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## **Online-Data-Supplement**

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### **Anemia Severely Reduces Health-Related Quality**

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### **of Life in COPD Patients Receiving Long-Term**

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### **Home Non-Invasive Ventilation**

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15 **e-Table 1** Multiple linear regression analysis 1 with the SRI summary scale score as the  
 16 dependent variable (N=128)

Independent variables	Mean difference 95%CI (lower/upper limit)	P-value
Age (for each additional year)	0.100 ; -0.272/0.437	0.595
Sex (women vs. men)	2.603 ; -3.506/8.711	0.400
BMI (for each additional index-point)	-0.185 ; -0.563/0.192	0.333
Duration of NIV (for each additional month)	-0.075 ; -0.214/0.064	0.286
*Exacerbation history (positive vs. negative)	-9.969 ; -15.613/-4.326	0.001
Updated Charlson comorbidity index (for each additional index-point)	0.479 ; -1.116/2.074	0.553
Hemoglobin level (for each additional g/dl)	1.483 ; -0,178/3.143	0.080

17 **Notes:** \*Dichotomized category as defined in the text

18 **Abbreviations:** CI, confidence interval; NIV, non-invasive ventilation; SRI, Severe Respiratory  
 19 Insufficiency Questionnaire; BMI, body mass index

20 **e-Table 2** Multiple linear regression analysis 1 with SRI scores as the dependent variables  
 21 (N=128)

Independent variables	Mean difference 95%CI (lower/upper limit)	P-value
Dependent variable SRI subscale score: Respiratory complaints		
*Exacerbation history (positive vs. negative)	-8.835 ; -15.702/-1.970	0.012
Hemoglobin level (for each additional g/dl)	0.754 ; -1.266/2.774	0.461
Dependent variable SRI subscale score: Physical functioning		
Exacerbation history	-7.493 ; -15.378/-0.392	0.062
Hemoglobin level	2.021 ; -0.299/4.341	0.087
Dependent variable SRI subscale score: Attendant symptoms and sleep		
Exacerbation history	-8.416 ; -16.280/-0.551	0.036
Hemoglobin level	0.786 ; -1.528/3.100	0.503
Dependent variable SRI subscale score: Social relationships		
Exacerbation history	-10.849 ; -17.977/-3.722	0.003
Hemoglobin level	1.256 ; -0.841/3.353	0.238
Dependent variable SRI subscale score: Anxiety		
Exacerbation history	-14.210 ; -22.601/-5.818	0.001
Hemoglobin level	1.988 ; -0.481/4.457	0.114
Dependent variable SRI subscale score: Psychological Well-being		
Exacerbation history	-9.732 ; -16.522/-2.942	0.005
Hemoglobin level	1.508 ; -0.490/3.506	0.138
Dependent variable SRI subscale score: Social functioning		
Exacerbation history	-10.130 ; -17.303/-2.956	0.006
Hemoglobin level	2.072 ; -0.039/4.182	0.054

22 **Notes:** \*Dichotomized categories as defined in the text

23 **Abbreviations:** CI, confidence interval; SRI, Severe Respiratory Insufficiency Questionnaire

24 **e-Table 3** Multiple linear regression analysis 2 with SRI scores as the dependent variables  
 25 (N=128)

Independent variables	Mean difference 95%CI (lower/upper limit)	P-value
Dependent variable SRI subscale score: Respiratory complaints		
*Exacerbation history (positive vs. negative)	-8.697 ; -15.504/-1.889	0.013
*Anemia (positive vs. negative)	-6.021 ; -13.941/1.899	0.135
Dependent variable SRI subscale score: Physical functioning		
Exacerbation history	-7.816 ; -15.757/0.125	0.054
Anemia	-4.555 ; -13.794/4.685	0.331
Dependent variable SRI subscale score: Attendant symptoms and sleep		
Exacerbation history	-8.119 ; -15.8667/-0.371	0.040
Anemia	-8.793 ; -17.806/0.221	0.056
Dependent variable SRI subscale score: Social relationships		
Exacerbation history	-10.691 ; -17.702/-3.660	0.003
Anemia	-8.963 ; -17.131/-0.794	0.032
Dependent variable SRI subscale score: Anxiety		
Exacerbation history	-14.124 ; -22.412/-5.837	0.001
Anemia	-11.178 ; -20.820/-1.535	0.023
Dependent variable SRI subscale score: Psychological Well-being		
Exacerbation history	-9.606 ; -16.288/-2.925	0.005
Anemia	-9.493 ; -17.267/-1.719	0.017
Dependent variable SRI subscale score: Social functioning		
Exacerbation history	-10.142 ; -17.250/-3.034	0.006
Anemia	-9.974 ; -18.244/-1.704	0.019

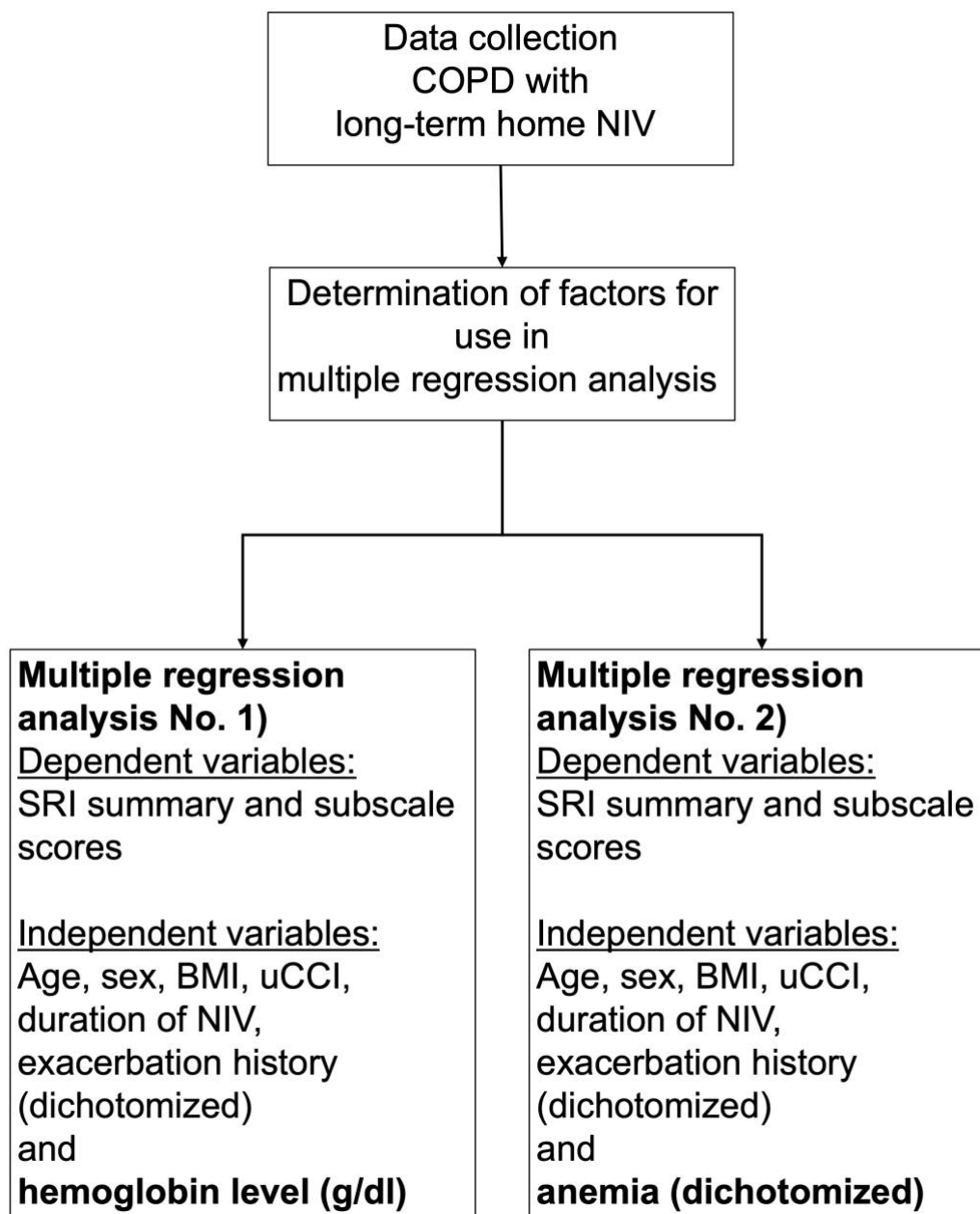
26 **Notes:** \*Dichotomized categories as defined in the text

27 **Abbreviations:** CI, confidence interval; SRI, Severe Respiratory Insufficiency Questionnaire

28 e-Figure Legend

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30 e-Figure 1 Flow diagram of the statistical analyses.



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32 **Abbreviations:** BMI, body mass index; uCCI, updated Charlson comorbidity index; NIV, non-

33 invasive ventilation; SRI, Severe Respiratory Insufficiency Questionnaire