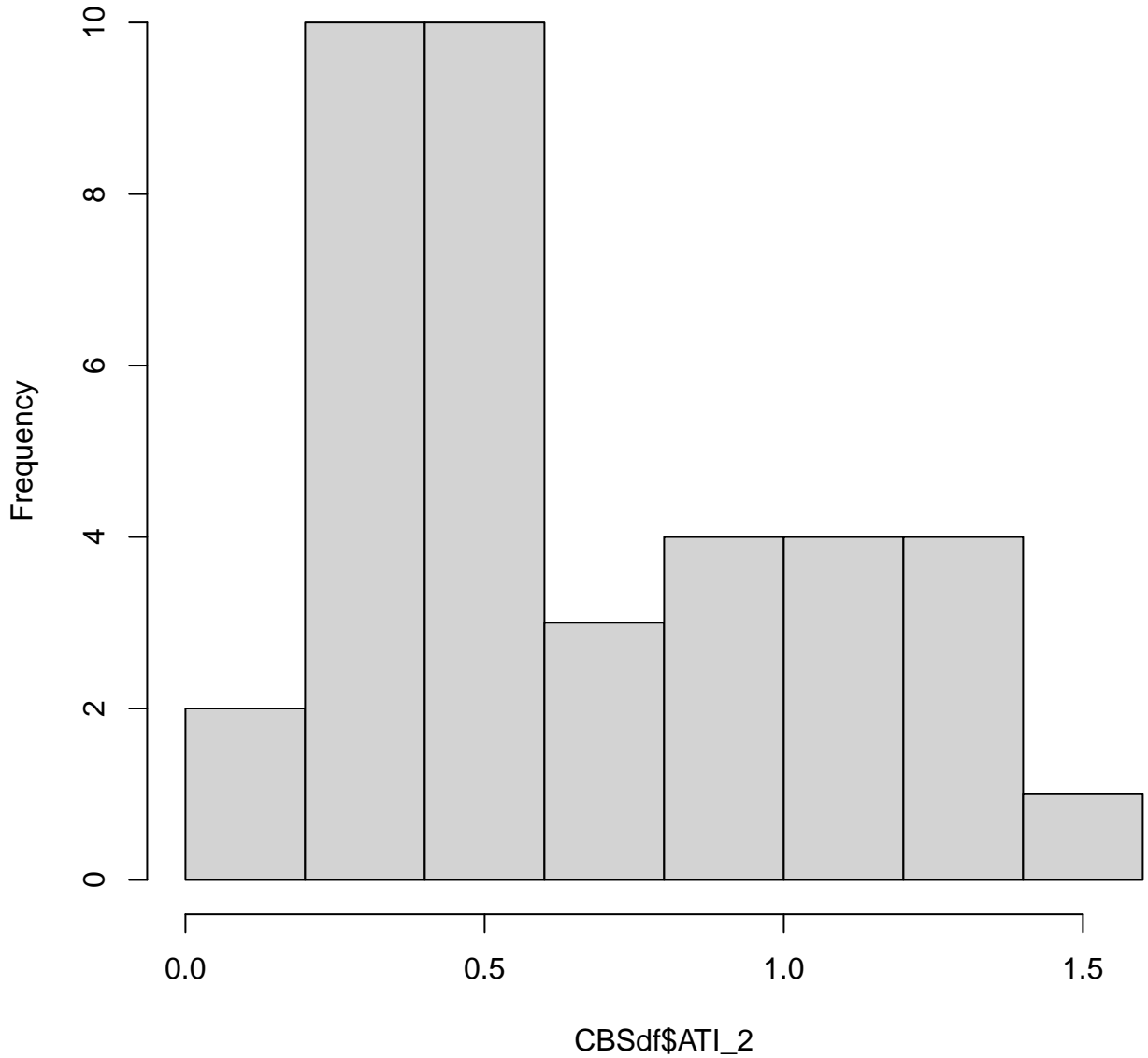




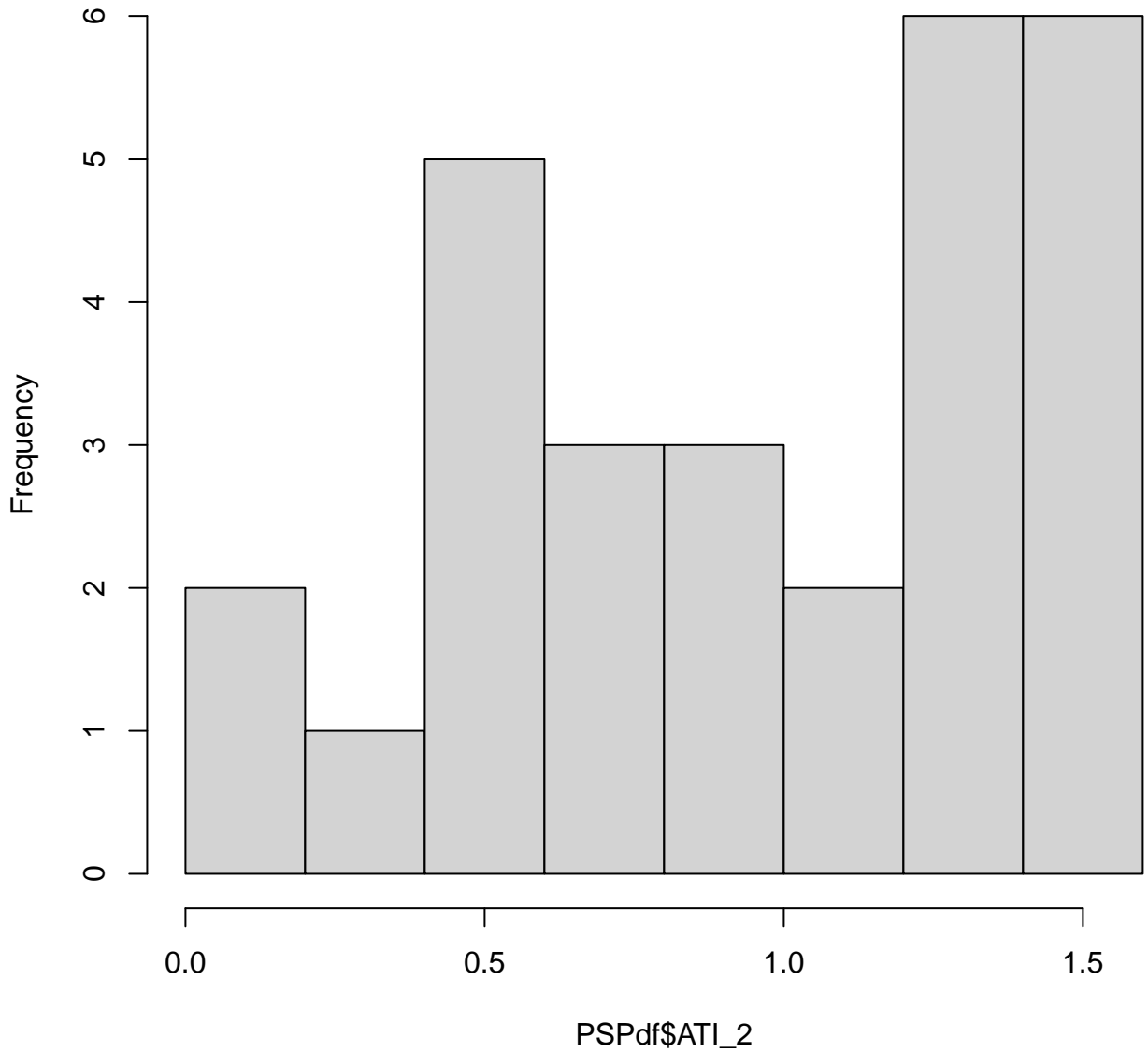
Histogram of df\$ATI_2

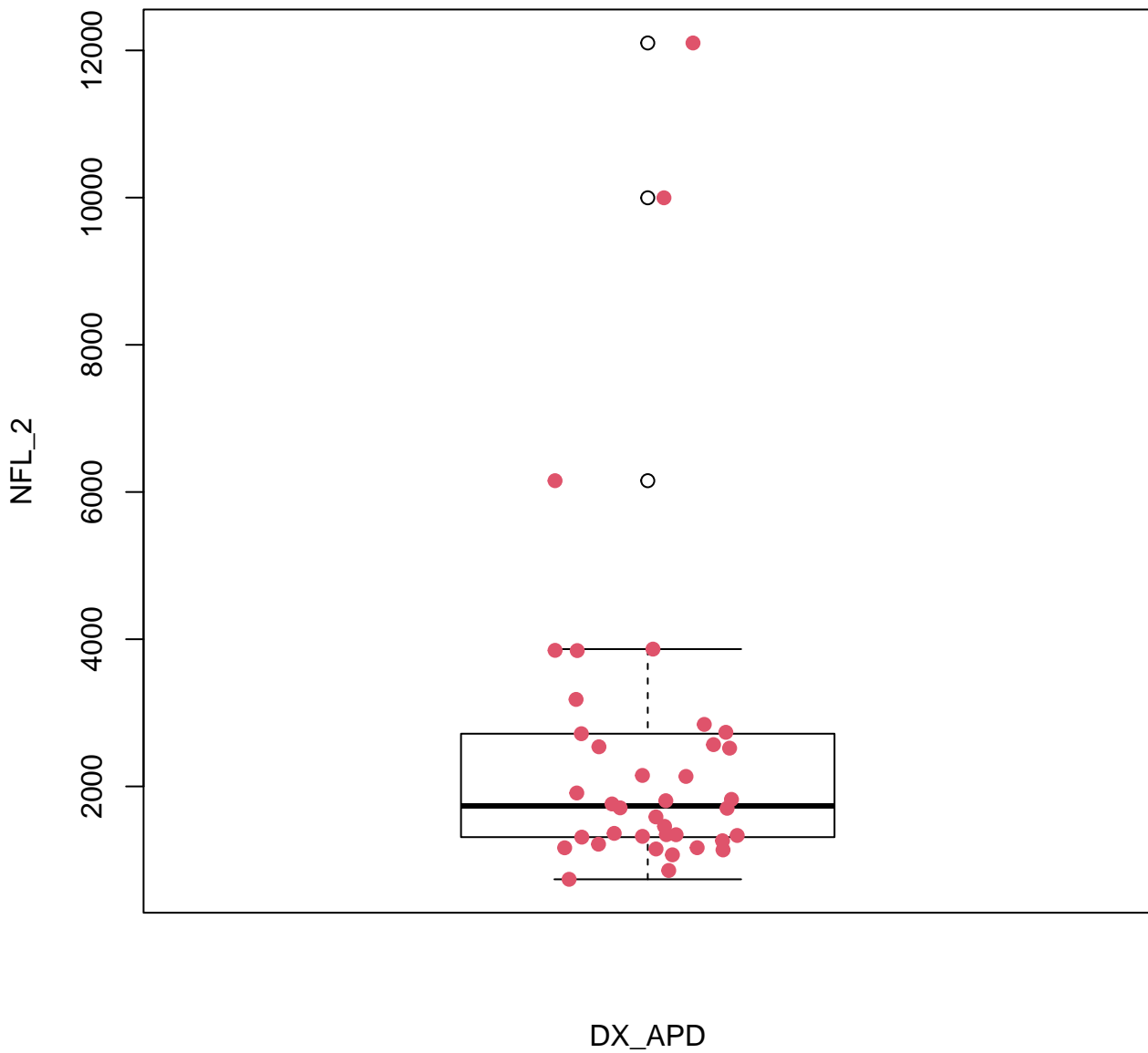


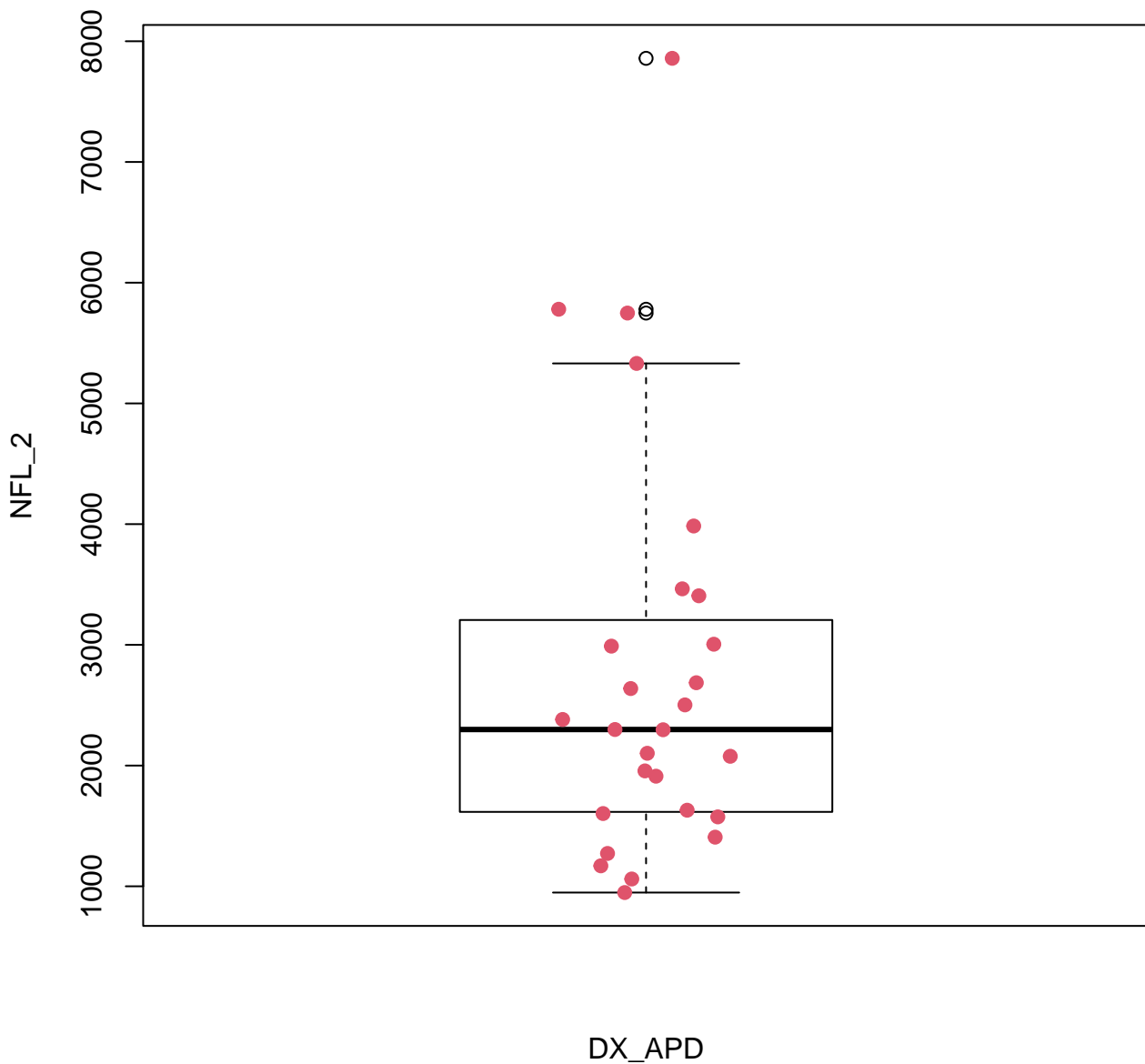
Histogram of CBSdf\$ATI_2



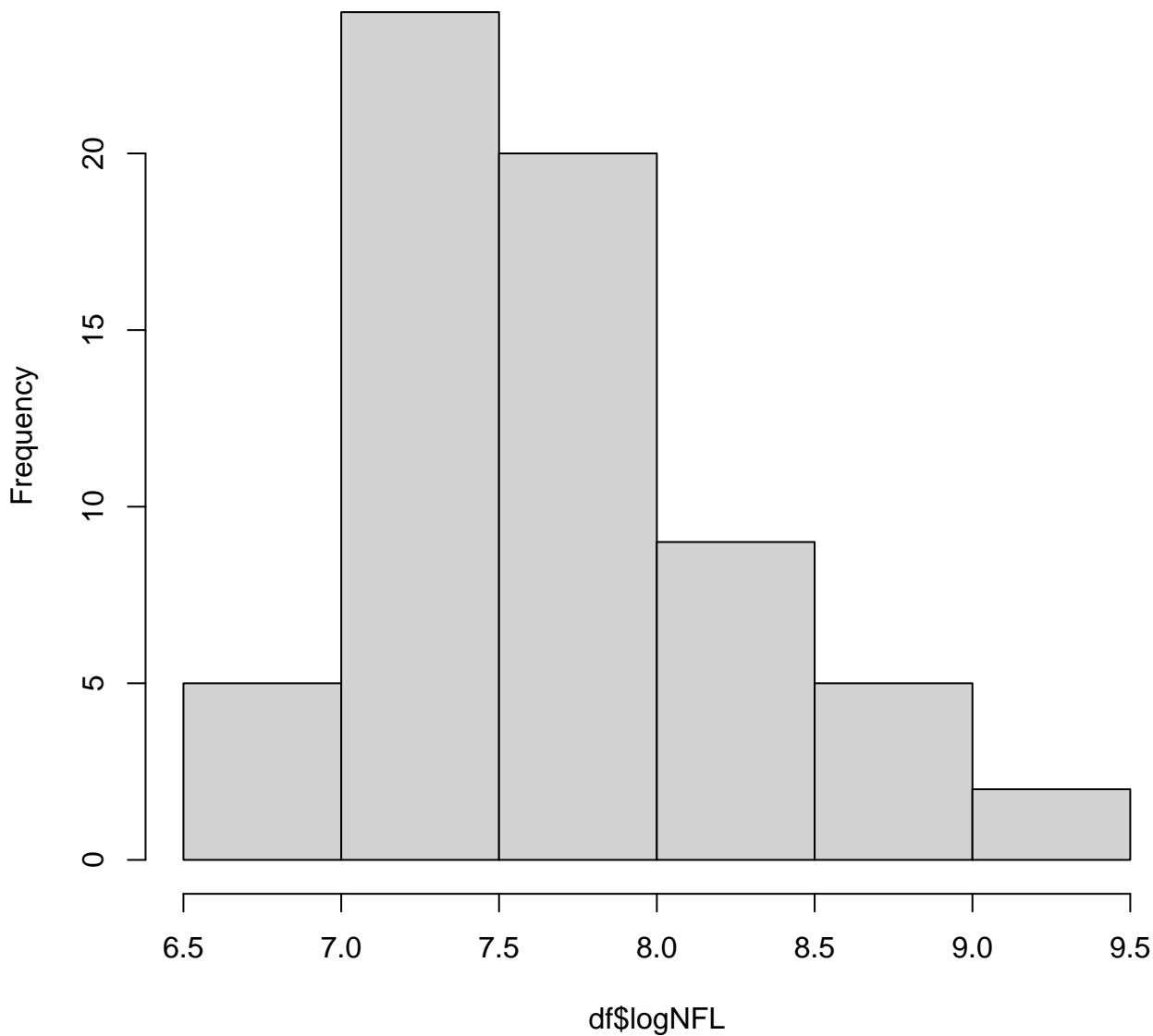
Histogram of PSPdf\$ATI_2



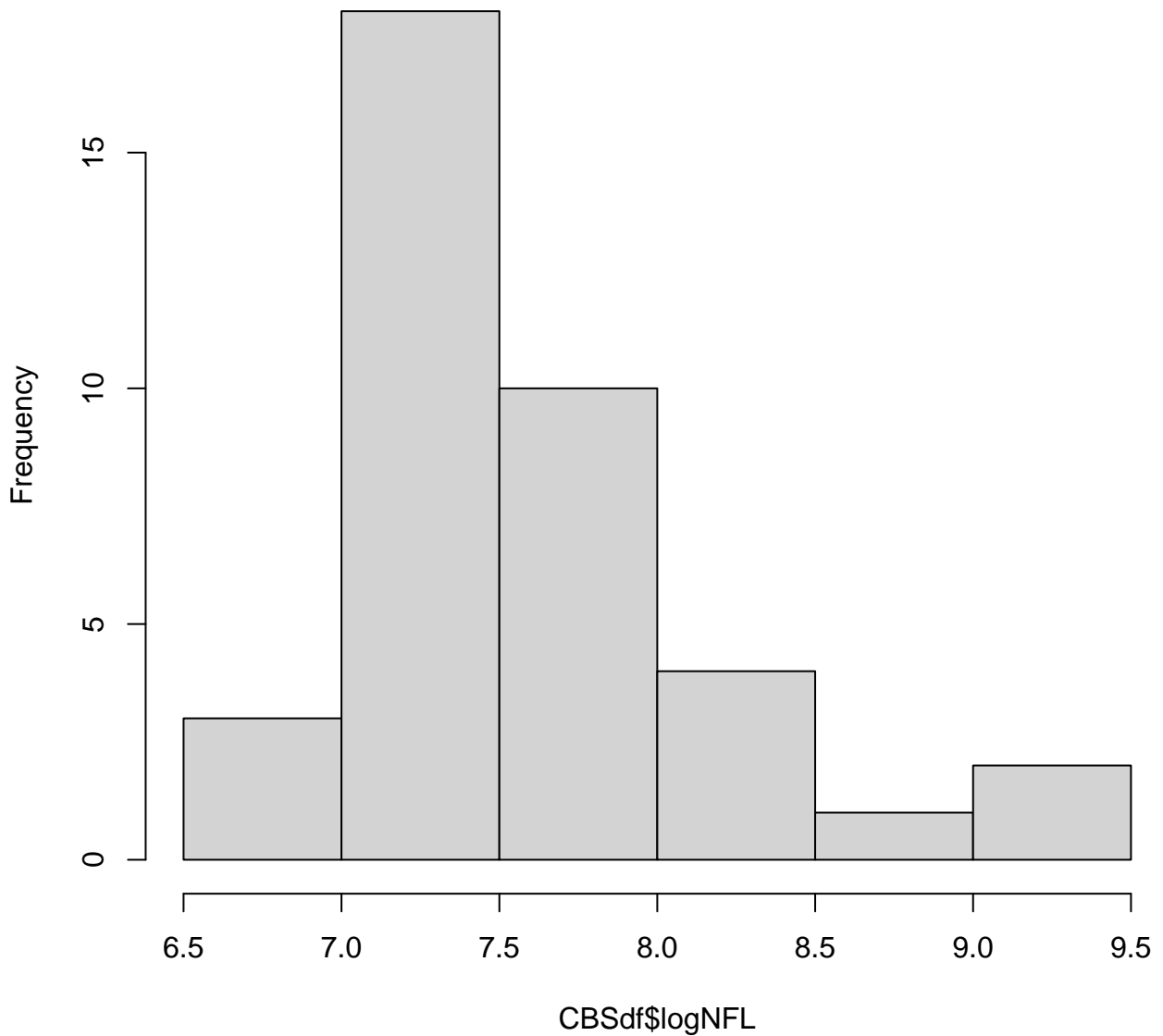




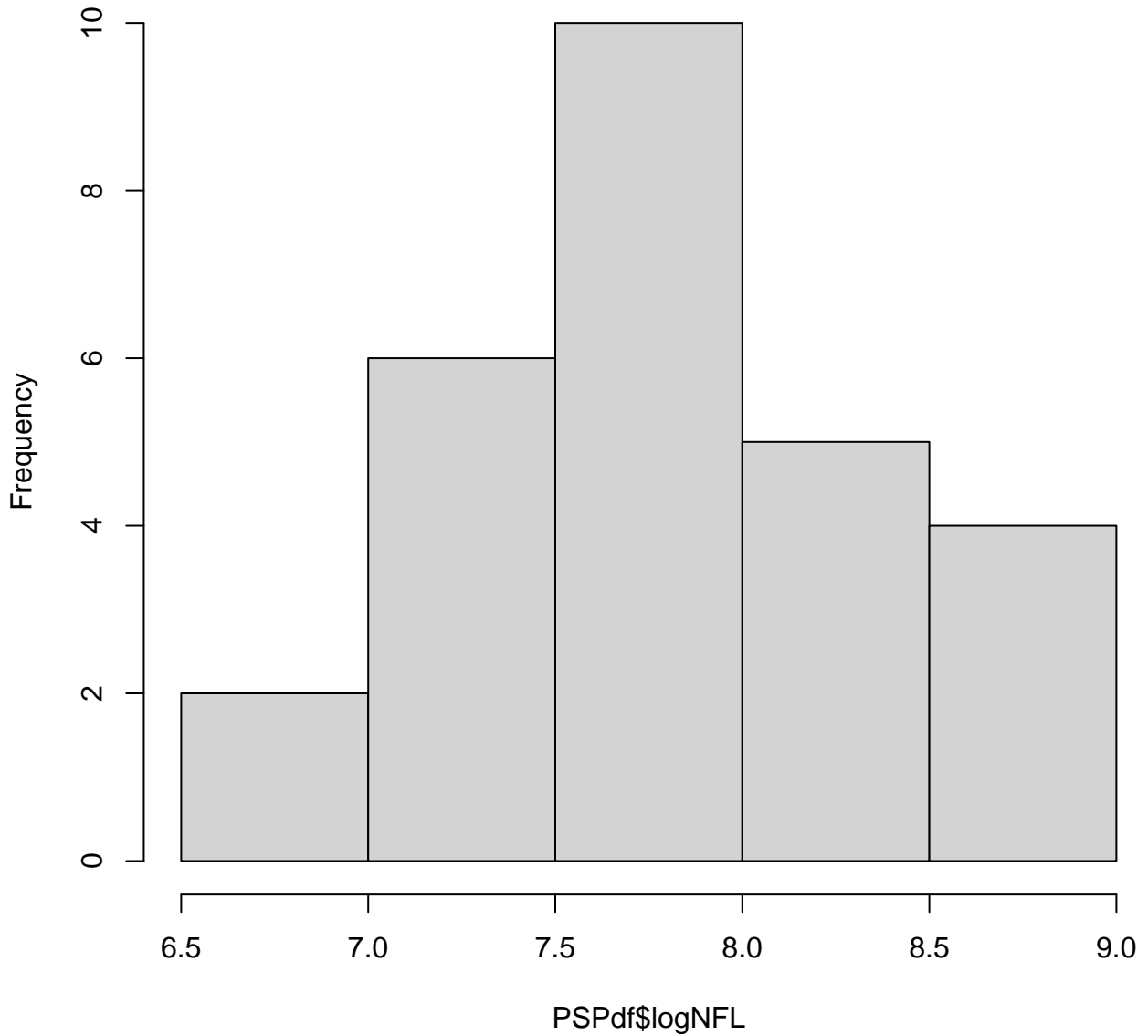
Histogram of df\$logNFL

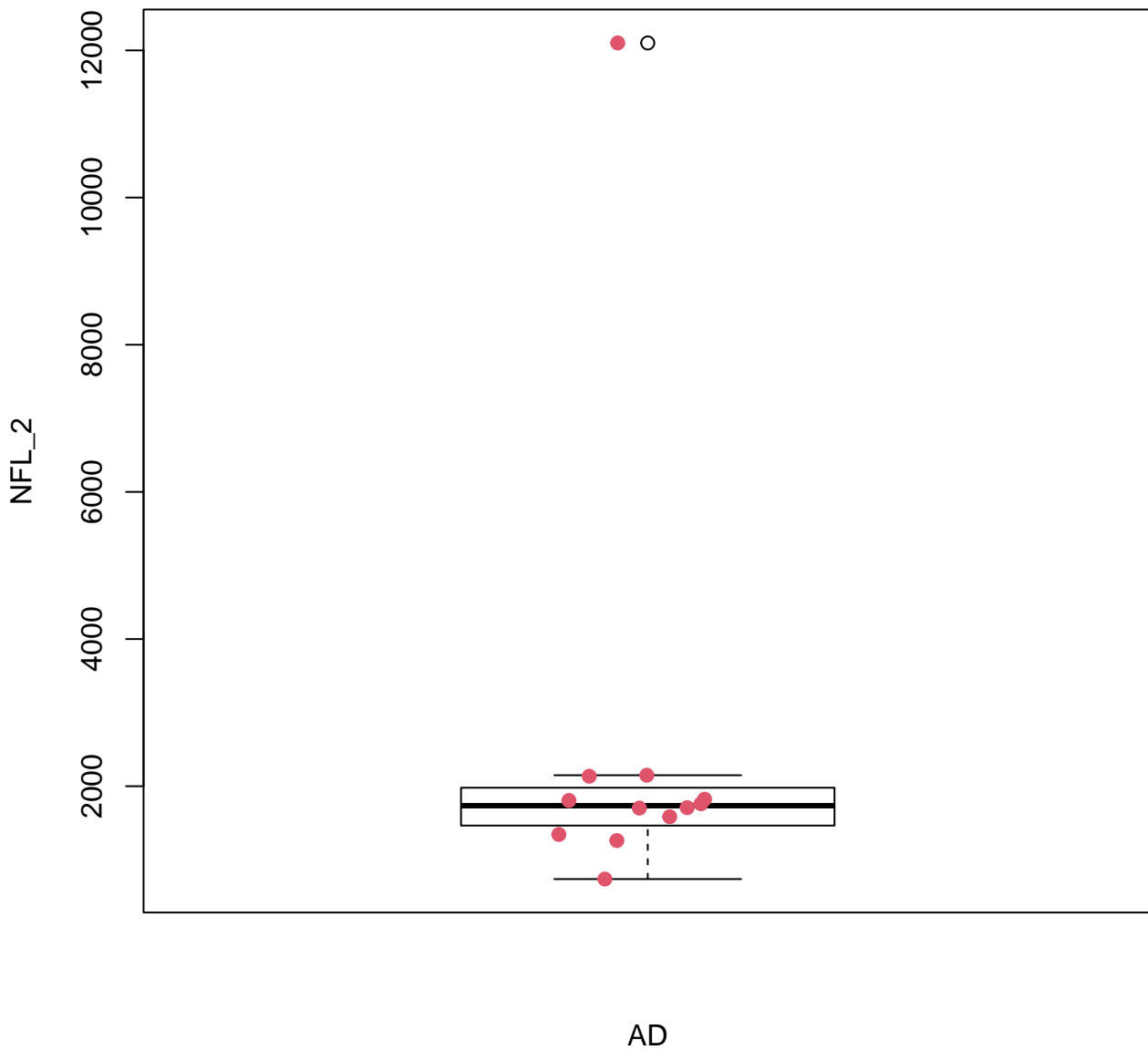


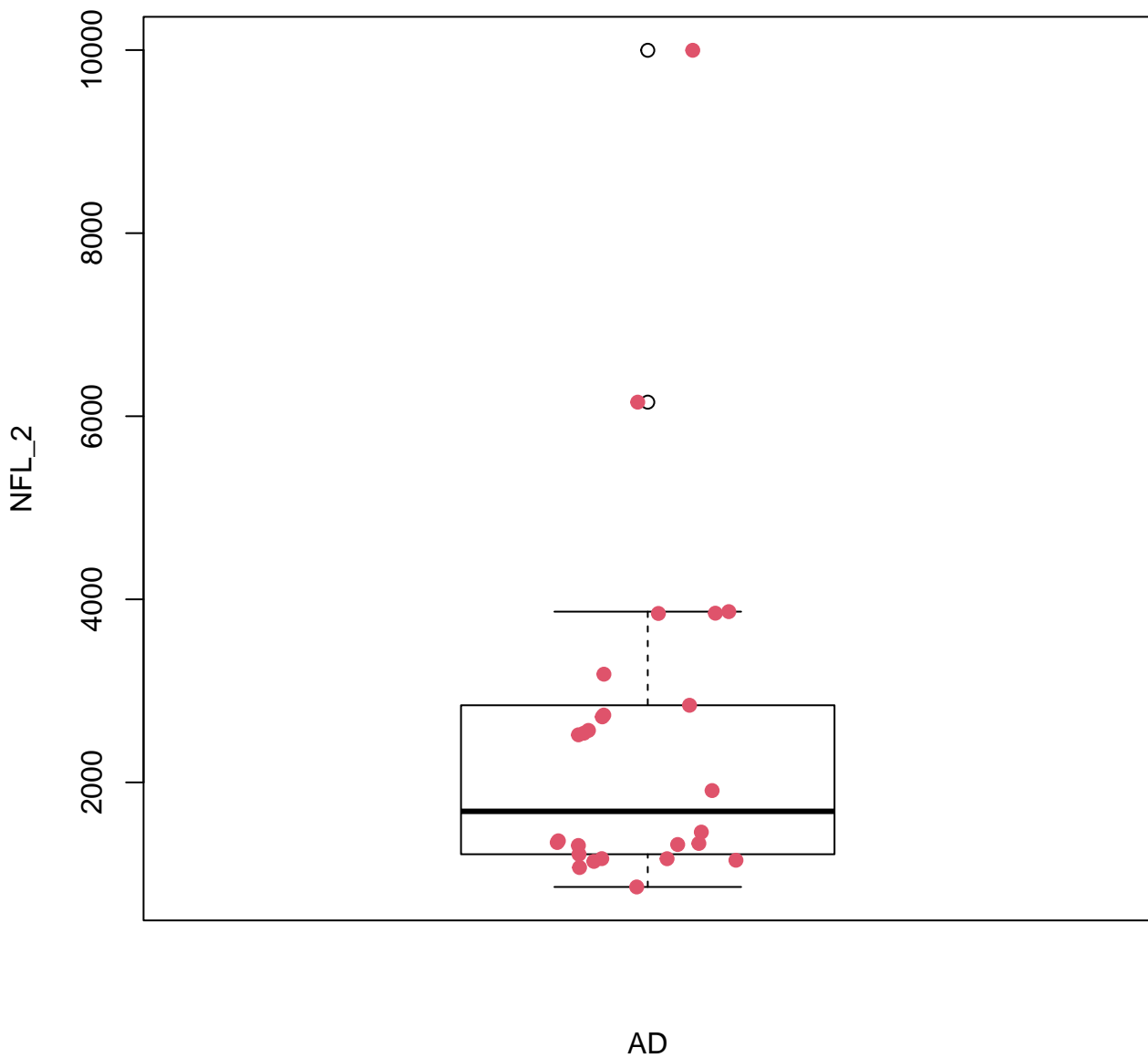
Histogram of CBSdf\$logNFL



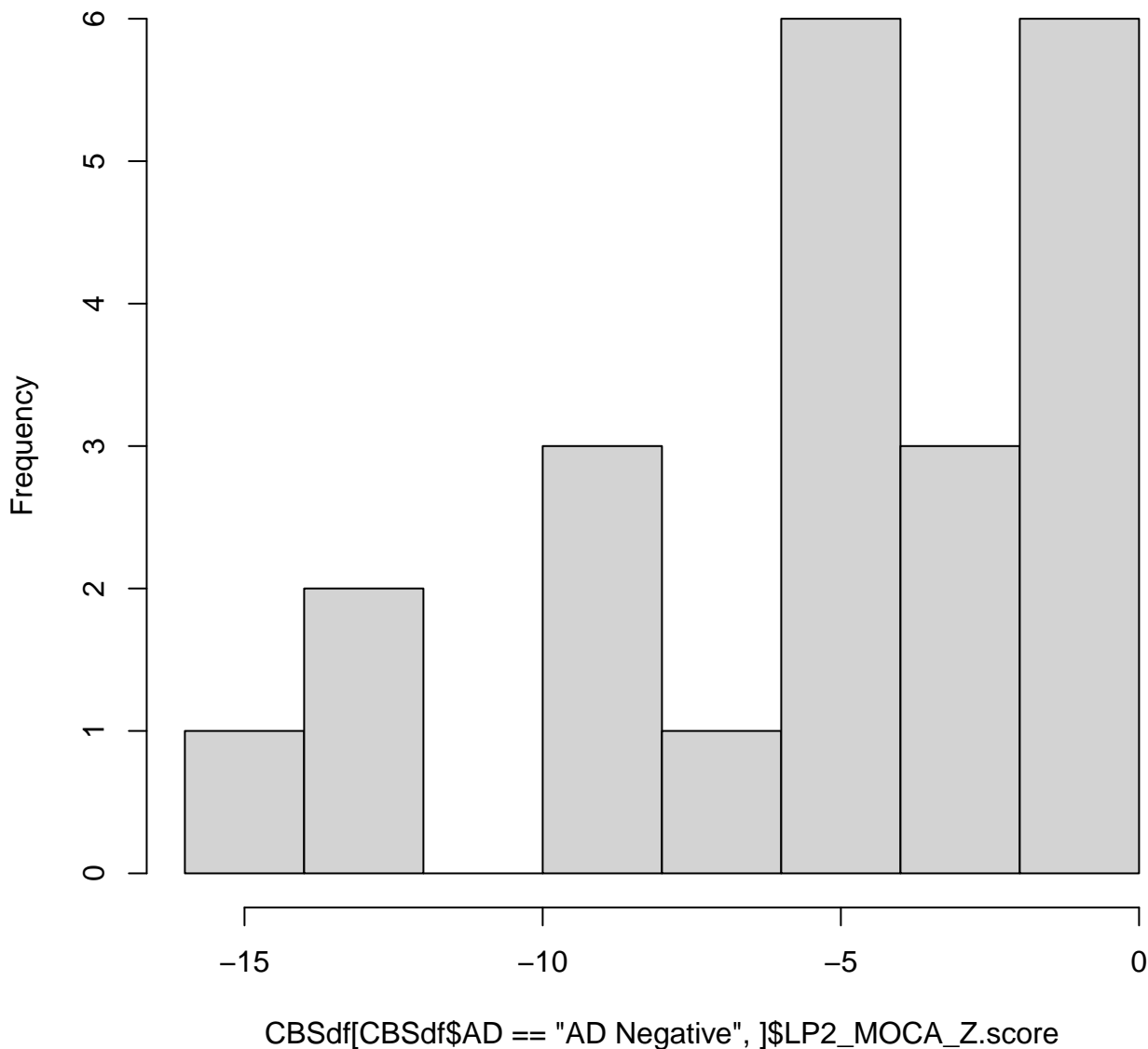
Histogram of PSPdf\$logNFL

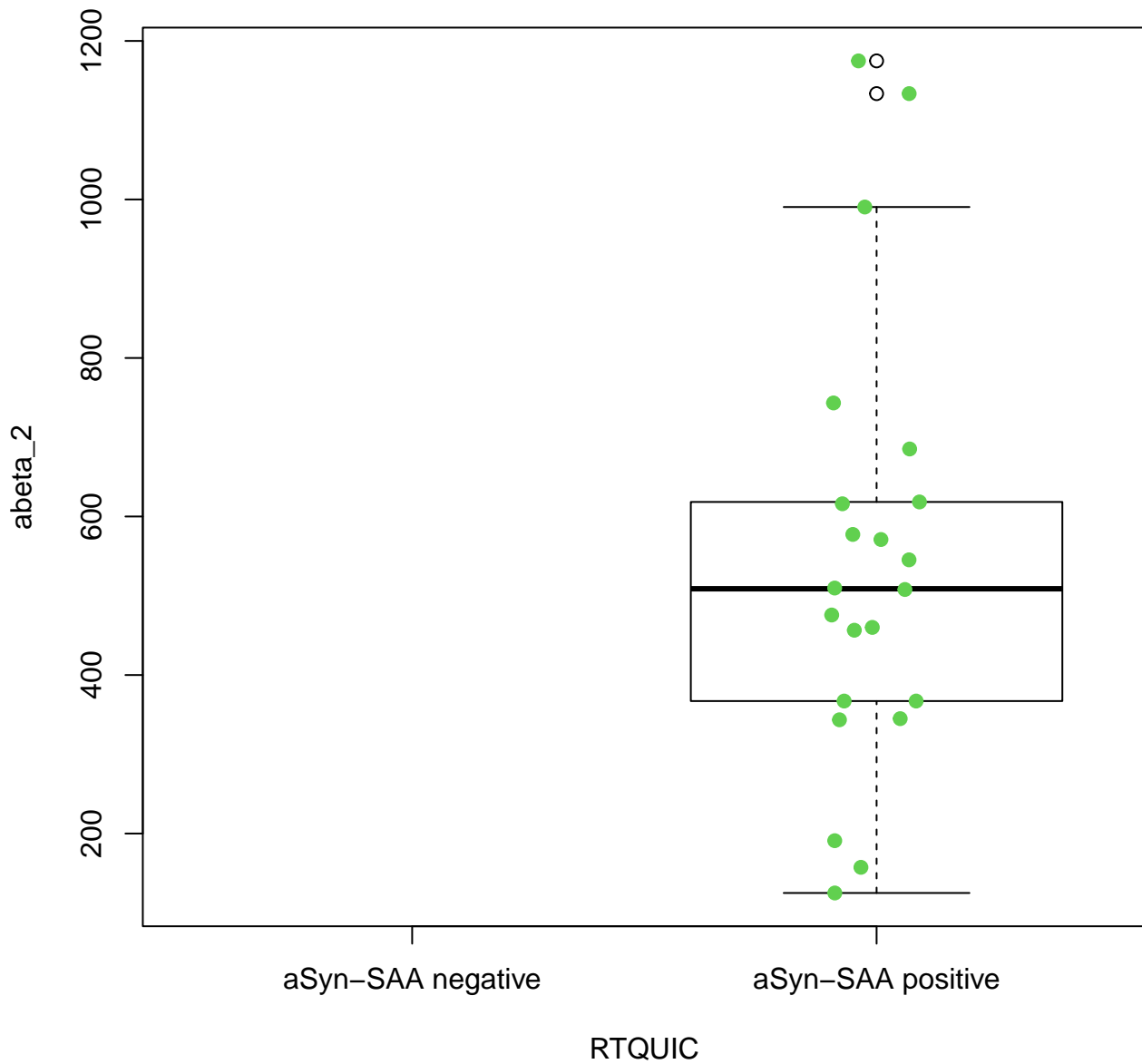


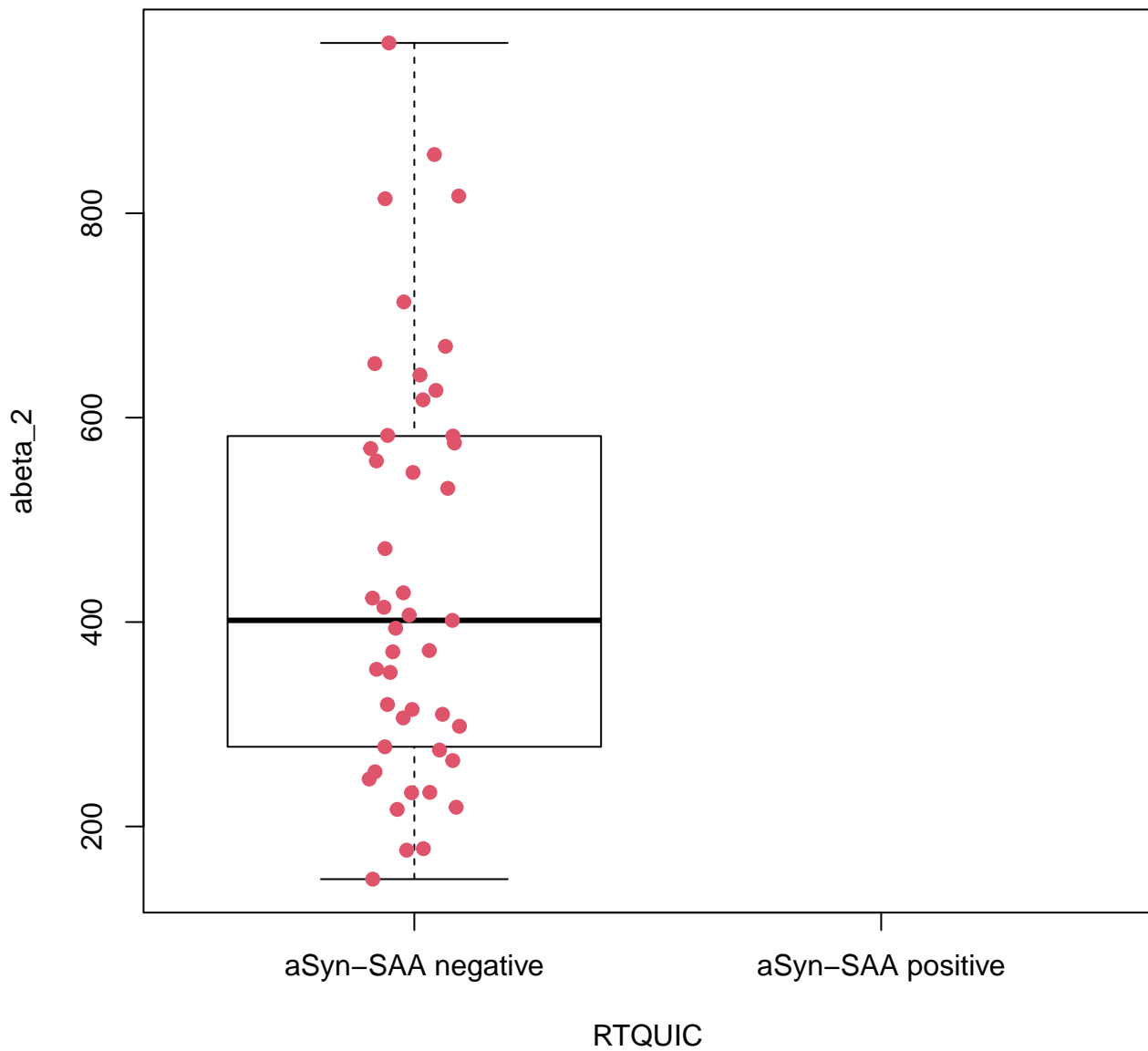


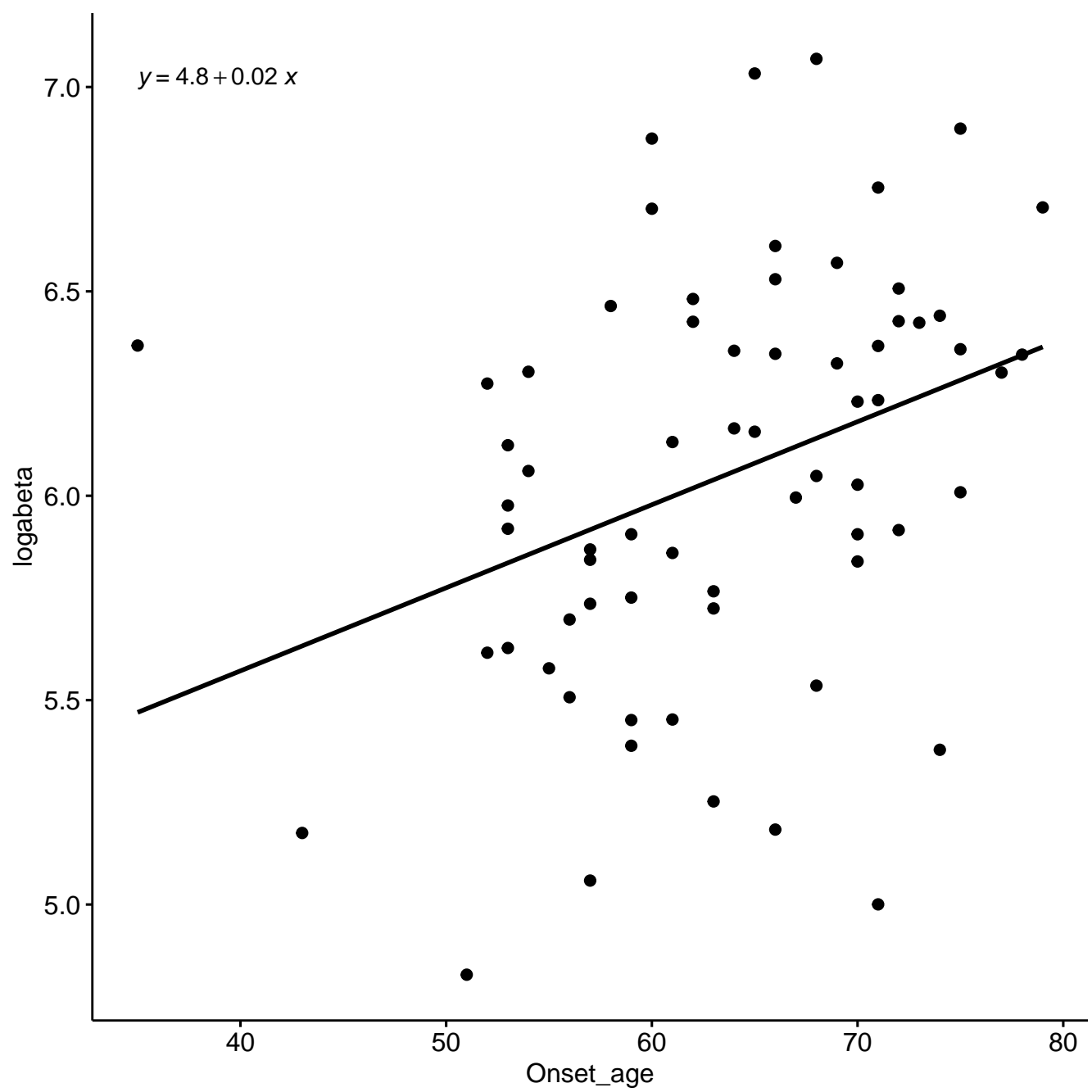


Histogram of CBSdf[CBSdf\$AD == "AD Negative",]\$LP2_MOCA_Z.score



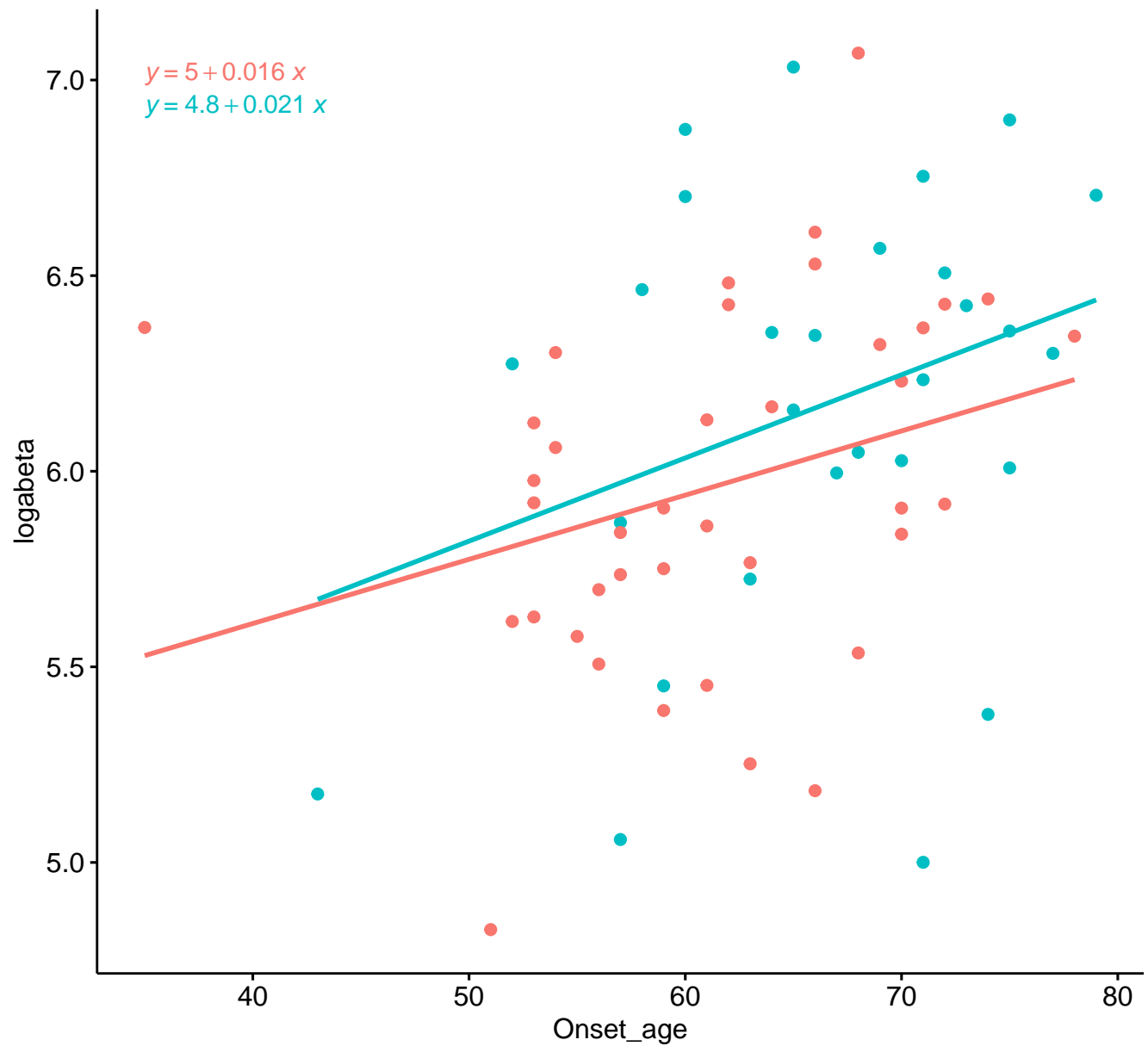




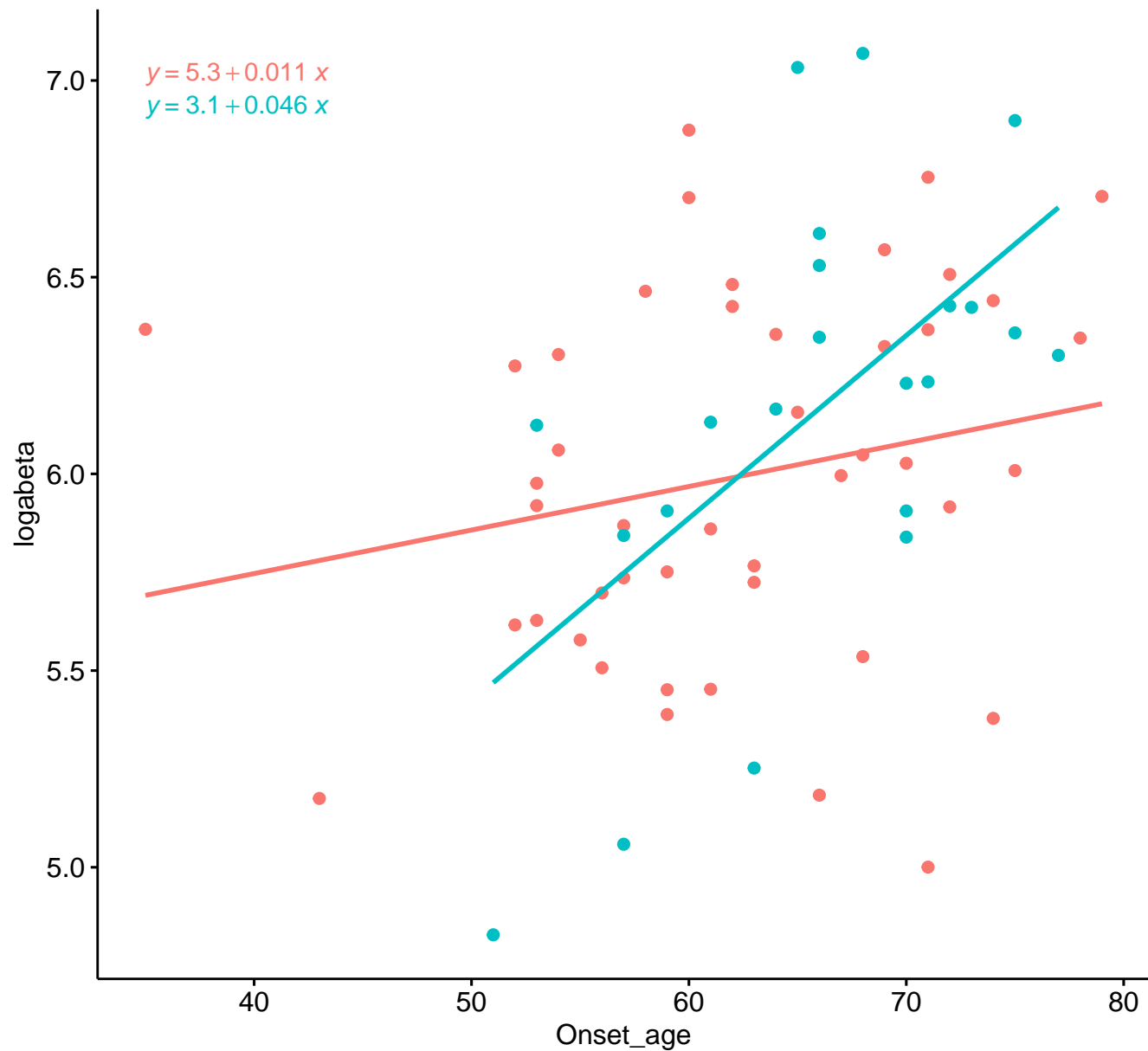


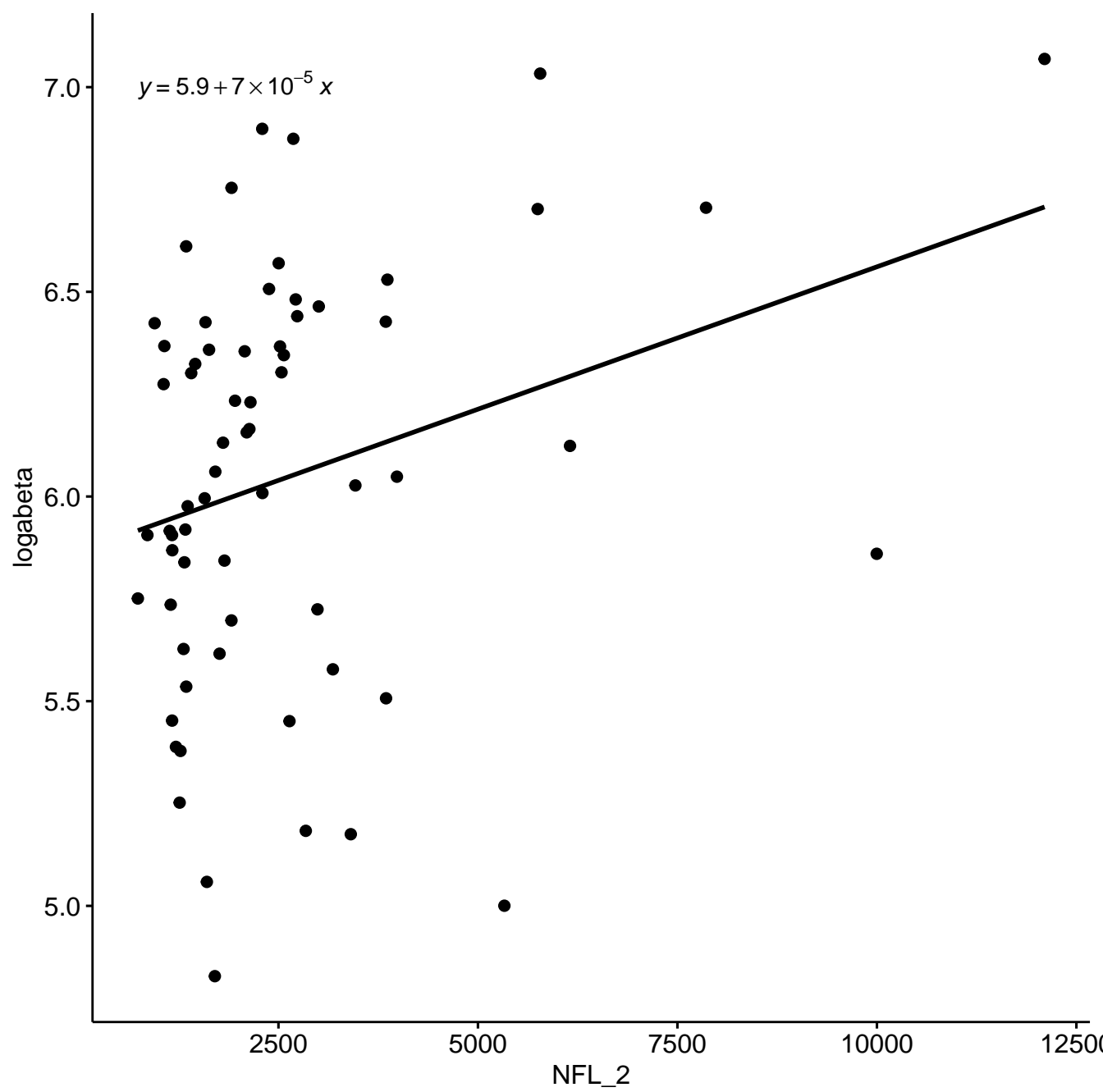
DX_APD CBS PSP

$$y = 5 + 0.016x$$
$$y = 4.8 + 0.021x$$

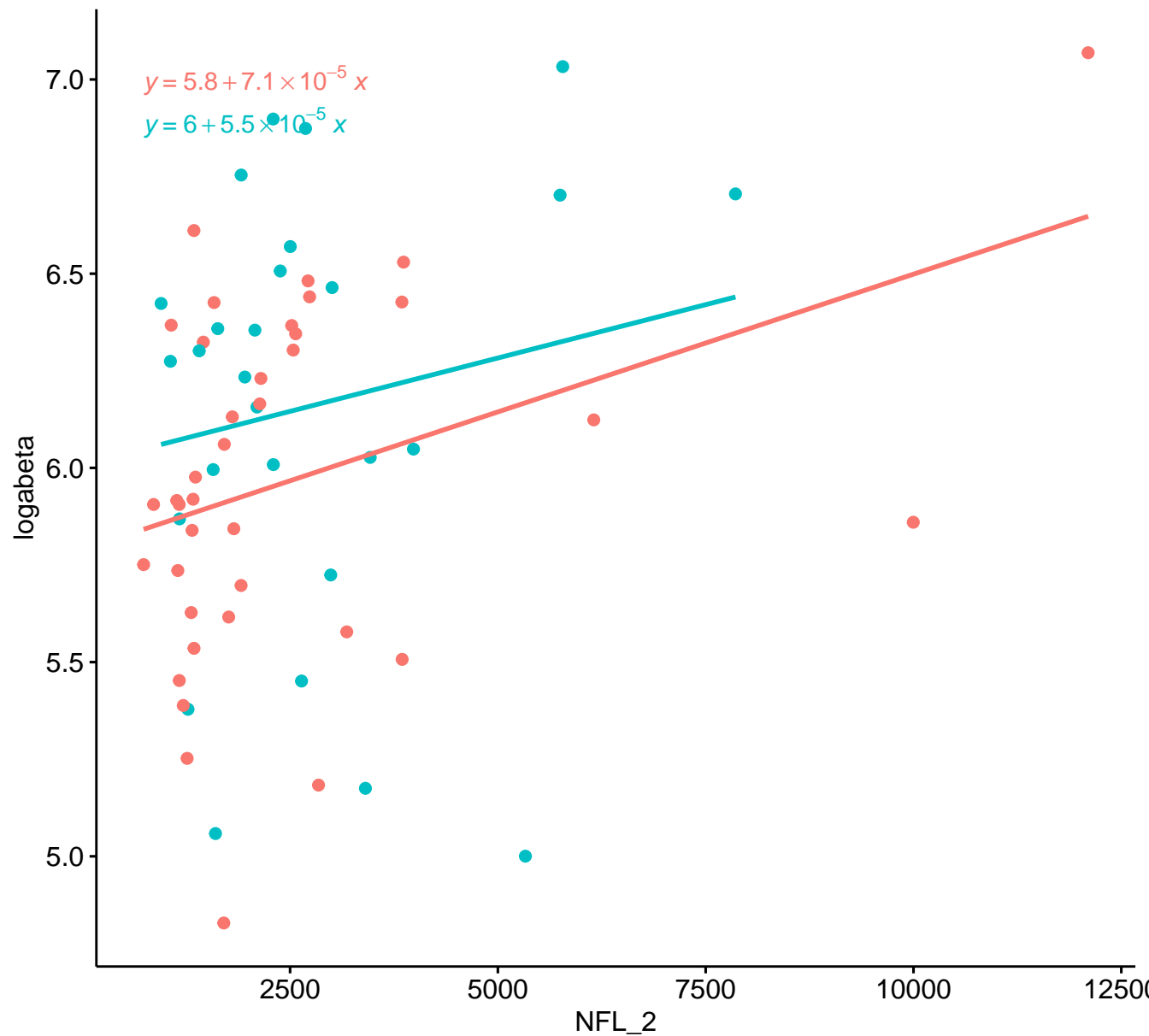


RTQUIC aSyn-SAA negative aSyn-SAA positive

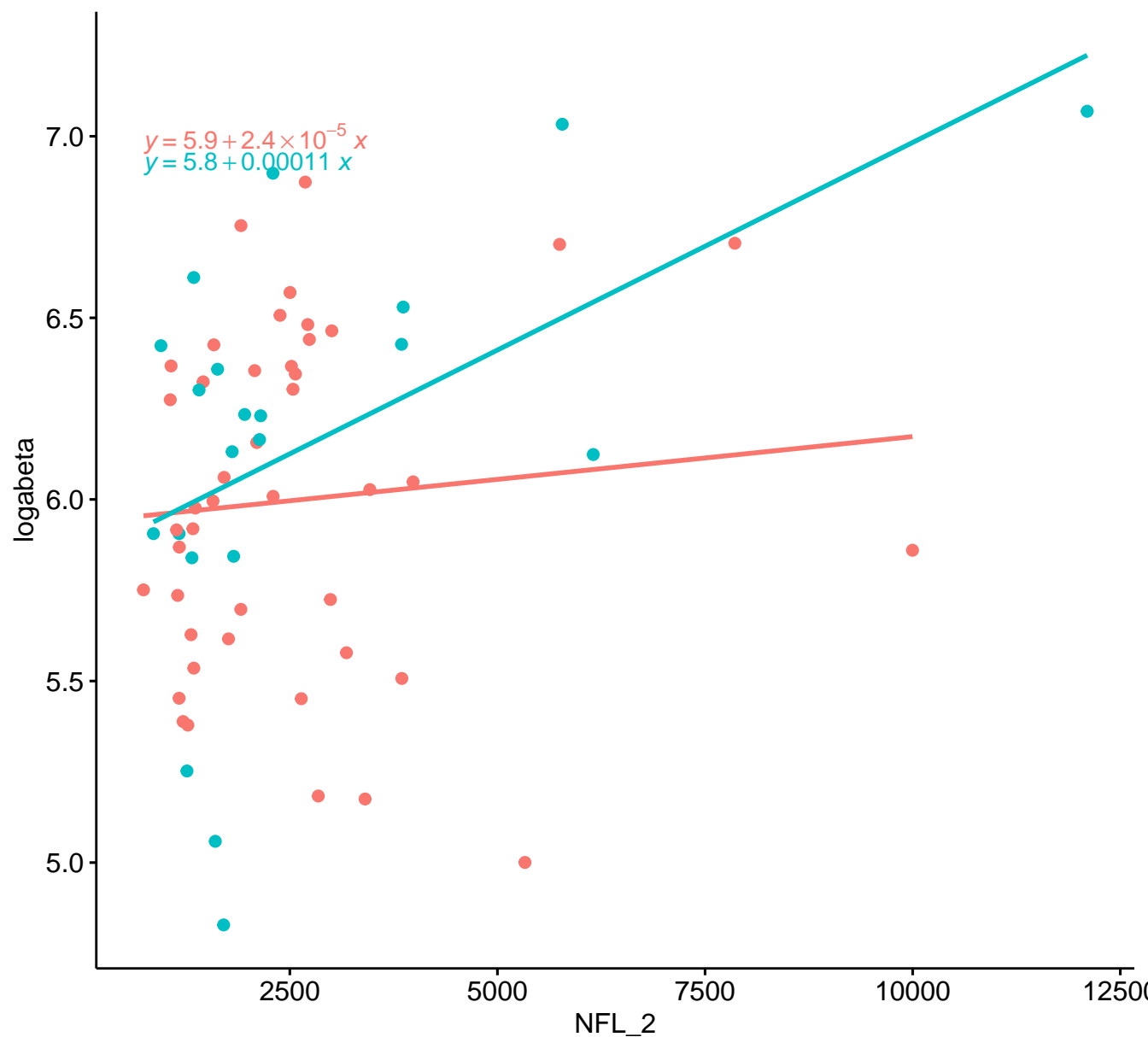




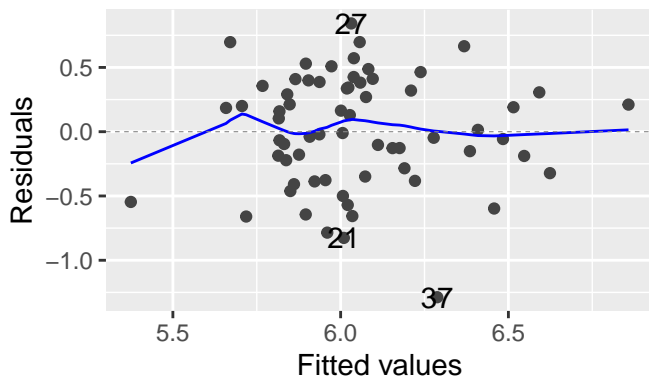
DX_APD CBS PSP



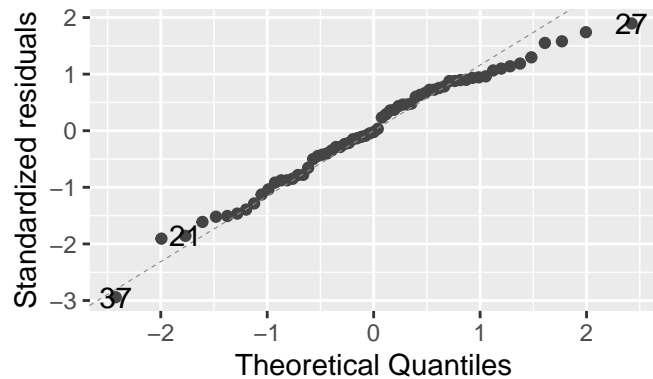
RTQUIC aSyn-SAA negative aSyn-SAA positive



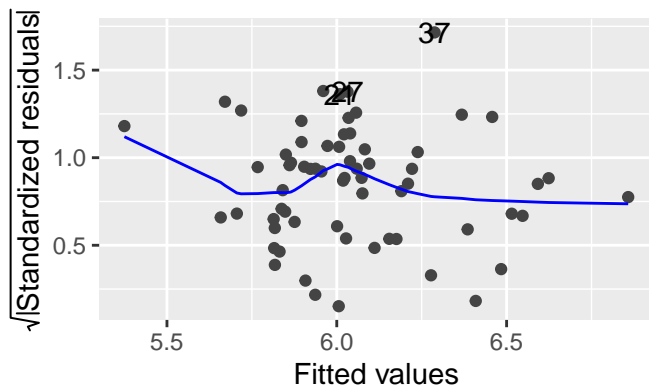
Residuals vs Fitted



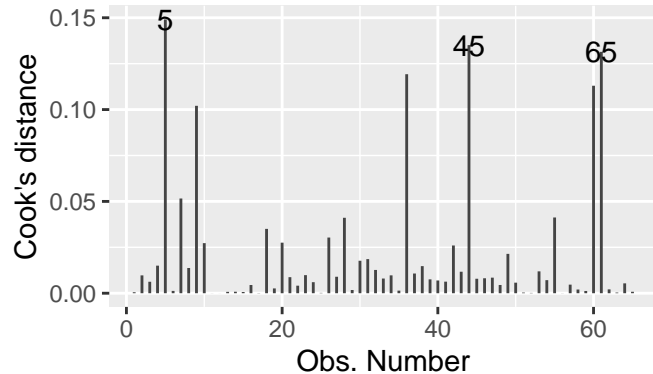
Normal Q-Q



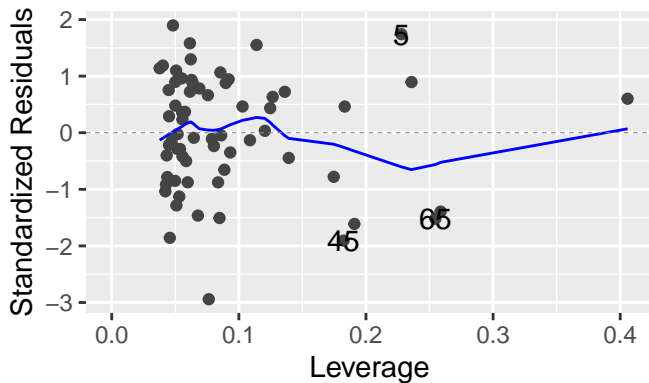
Scale-Location



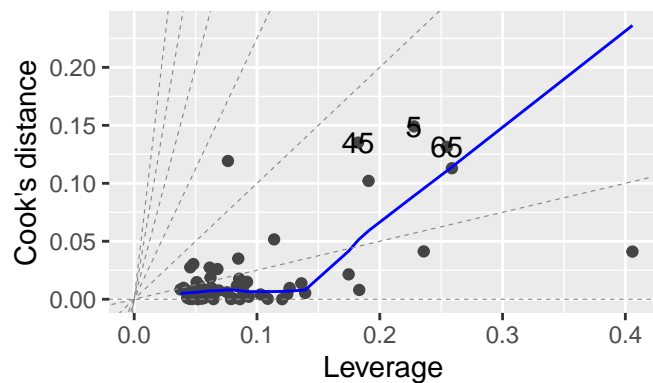
Cook's distance

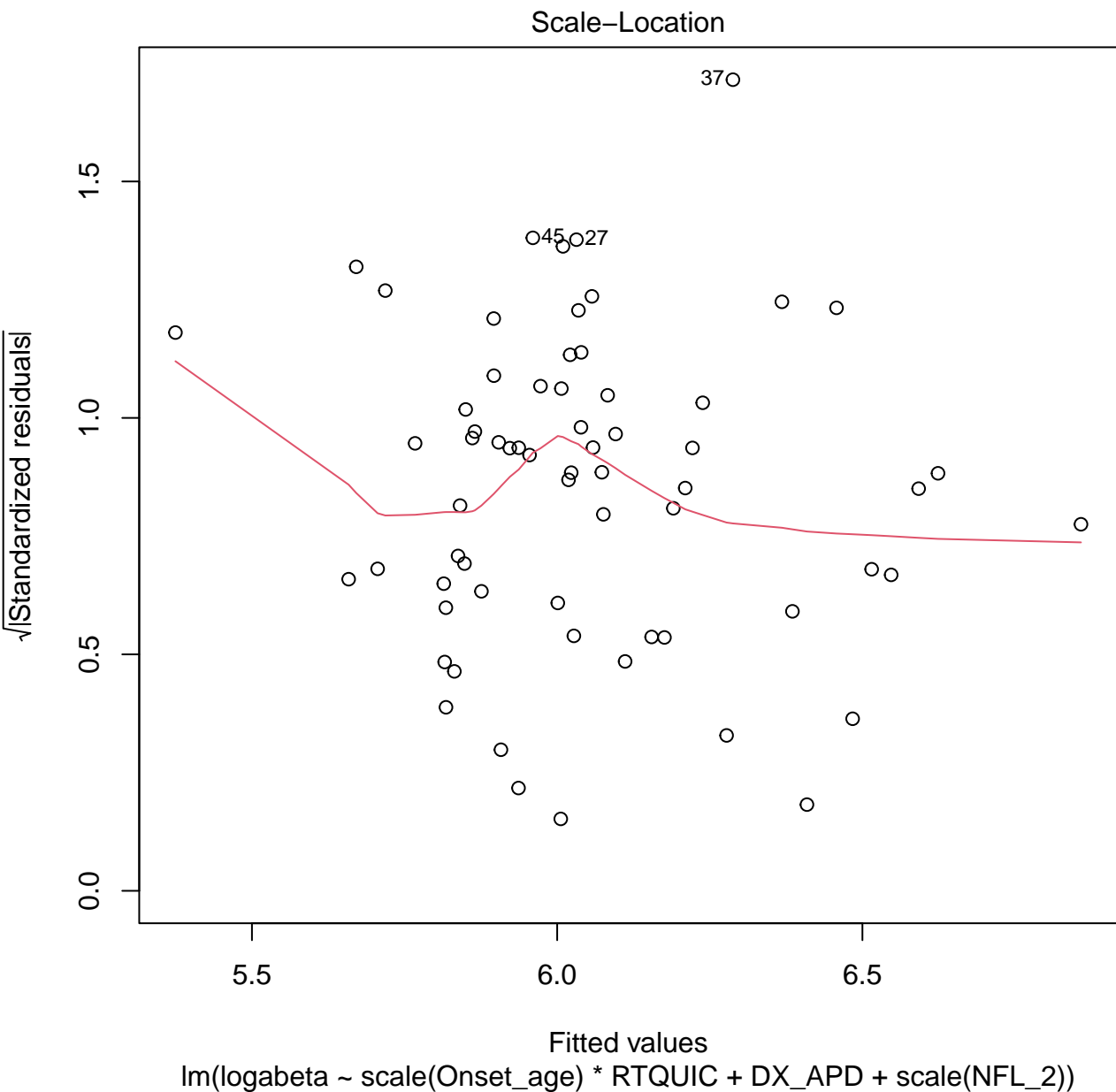


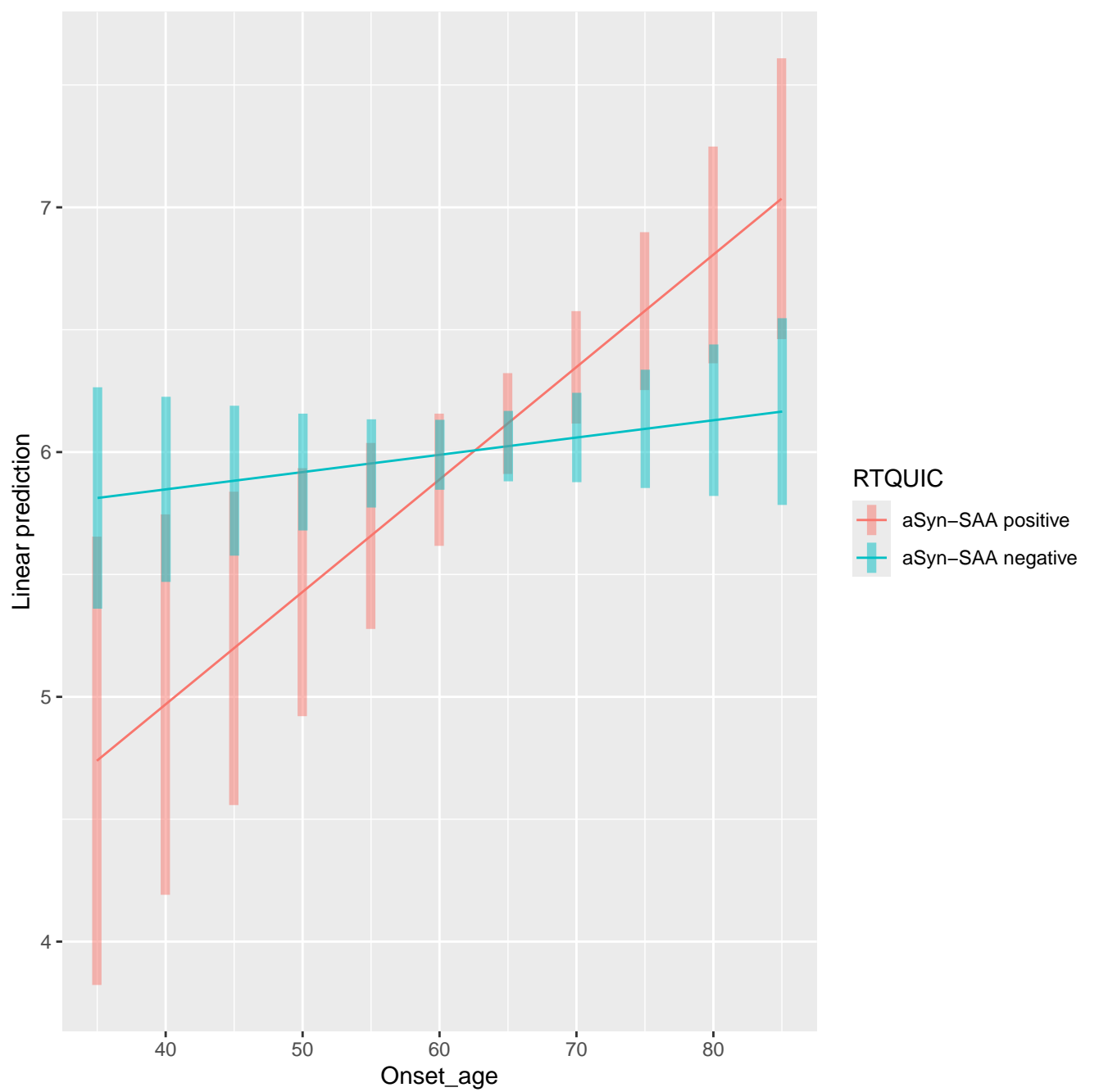
Residuals vs Leverage



Cook's dist vs Leverage

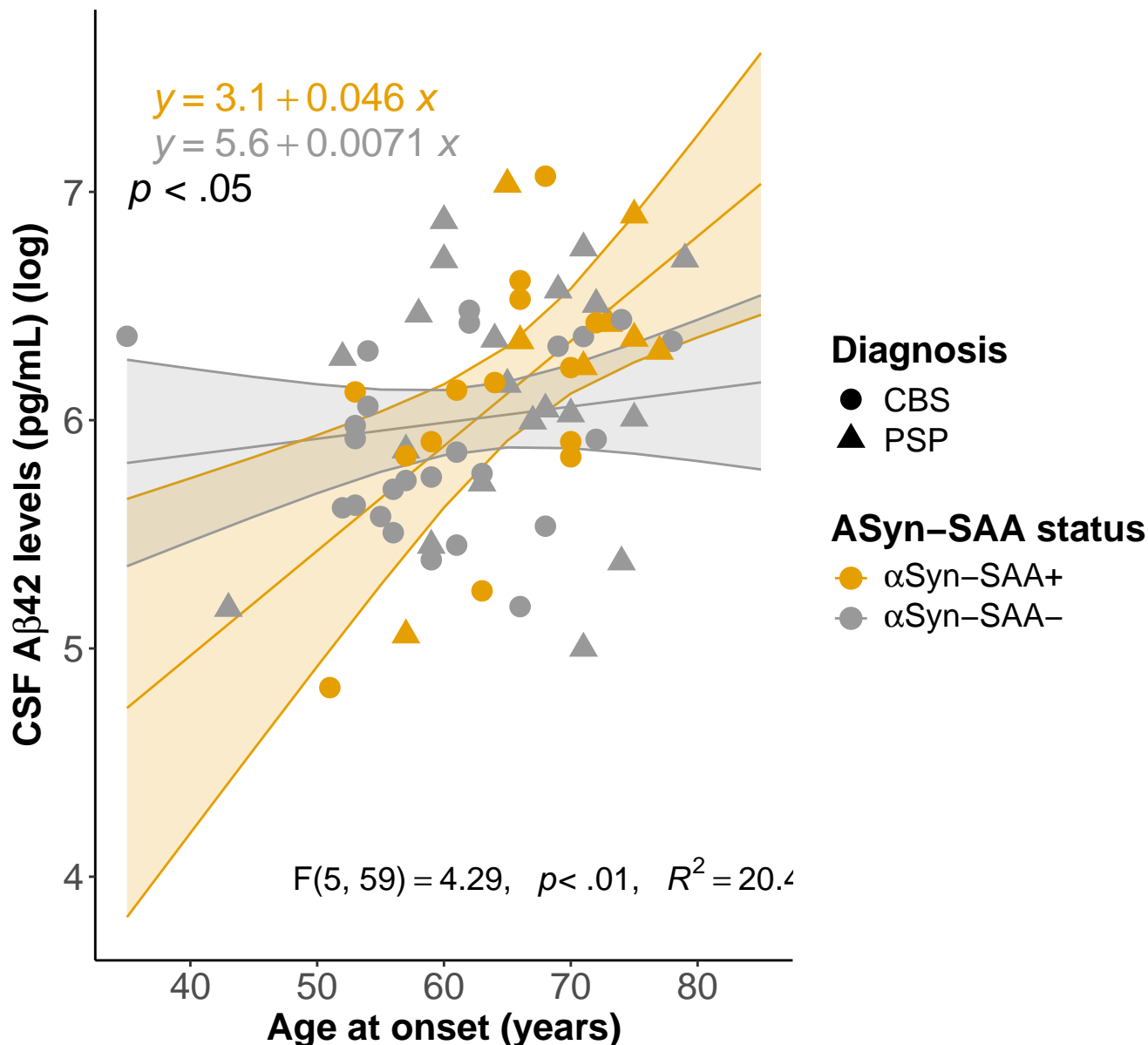


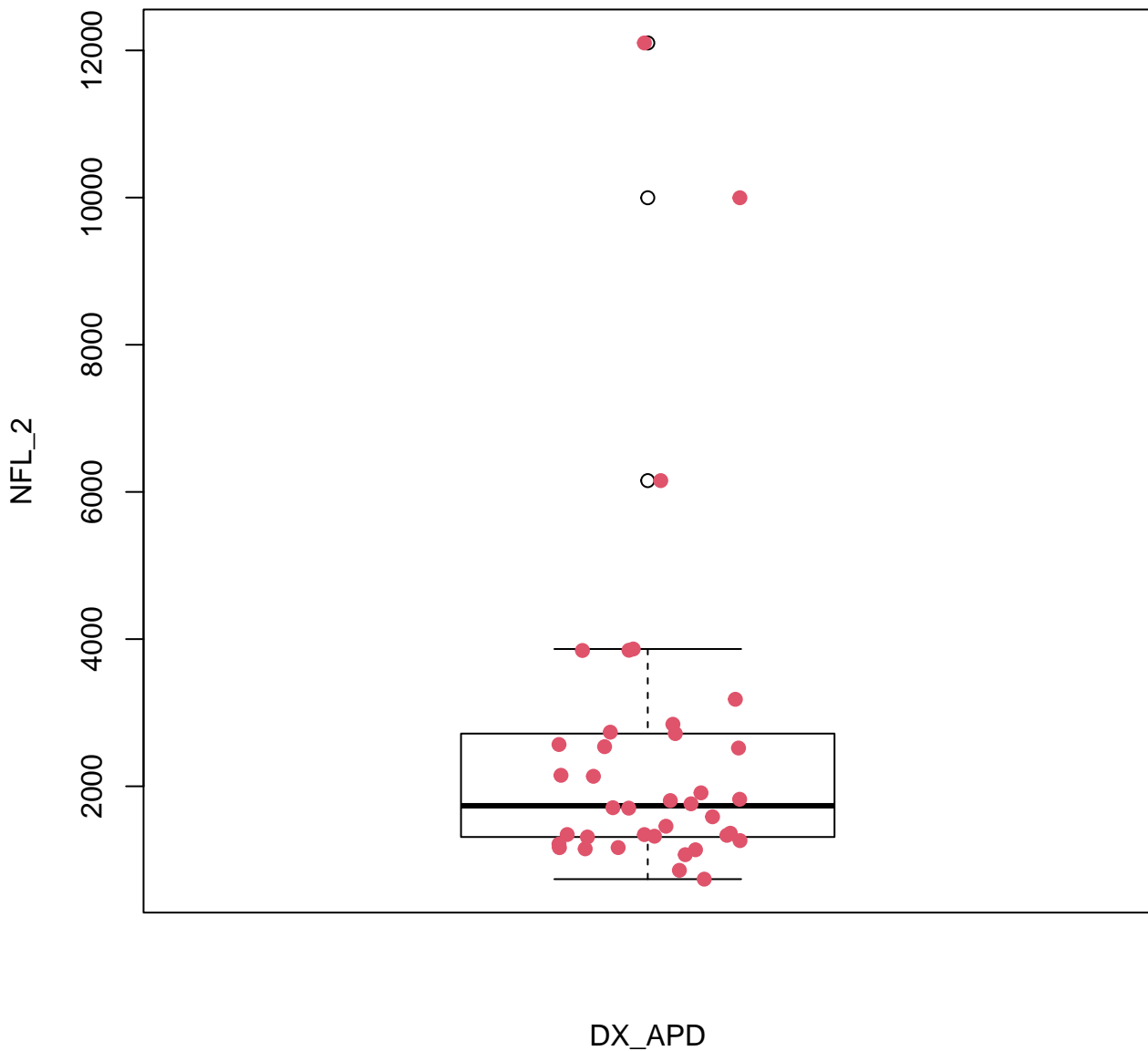


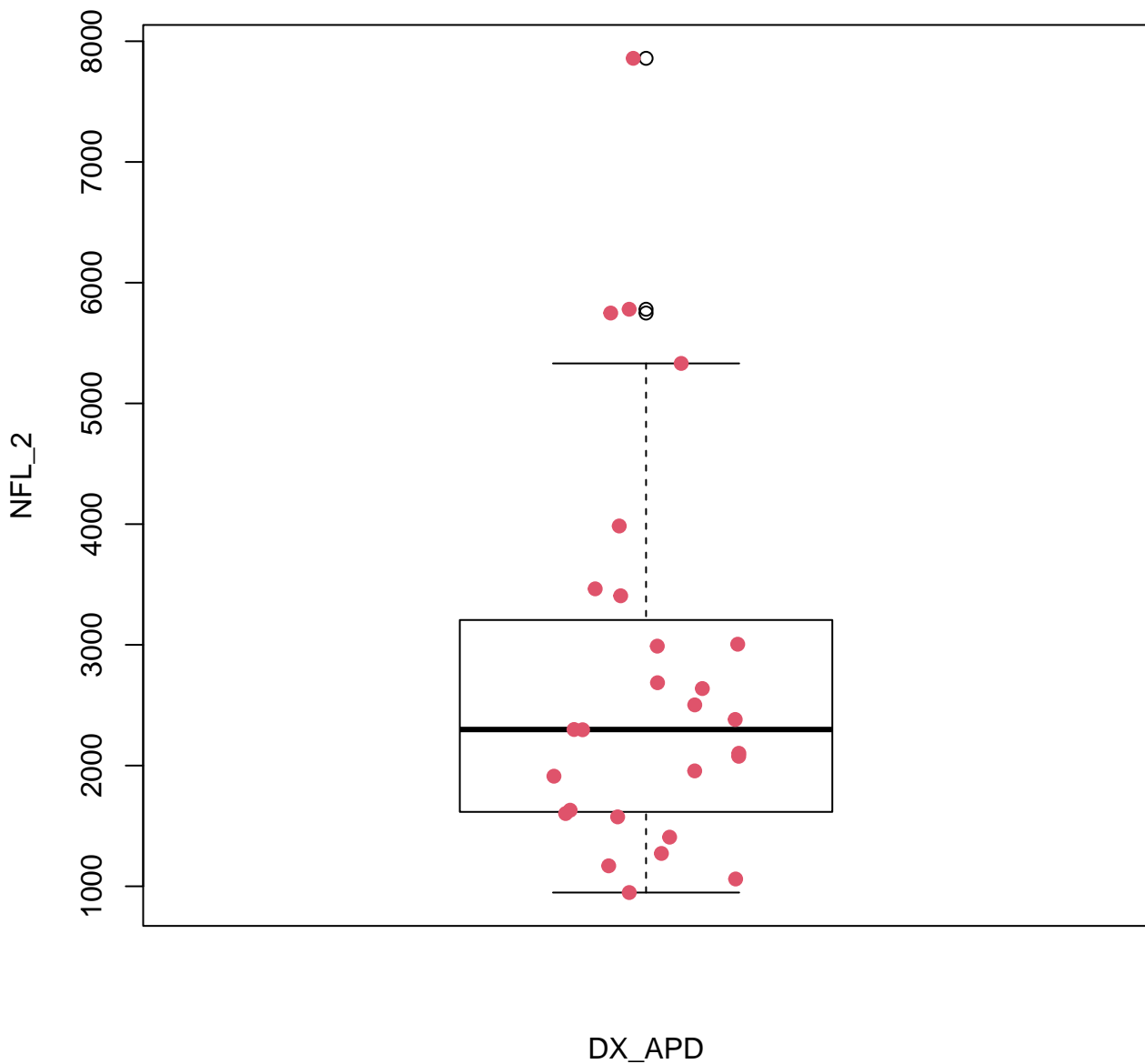


Representation of the interaction of age at onset by α Syn-SAA

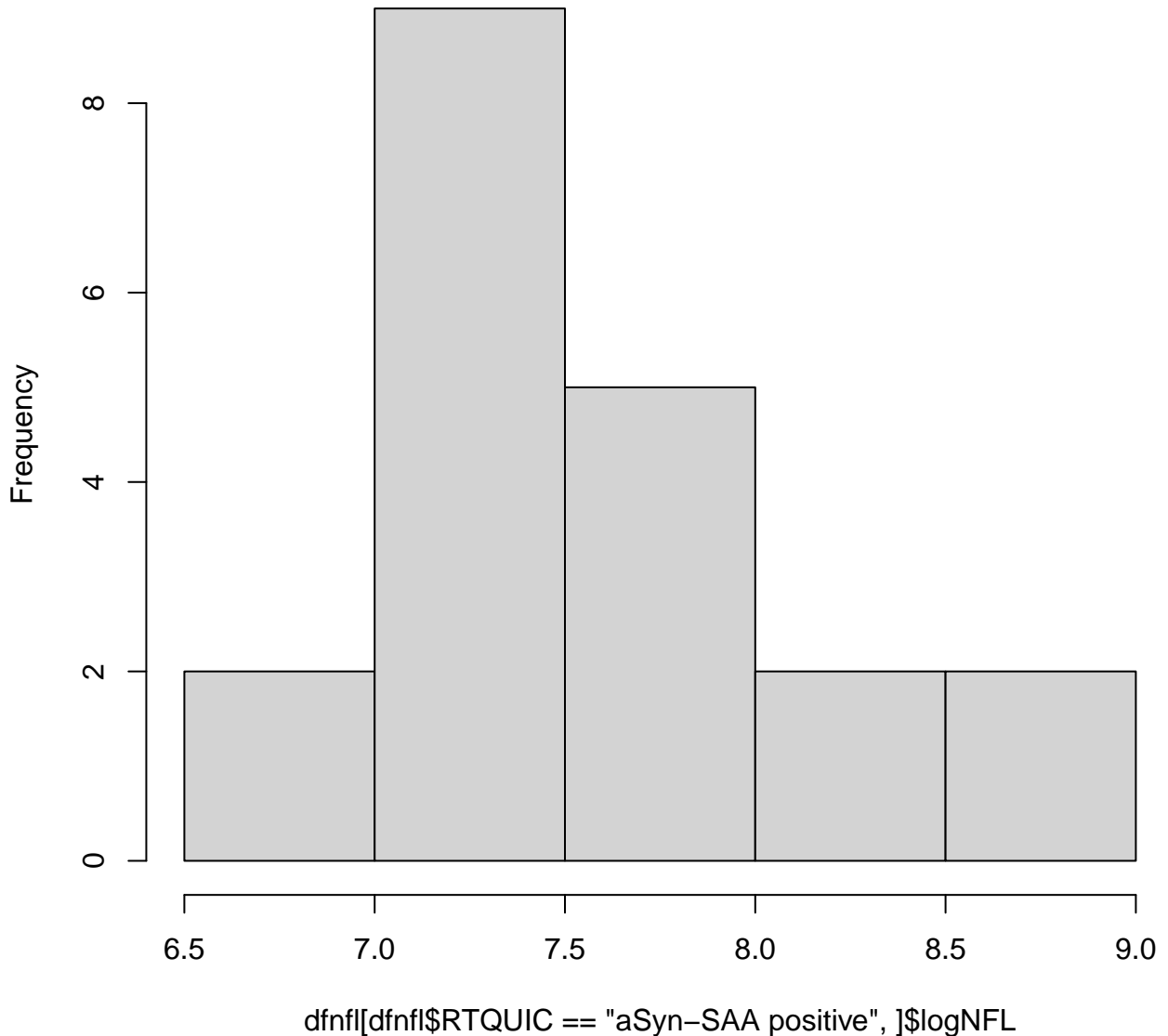
the model: $\log(A\beta_{42}) \sim \text{Age at onset} * \alpha\text{Syn-SAA} + \text{Diagnosis} + \text{NfL}$



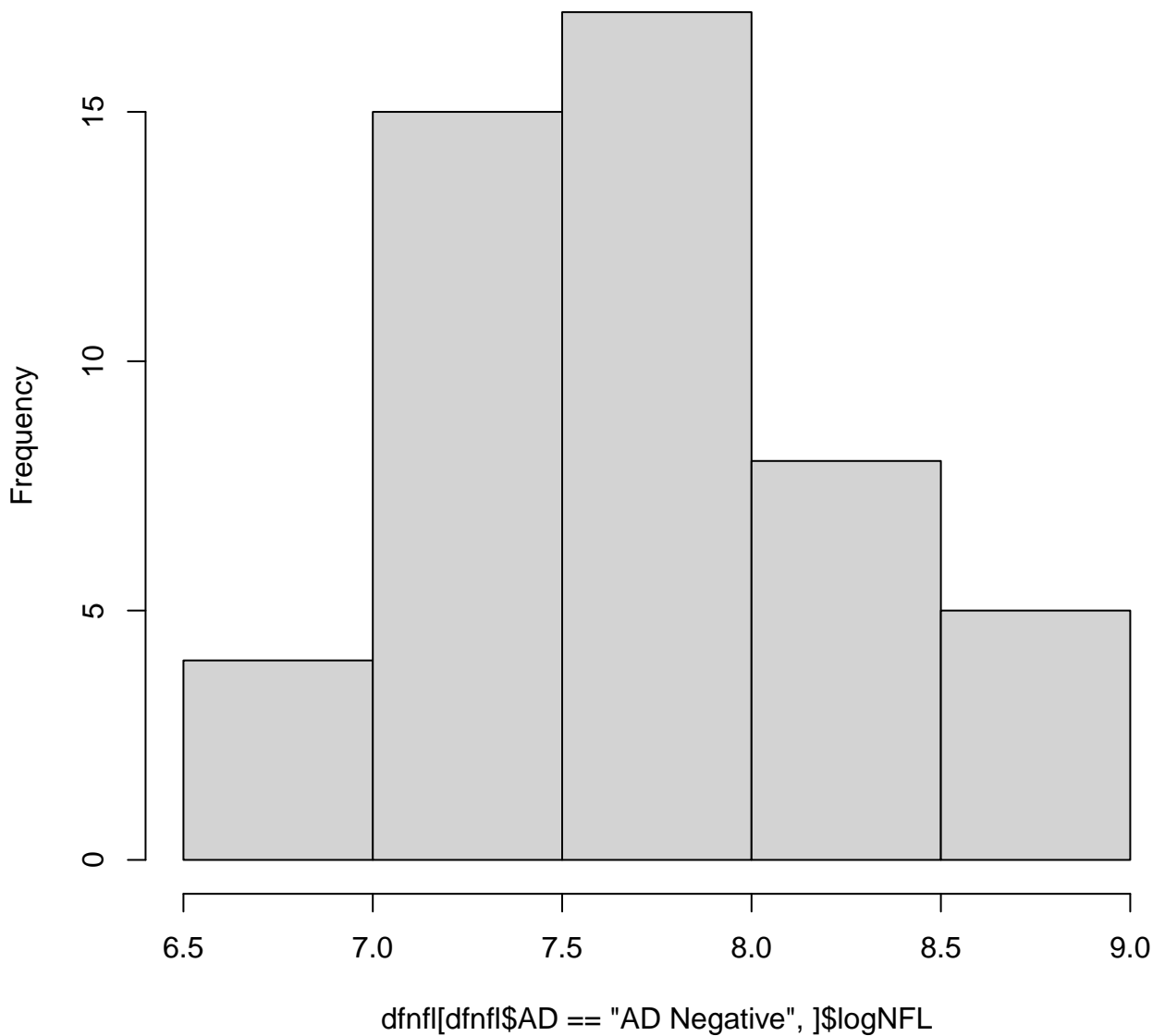




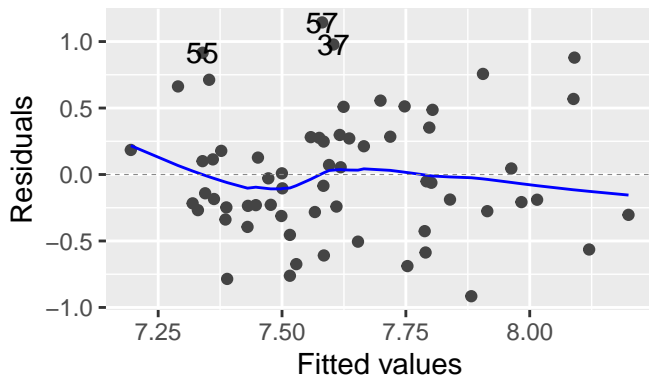
Histogram of dfnfl[dfnfl\$RTQUIC == "aSyn-SAA positive",]\$logNFL



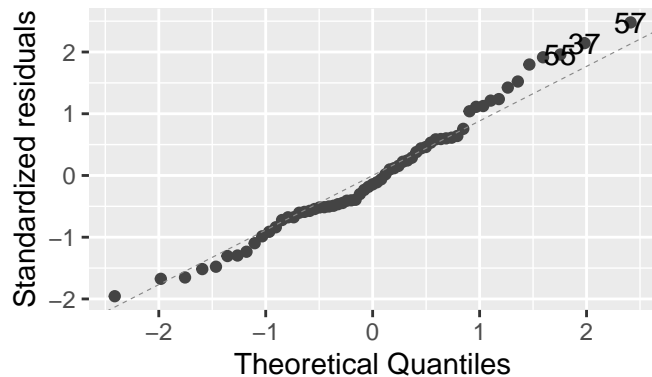
Histogram of dfnfl[dfnfl\$AD == "AD Negative",]\$logNFL



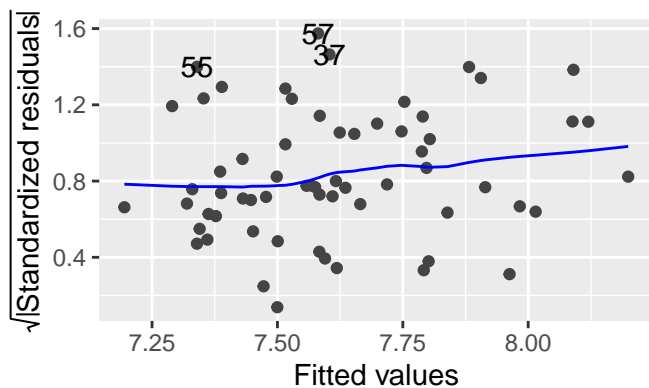
Residuals vs Fitted



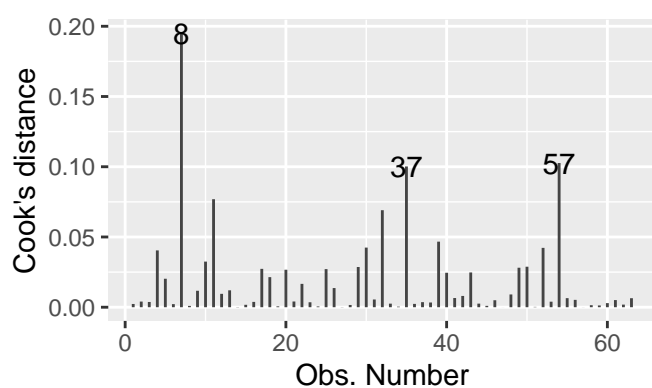
Normal Q-Q



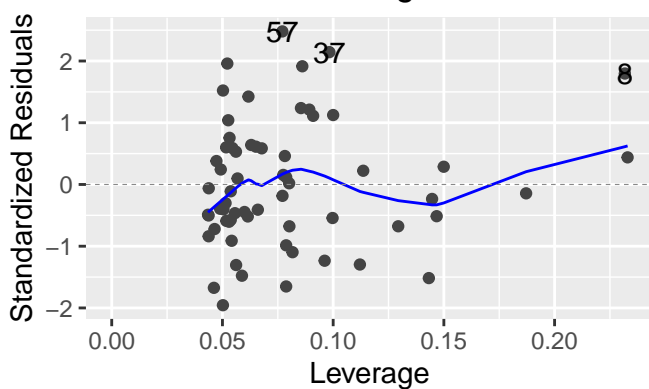
Scale-Location



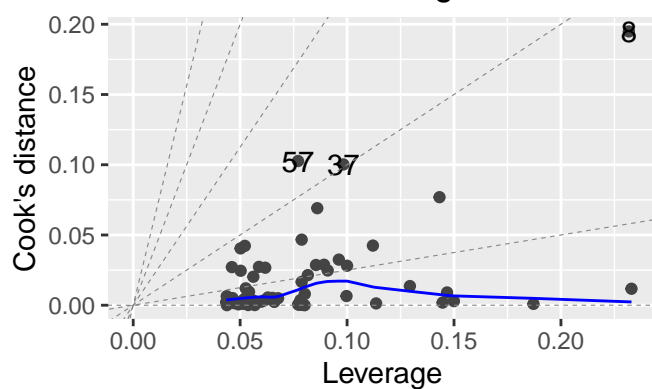
Cook's distance



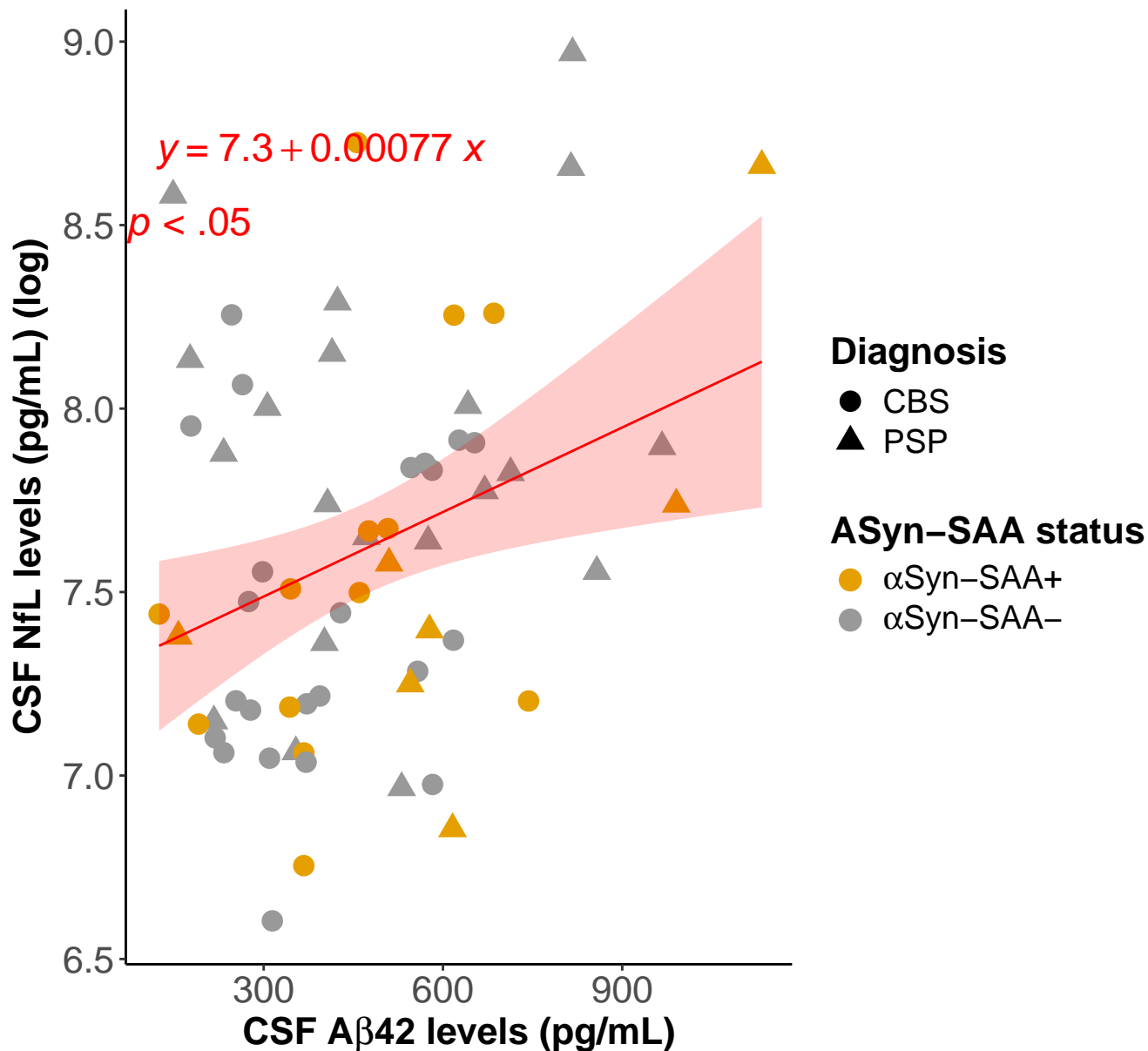
Residuals vs Leverage



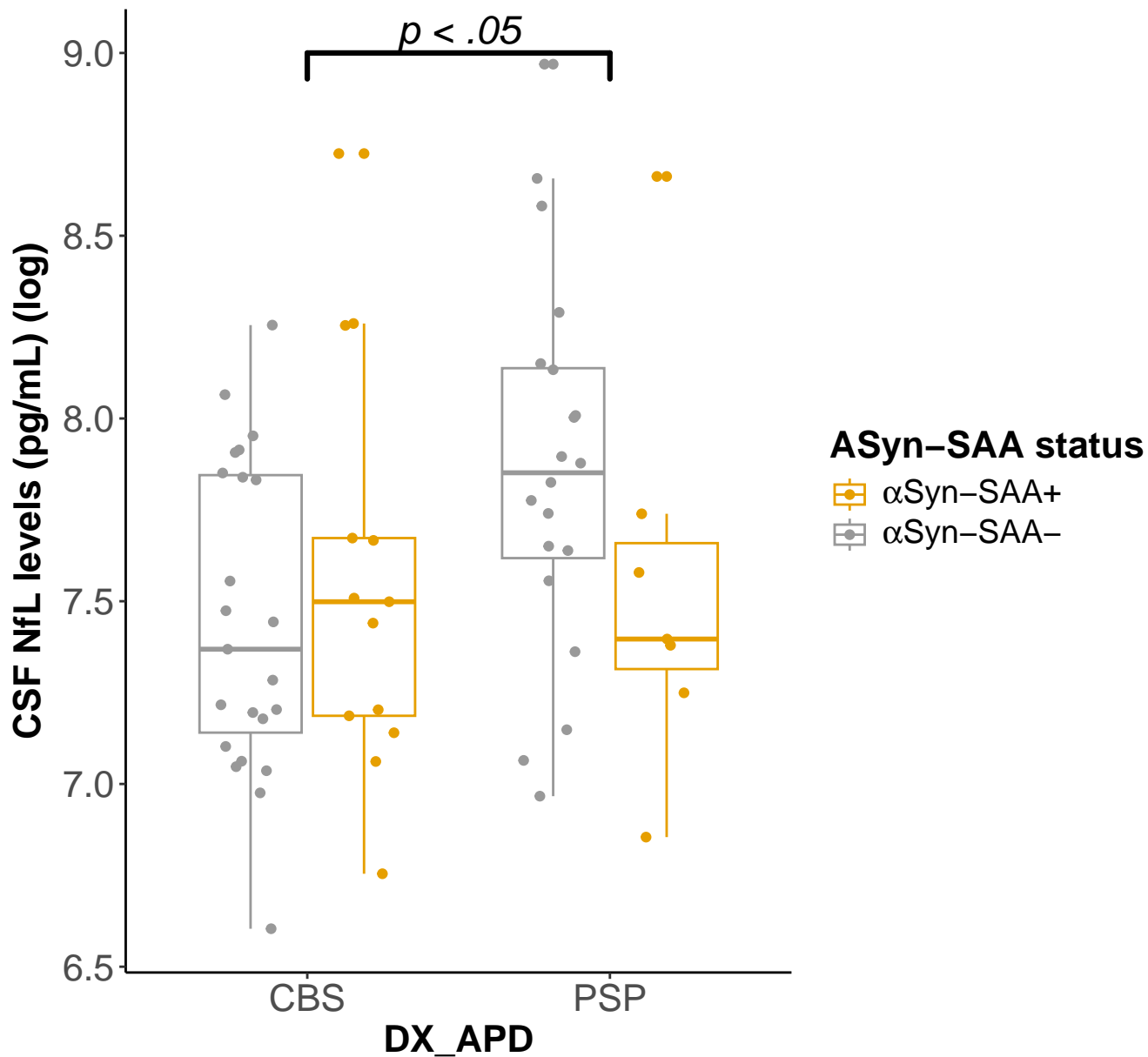
Cook's dist vs Leverage



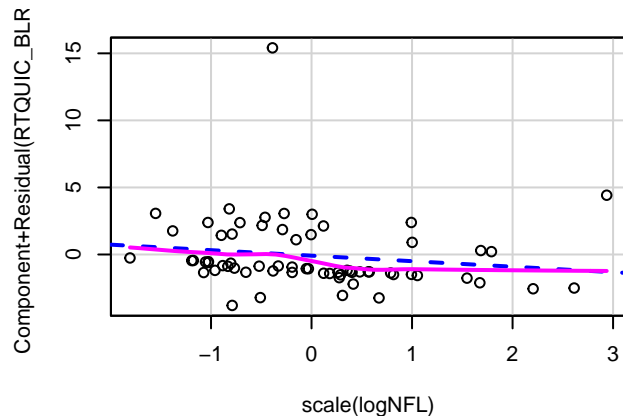
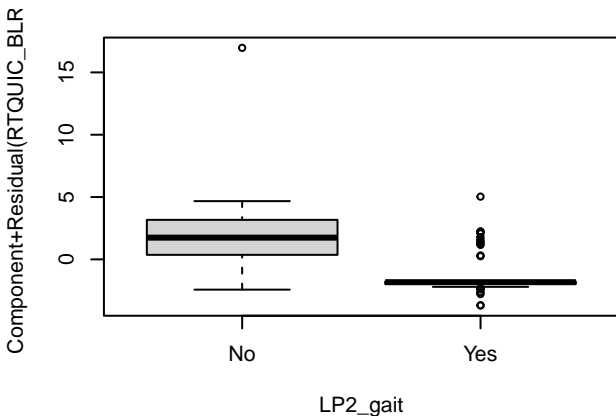
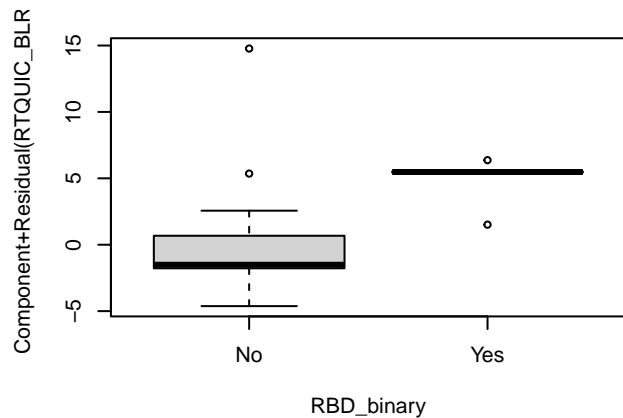
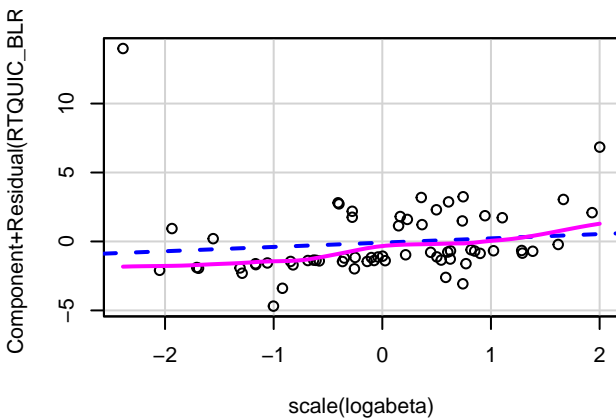
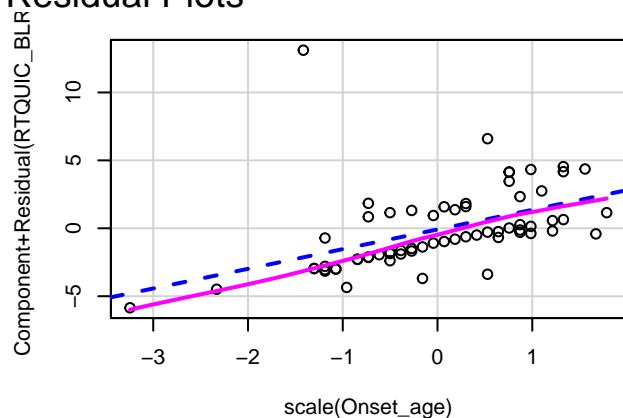
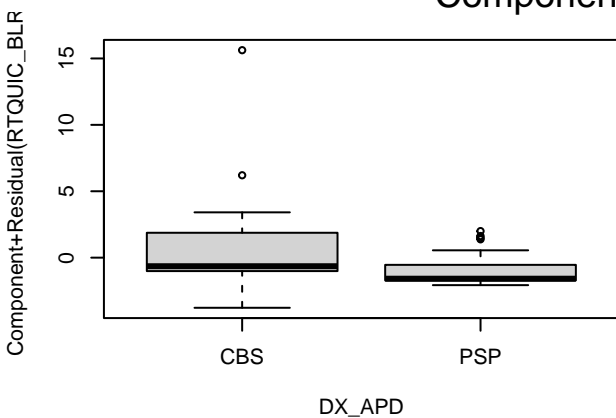
Linear relationship between A β 42 and NfL

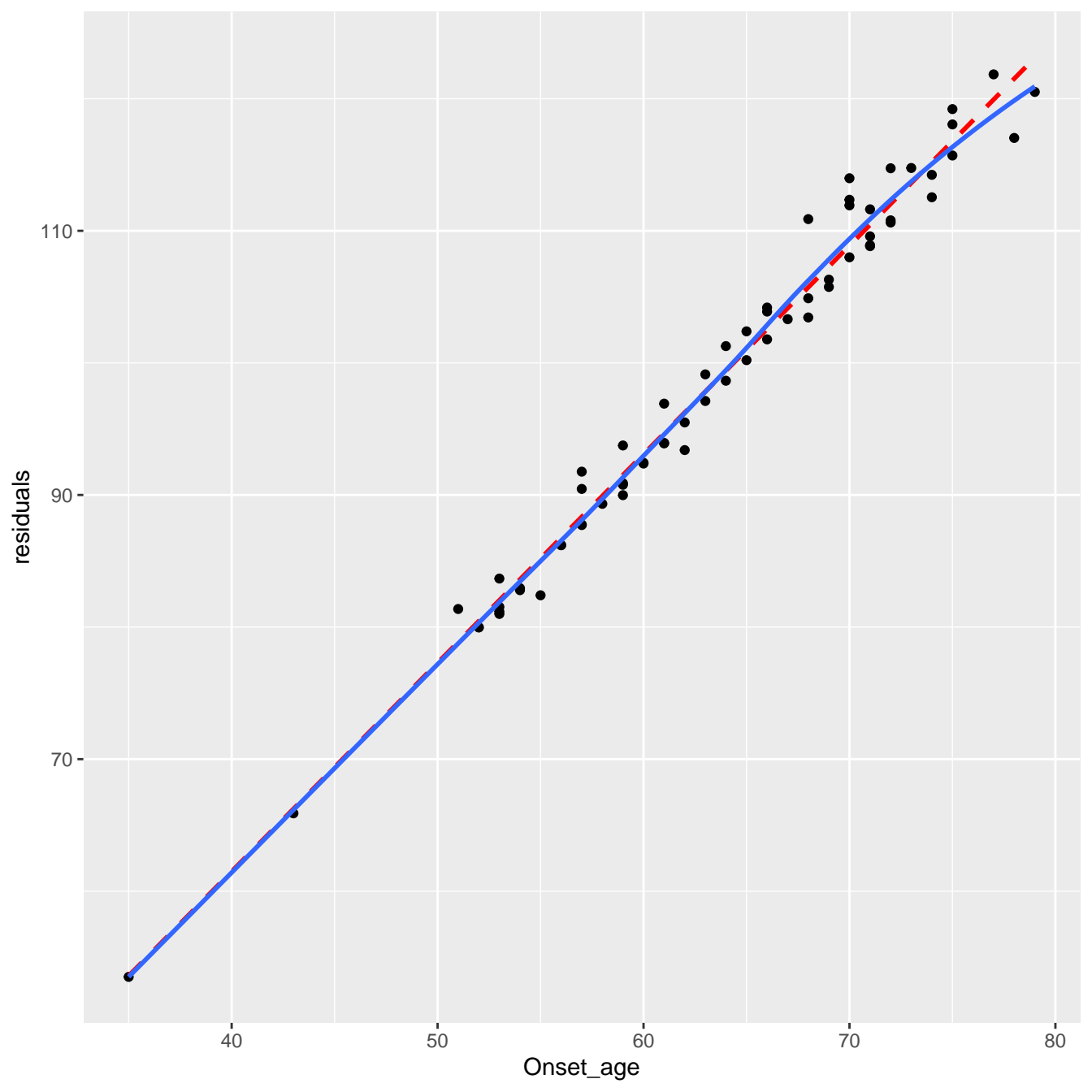


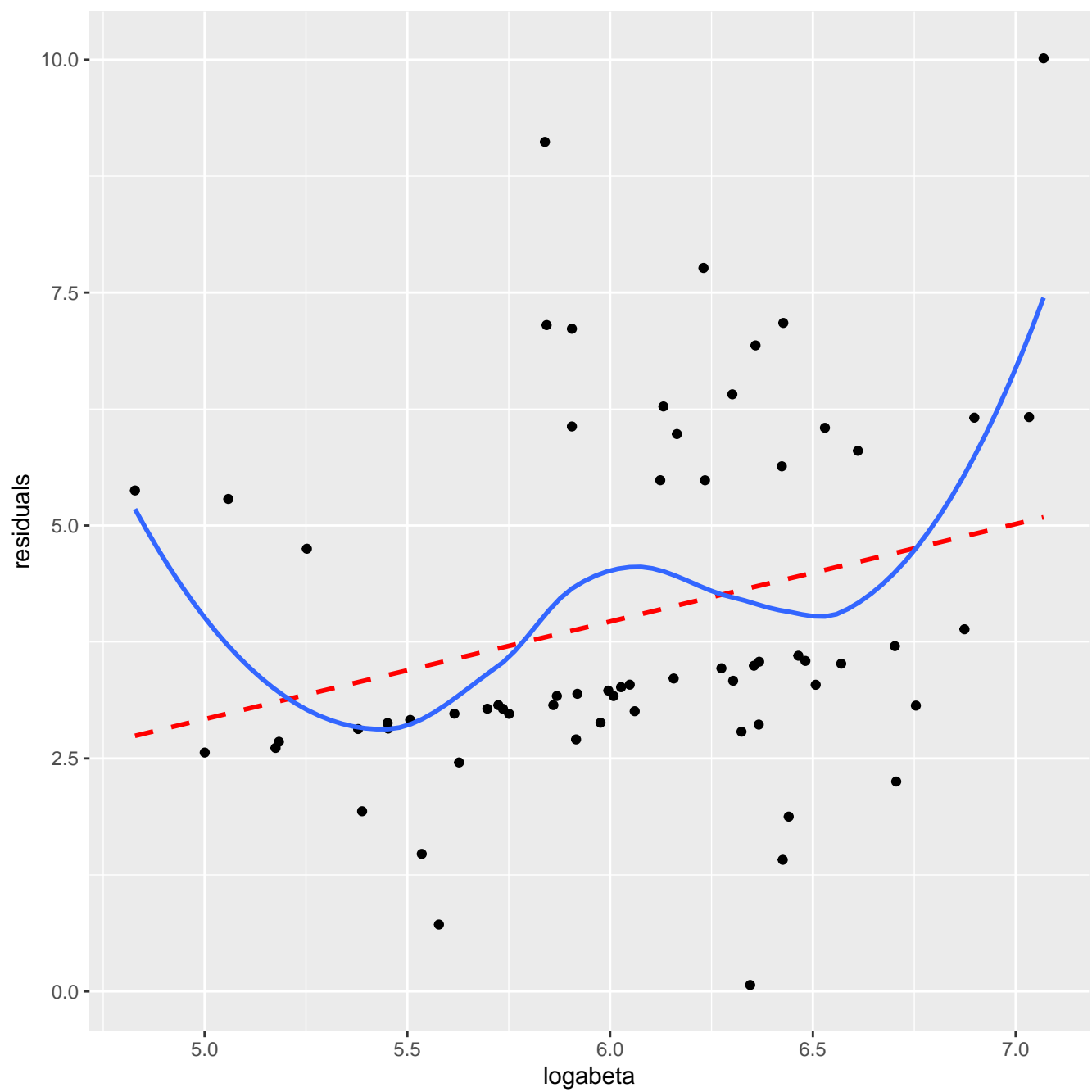
NfL levels by diagnosis and α Syn-SAA status

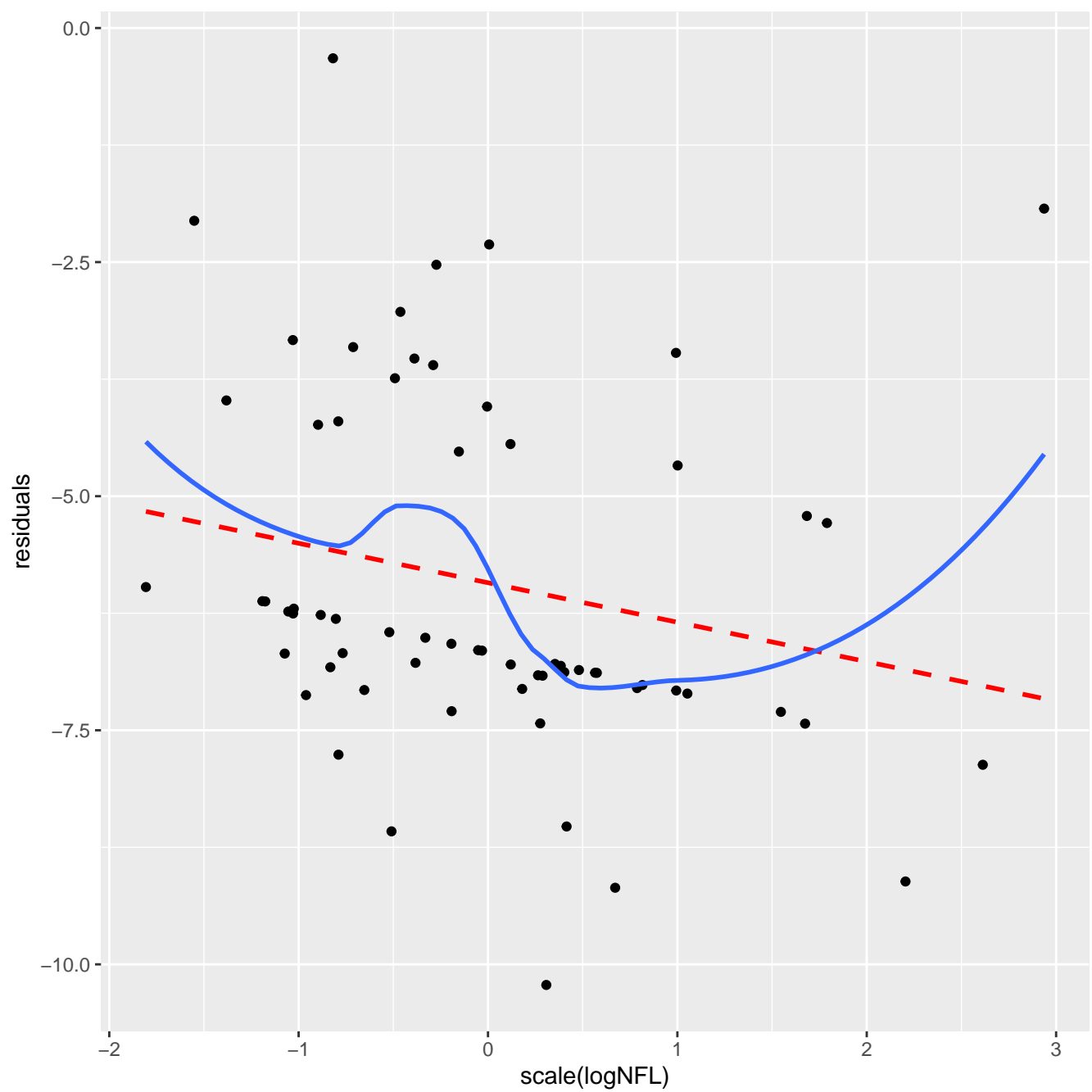


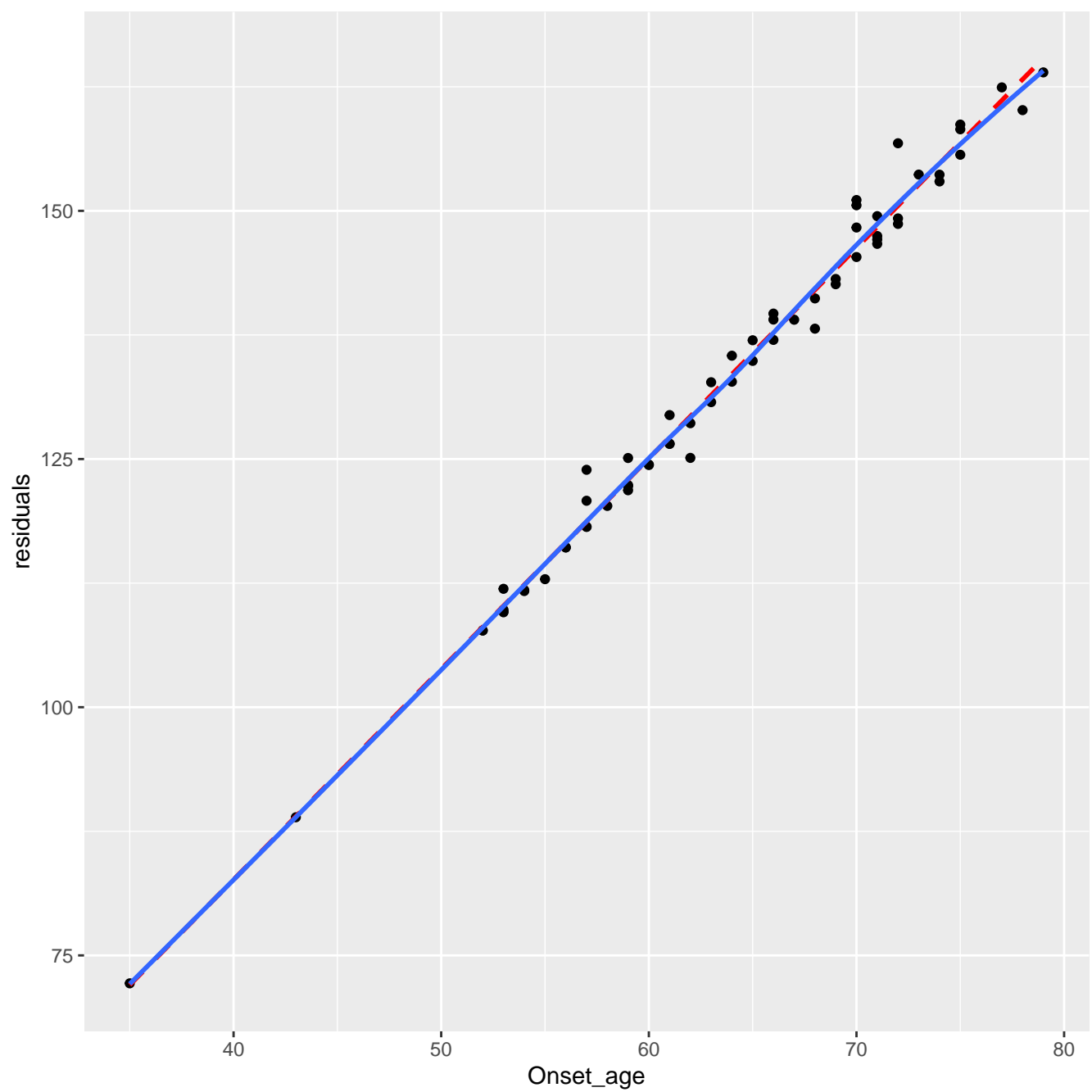
Component + Residual Plots

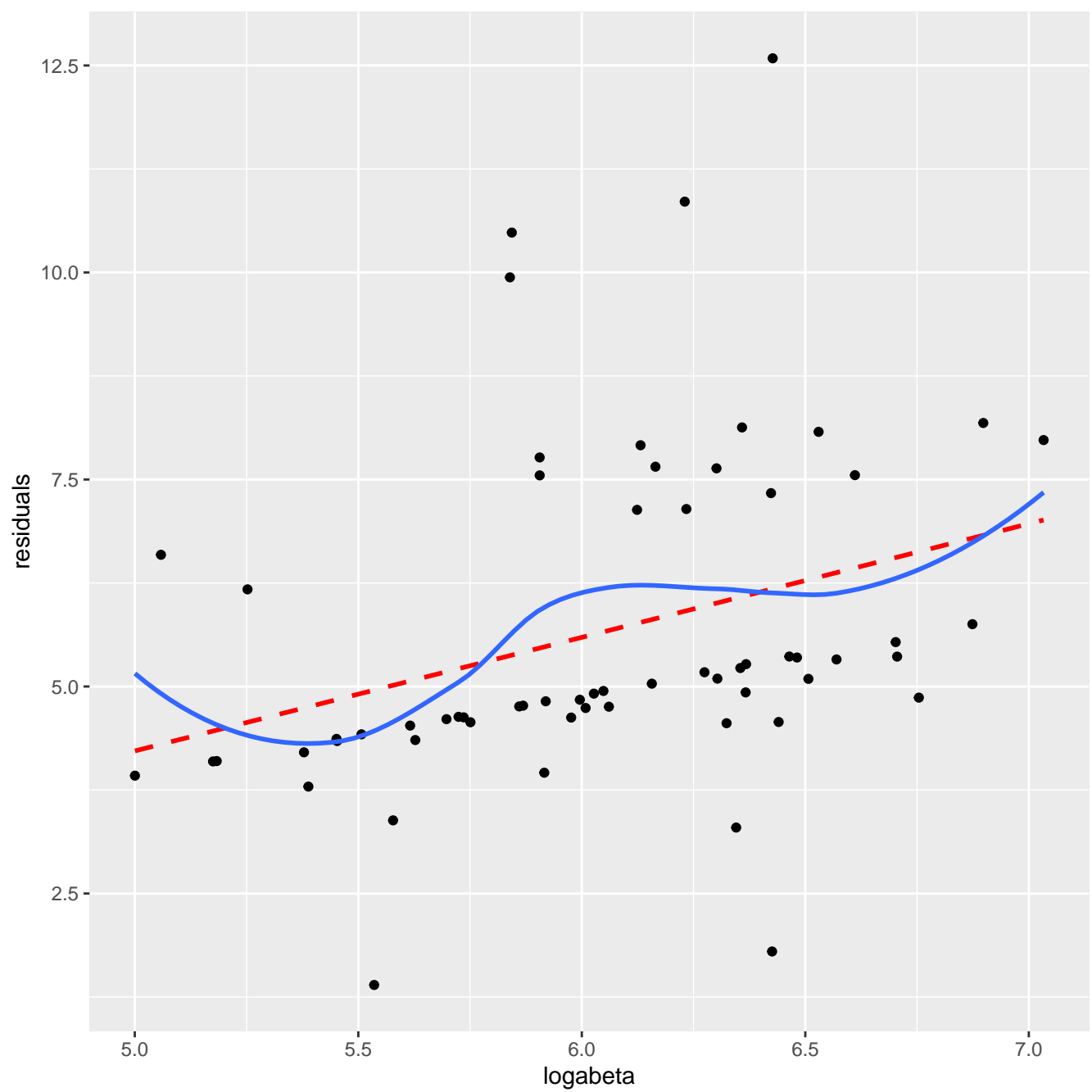


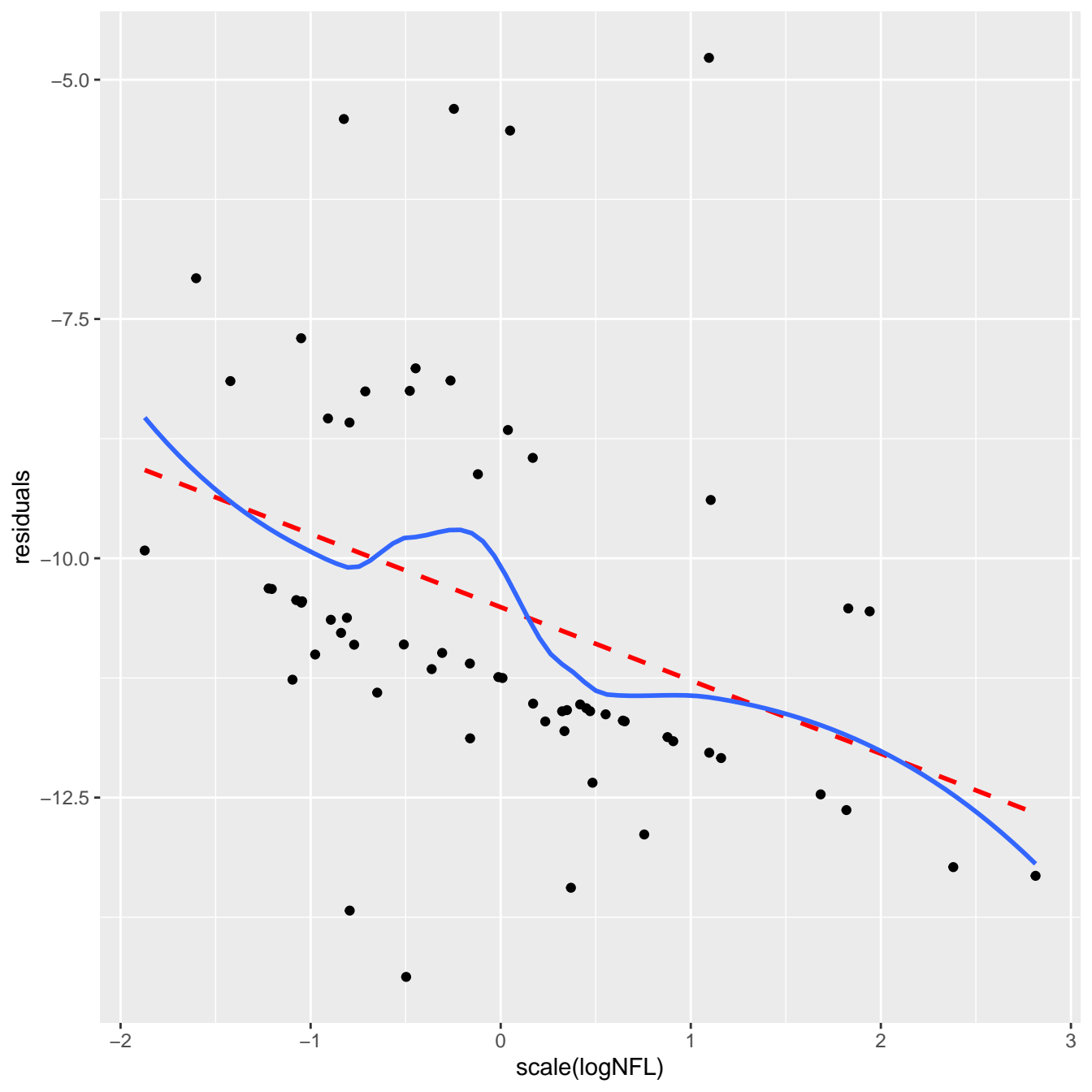


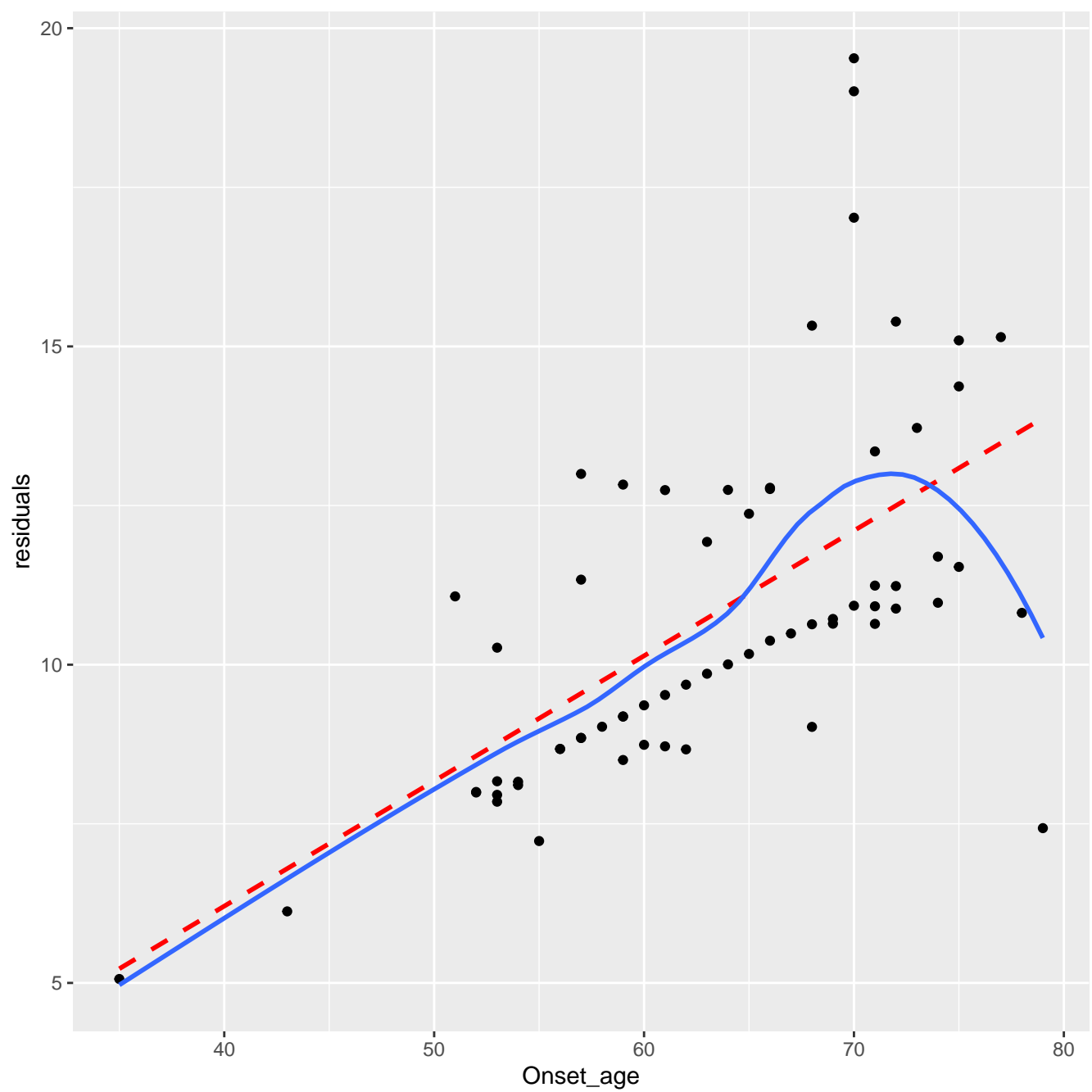


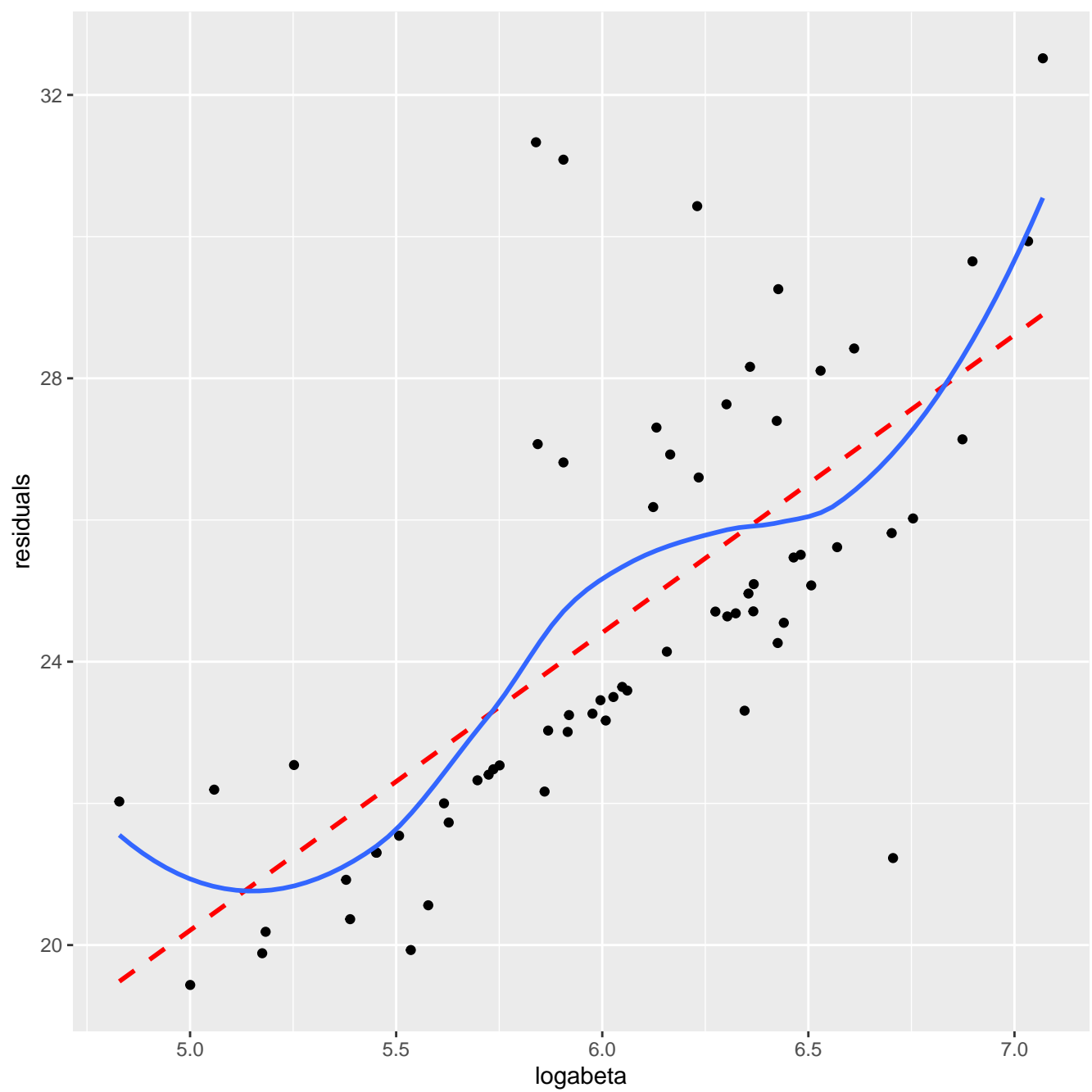




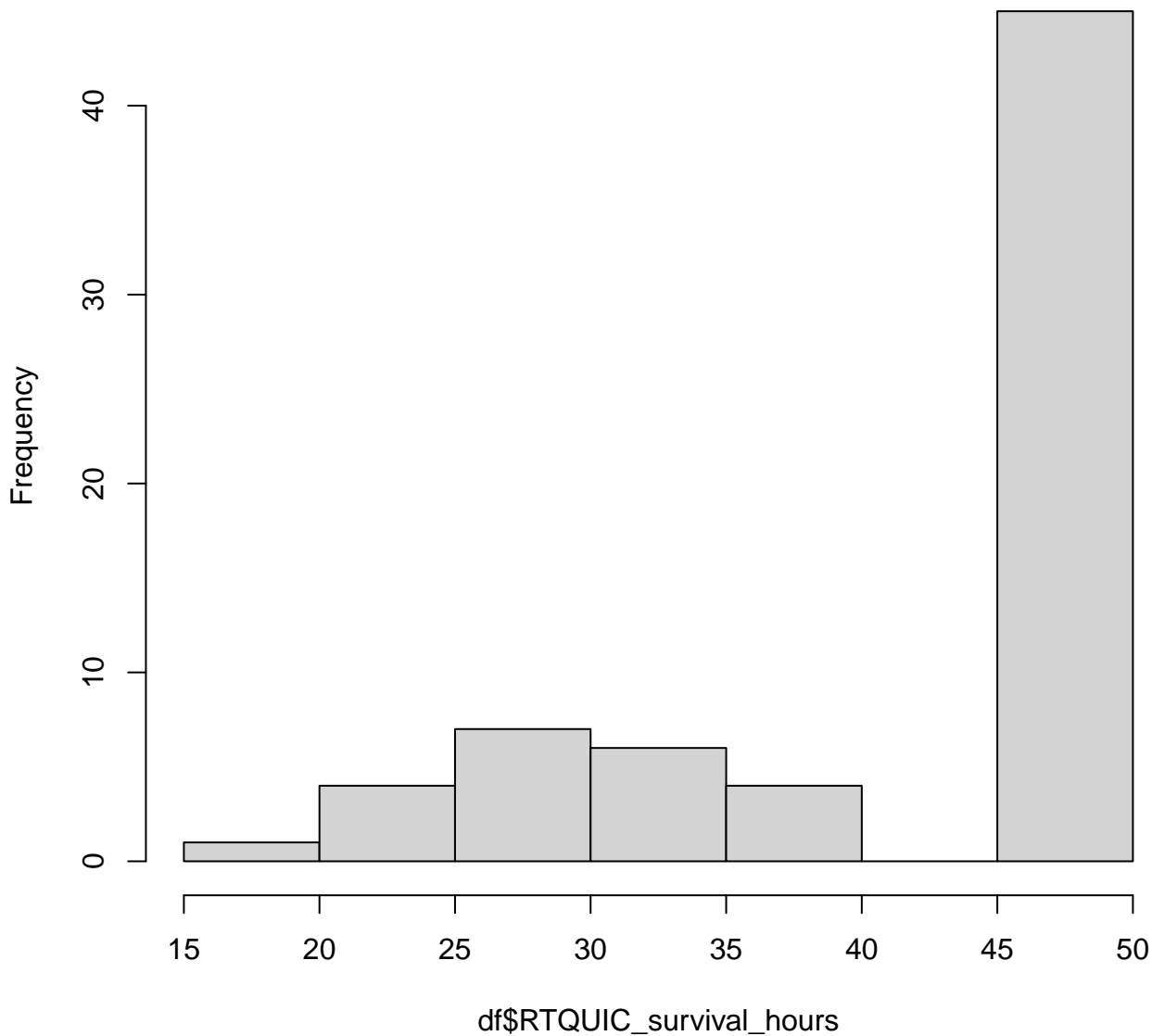




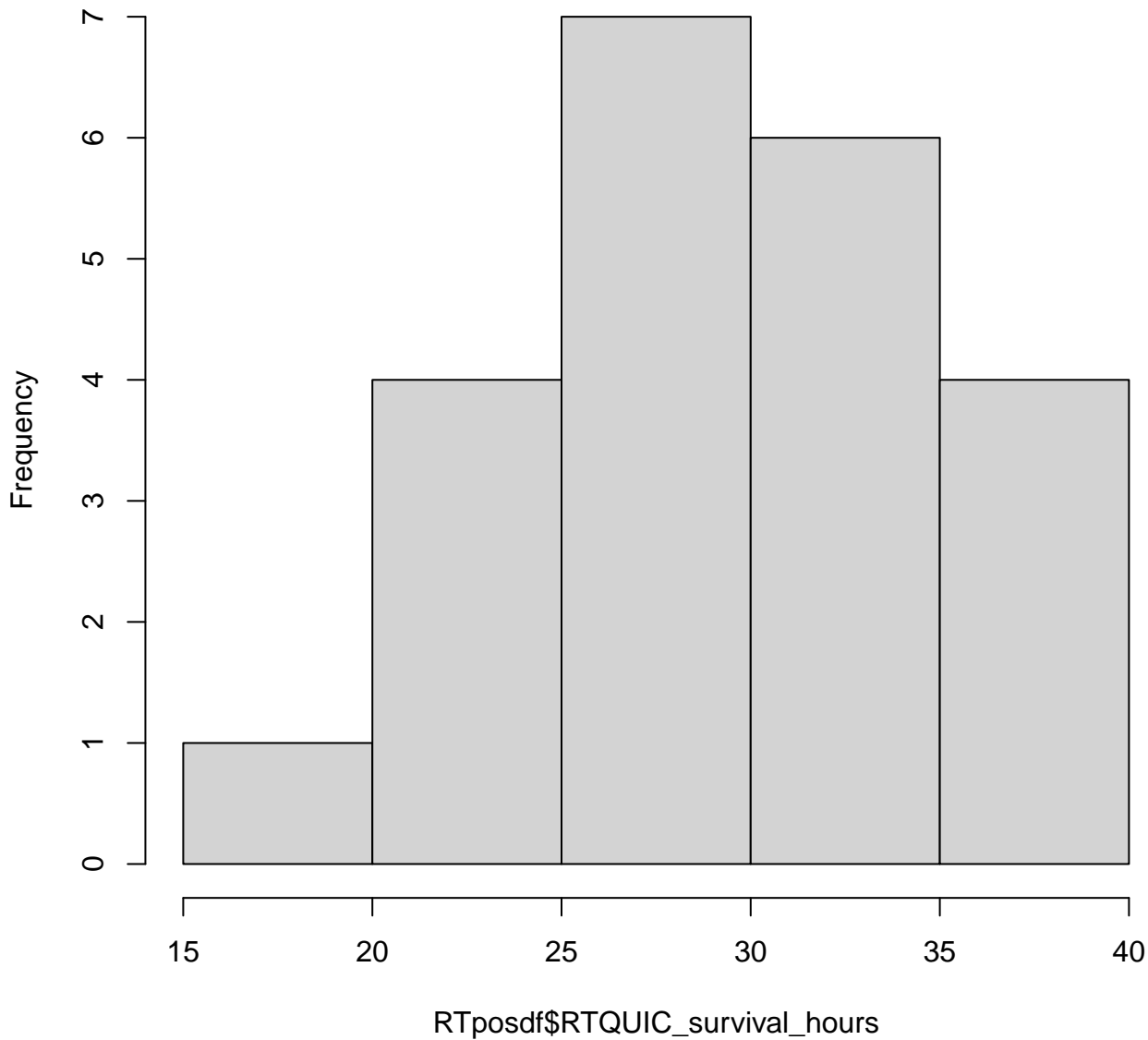




Histogram of df\$RTQUIC_survival_hours

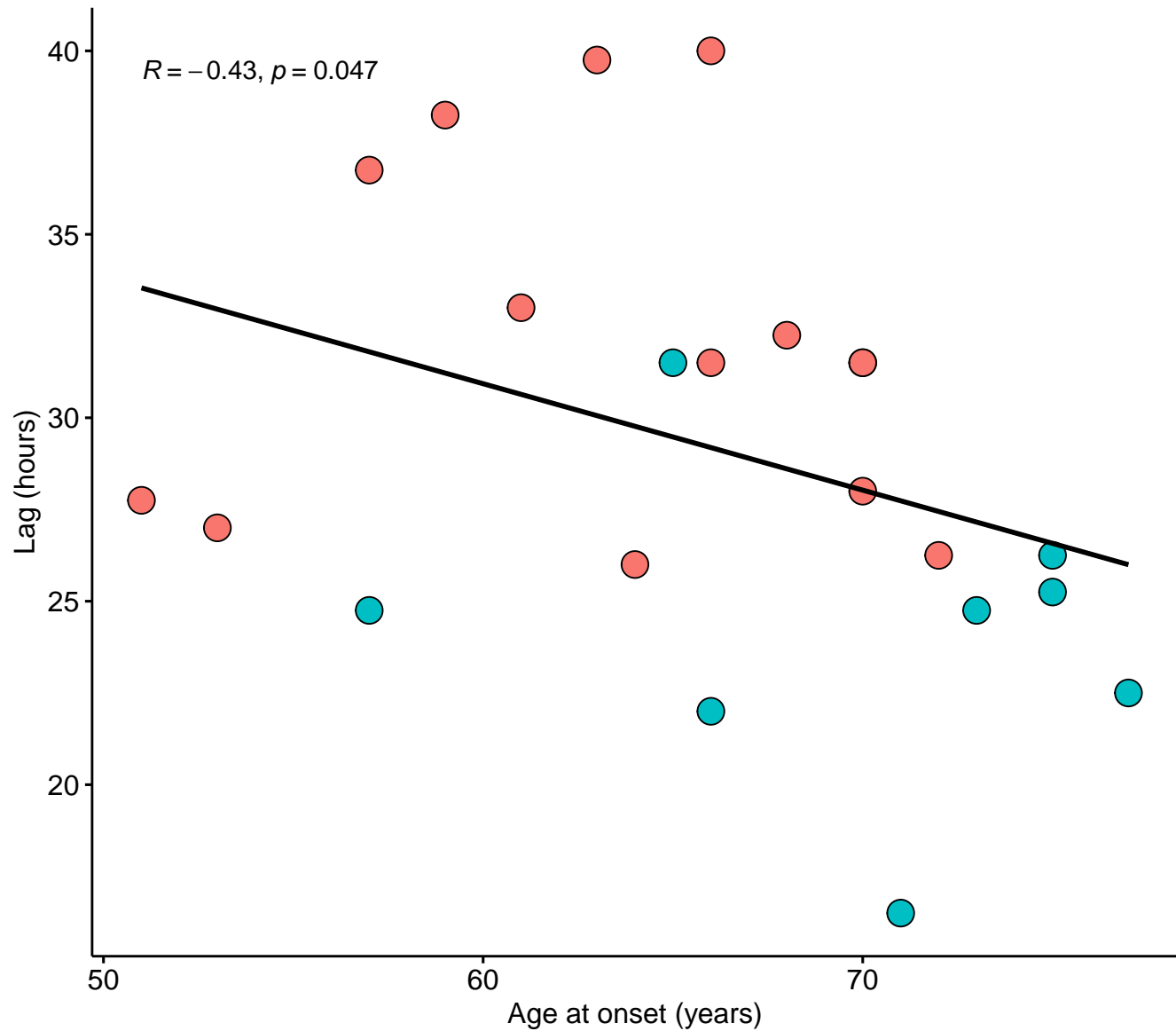


Histogram of RTposdf\$RTQUIC_survival_hours

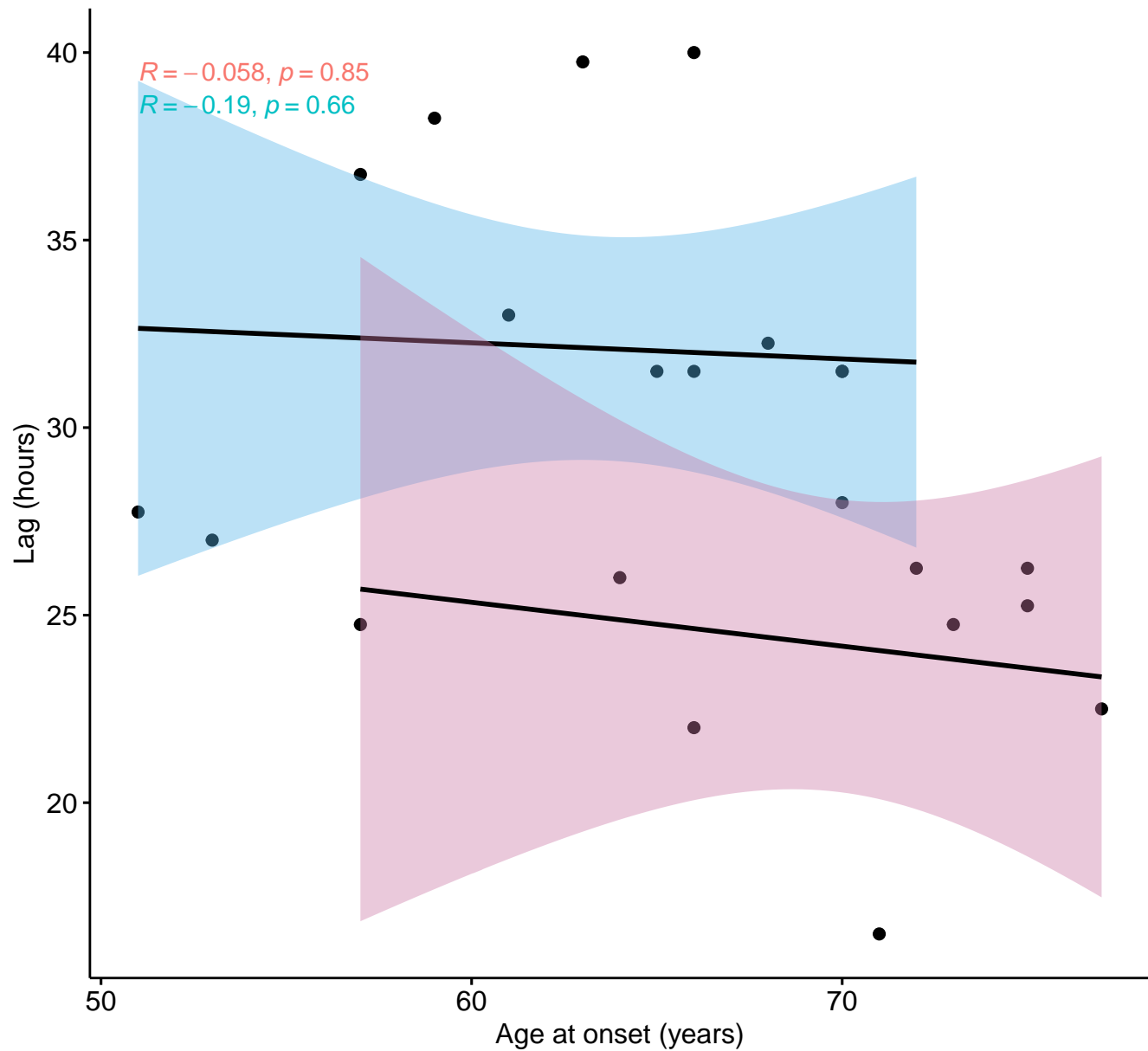


Correlation of lag with age at onset (Spearman)

Diagnosis ● CBS ● PSP

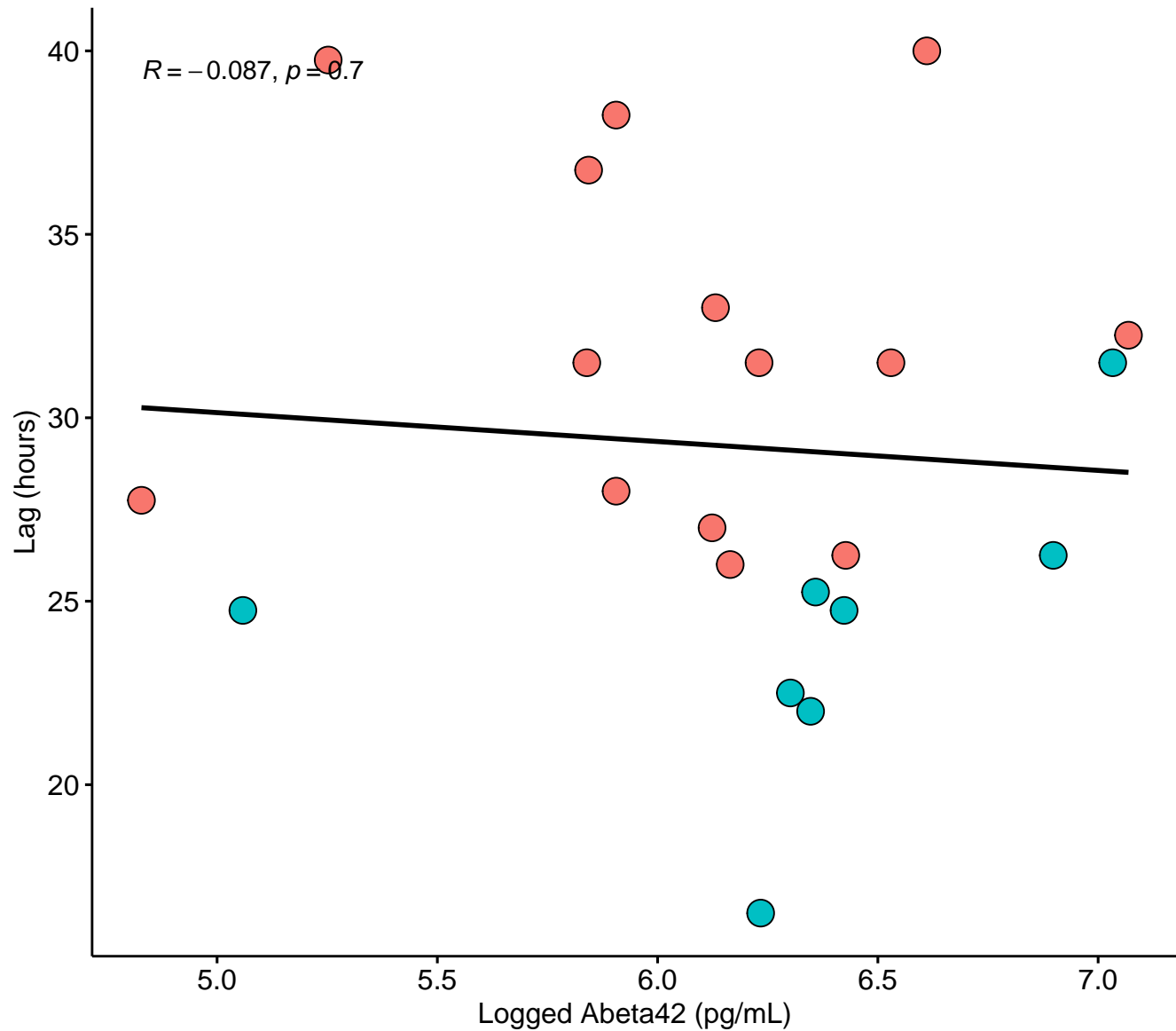


Diagnosis CBS PSP

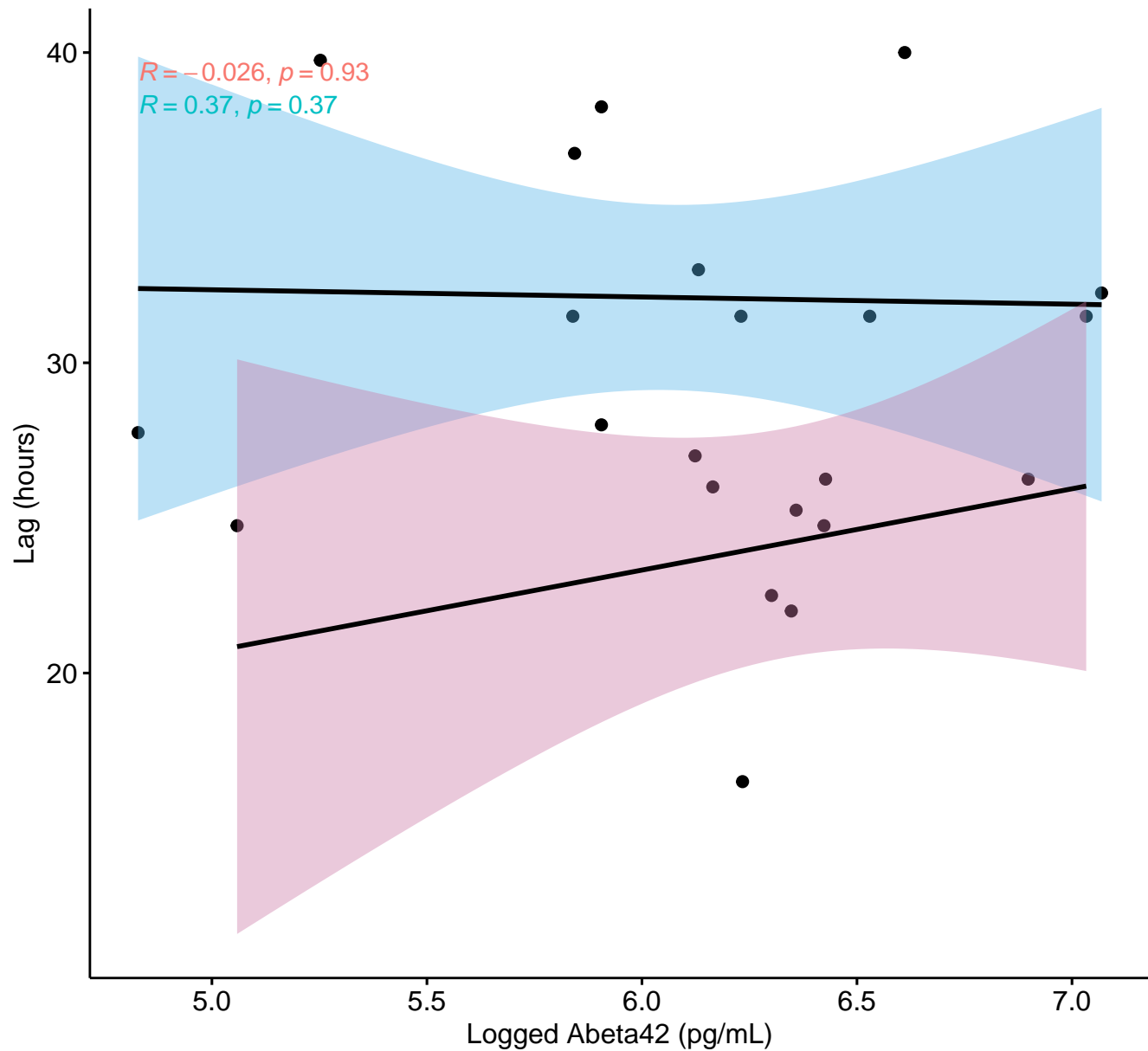


Correlation of lag with Abeta42 levels (Spearman)

Diagnosis ● CBS ● PSP

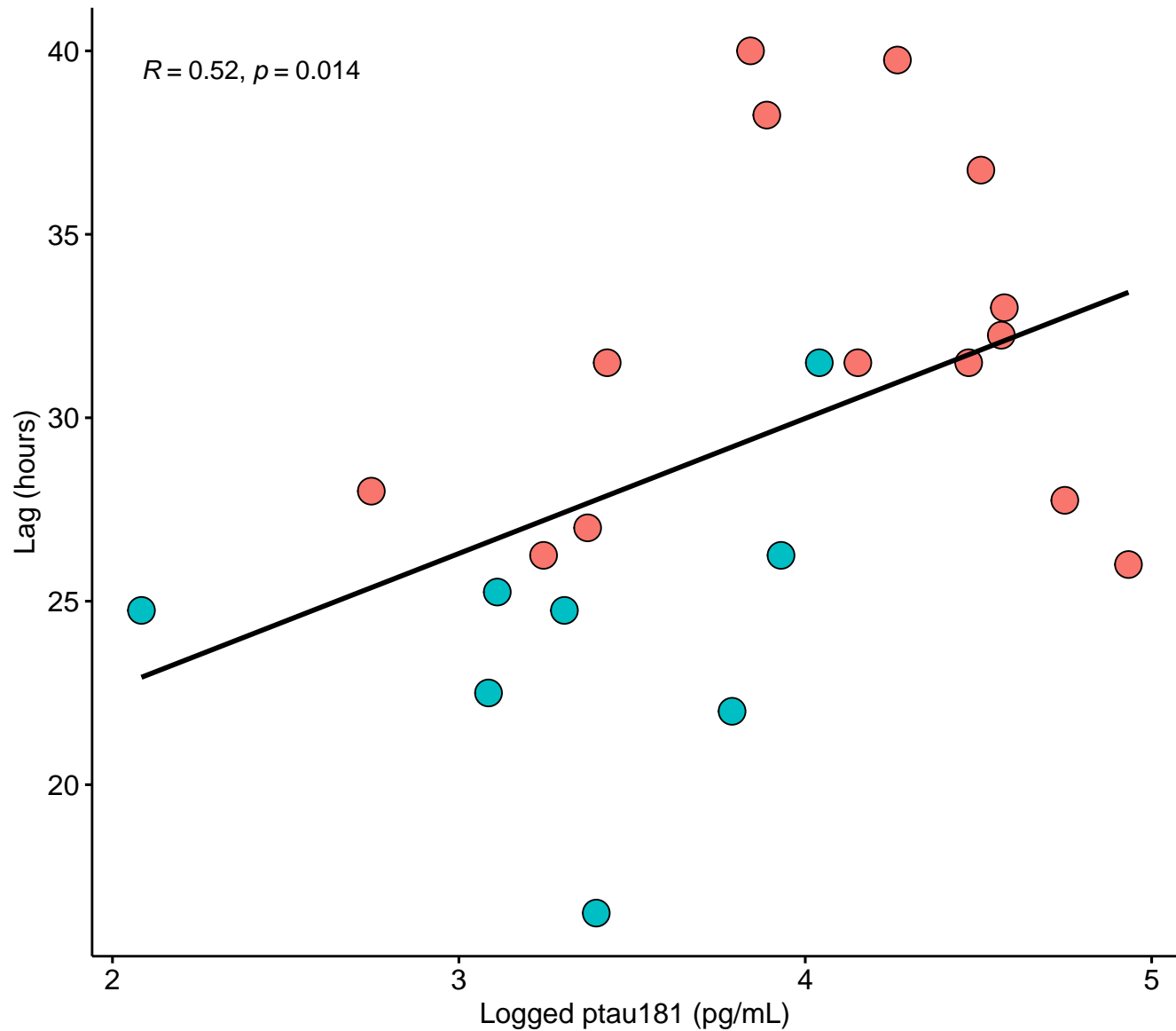


Diagnosis CBS PSP



Correlation of lag with ptau181 levels (Spearman)

Diagnosis ● CBS ● PSP



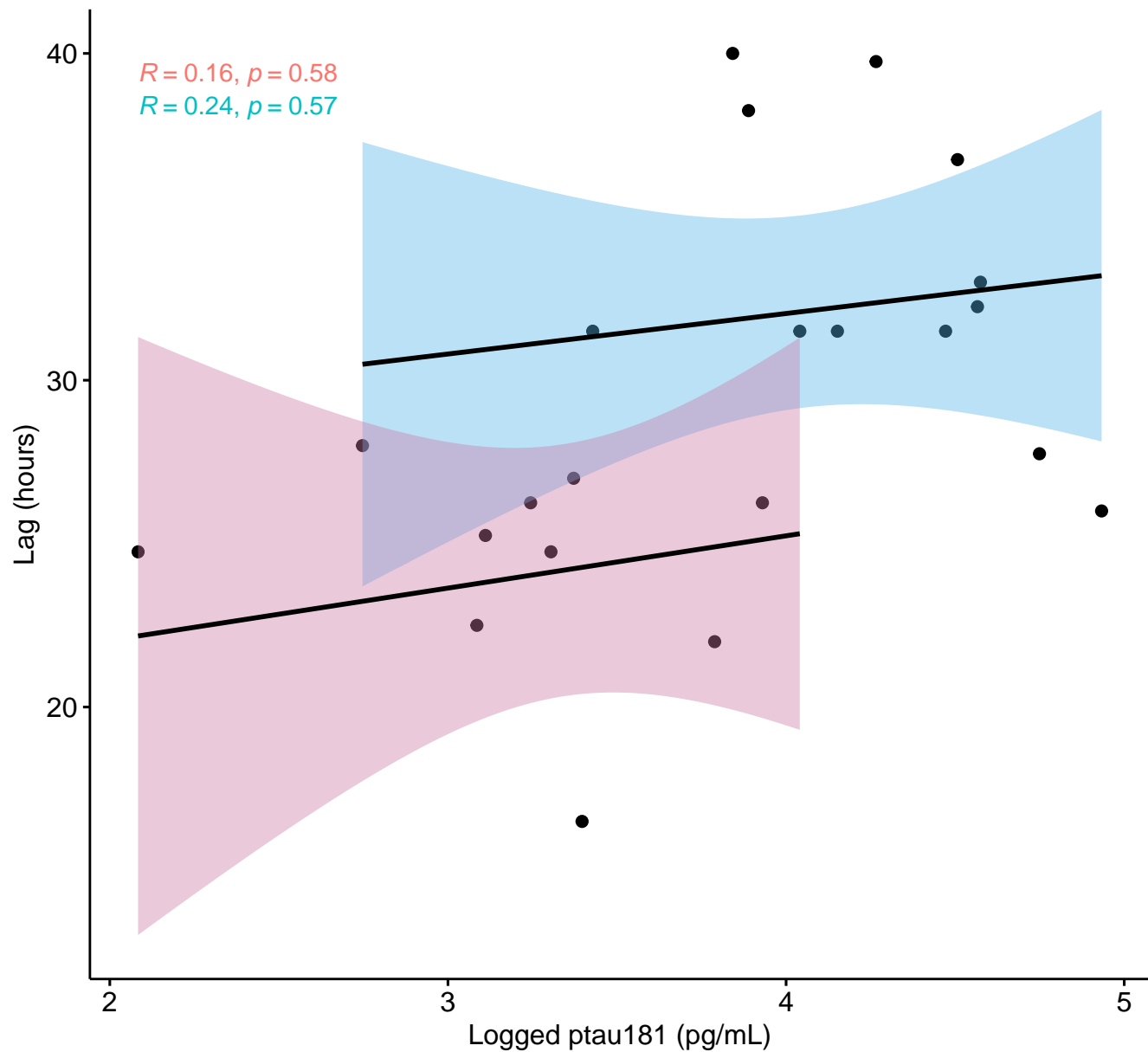
Diagnosis



CBS

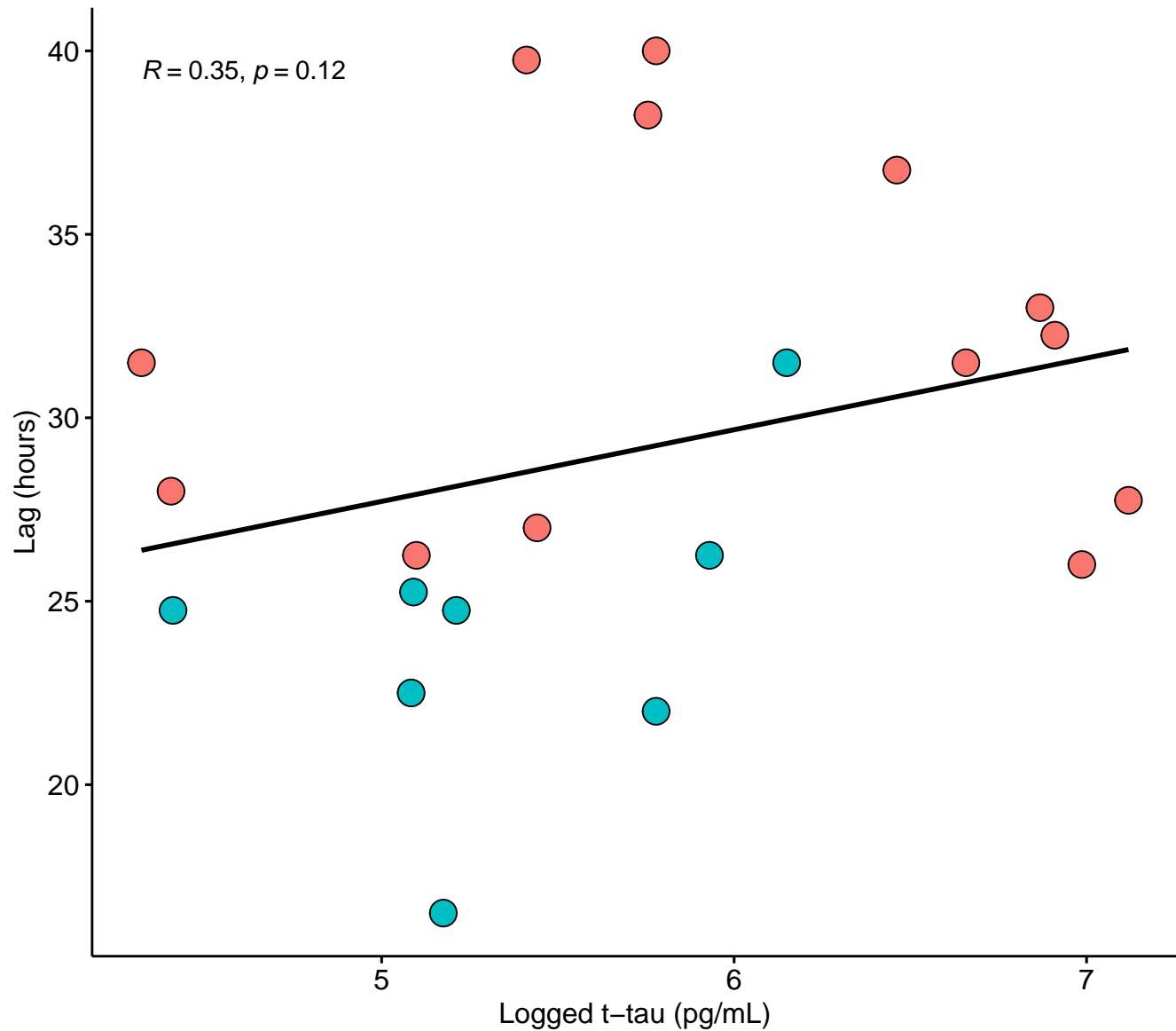


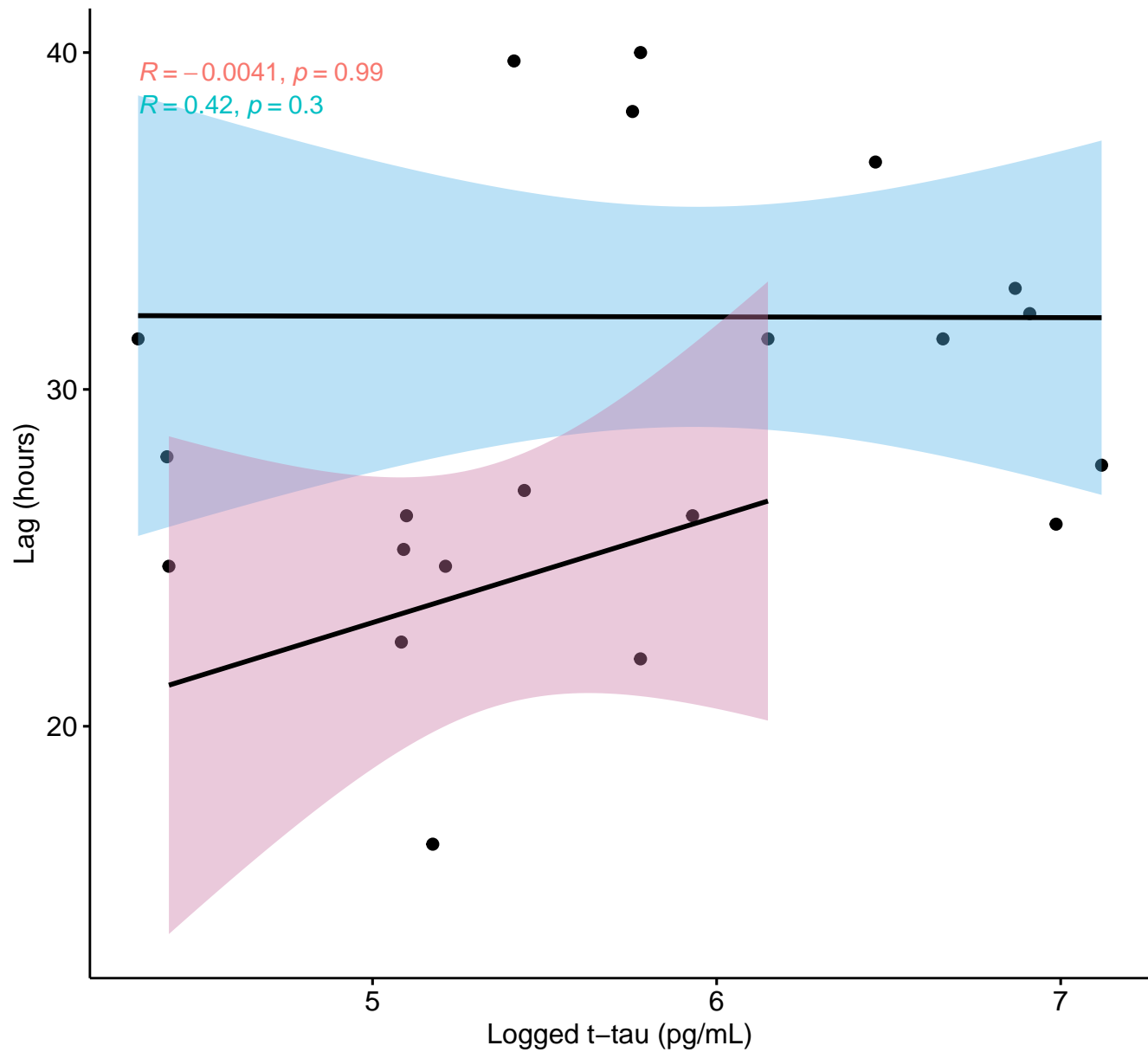
PSP



Correlation of lag with t-tau levels (Spearman)

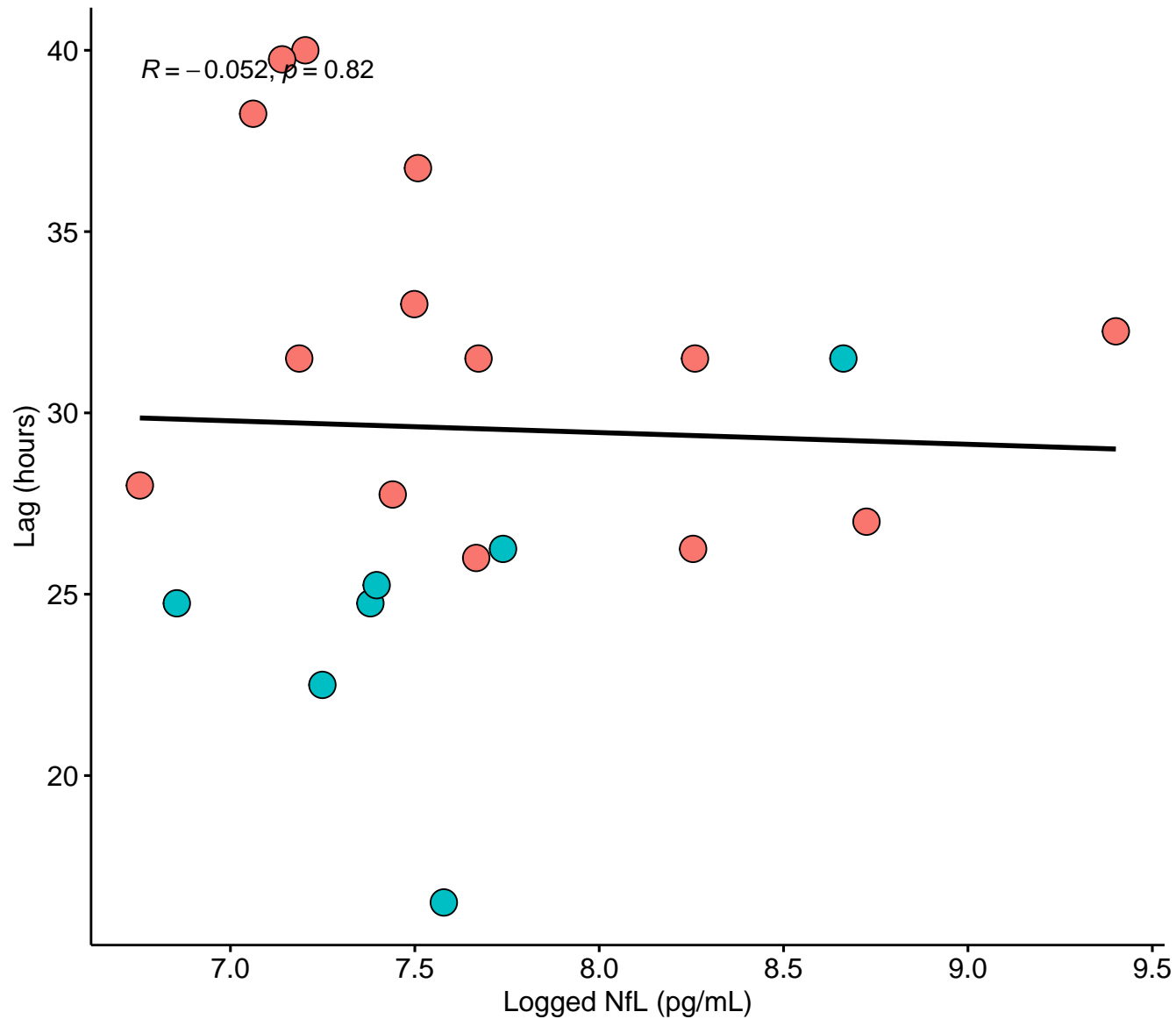
Diagnosis ● CBS ● PSP



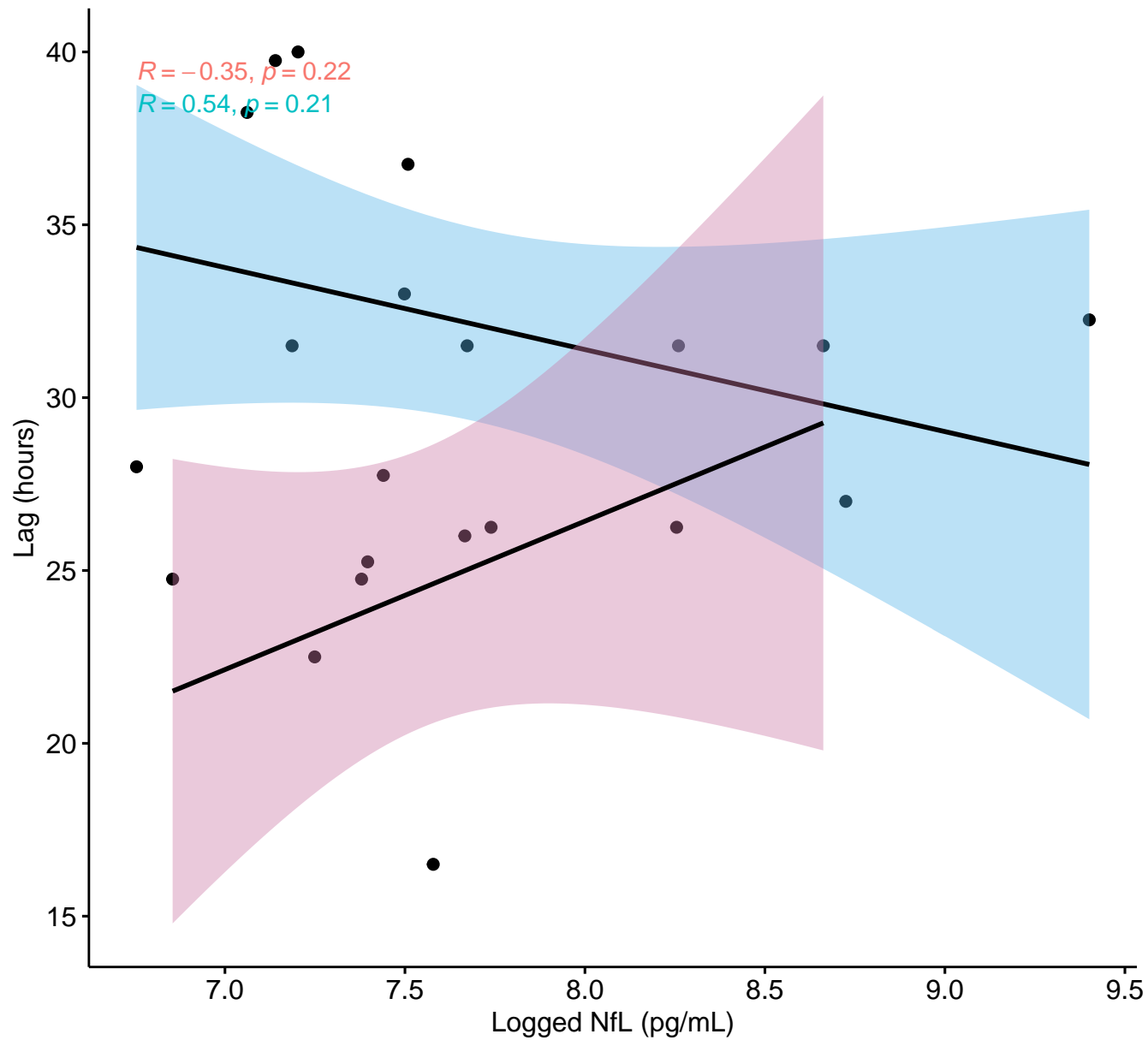


Correlation of lag with t-tau levels (Spearman)

Diagnosis ● CBS ● PSP

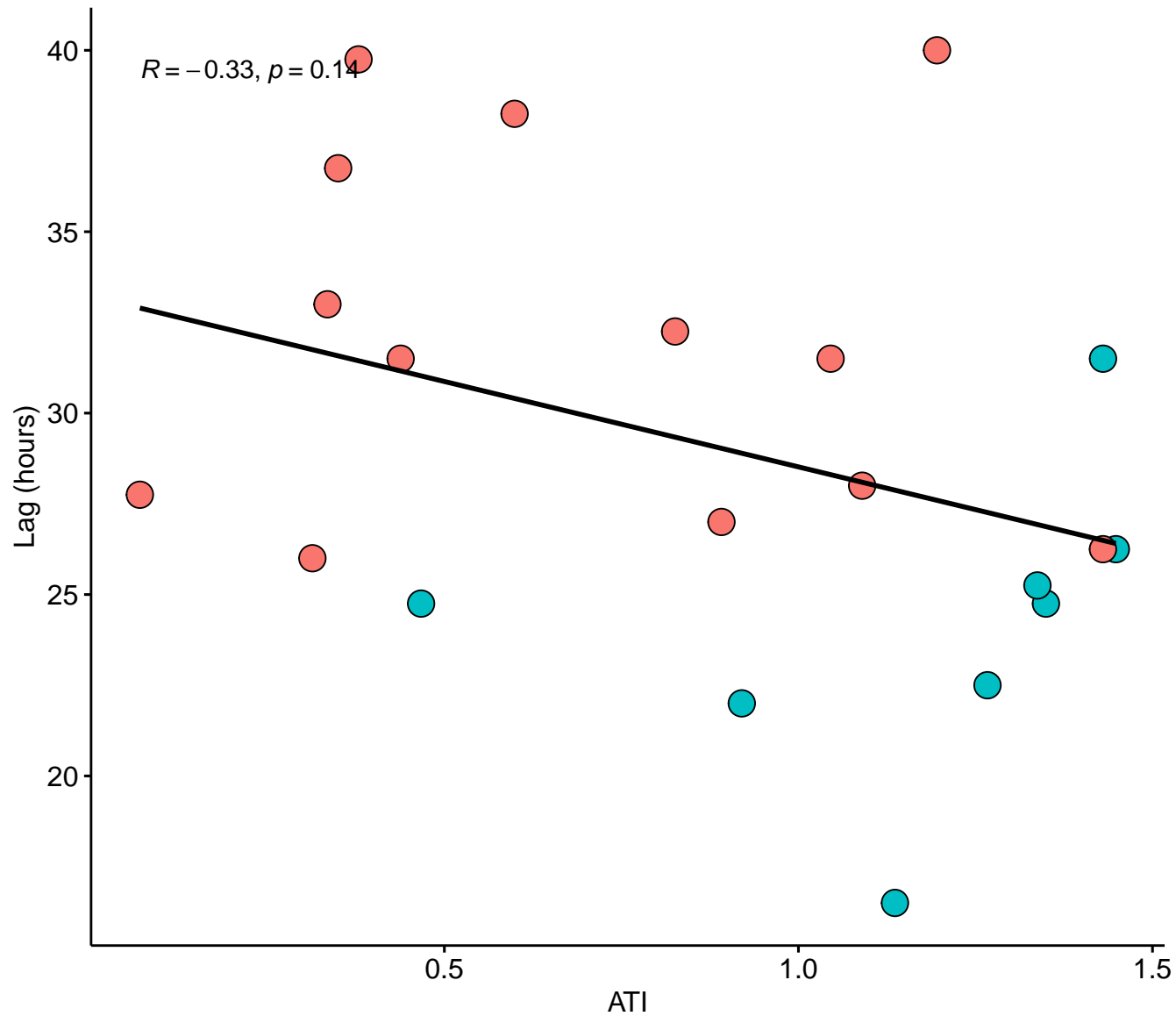


Diagnosis — CBS — PSP



Correlation of lag with t-tau levels (Spearman)

Diagnosis ● CBS ● PSP

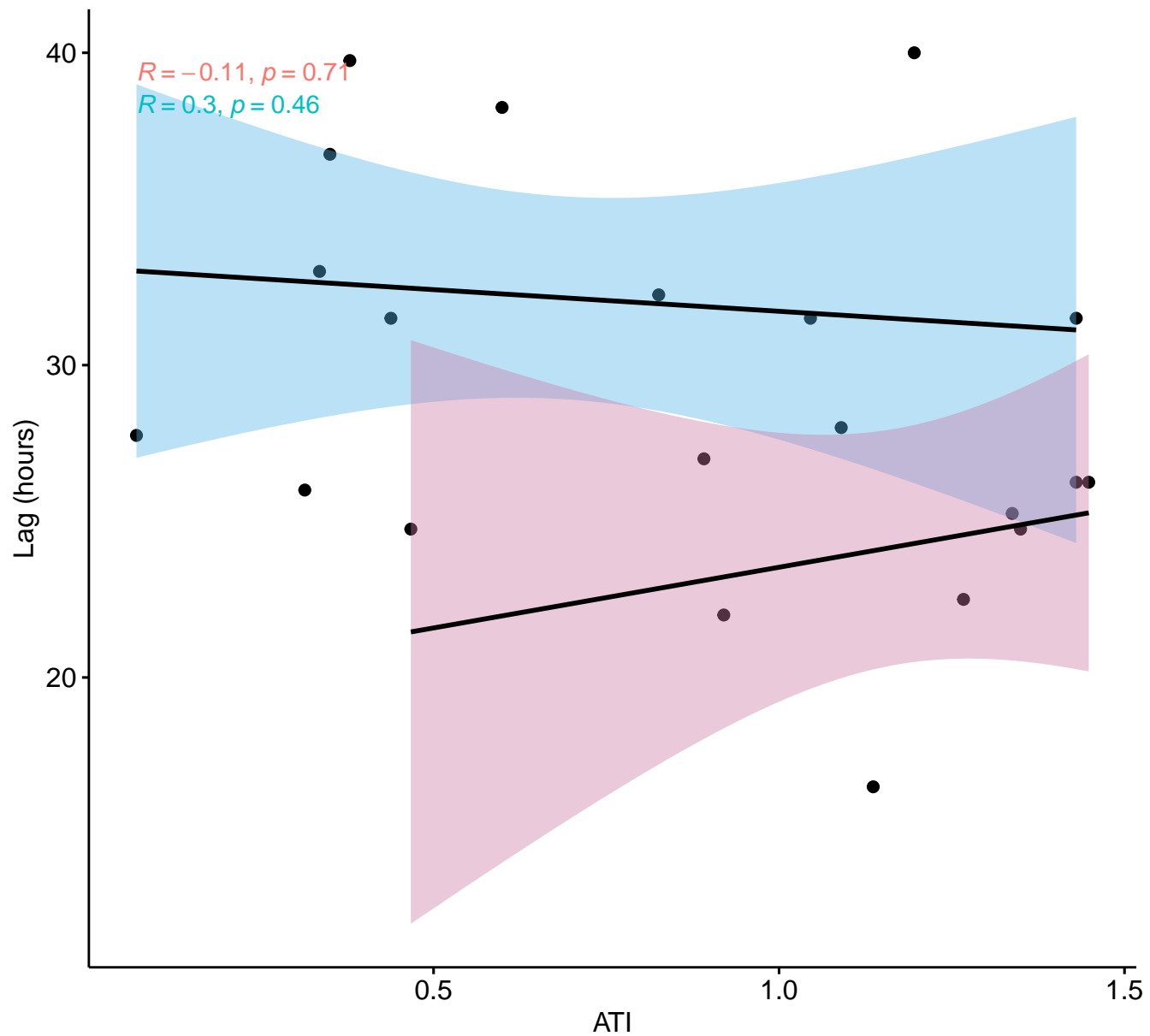


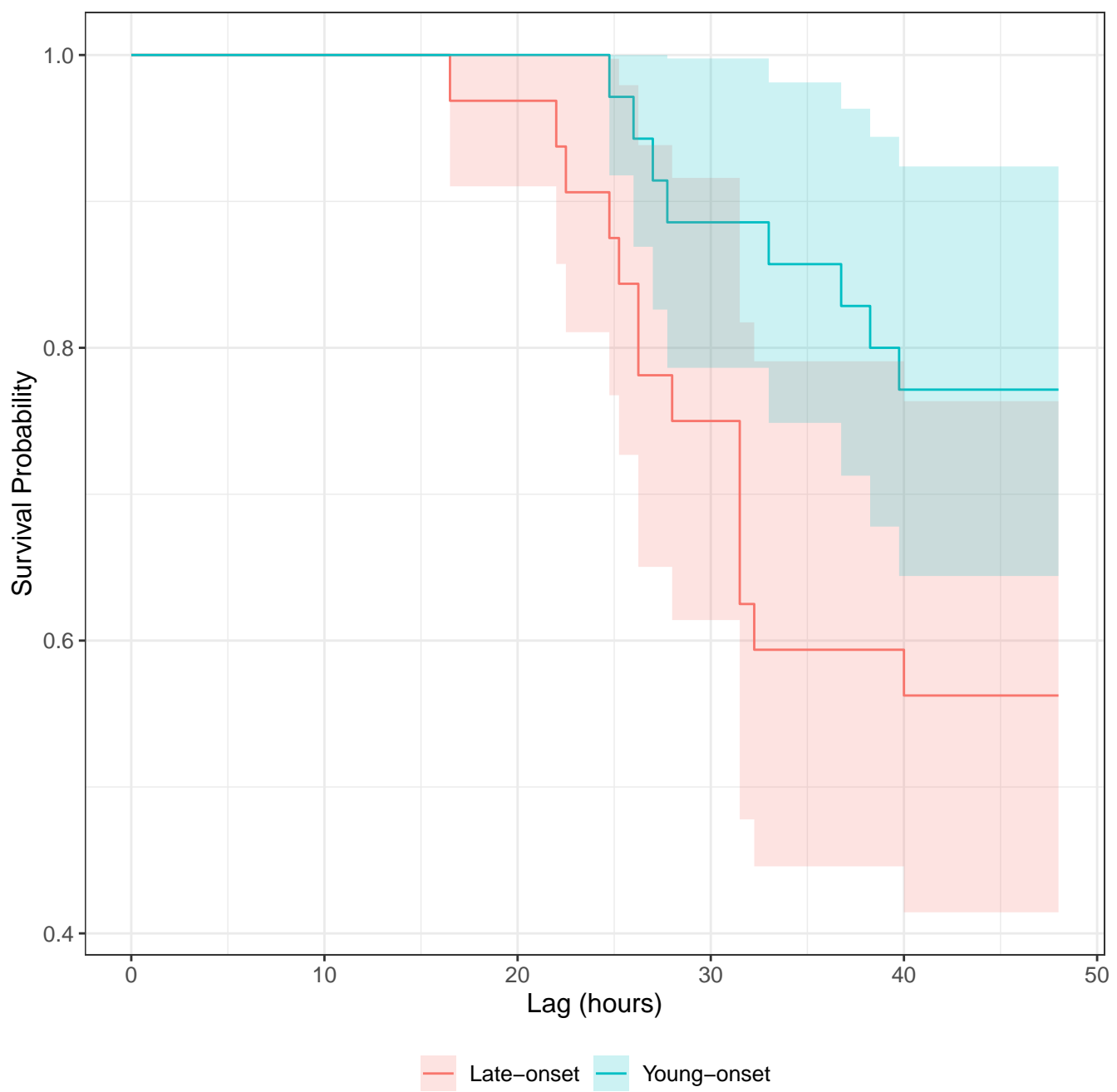
Diagnosis

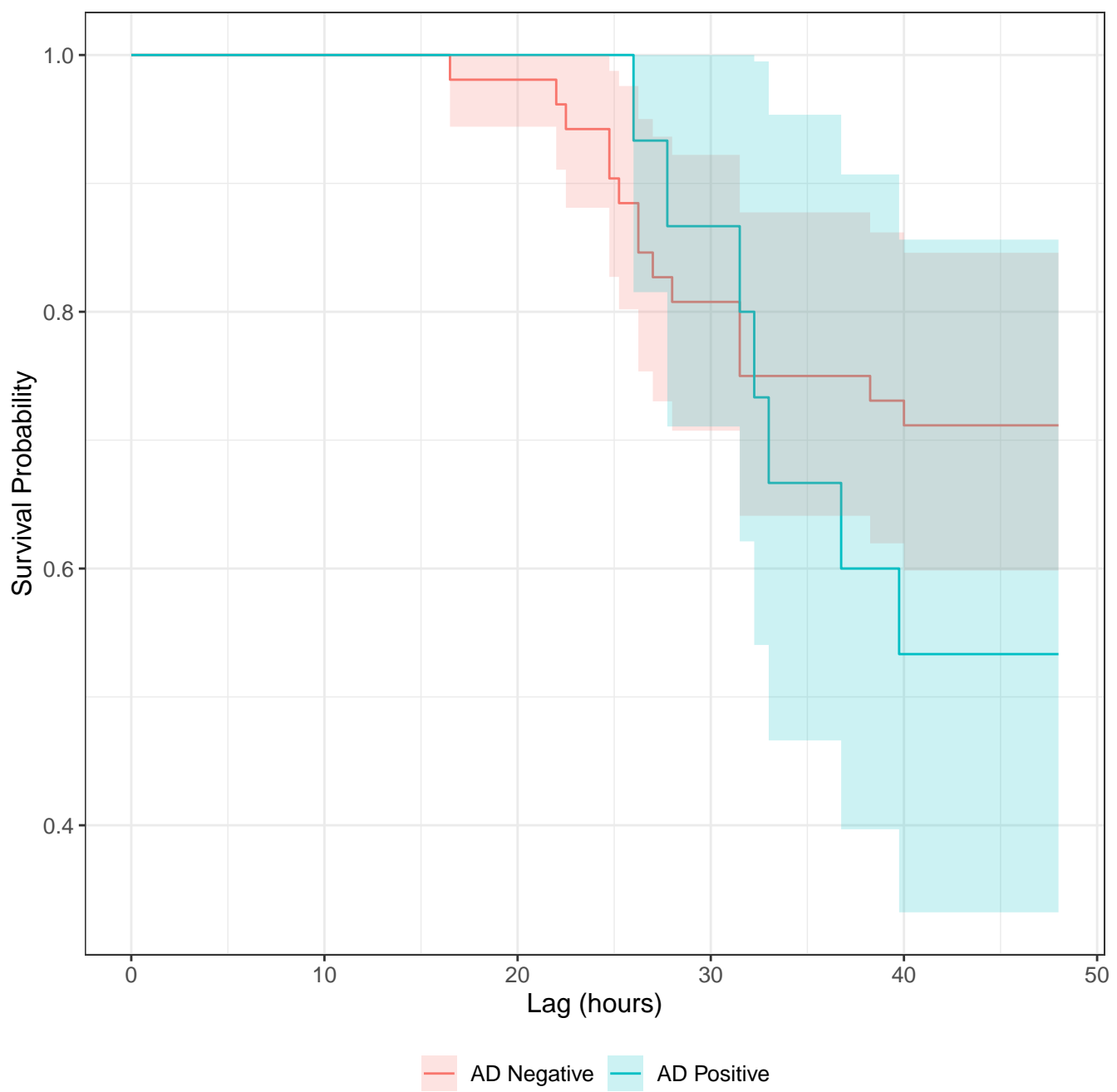


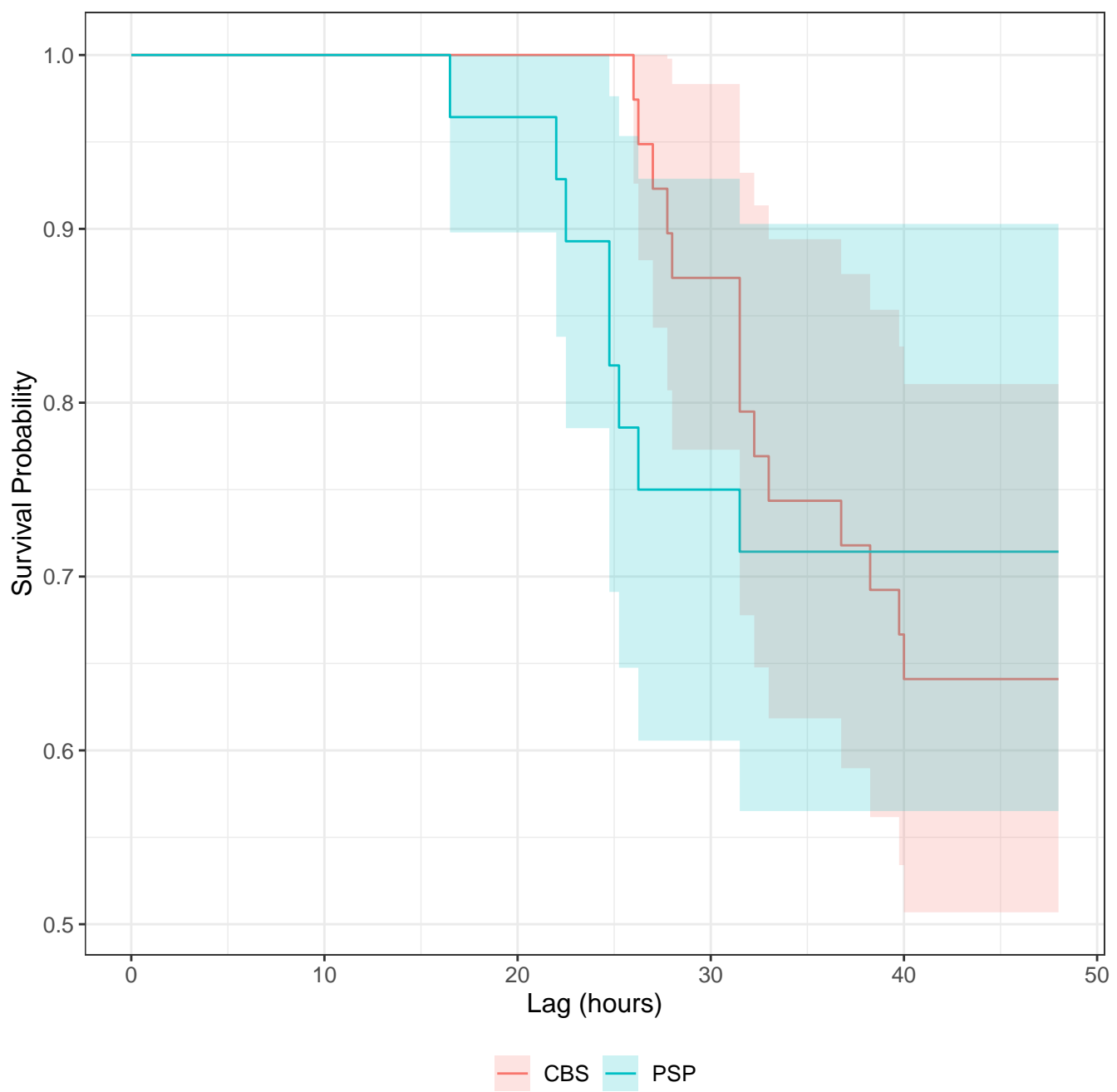
CBS

PSP









Hazard ratio

Early_onset

Late-onset
(N=32)

reference



Young-onset
(N=35)

0.43
(0.18 - 1.0)



0.057

AD

AD Negative
(N=52)

reference



AD Positive
(N=15)

1.61
(0.65 - 3.9)



0.301

Events: 22; Global p-value (Log-Rank): 0.091456

AIC: 176.44; Concordance Index: 0.64

0.1

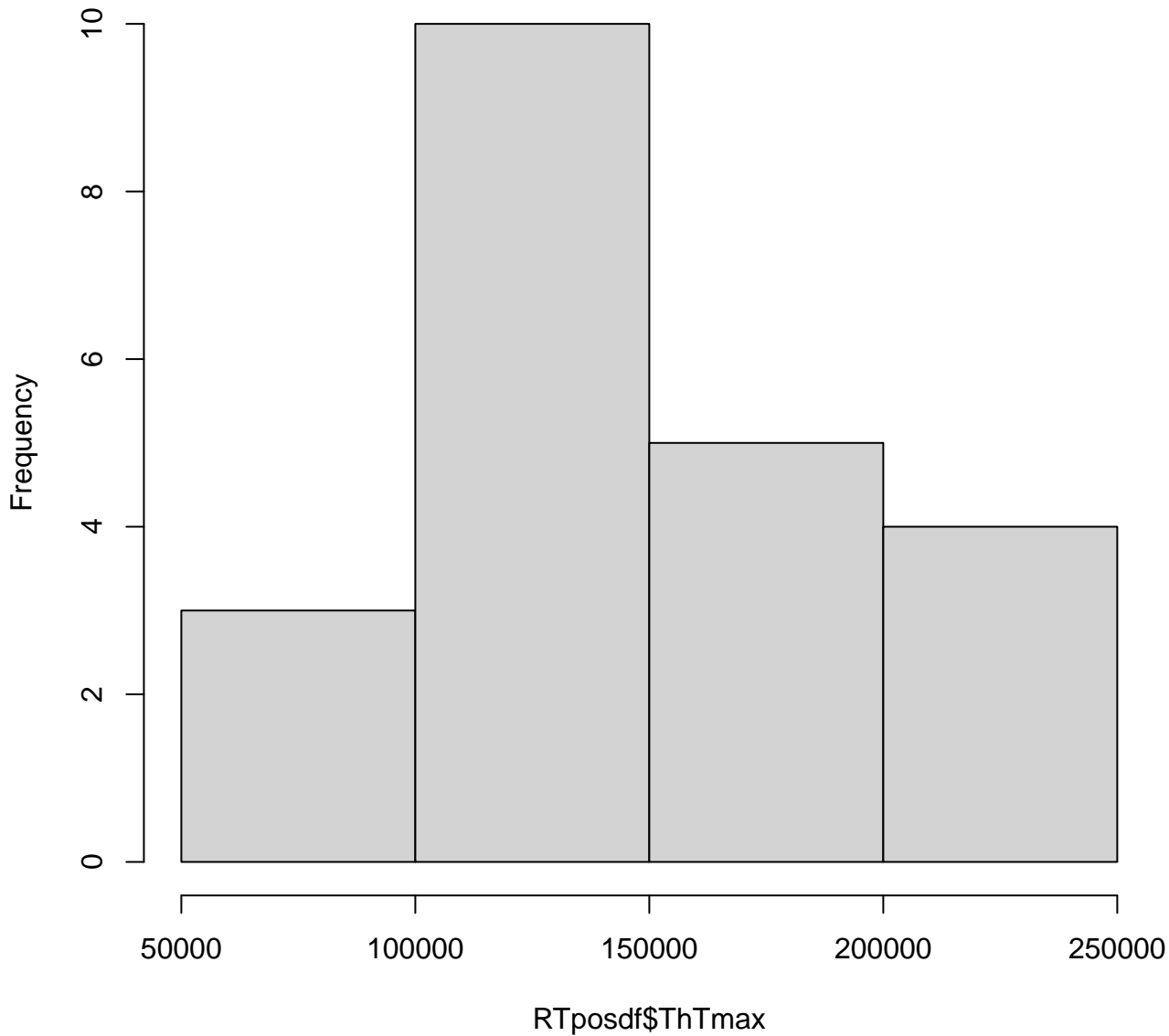
0.2

0.5

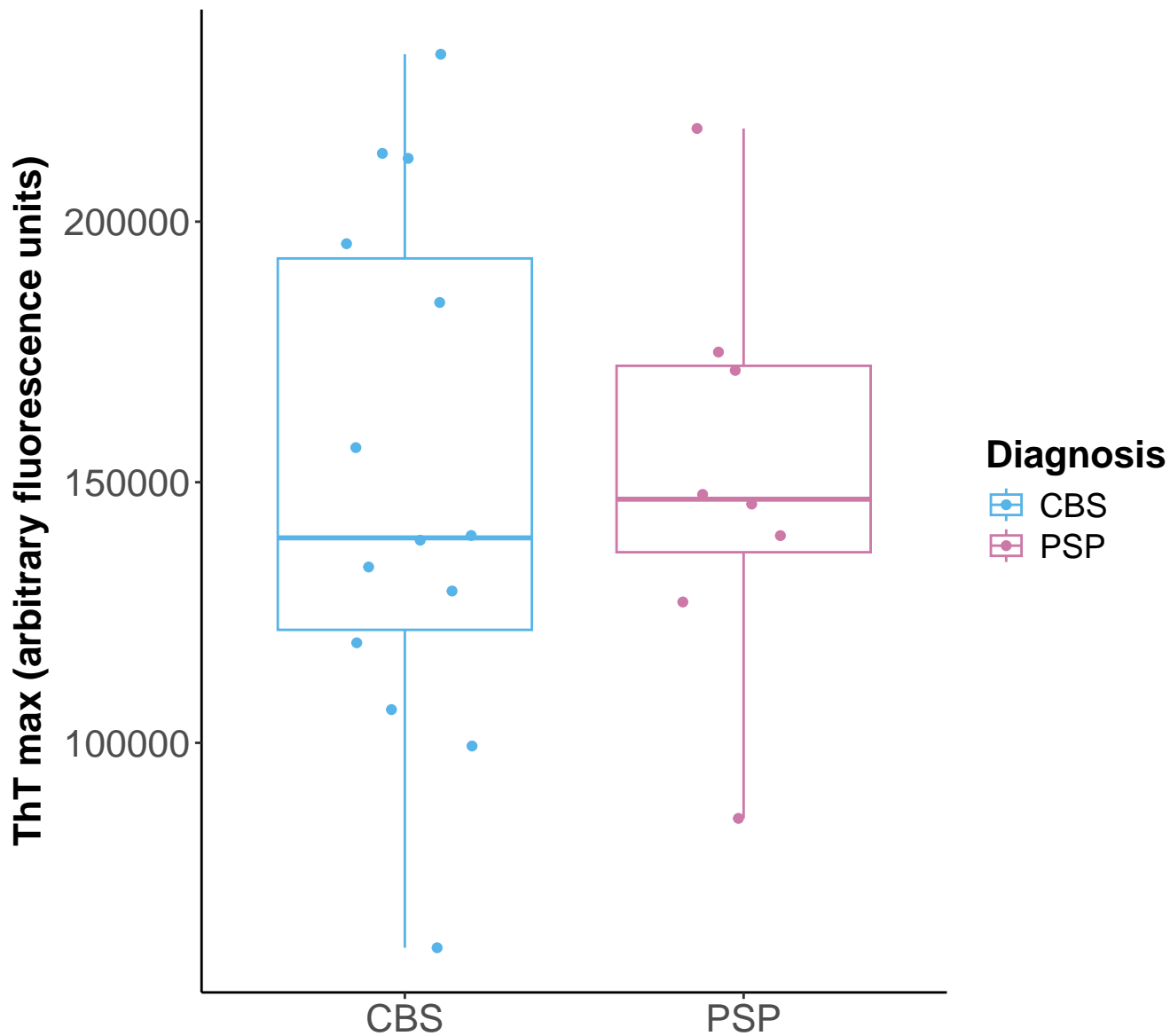
1

2

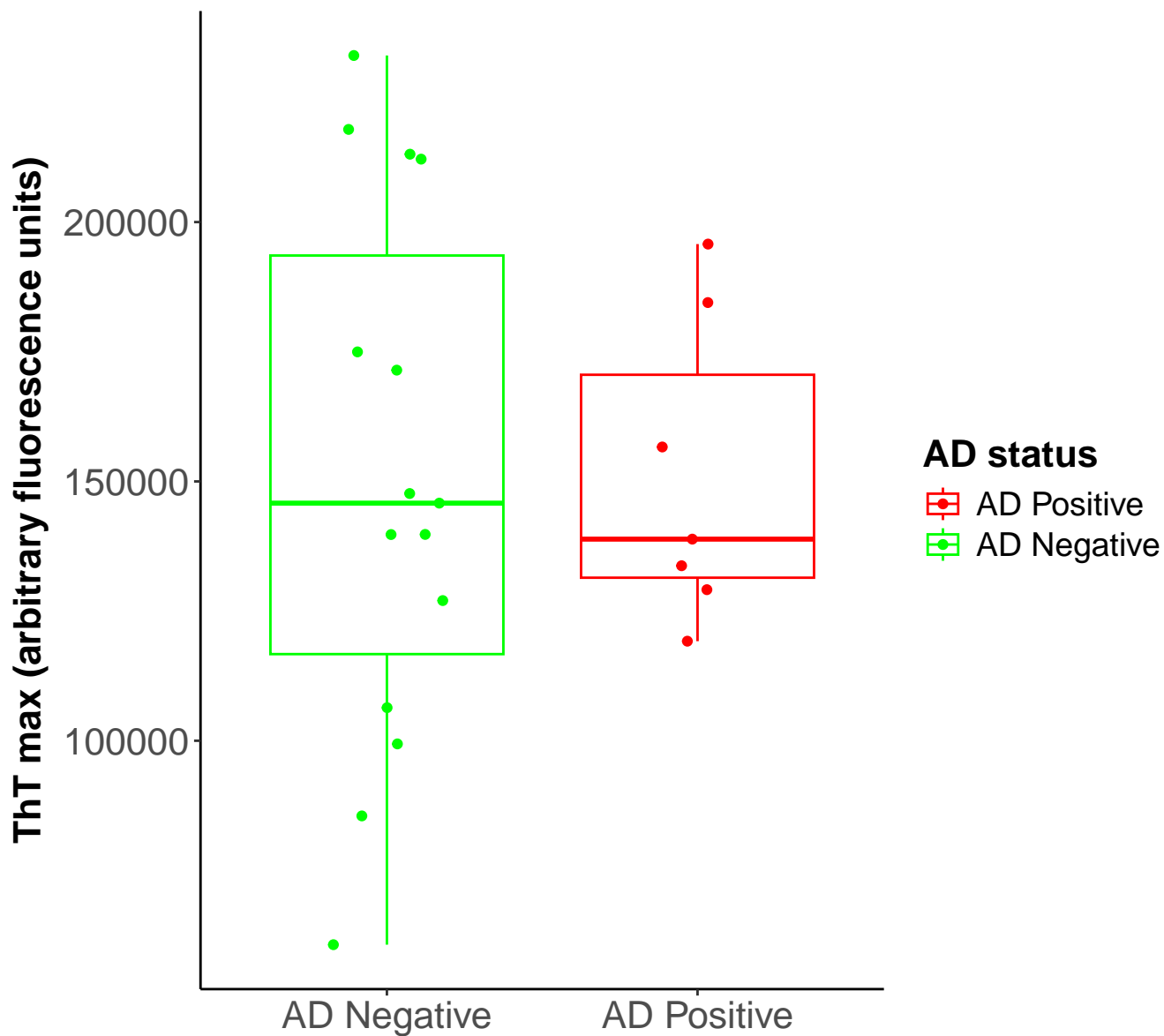
Histogram of RTposdf\$ThTmax



ThT max by diagnosis



ThT max by AD status



ThT max by type of onset

