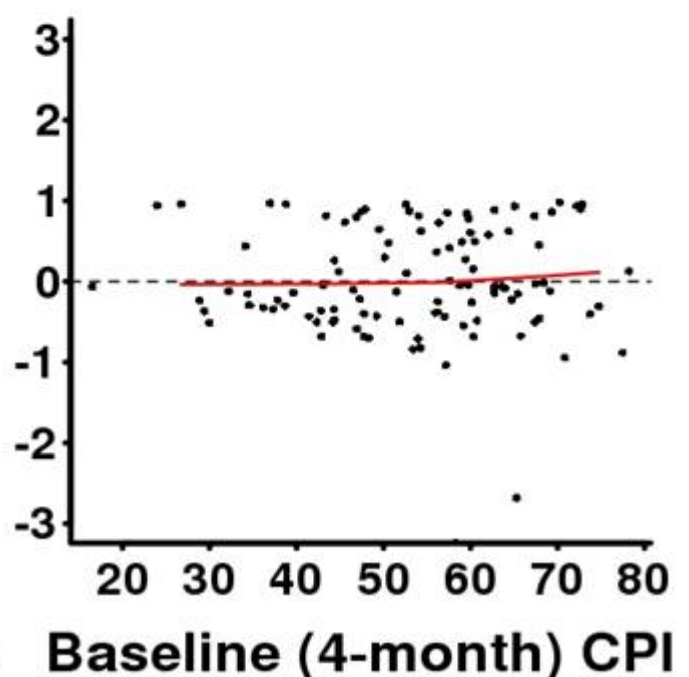
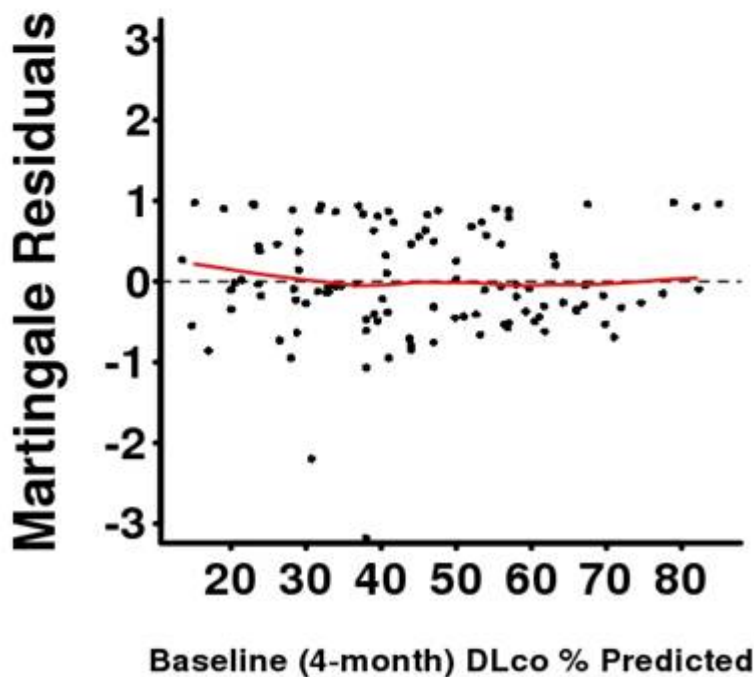
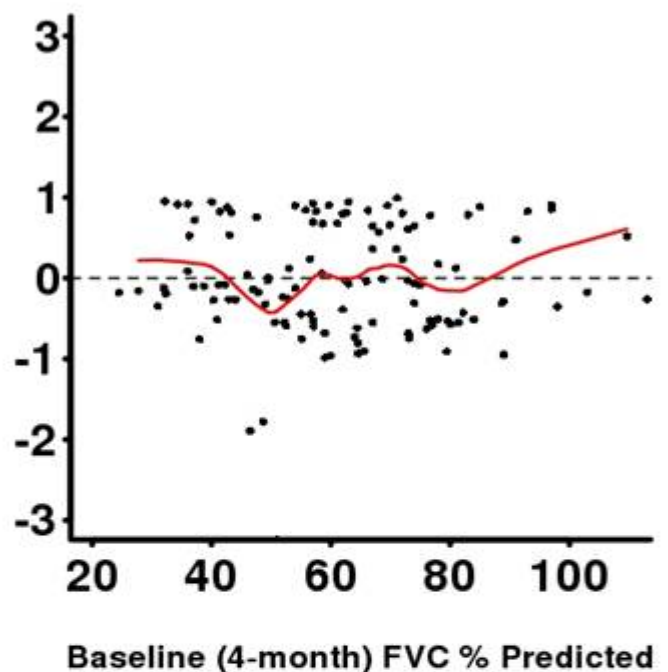
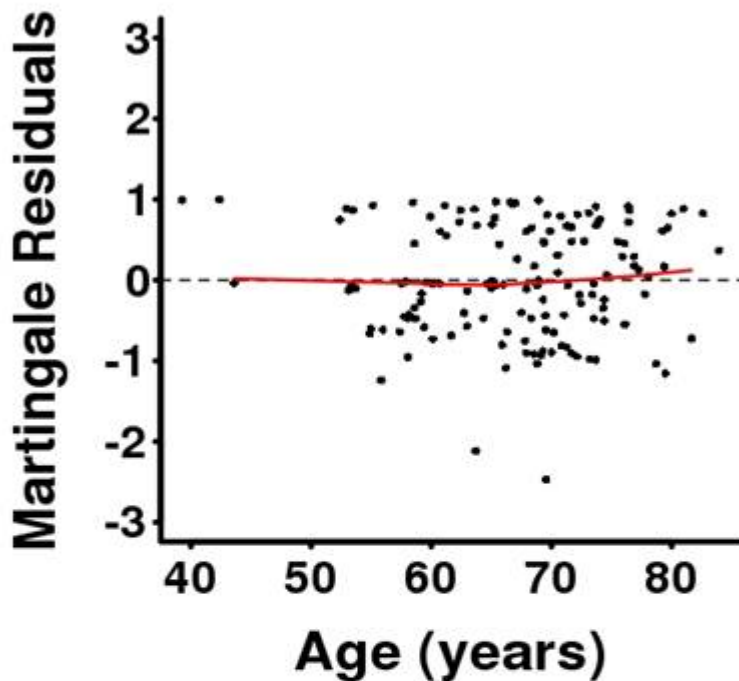


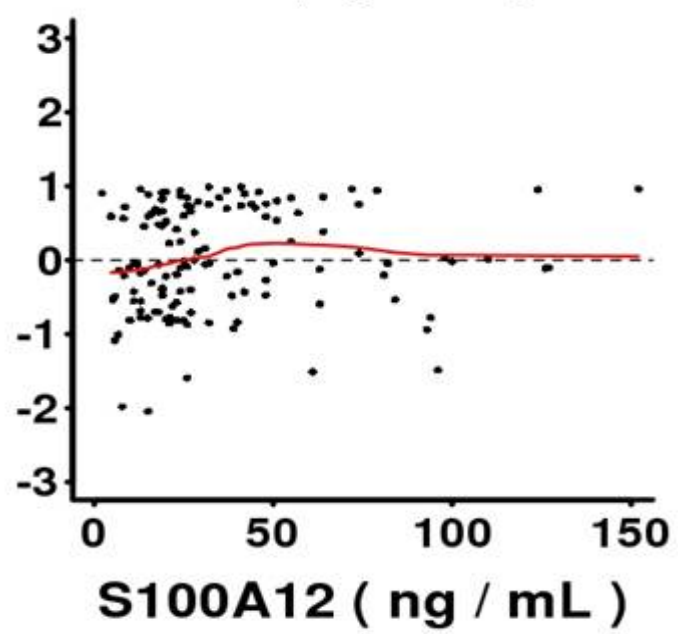
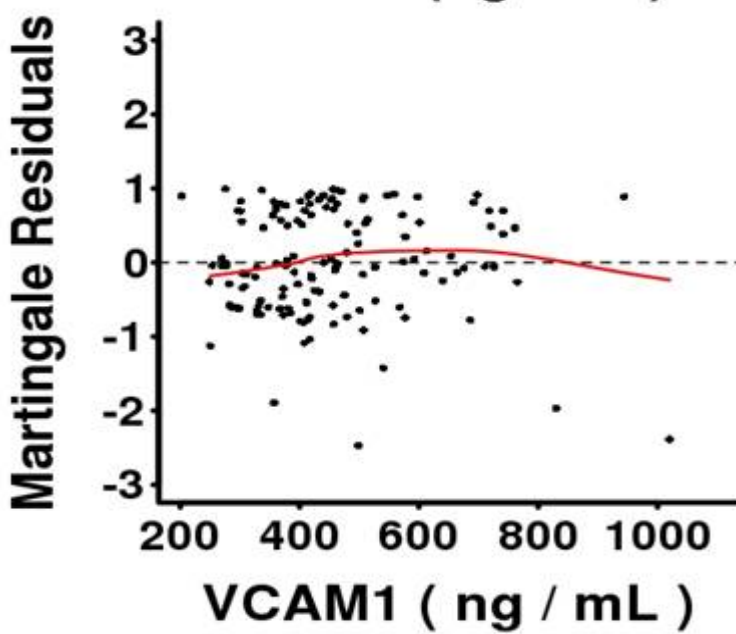
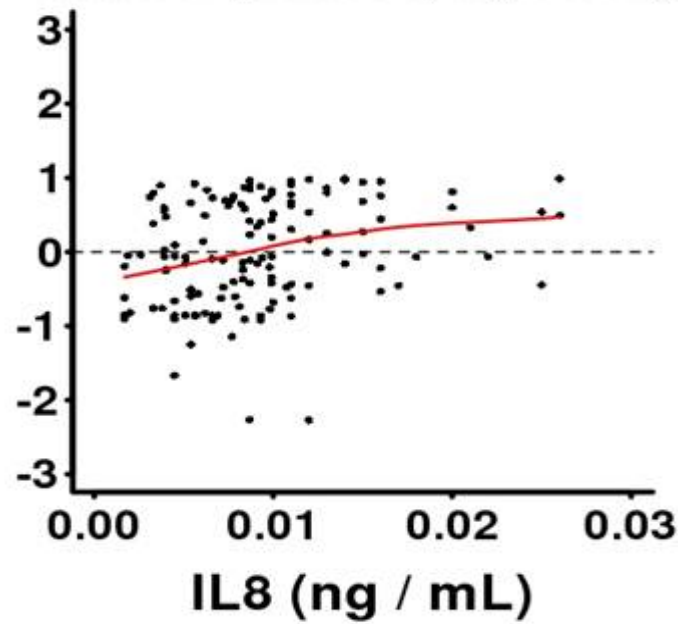
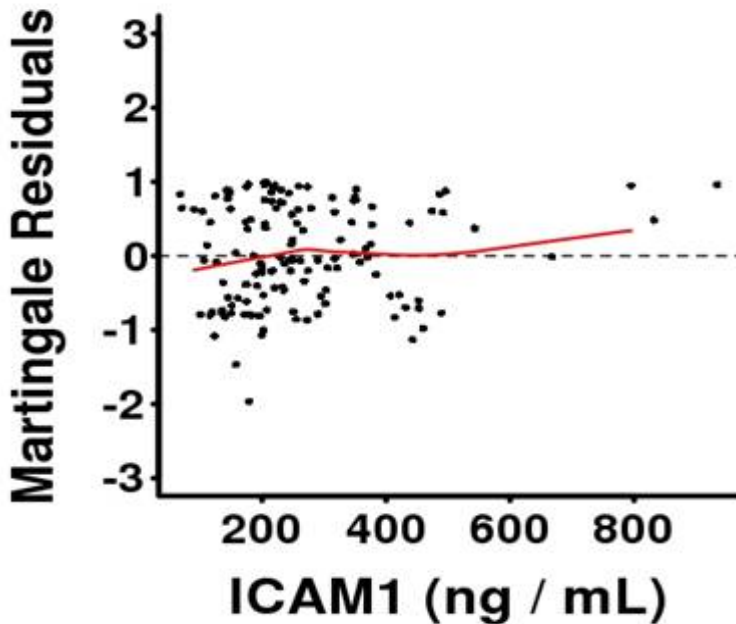
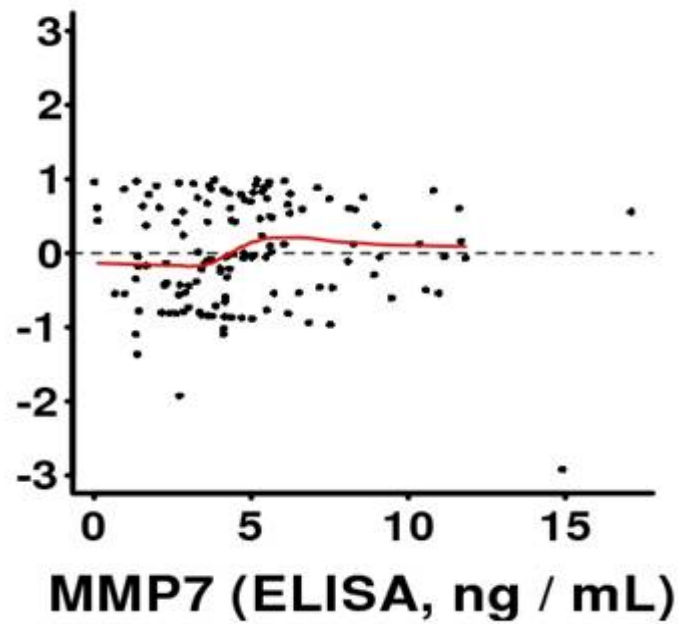
Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Mortality**



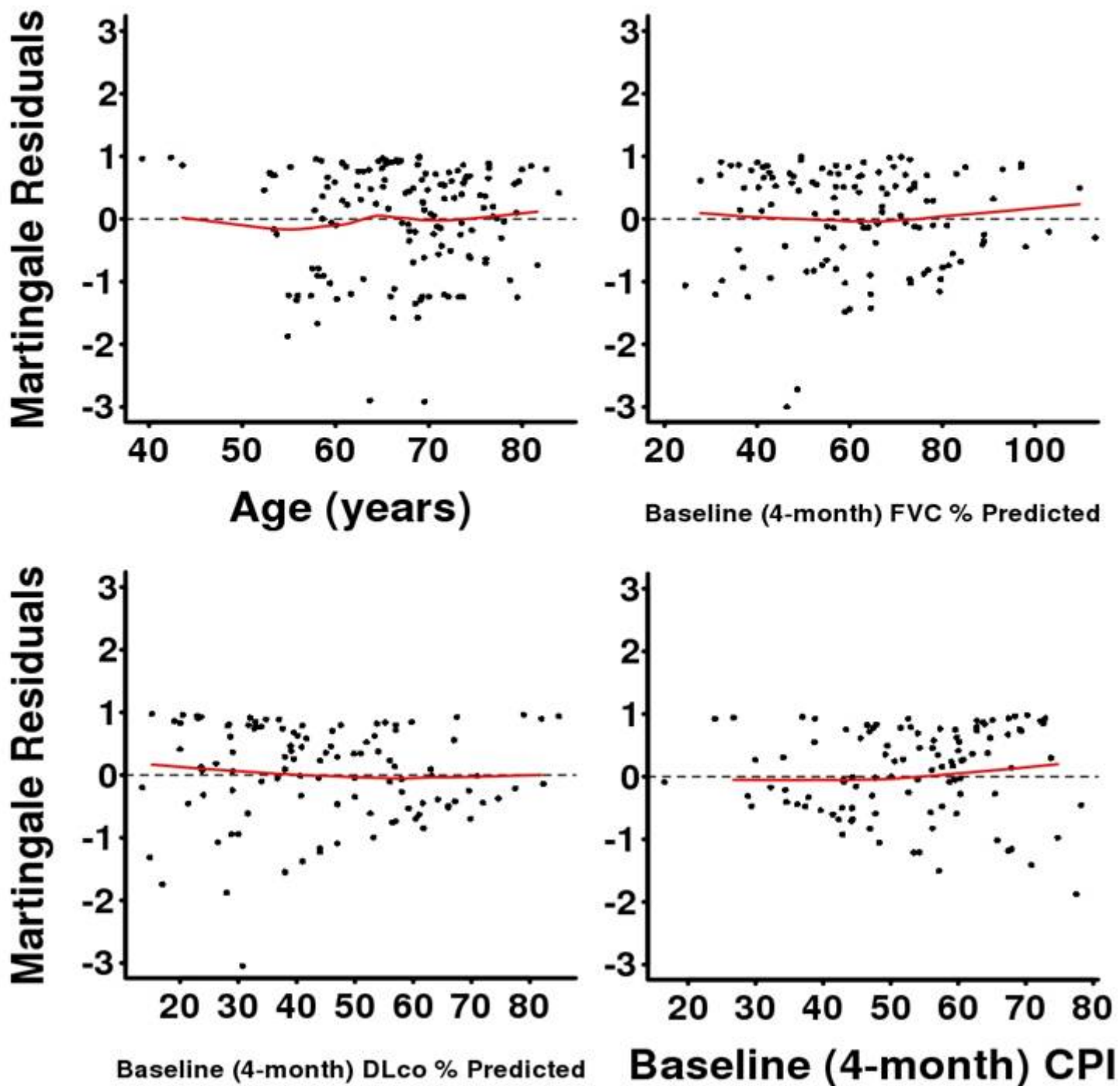
Martingale residuals
—Biomarkers
Cohort: **Derivation**
Outcome: **Mortality**



Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Transplant Free Survival**

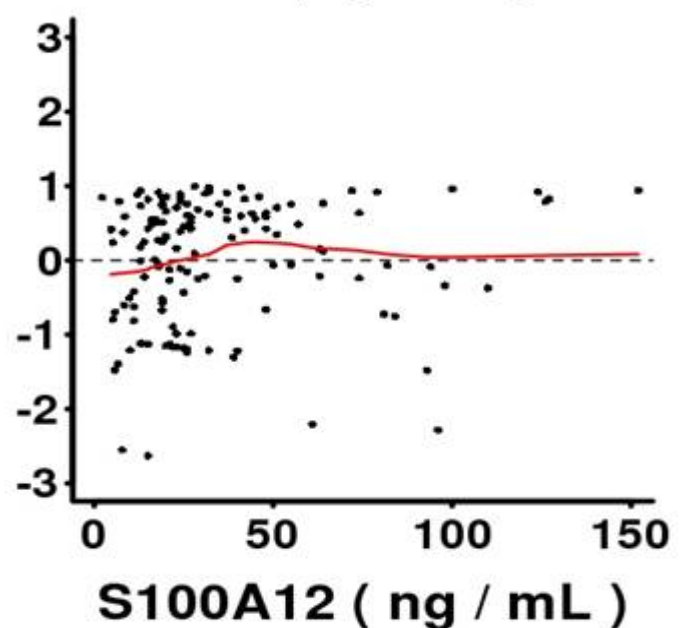
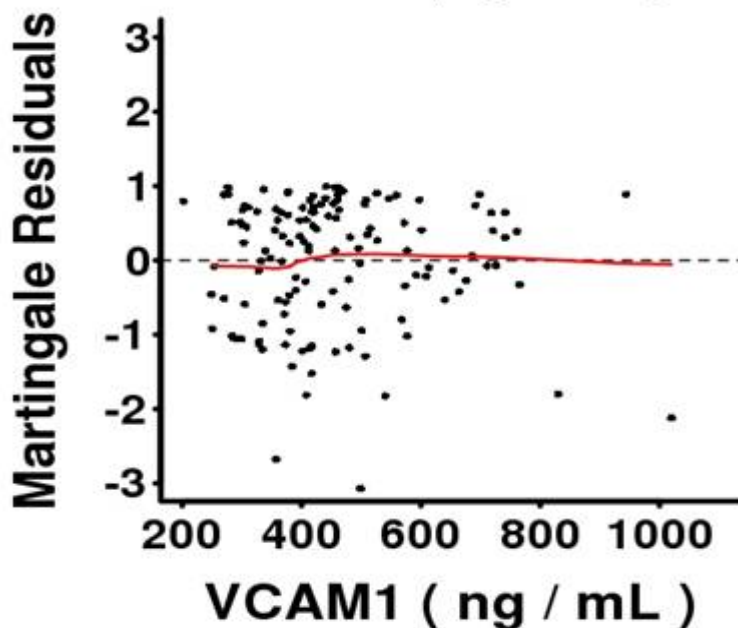
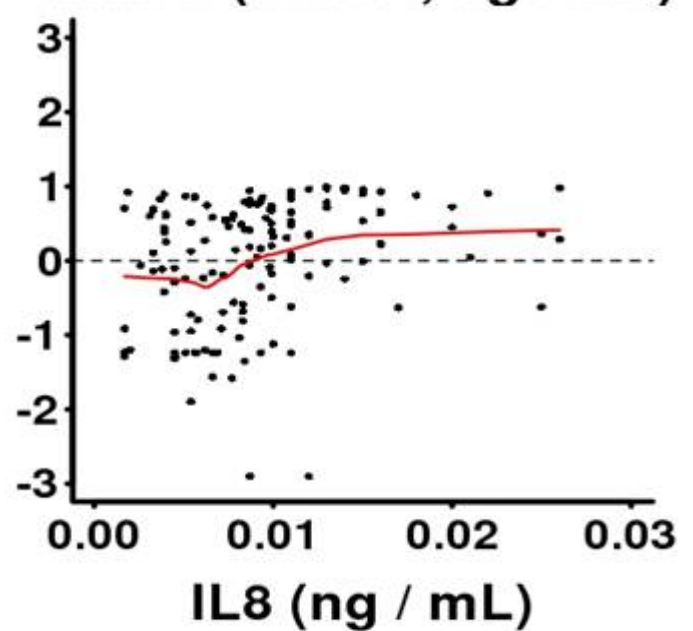
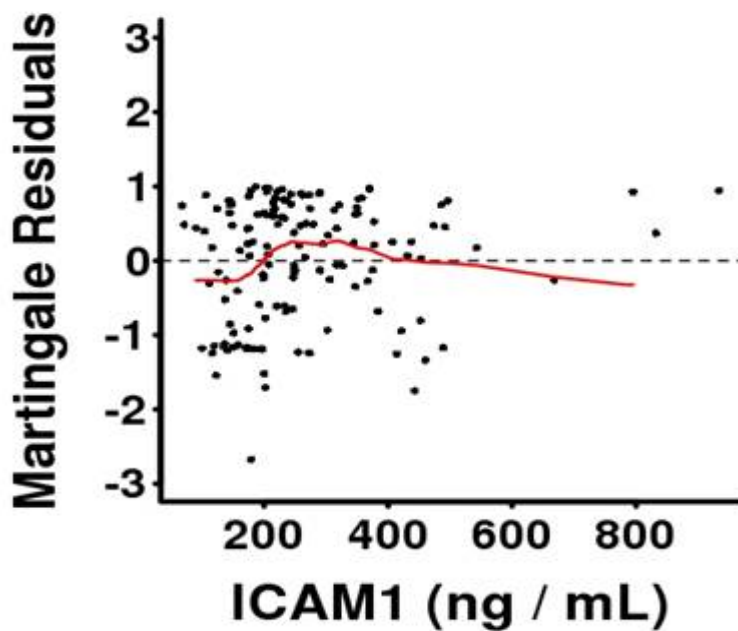
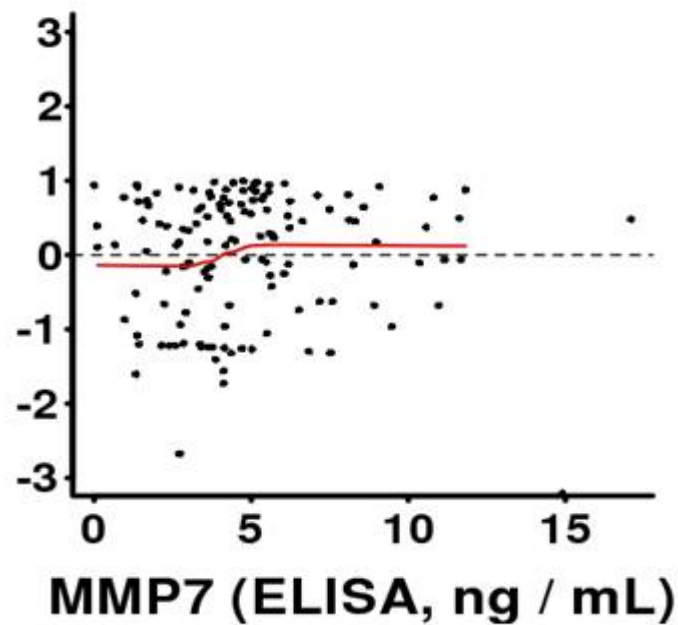


Martingale residuals

—Biomarkers

Cohort: **Derivation**

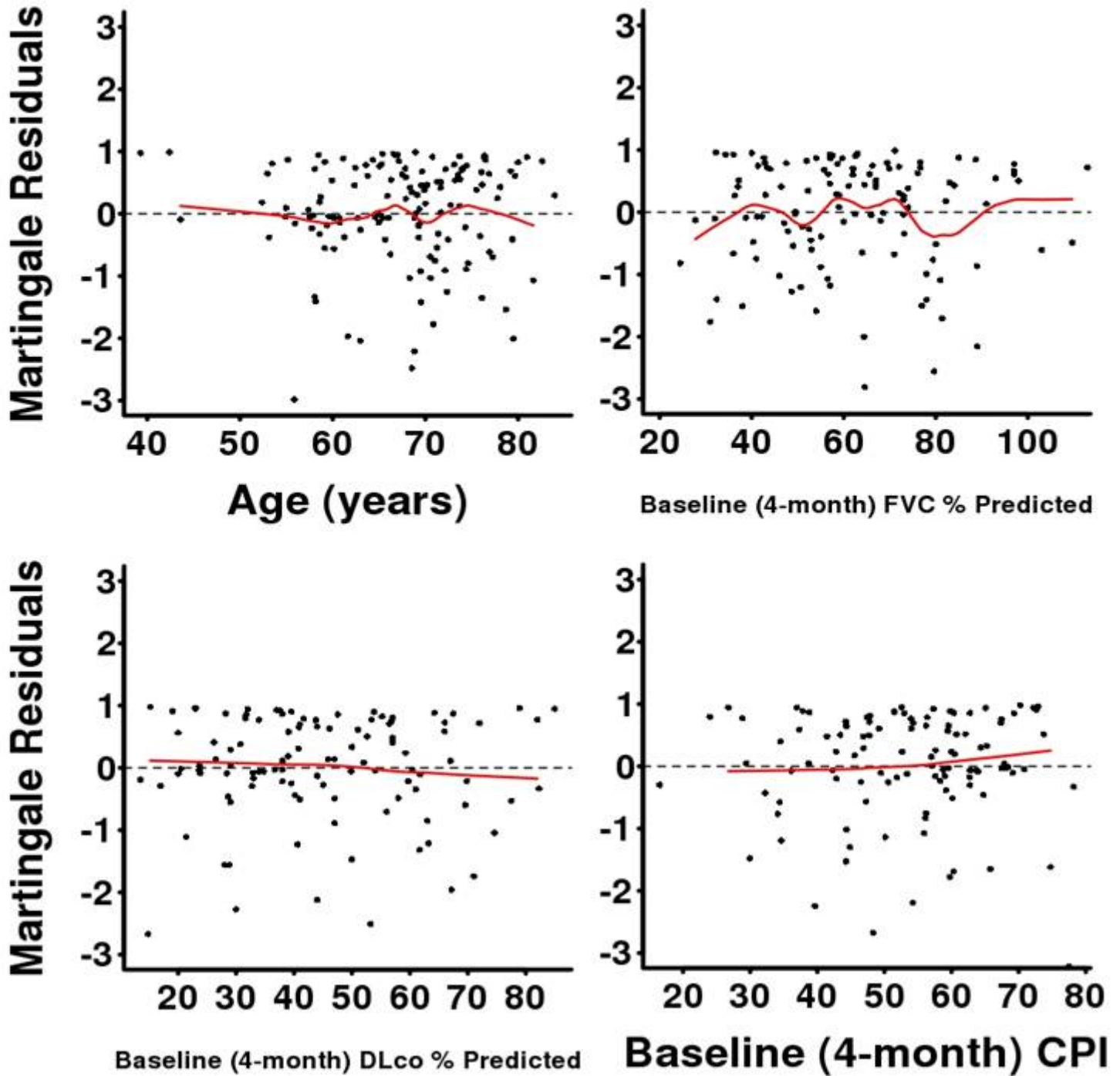
Outcome: **Transplant
Free Survival**



Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Progression Free Survival by FVC
(Lung Transplant is Censored)**



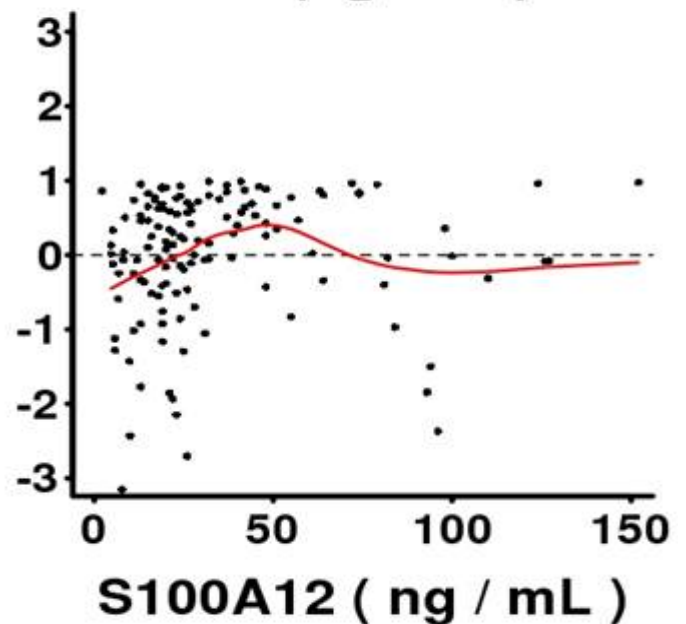
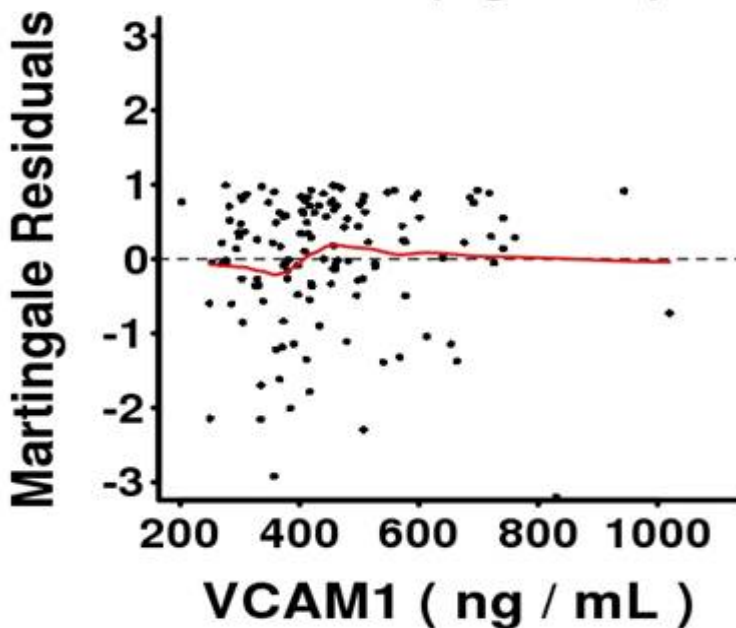
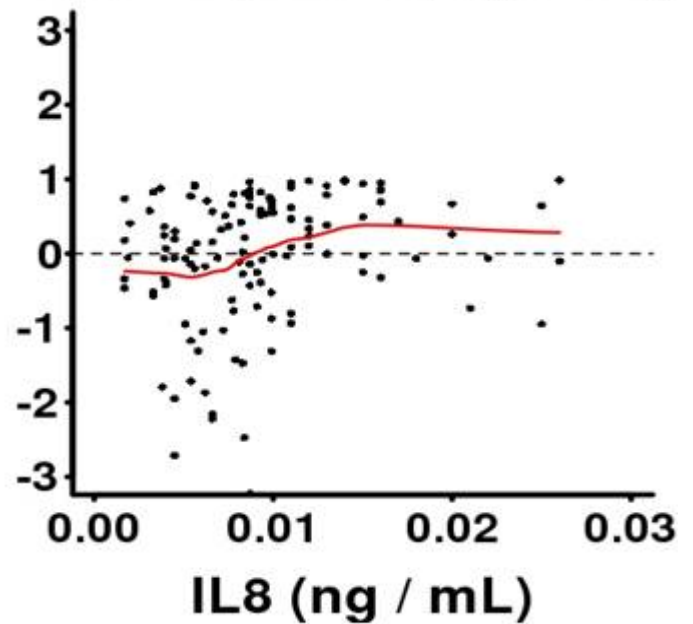
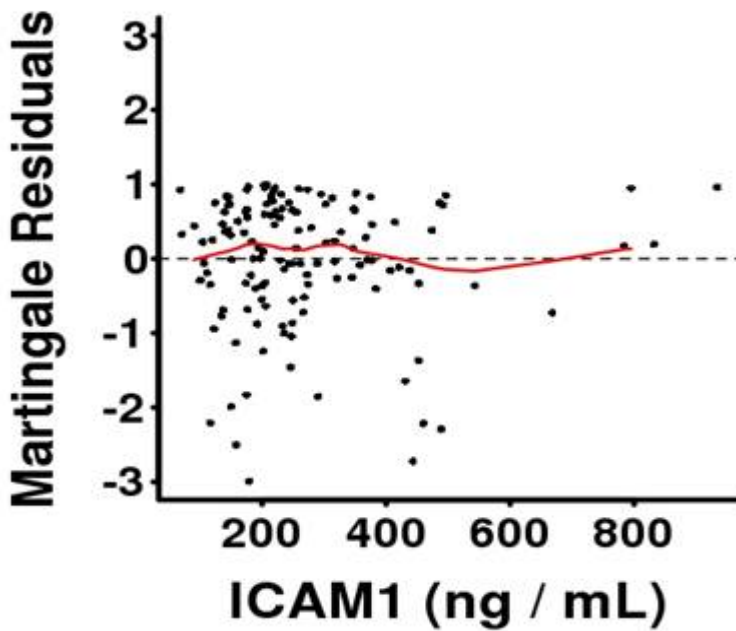
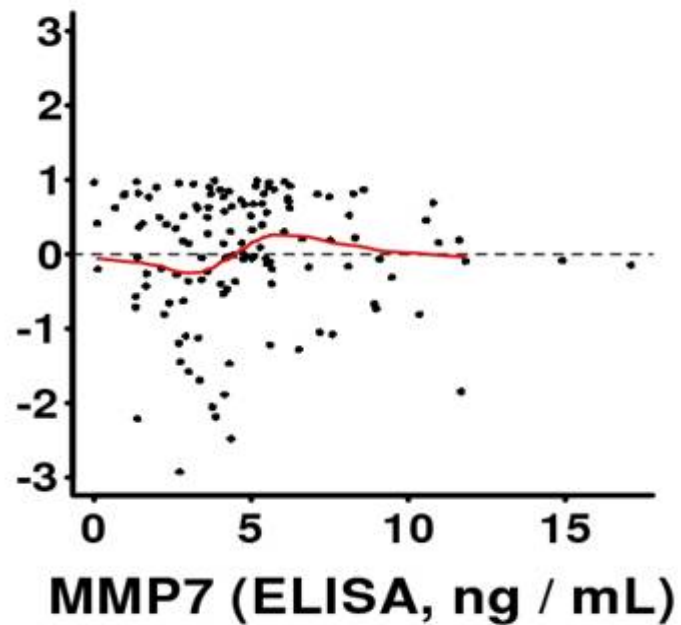
Martingale residuals

—Biomarkers

Cohort: **Derivation**

Outcome: **Progression**

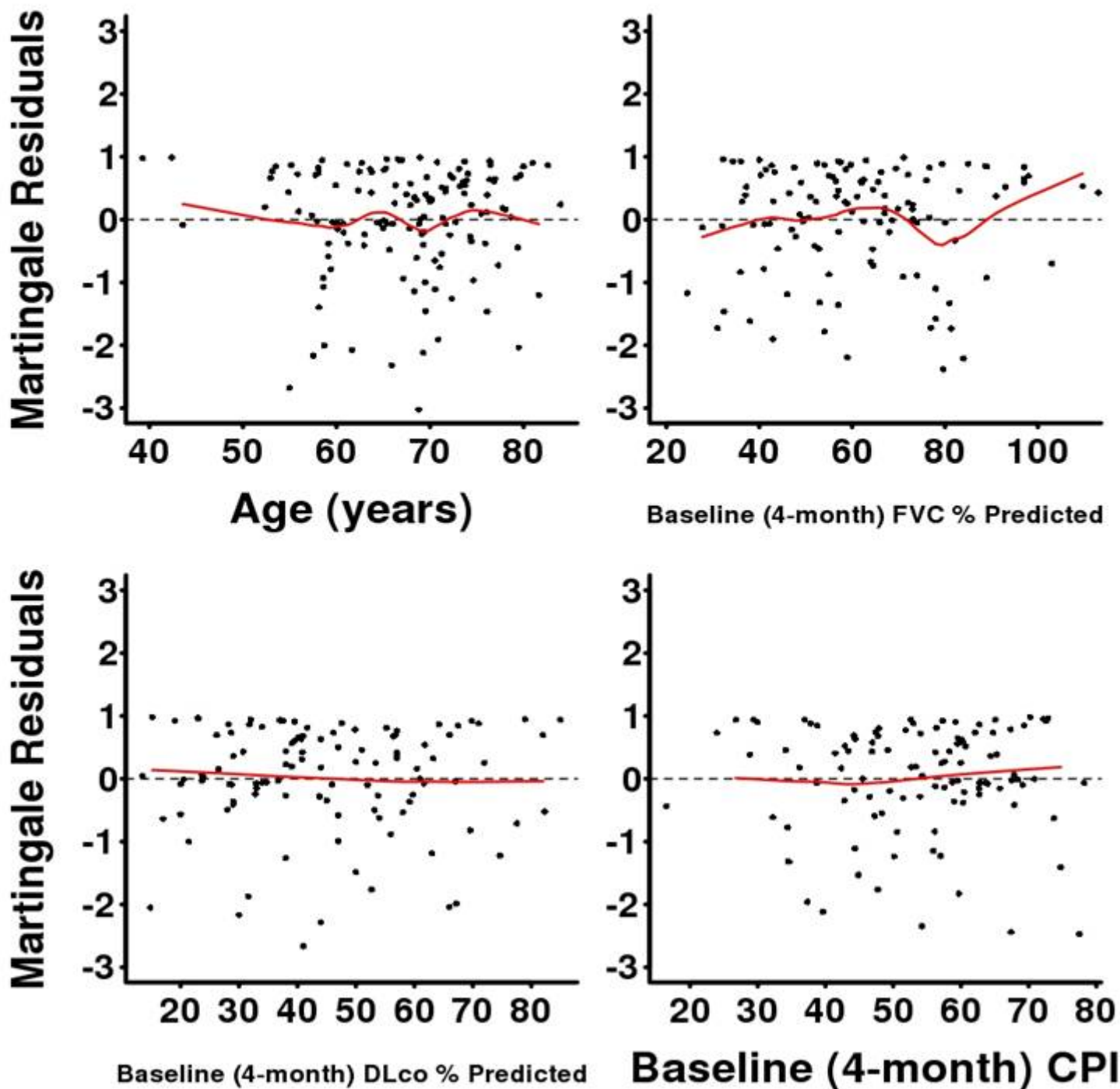
**Free Survival by FVC
(Lung Transplant is
Censored)**



Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Progression Free Survival by DLCO
(Lung Transplant is Censored)**



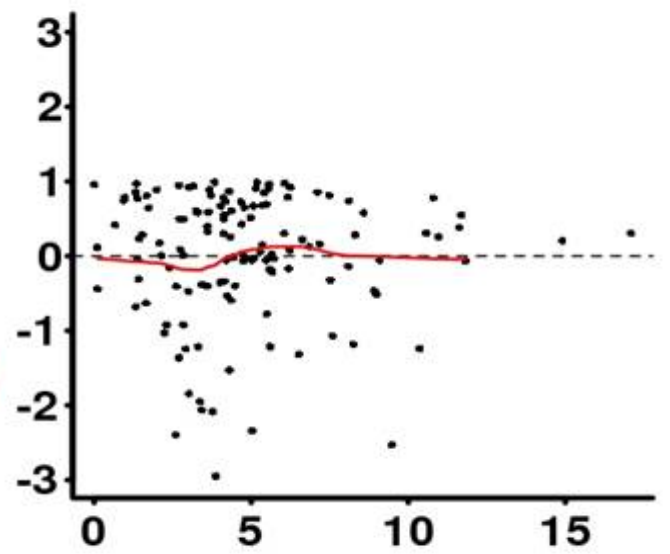
Martingale residuals

—Biomarkers

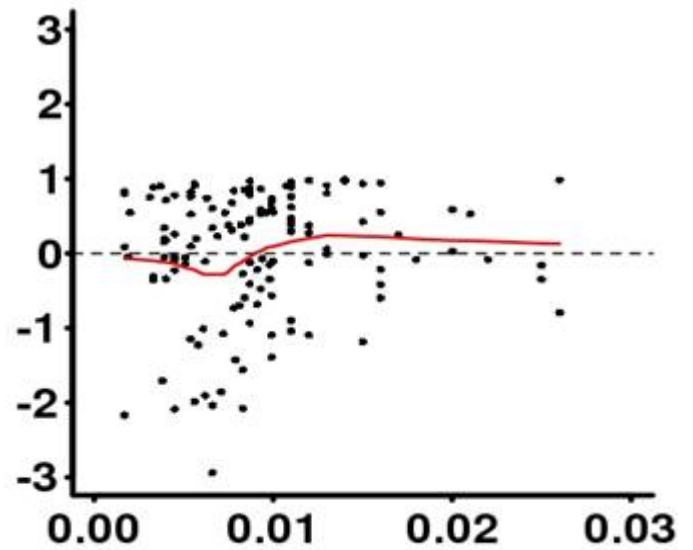
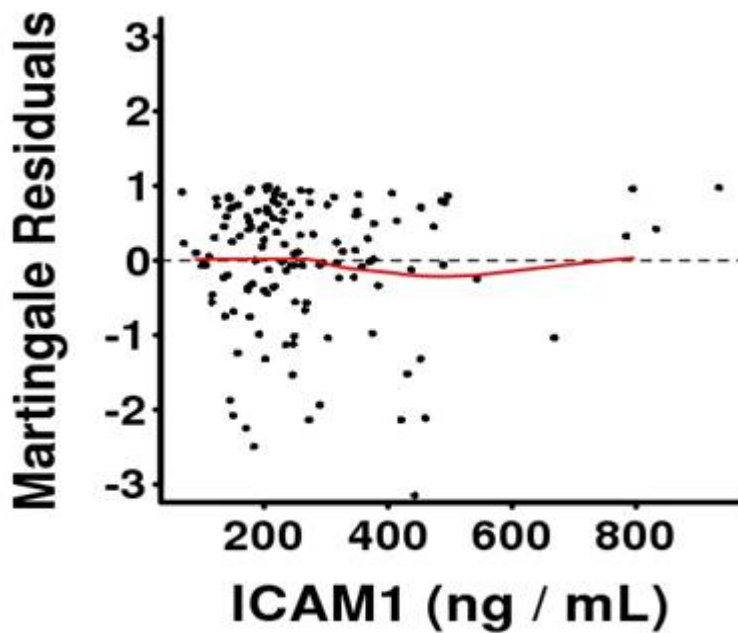
Cohort: **Derivation**

Outcome: **Progression**

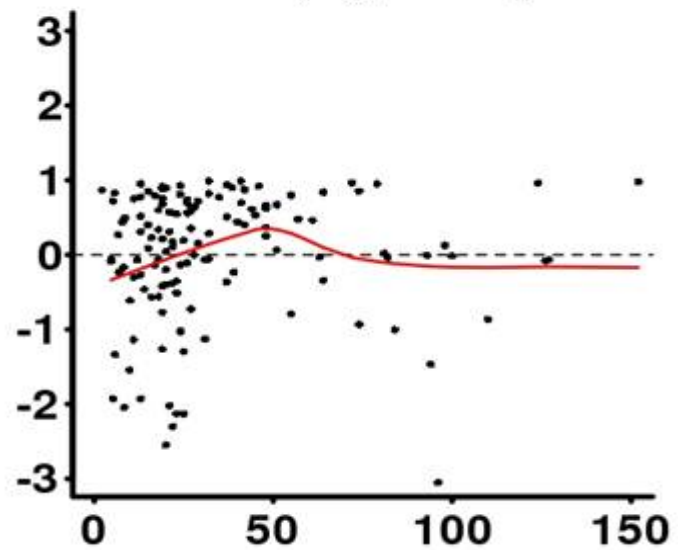
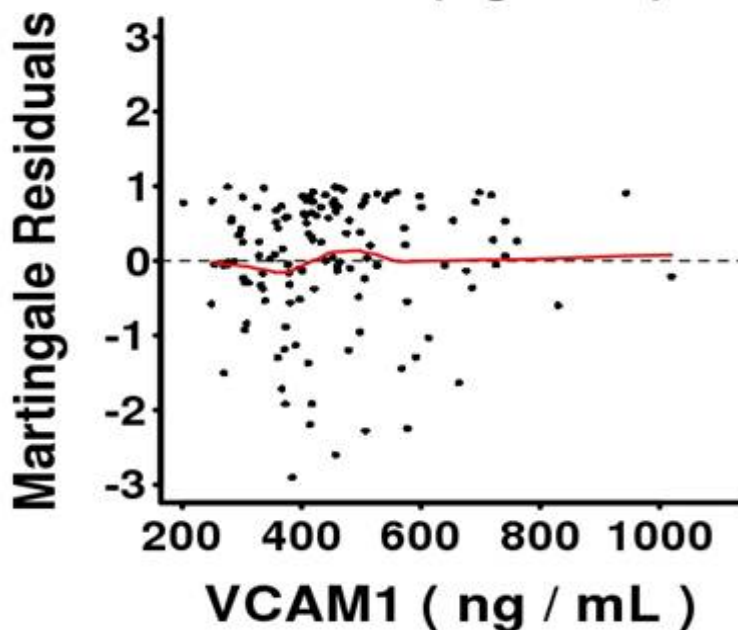
**Free Survival by DLCO
(Lung Transplant is
Censored)**



MMP7 (ELISA, ng / mL)



IL8 (ng / mL)

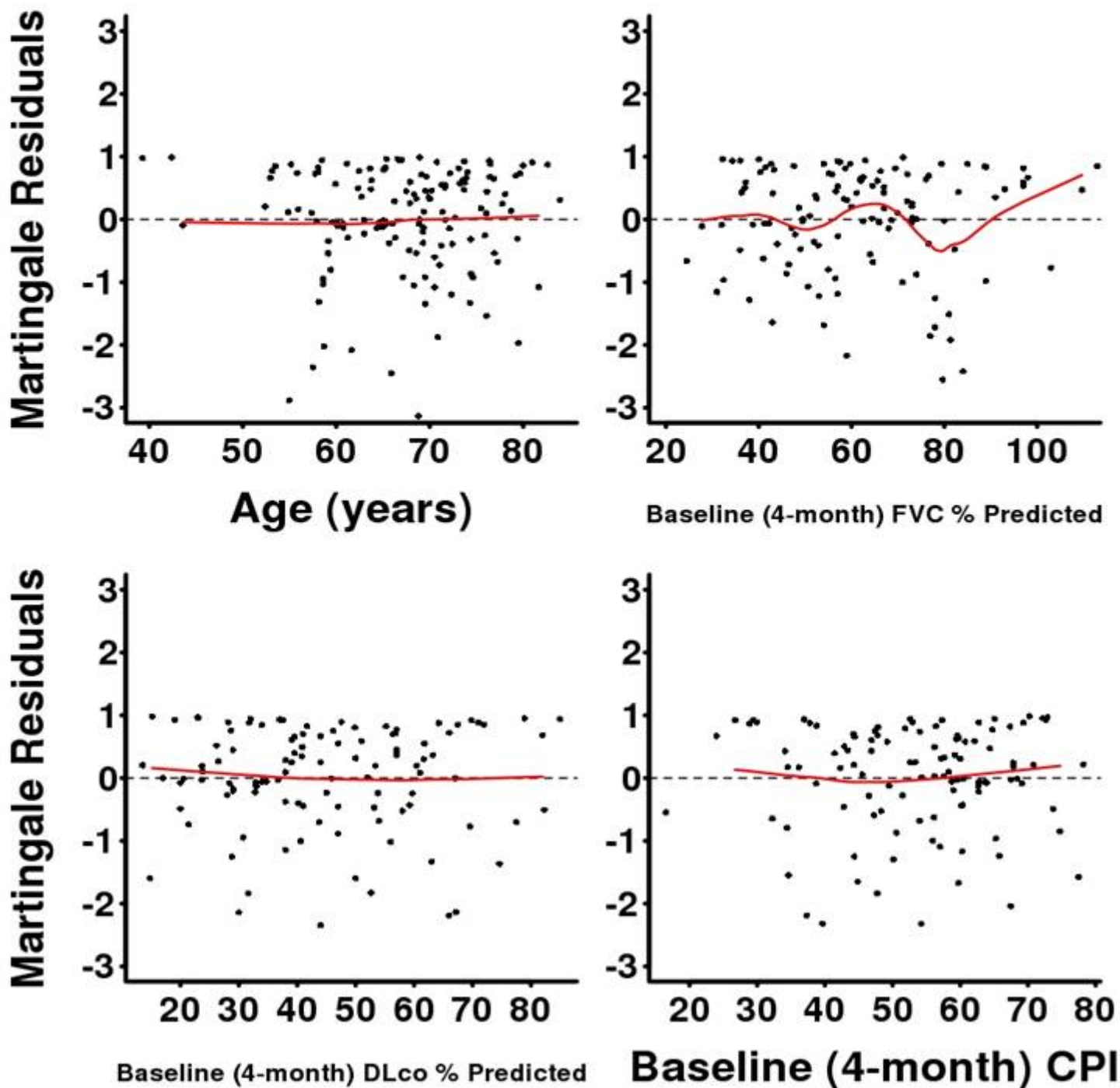


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Progression Free Survival by CPI
(Lung Transplant is Censored)**



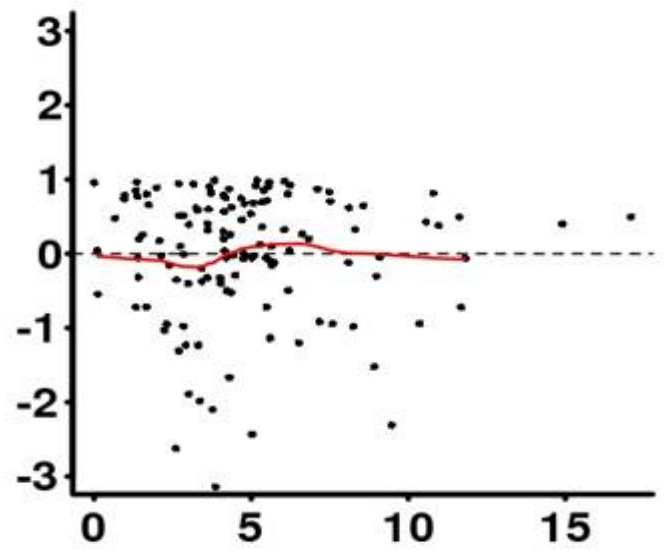
Martingale residuals

—Biomarkers

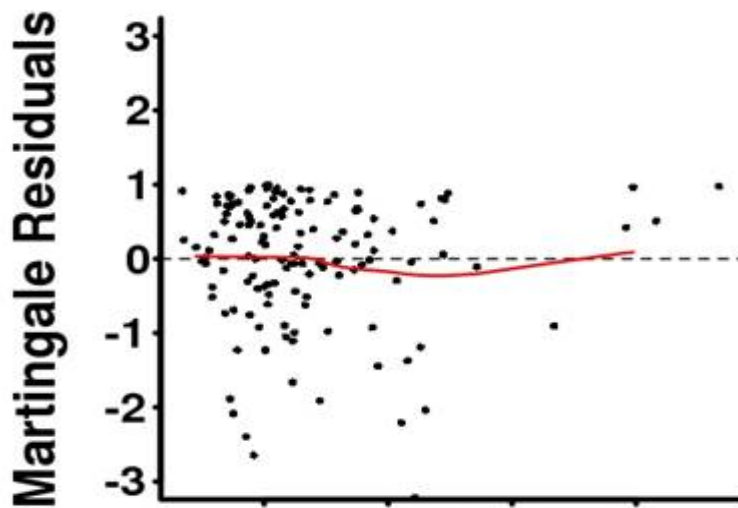
Cohort: **Derivation**

Outcome: **Progression**

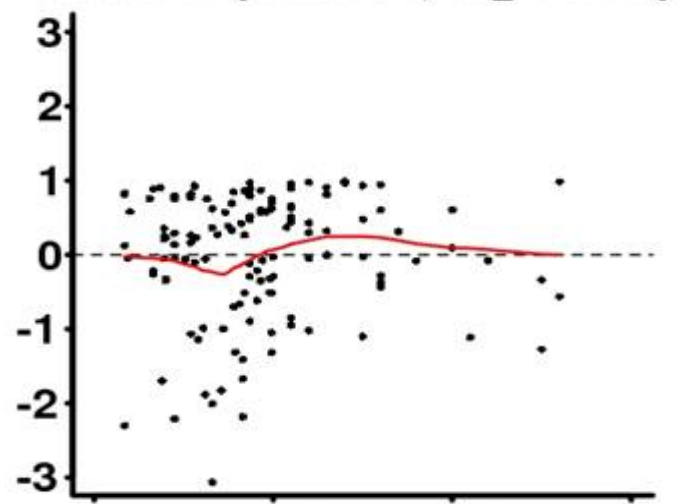
**Free Survival by CPI
(Lung Transplant is
Censored)**



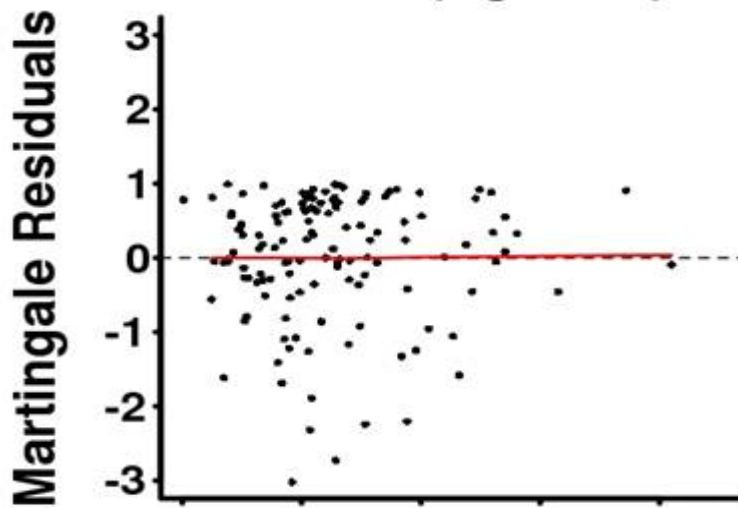
MMP7 (ELISA, ng / mL)



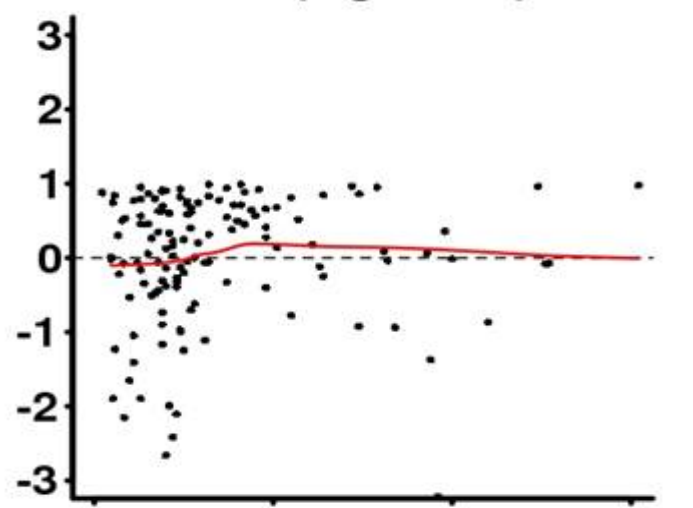
ICAM1 (ng / mL)



IL8 (ng / mL)



VCAM1 (ng / mL)

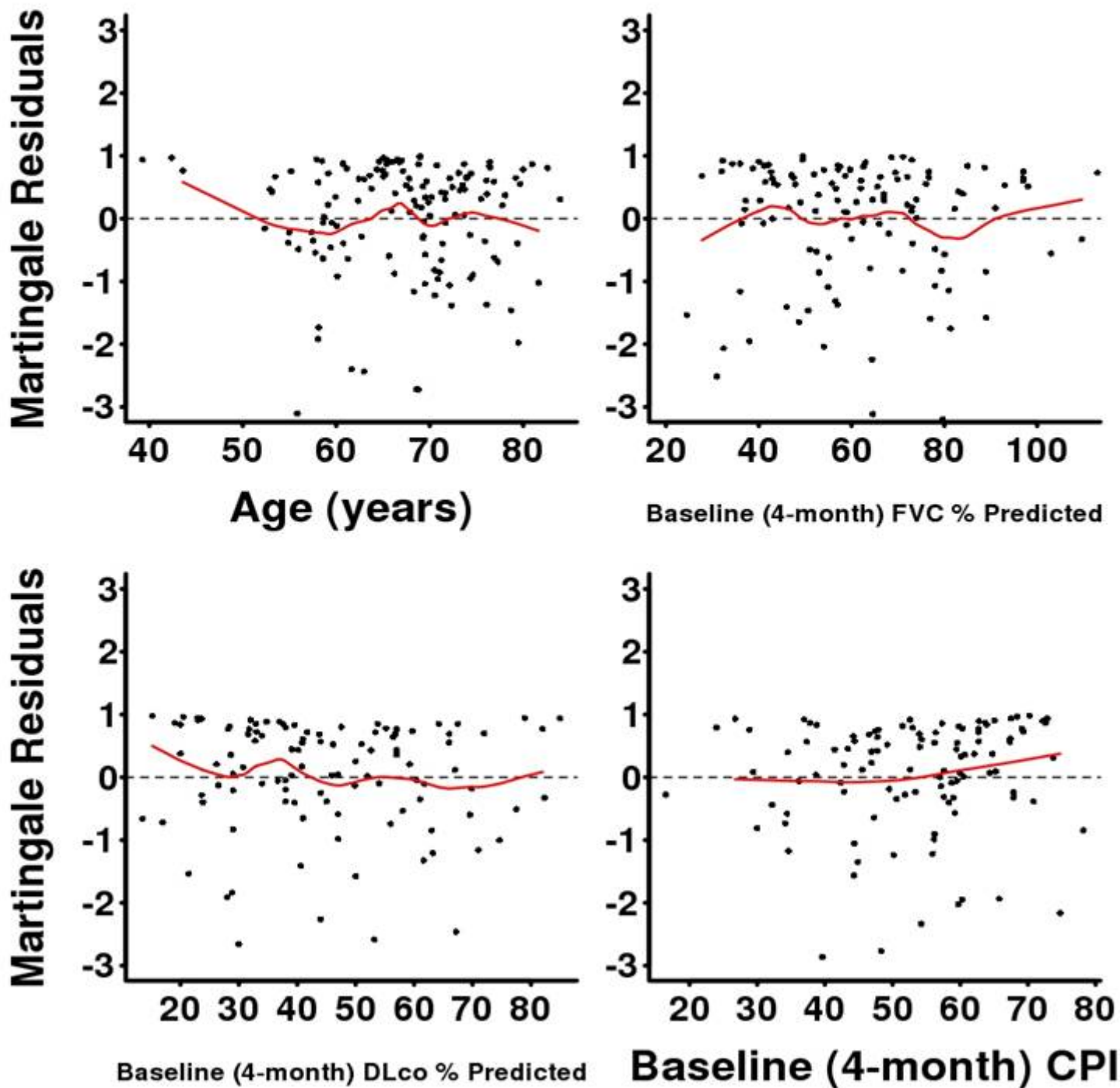


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Progression Free Survival by FVC
(Lung Transplant counts as event)**



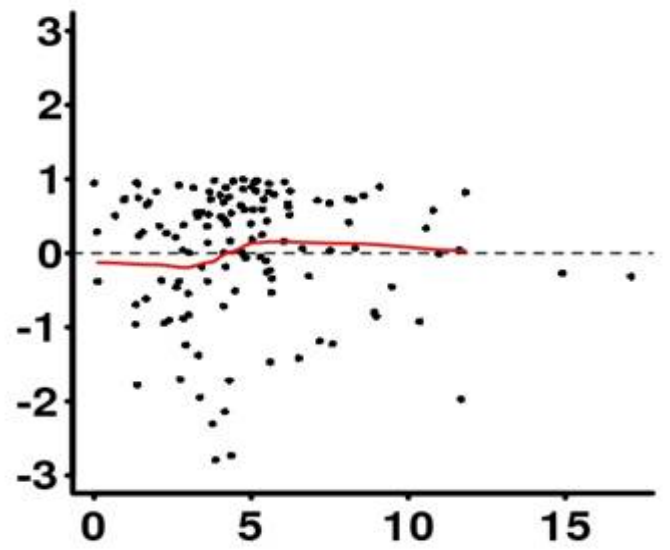
Martingale residuals

—Biomarkers

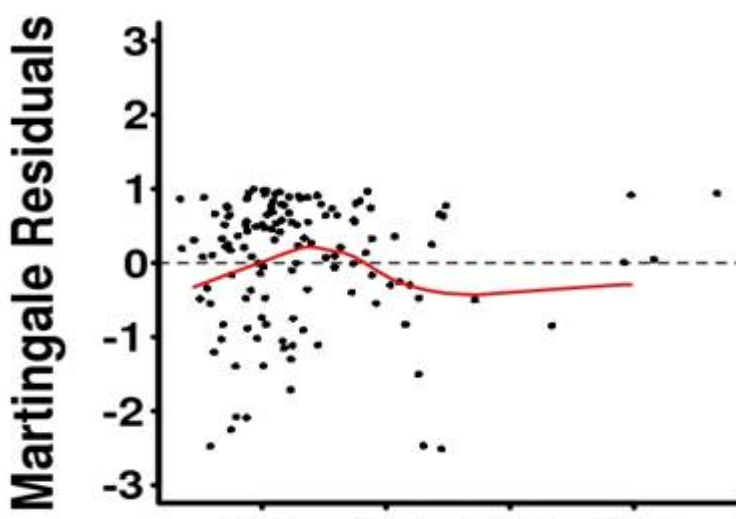
Cohort: **Derivation**

Outcome: **Progression**

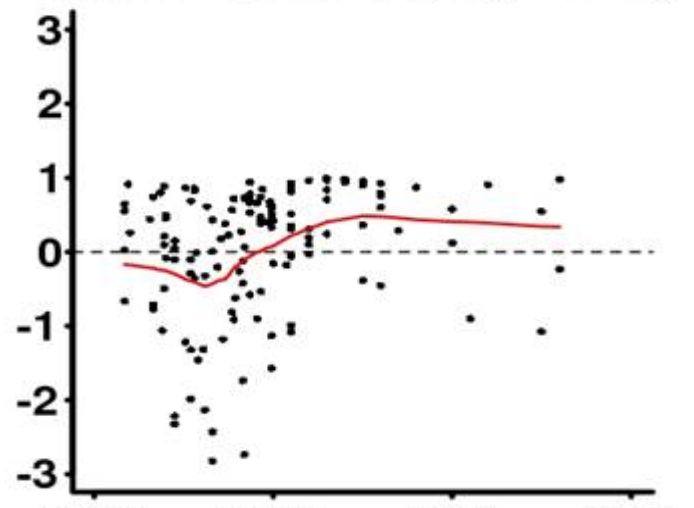
**Free Survival by FVC
(Lung Transplant
counts as event)**



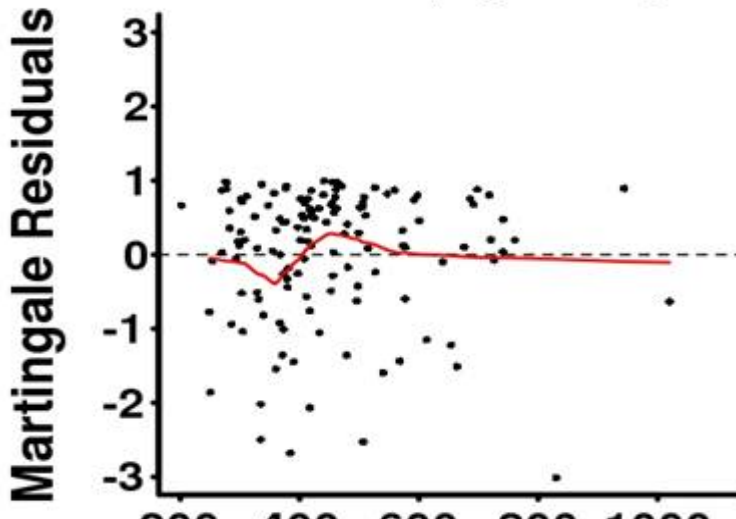
MMP7 (ELISA, ng / mL)



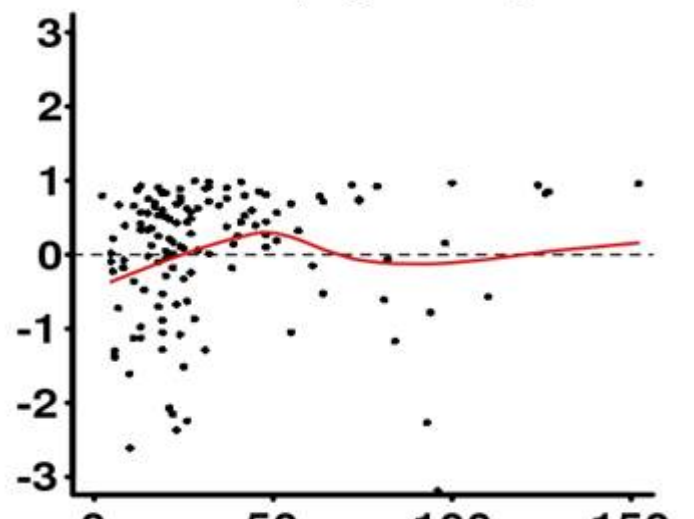
ICAM1 (ng / mL)



IL8 (ng / mL)



VCAM1 (ng / mL)

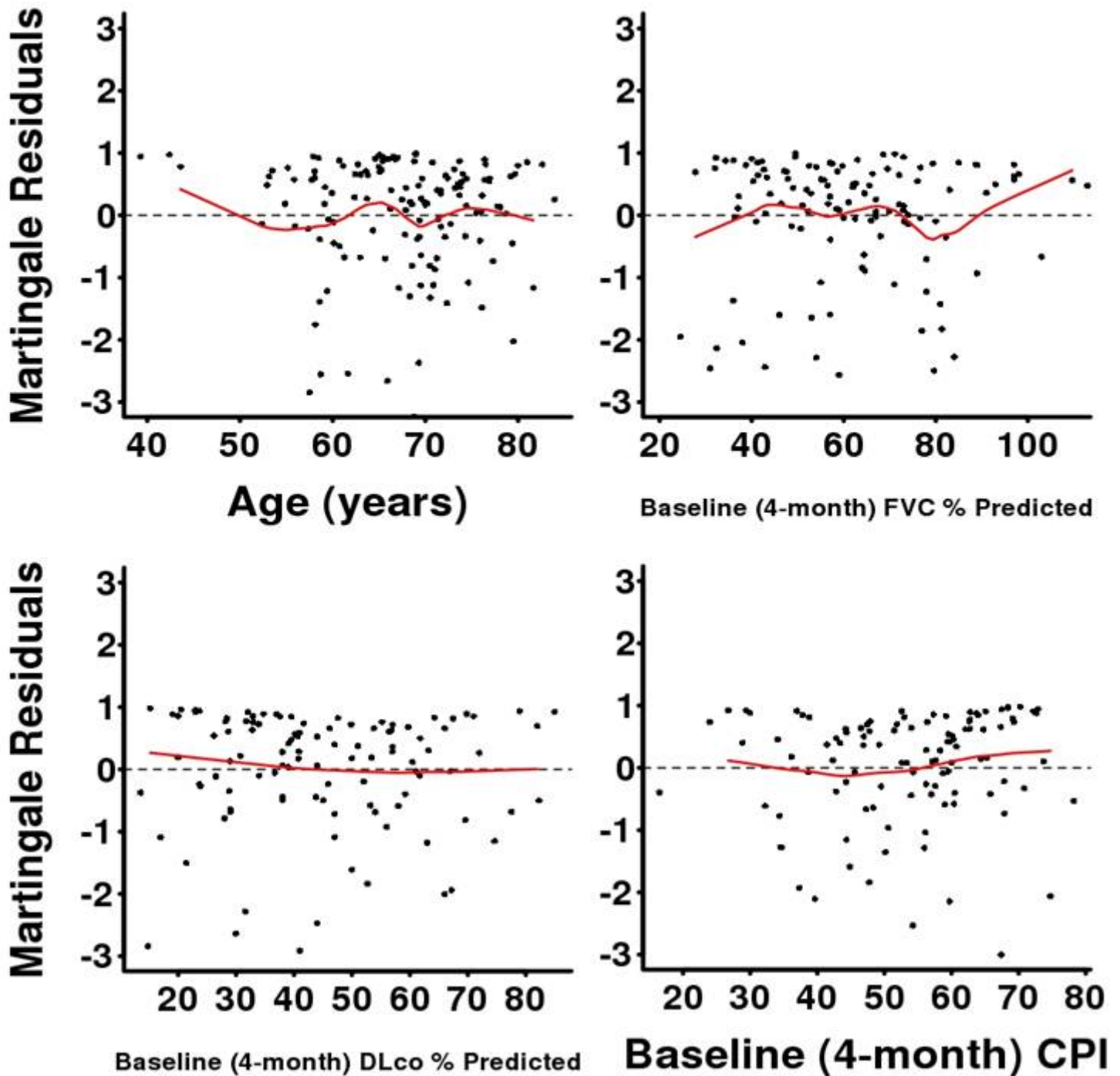


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Progression Free Survival by DLCO
(Lung Transplant counts as event)**



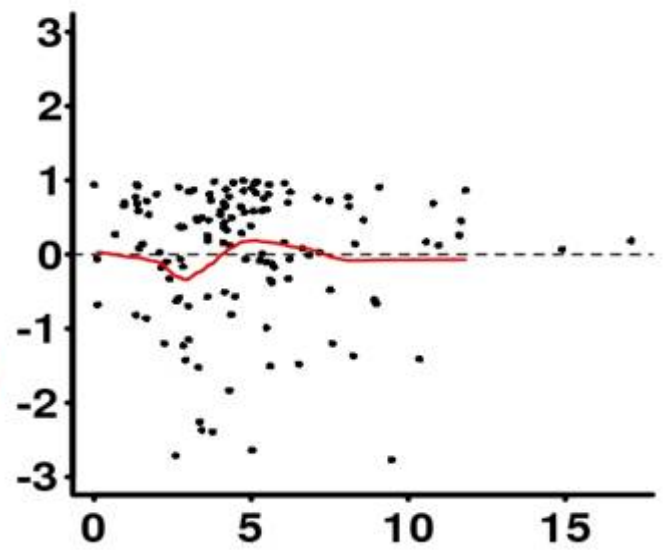
Martingale residuals

—Biomarkers

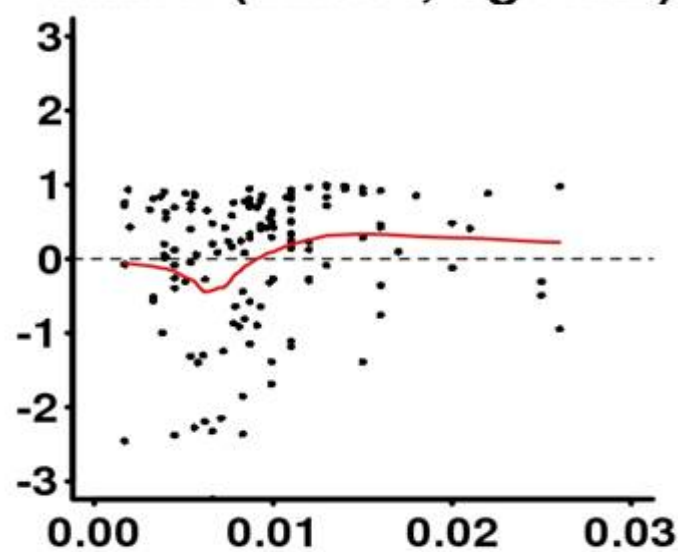
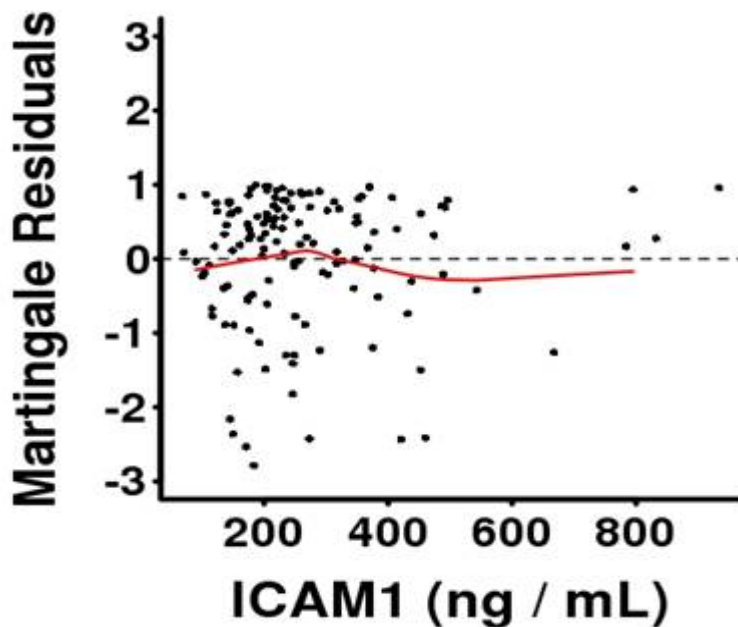
Cohort: **Derivation**

Outcome: **Progression**

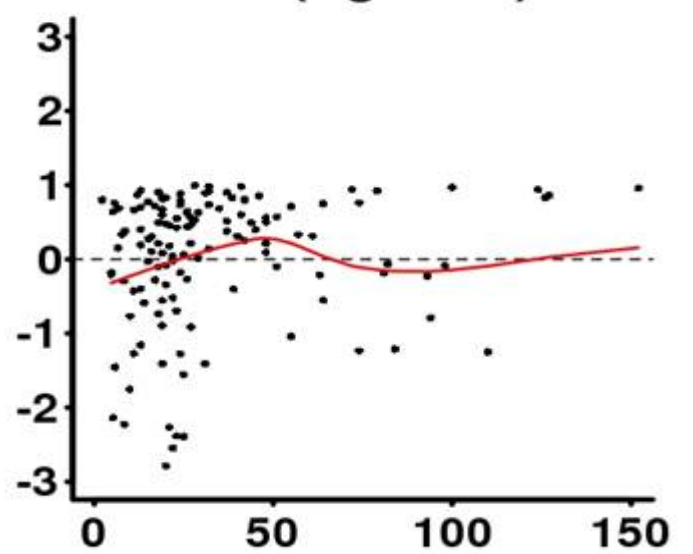
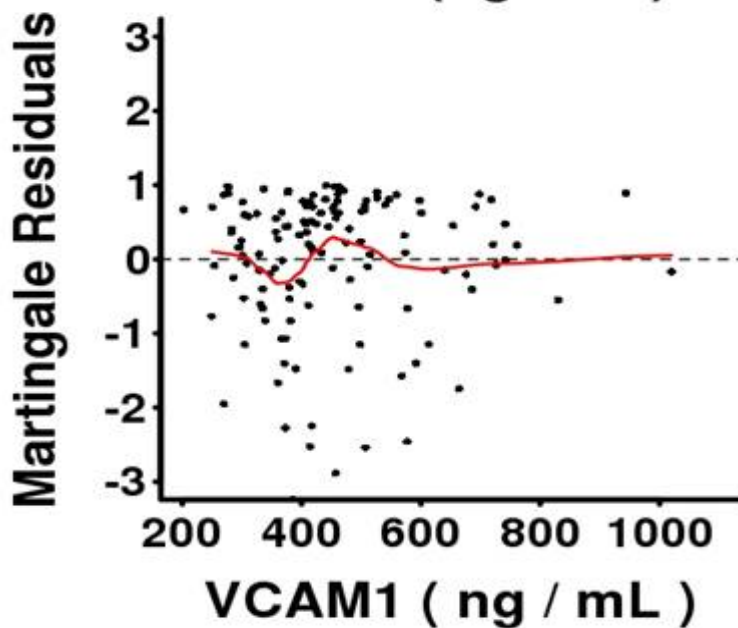
**Free Survival by DLCO
(Lung Transplant
counts as event)**



MMP7 (ELISA, ng / mL)



IL8 (ng / mL)

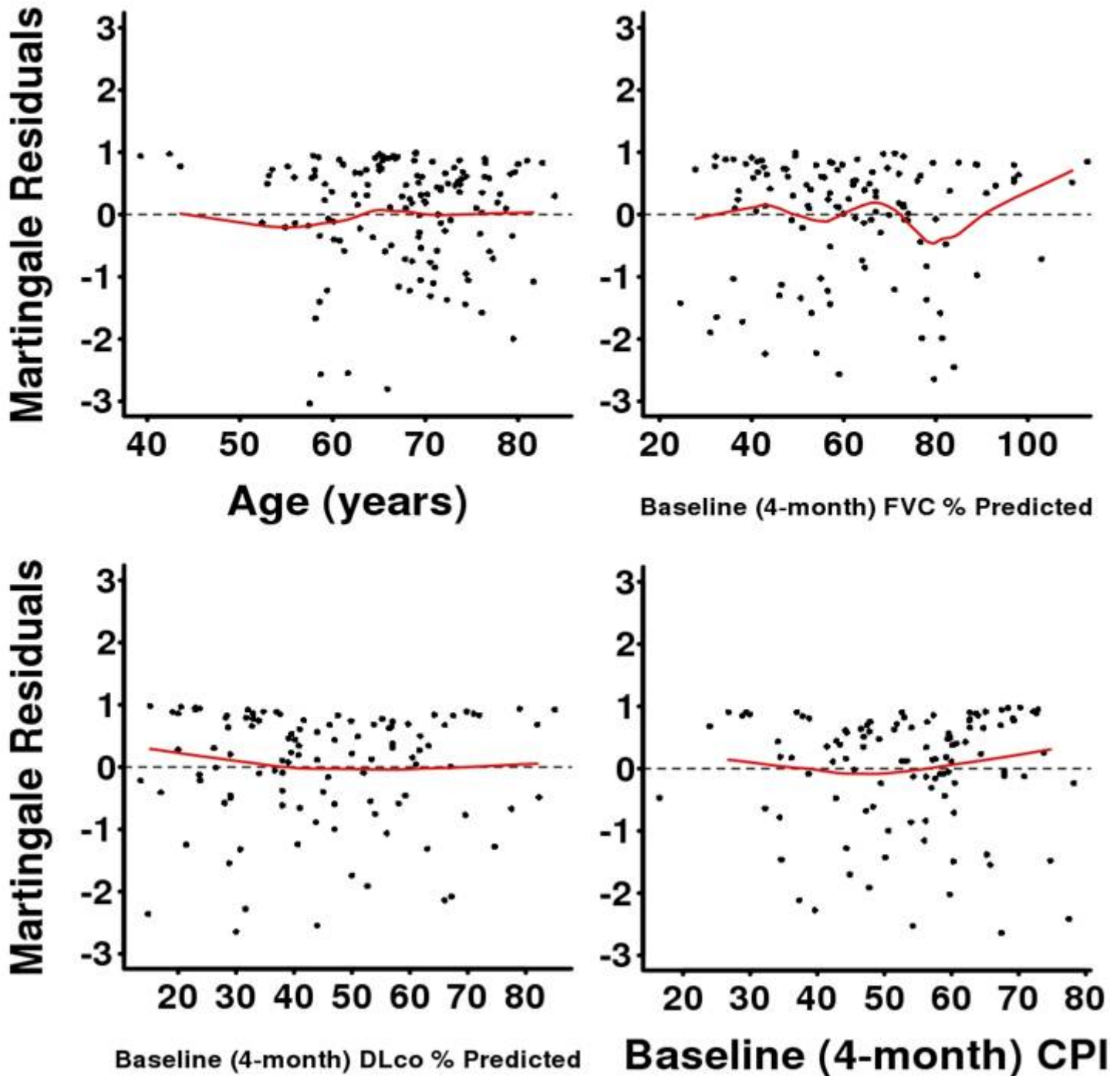


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Derivation**

Outcome: **Progression Free Survival by CPI
(Lung Transplant counts as event)**



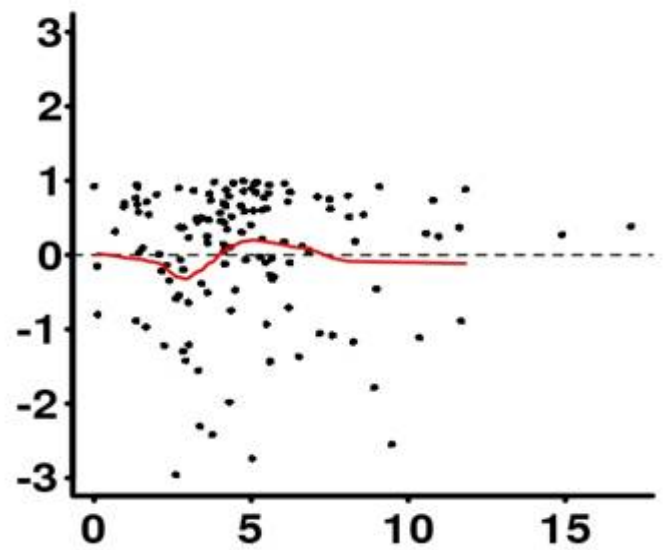
Martingale residuals

—Biomarkers

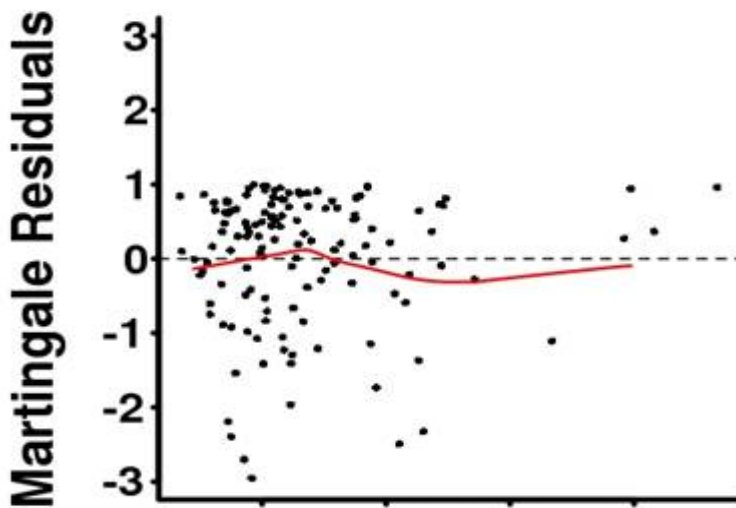
Cohort: **Derivation**

Outcome: **Progression**

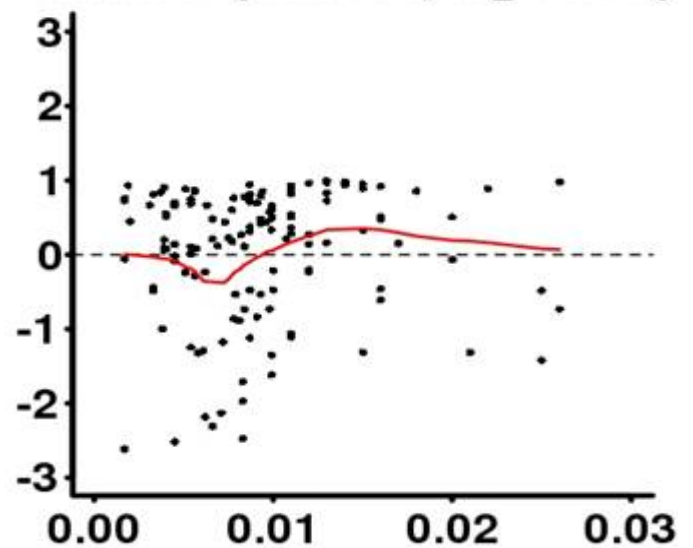
**Free Survival by CPI
(Lung Transplant
counts as event)**



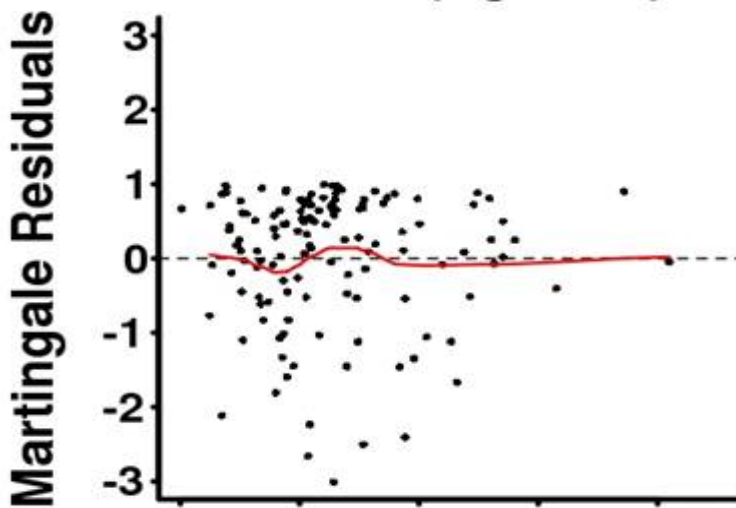
MMP7 (ELISA, ng / mL)



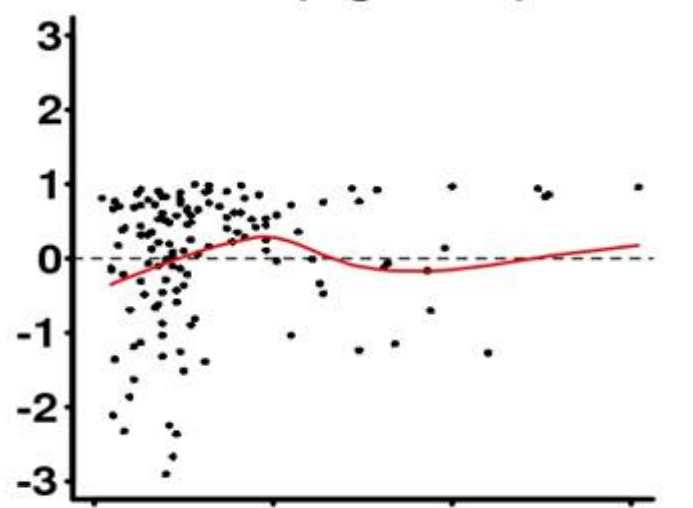
ICAM1 (ng / mL)



IL8 (ng / mL)



VCAM1 (ng / mL)

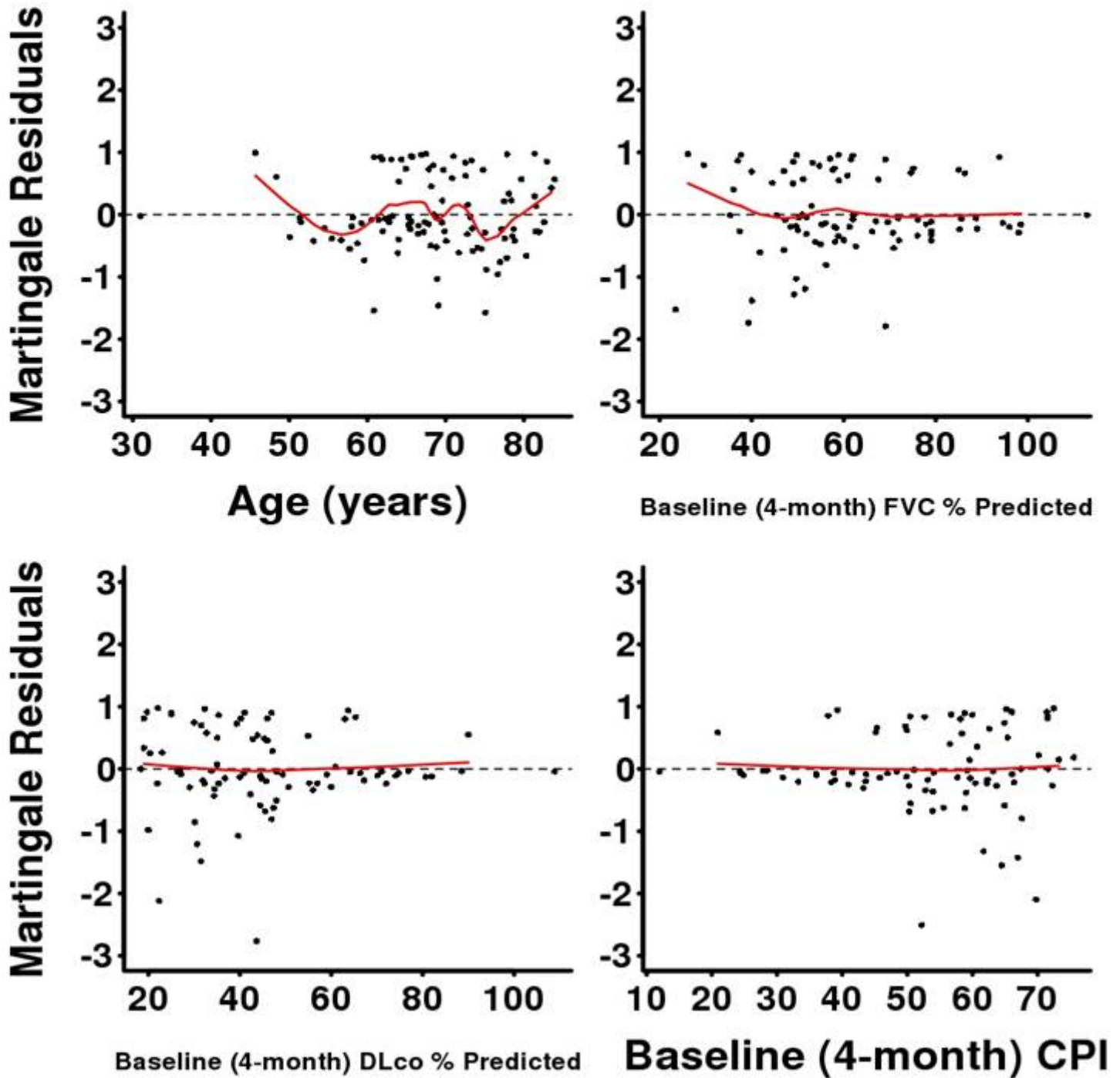


S100A12 (ng / mL)

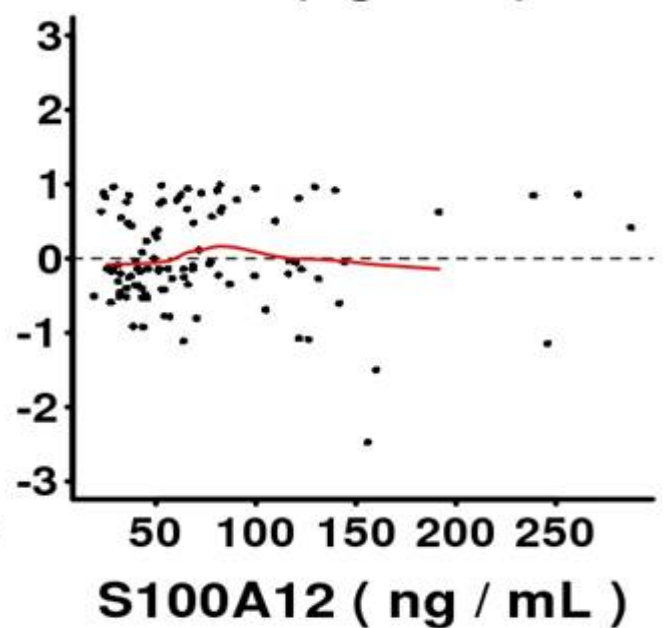
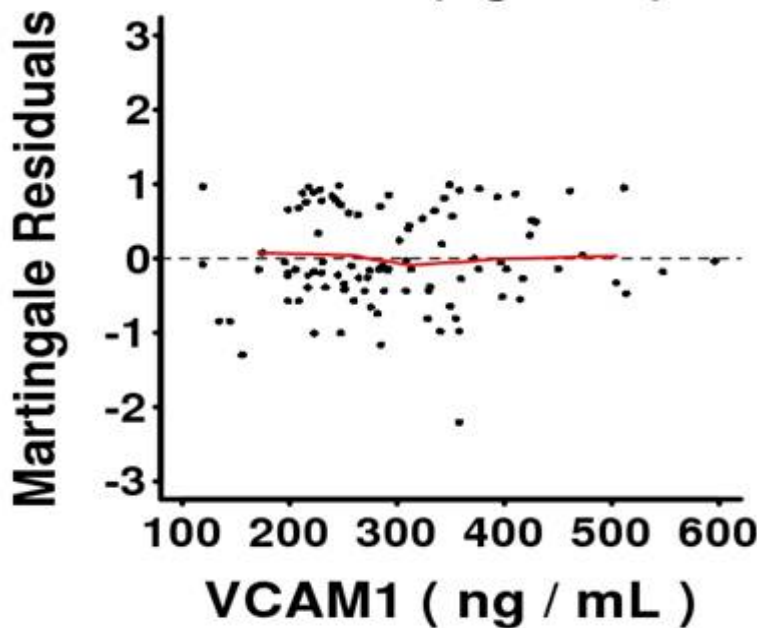
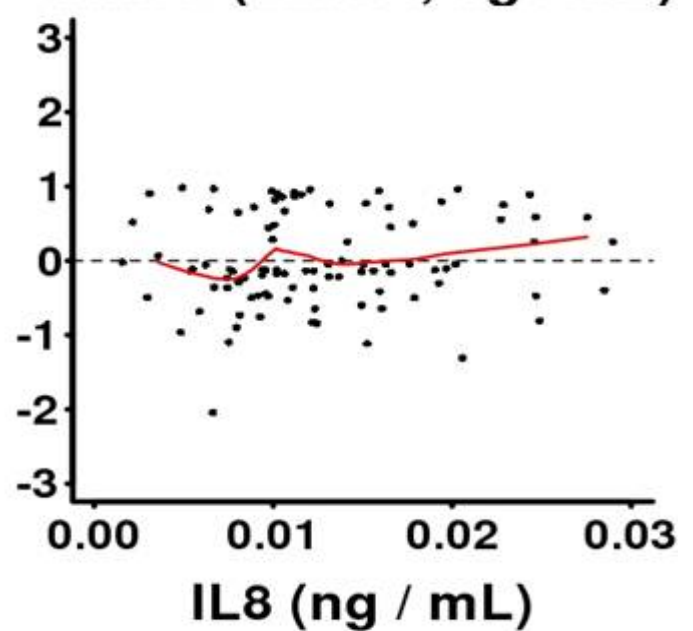
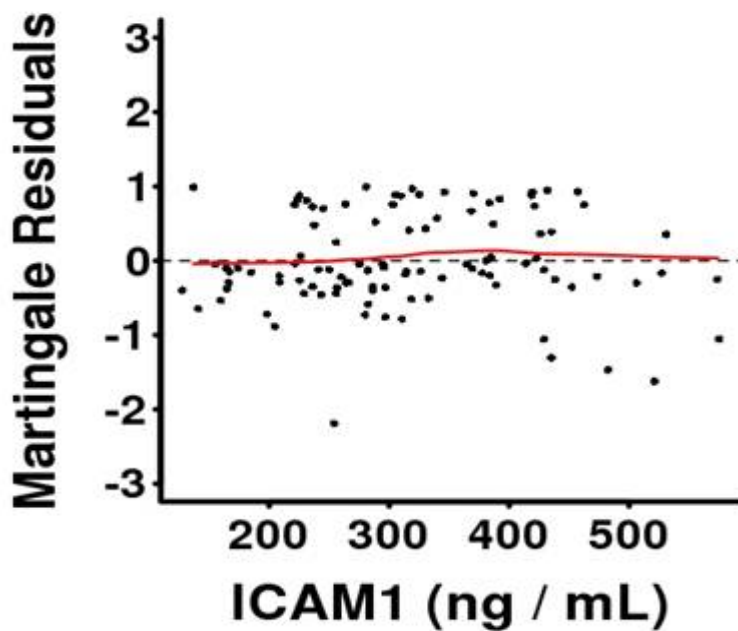
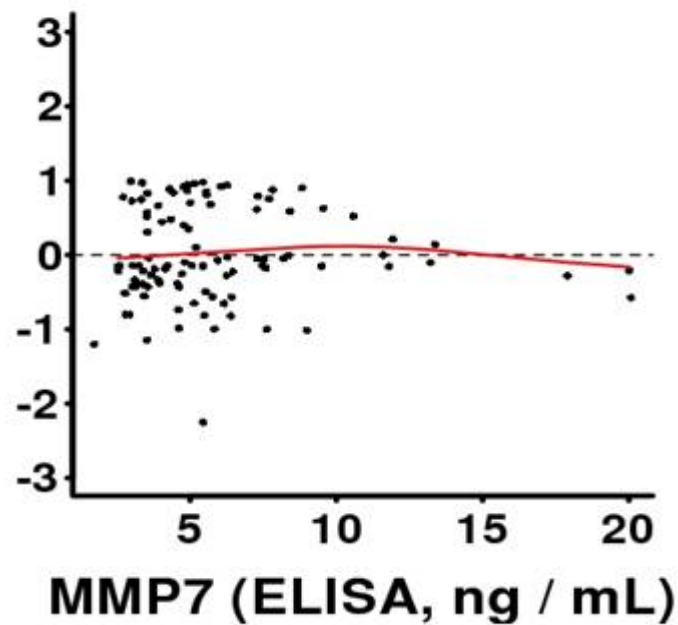
Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Mortality**



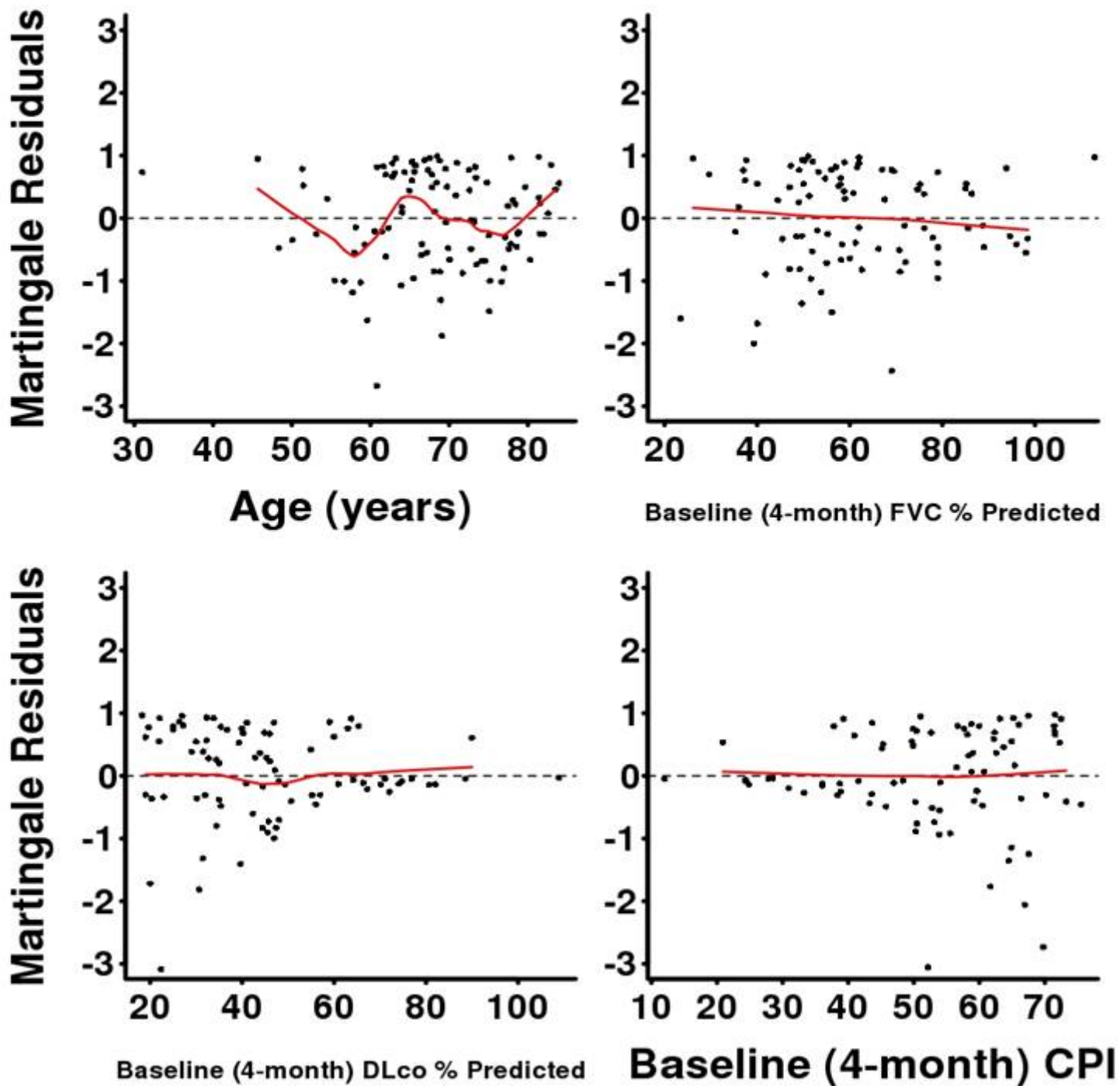
Martingale residuals
—Biomarkers
Cohort: **Validation**
Outcome: **Mortality**



Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Transplant Free Survival**

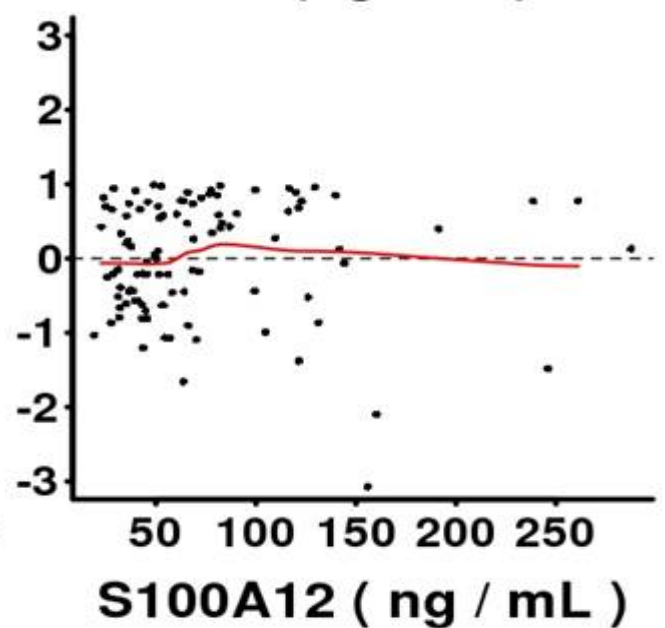
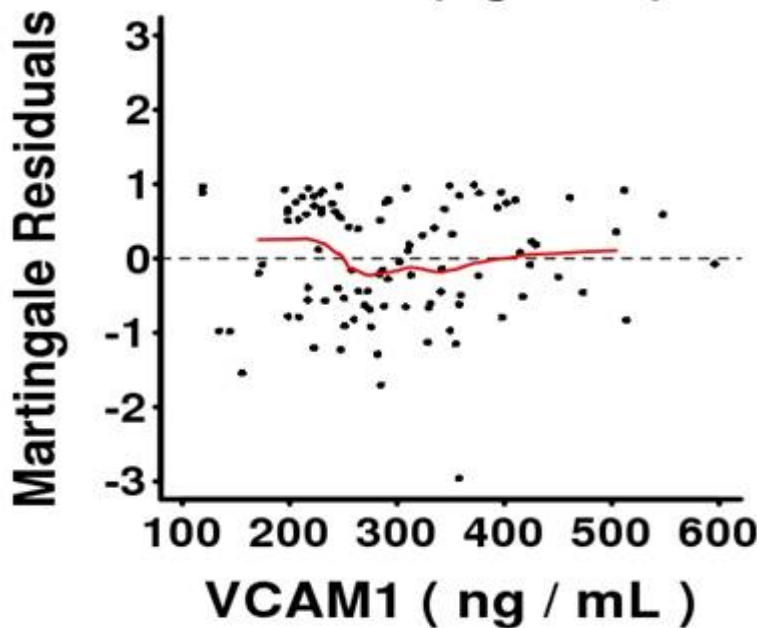
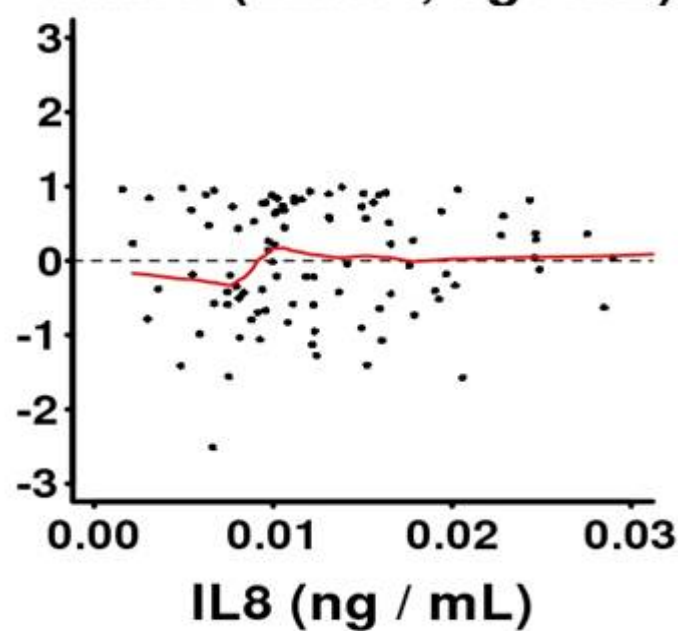
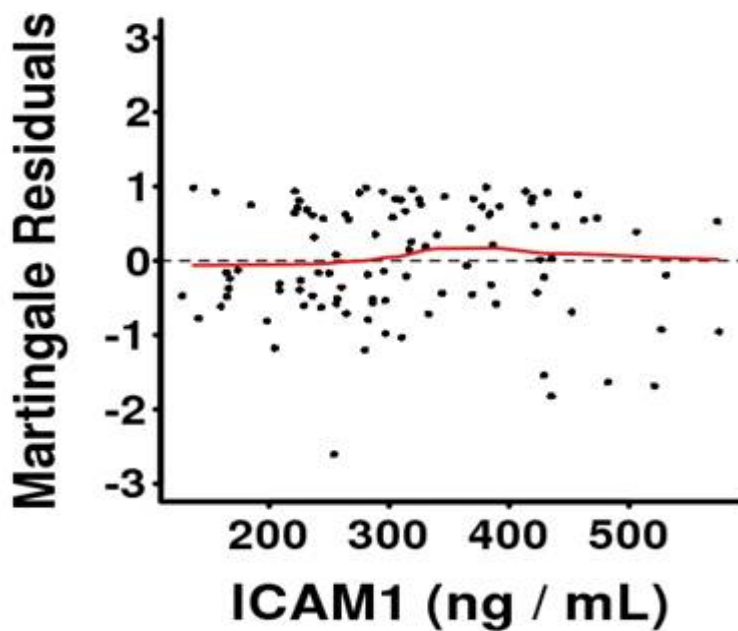
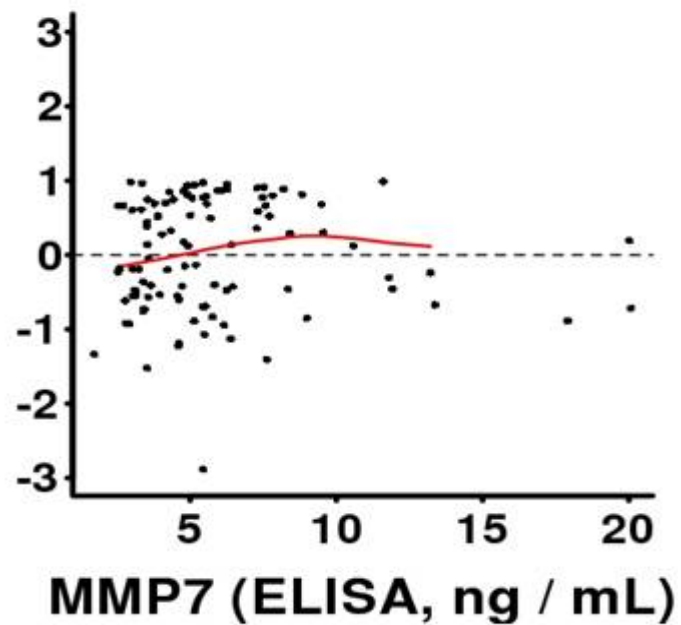


Martingale residuals

—Biomarkers

Cohort: **Validation**

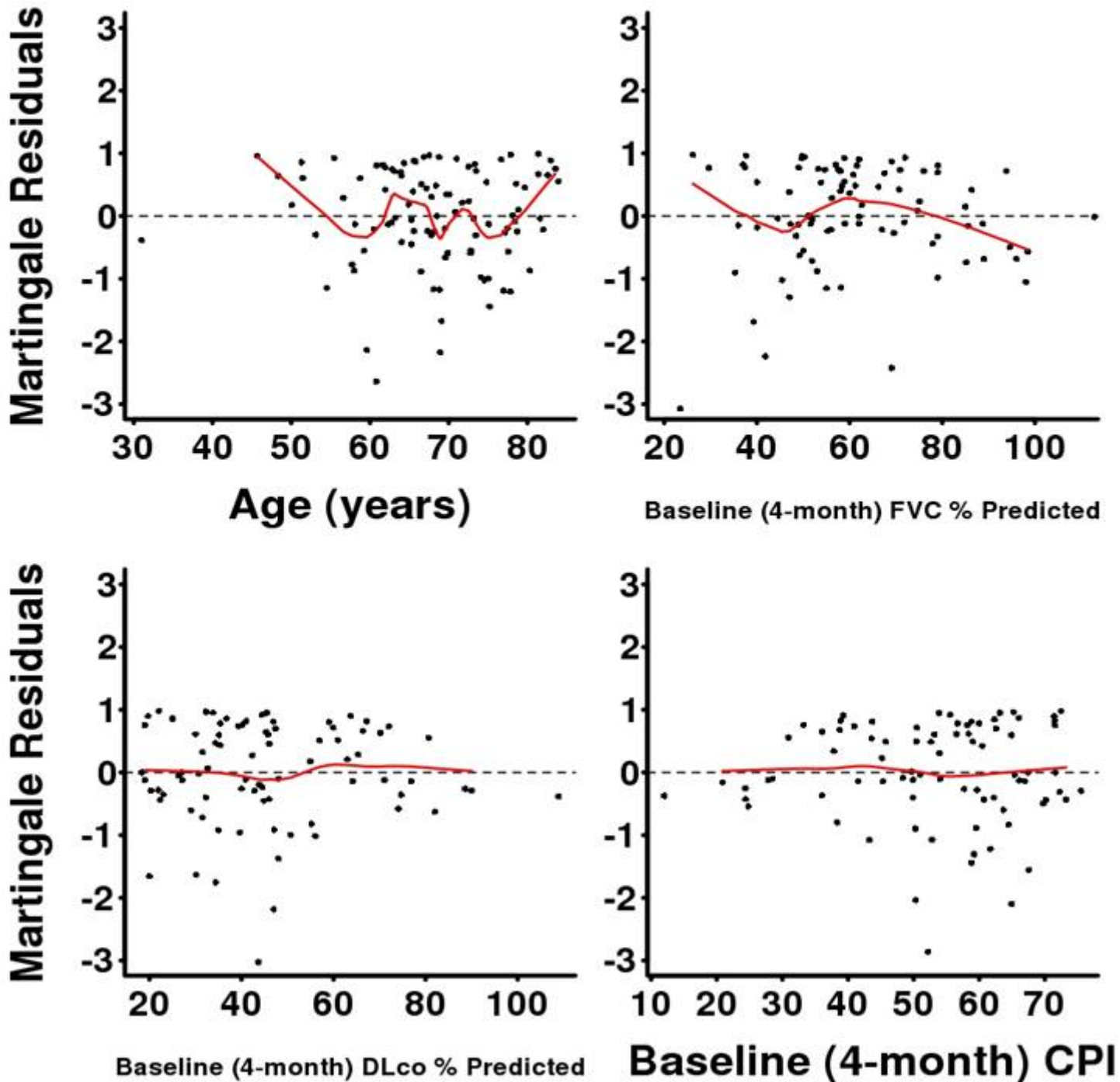
Outcome: **Transplant
Free Survival**



Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Progression Free Survival by FVC
(Lung Transplant is Censored)**



Martingale residuals

—Biomarkers

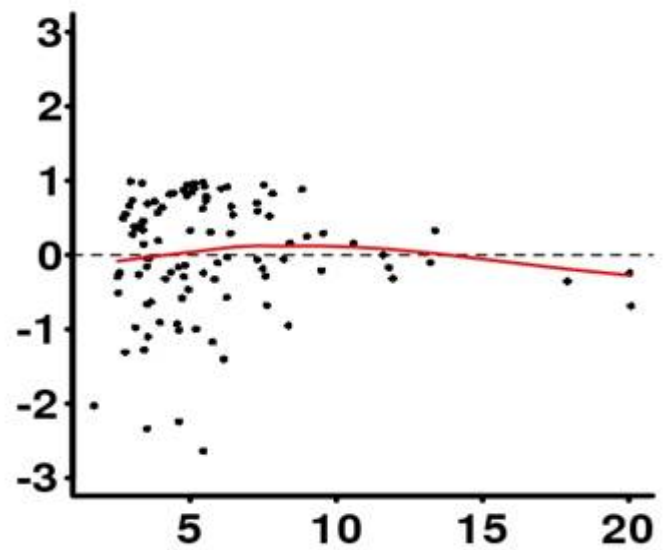
Cohort: **Validation**

Outcome: **Progression**

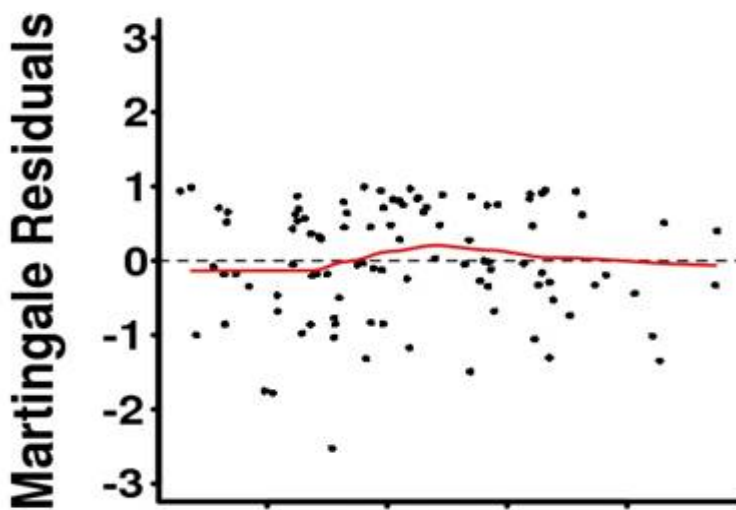
Free Survival by FVC

(Lung Transplant is

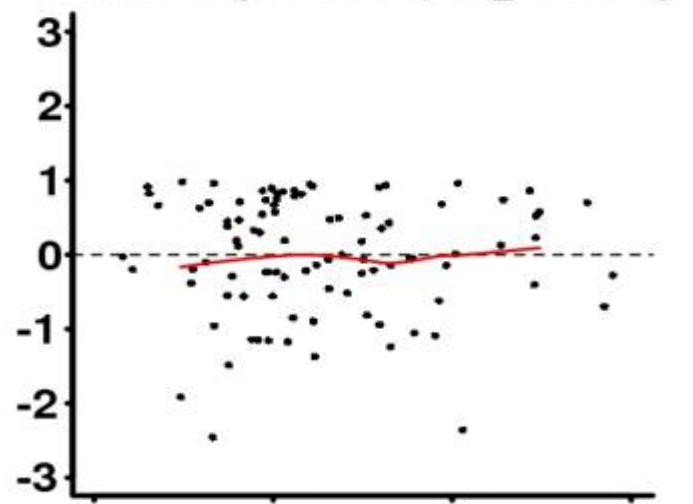
Censored)



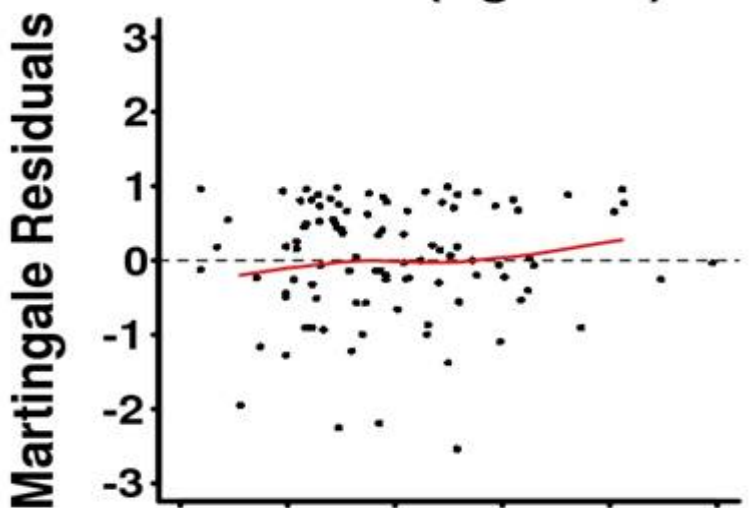
MMP7 (ELISA, ng / mL)



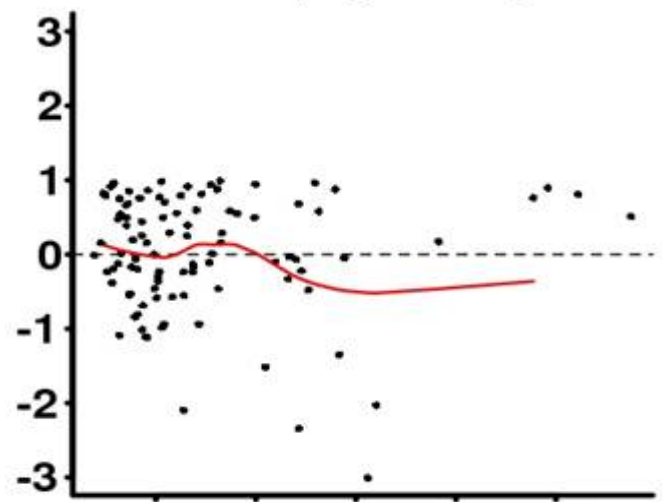
ICAM1 (ng / mL)



IL8 (ng / mL)



VCAM1 (ng / mL)

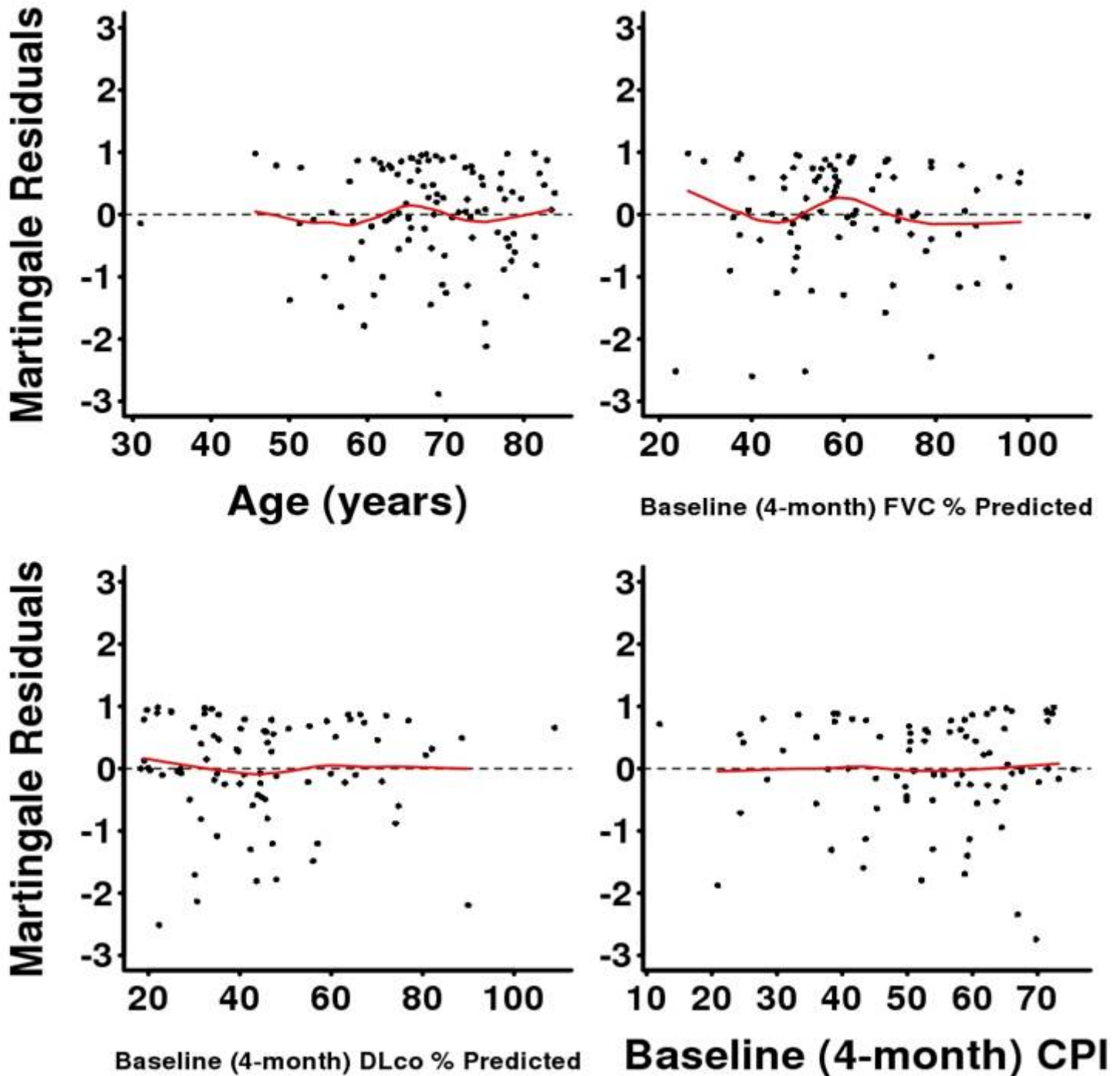


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Progression Free Survival by DLCO
(Lung Transplant is Censored)**



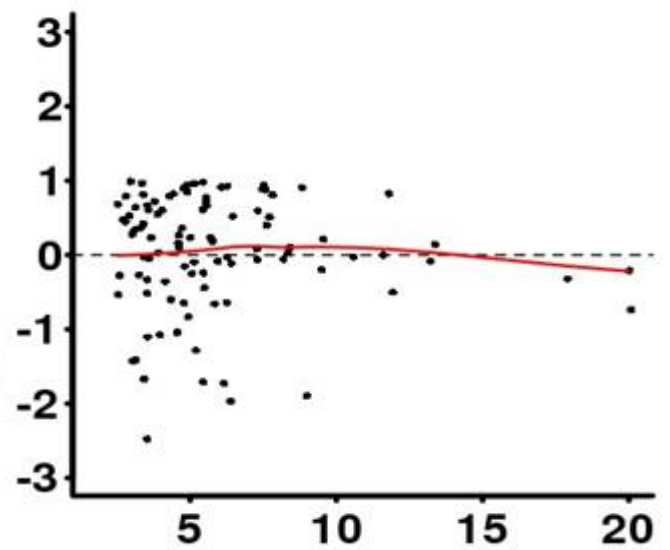
Martingale residuals

—Biomarkers

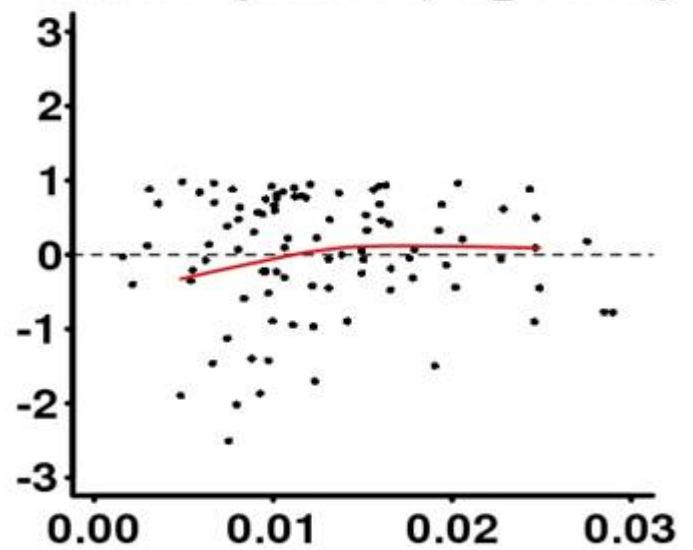
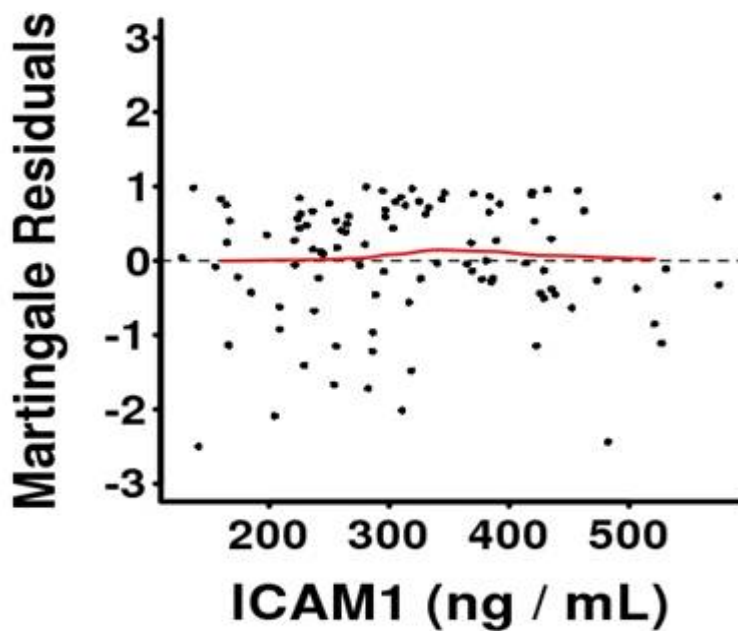
Cohort: **Validation**

Outcome: **Progression**

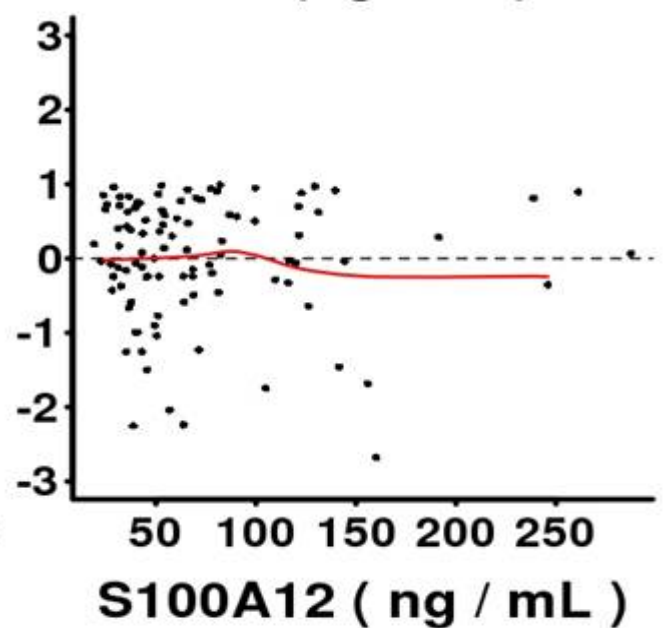
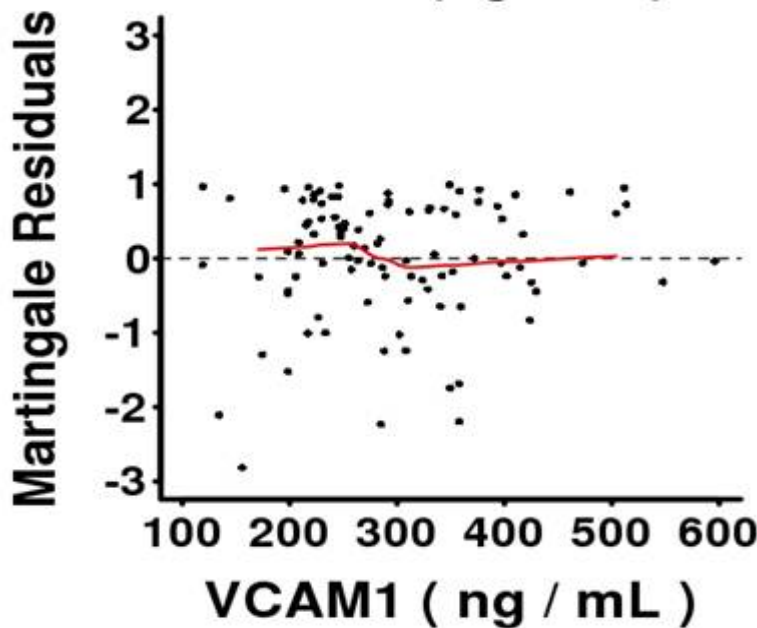
**Free Survival by DLCO
(Lung Transplant is
Censored)**



MMP7 (ELISA, ng / mL)



IL8 (ng / mL)

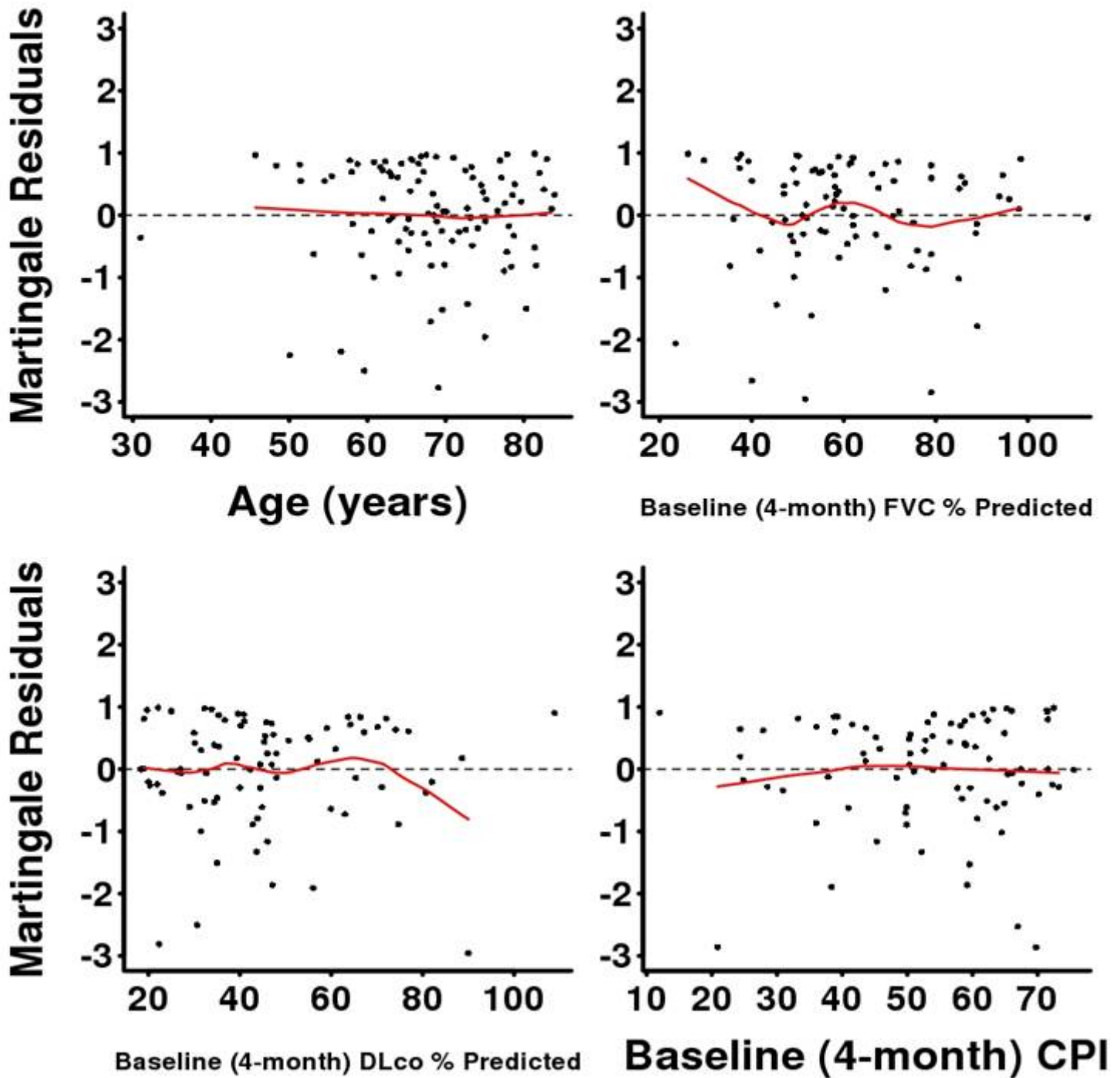


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Progression Free Survival by CPI
(Lung Transplant is Censored)**



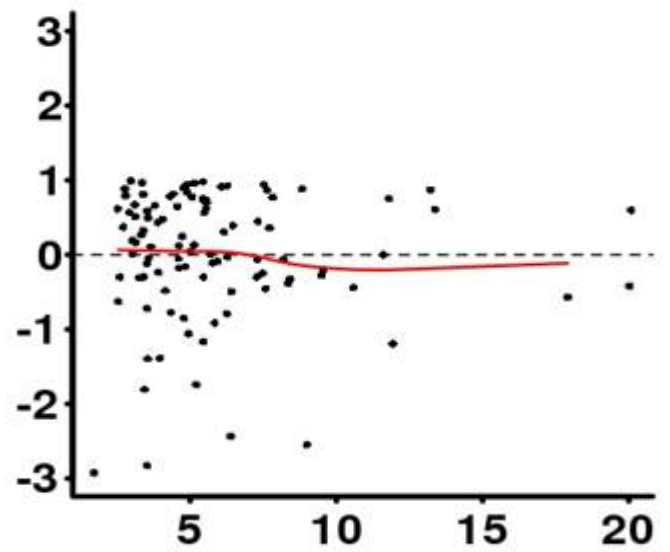
Martingale residuals

—Biomarkers

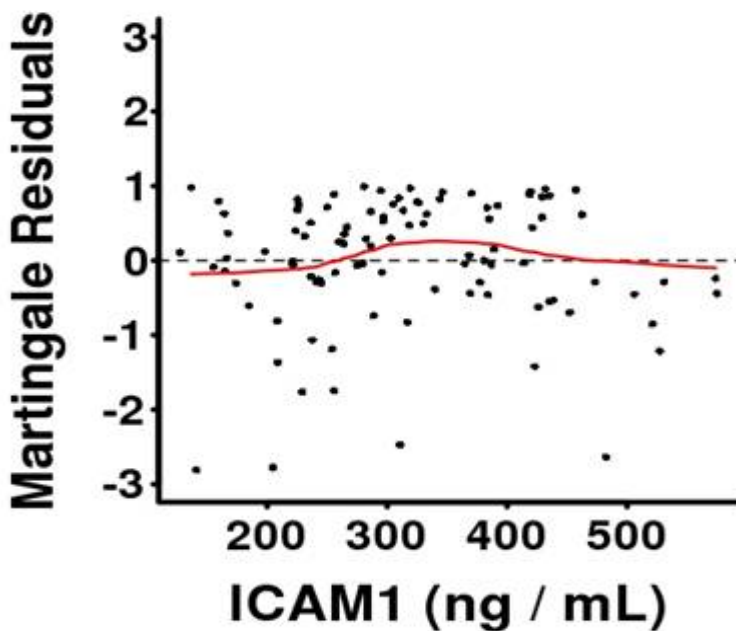
Cohort: **Validation**

Outcome: **Progression**

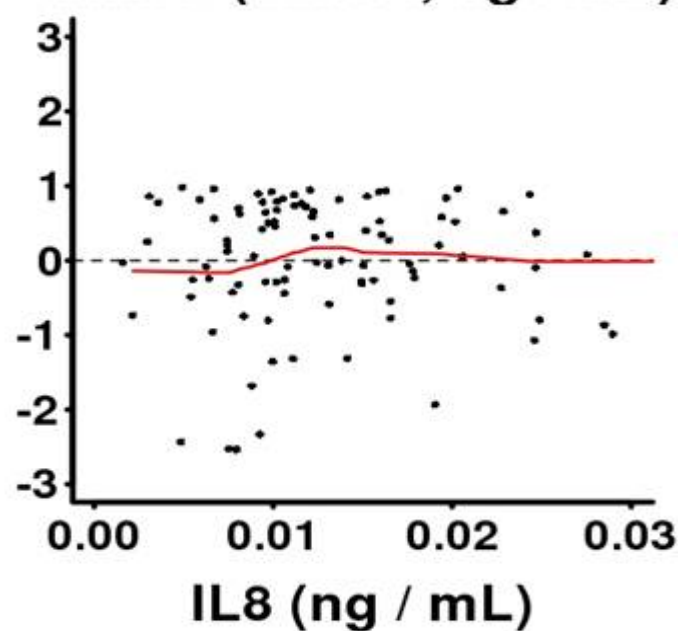
**Free Survival by CPI
(Lung Transplant is
Censored)**



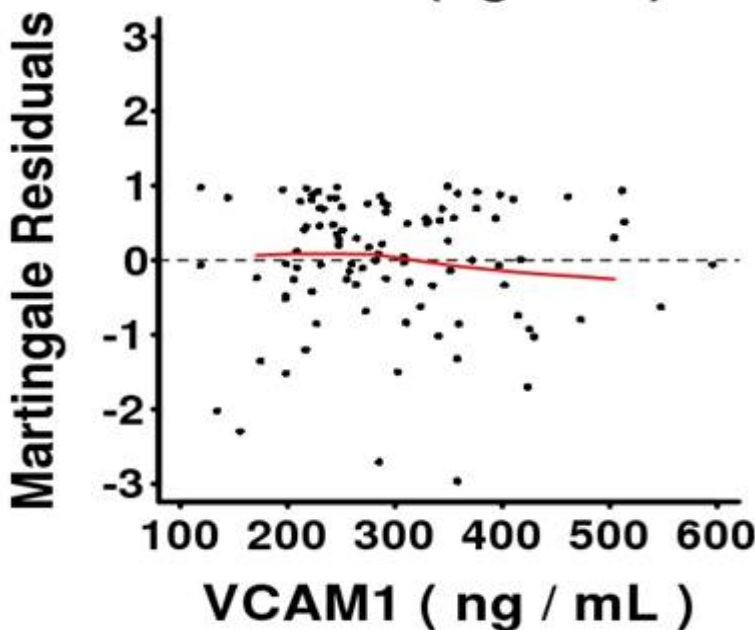
MMP7 (ELISA, ng / mL)



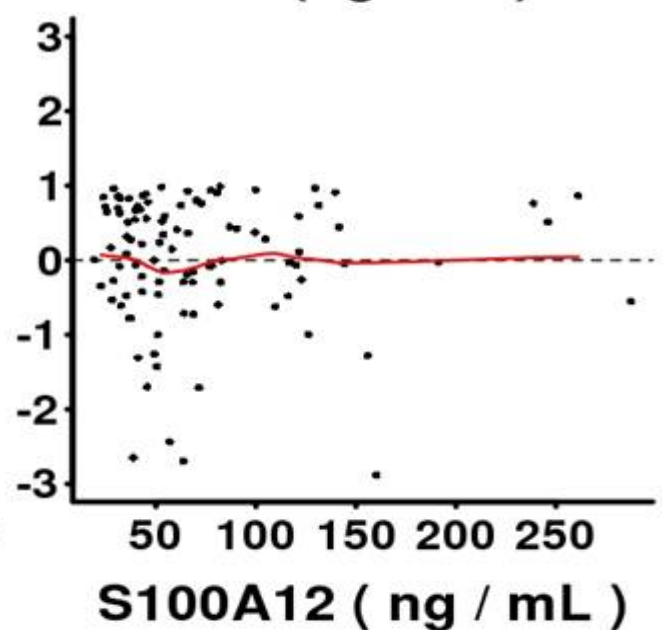
ICAM1 (ng / mL)



IL8 (ng / mL)



VCAM1 (ng / mL)

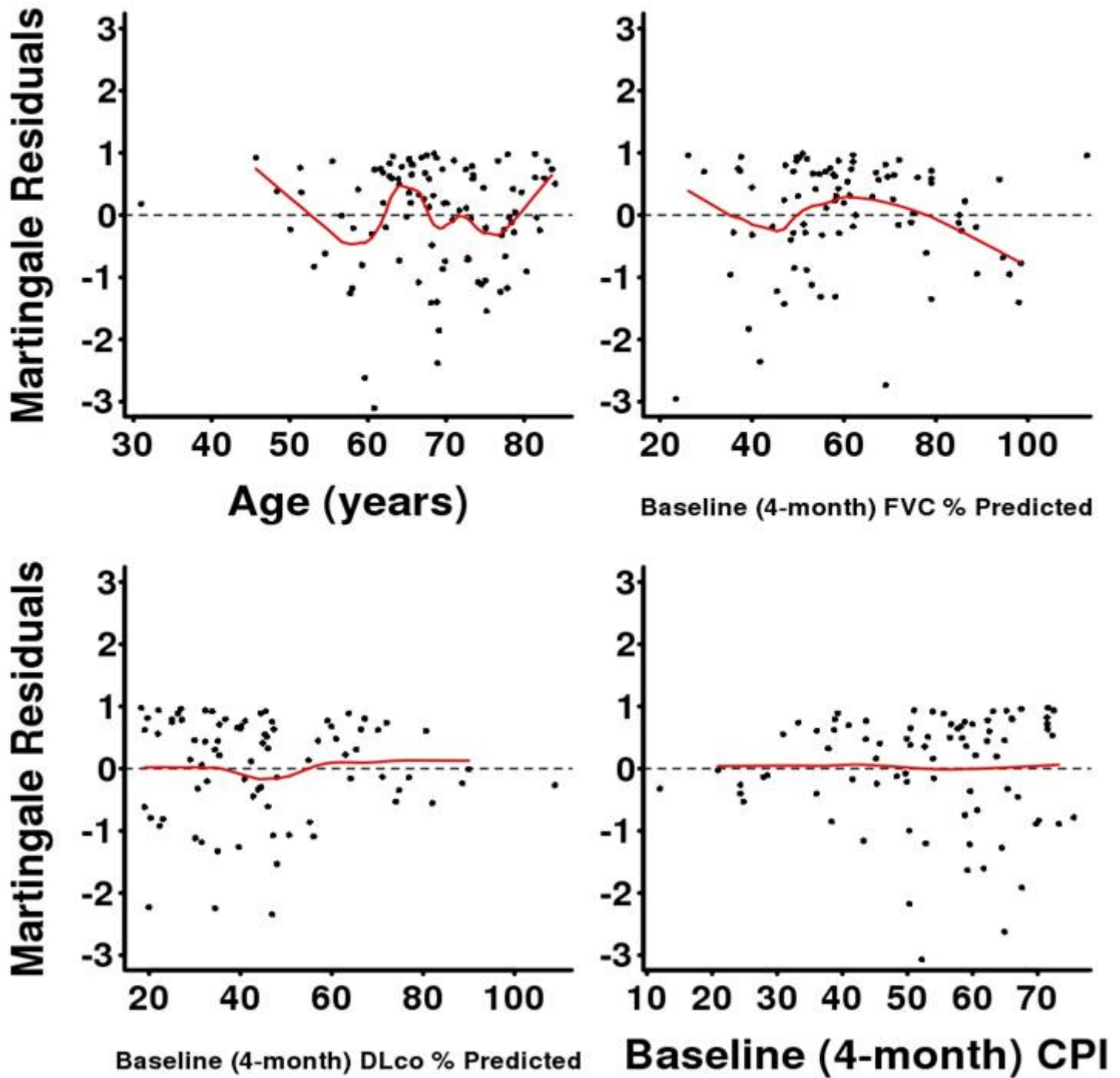


S100A12 (ng / mL)

Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Progression Free Survival by FVC
(Lung Transplant counts as event)**



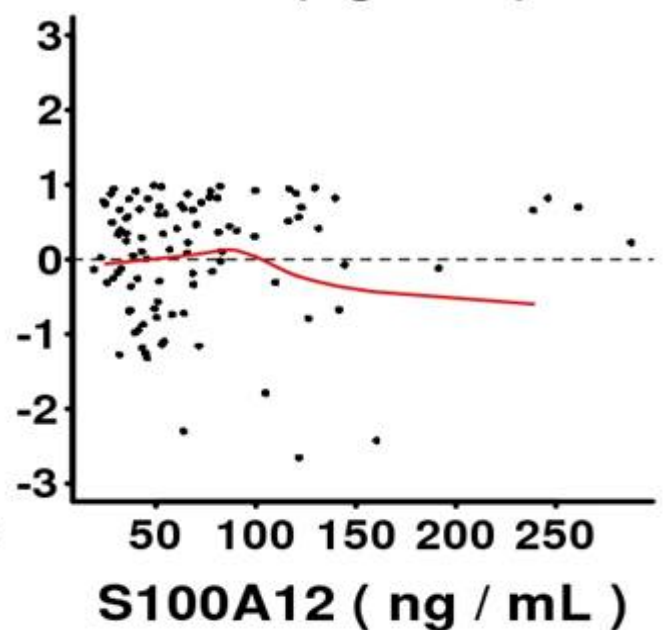
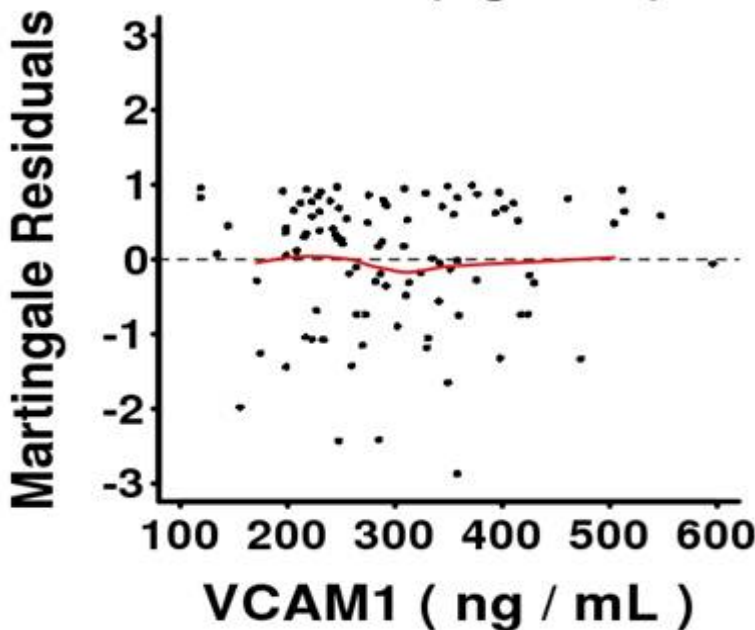
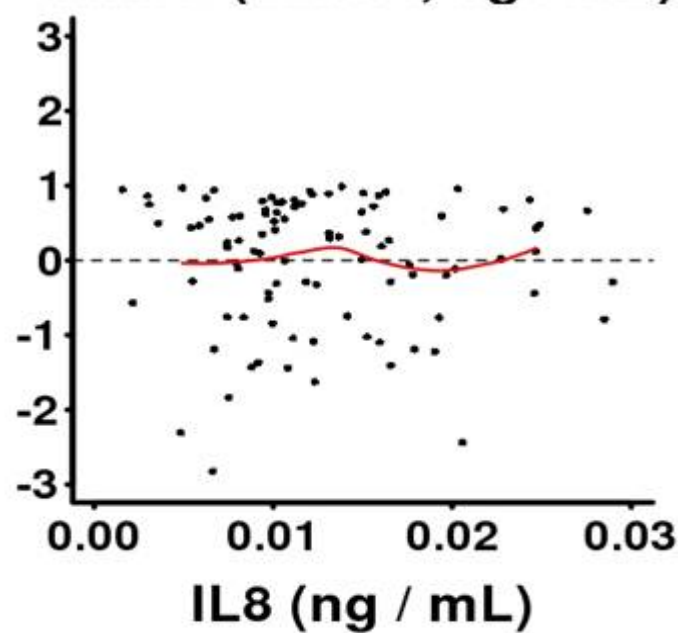
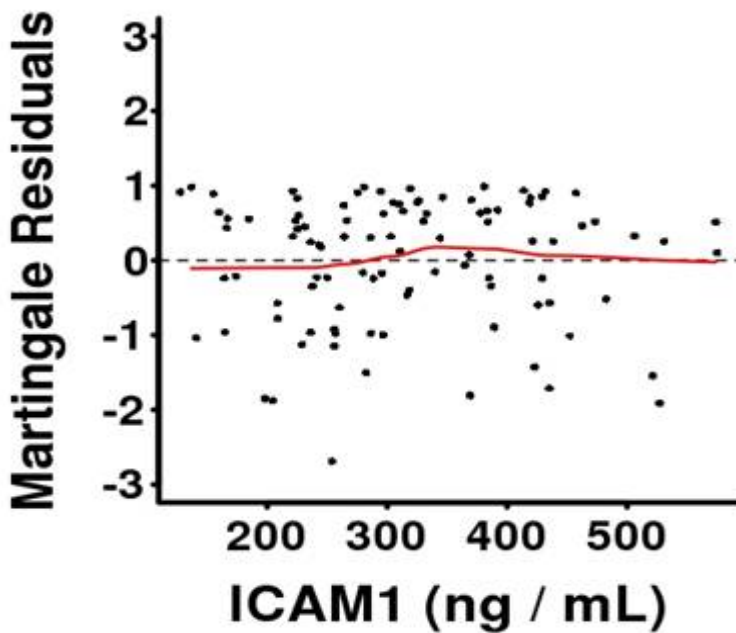
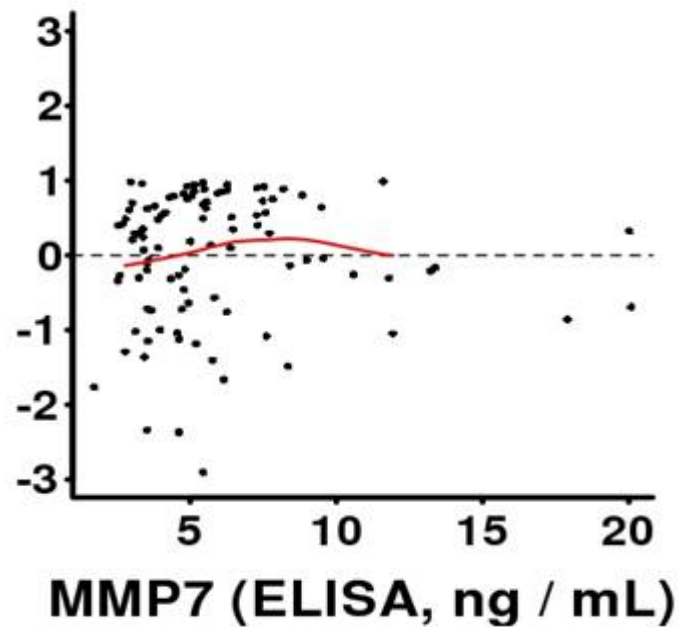
Martingale residuals

—Biomarkers

Cohort: **Validation**

Outcome: **Progression**

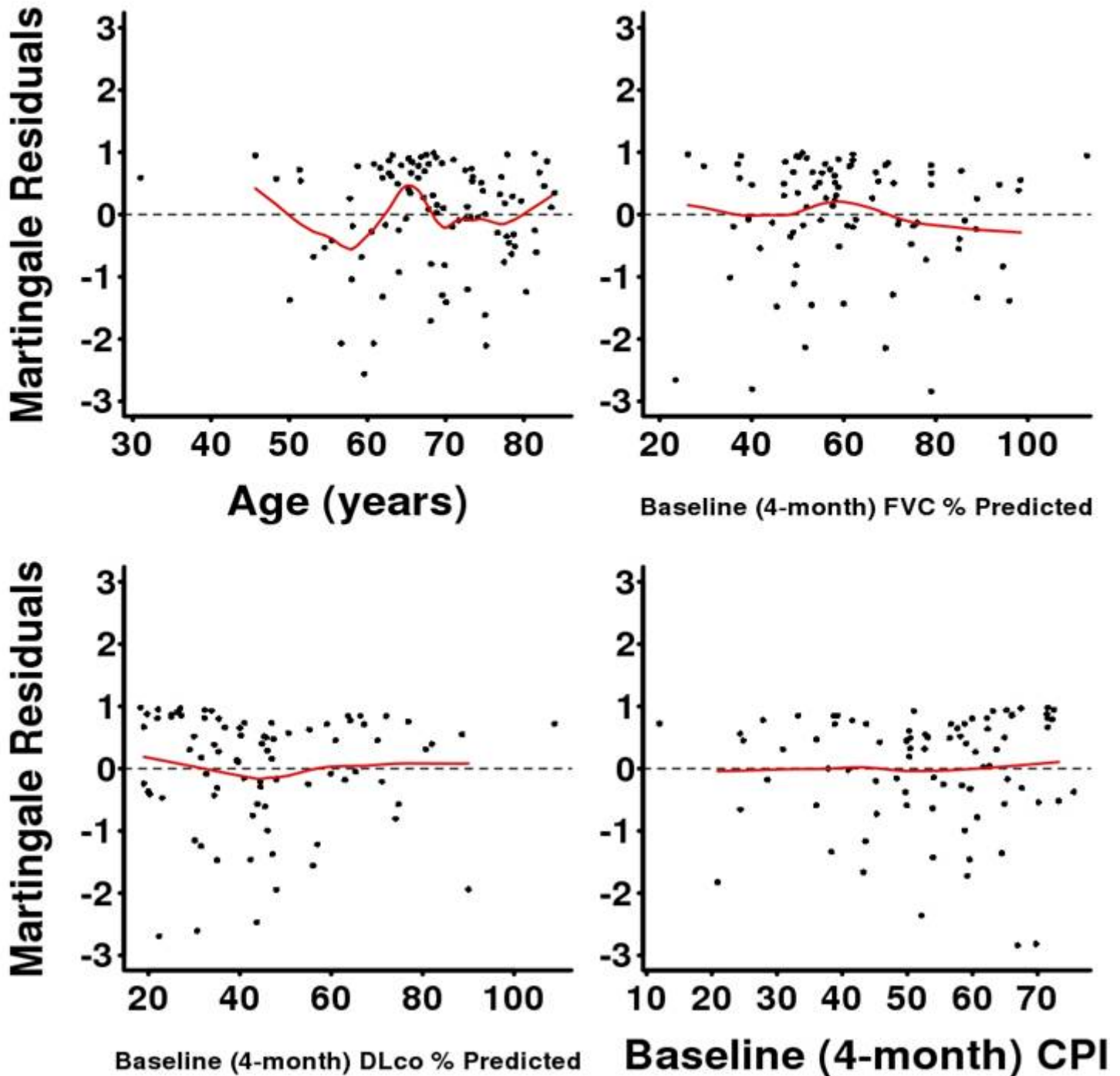
**Free Survival by FVC
(Lung Transplant
counts as event)**



Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Progression Free Survival by DLCO
(Lung Transplant counts as event)**



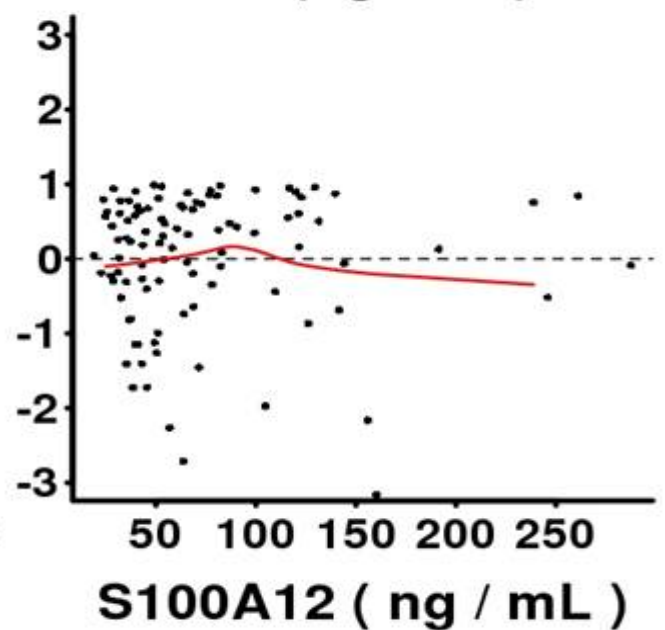
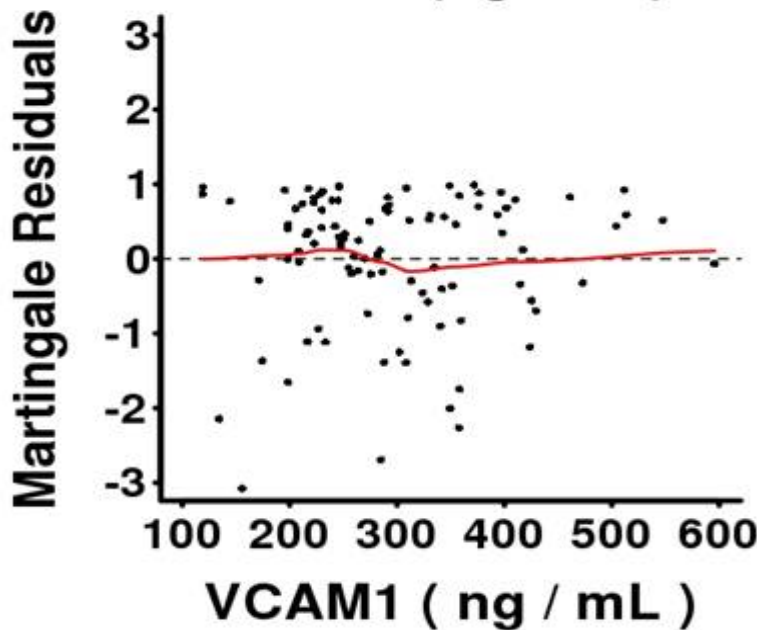
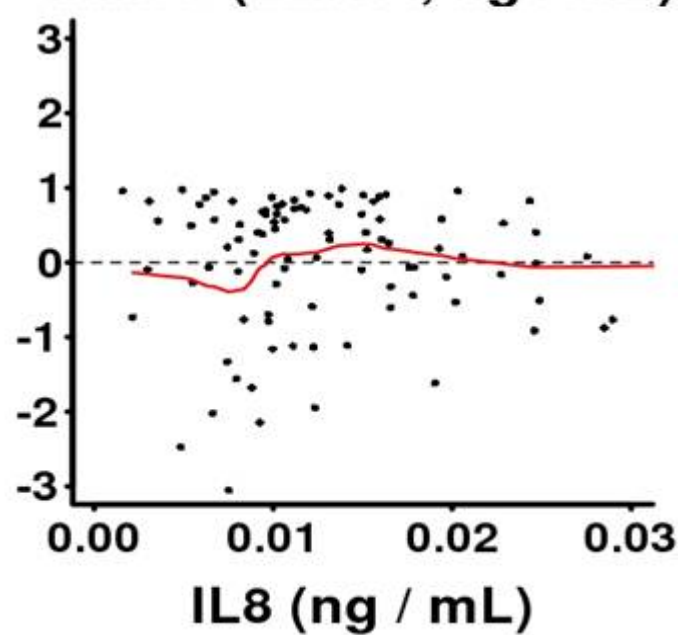
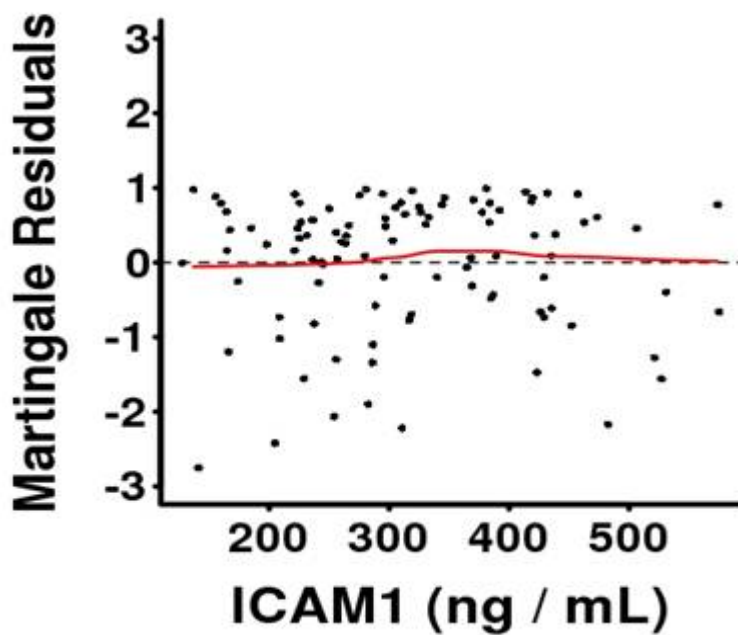
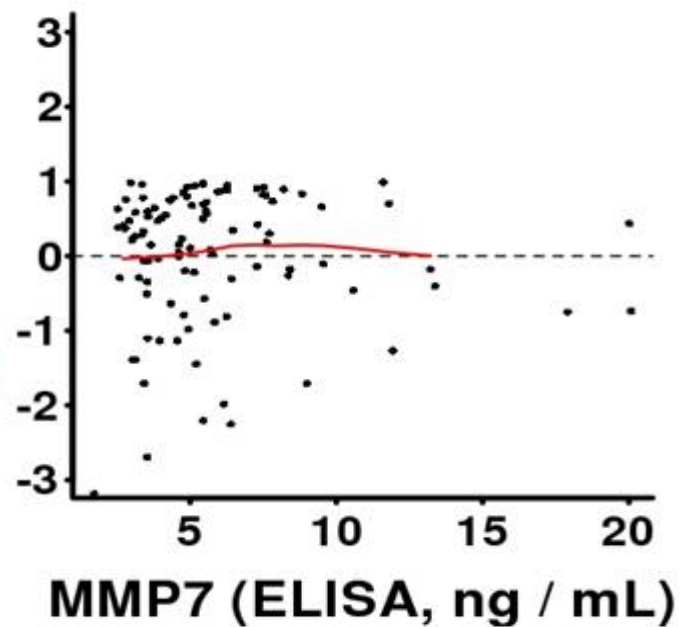
Martingale residuals

—Biomarkers

Cohort: **Validation**

Outcome: **Progression**

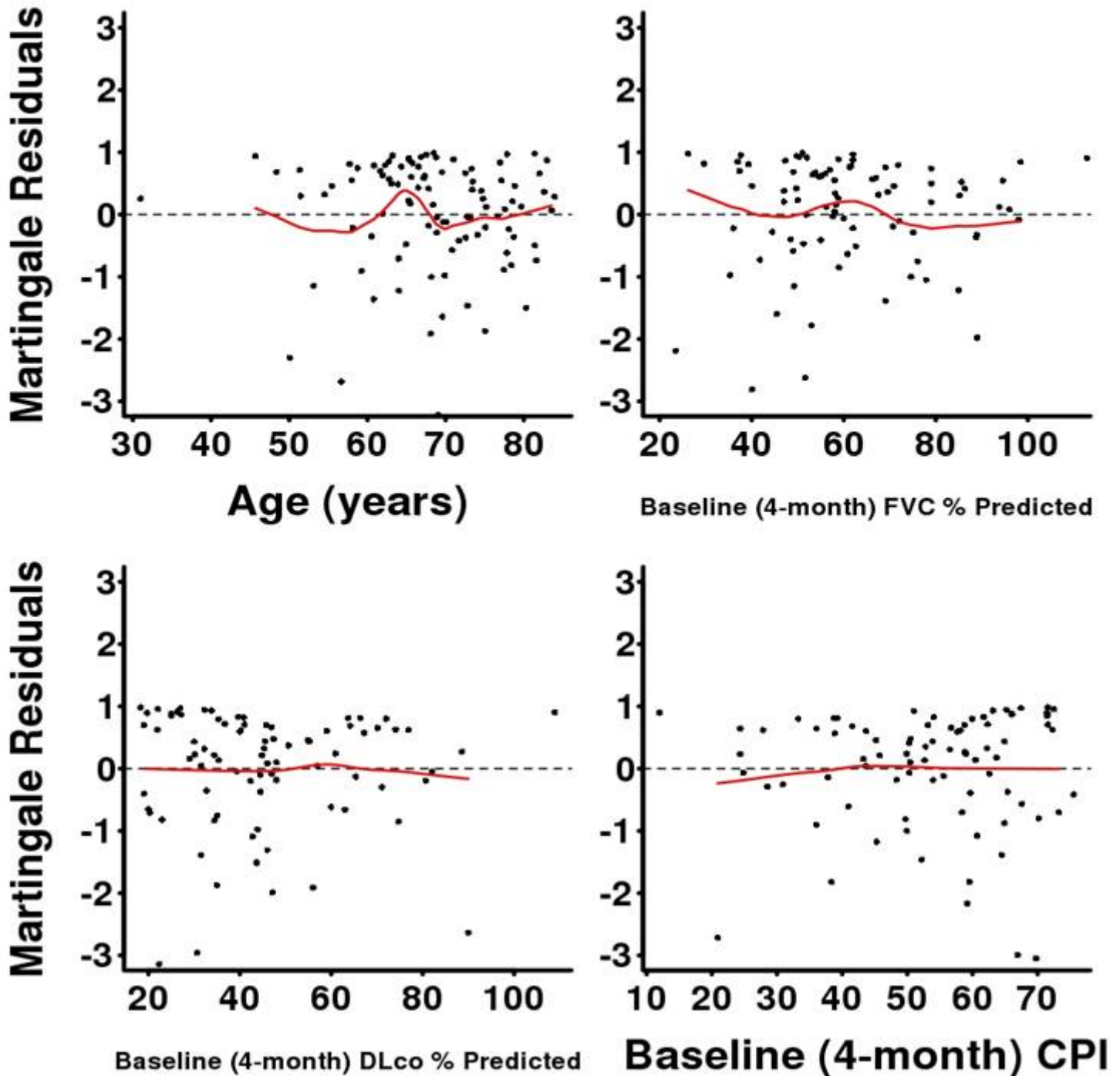
**Free Survival by DLCO
(Lung Transplant
counts as event)**



Martingale residuals—Clinical Predictors

Cohort: **Validation**

Outcome: **Progression Free Survival by CPI**
(Lung Transplant counts as event)



Martingale residuals

—Biomarkers

Cohort: **Validation**

Outcome: **Progression**

**Free Survival by CPI
(Lung Transplant
counts as event)**

