

## Supplementary material

### Dynamic hyperinflation impairs daily life activity in asthma

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**Table S1 Relationship of degree of dynamic hyperinflation with questionnaire scores - total and subdomains**

ACQ	r= 0.315 p=0.005
CCQ	r= 0.320 p=0.005
SGRQ	r= 0.324 p=0.004
LCADL	r= 0.385 p=0.001
SOBDA	r=0.228 p=0.046
CCQ, subdomains	
Symptoms	r= 0.245 p= 0.032
Functional state	r= 0.194 p= 0.091
Mental state	r= 0.381 p= 0.001
SGRQ, subdomains	
Symptoms	r= 0.287 p= 0.011
Activities	r= 0.347 p= 0.002
Impact	r= 0.241 p= 0.034
LCADL, subdomains	
Self care	r= 0.362 p= 0.001
Domestic	r= 0.284 p= 0.012
Physical	r= 0.193 p= 0.093
Leisure	r= 0.315 p= 0.005

r: correlation coefficient by Spearman rank, with corresponding p-value. Definitions of abbreviations:

ACQ = Asthma Control Questionnaire, CCQ = Clinical COPD Questionnaire, SGRQ = St. George

Respiratory Questionnaire, LCADL = London Chest Activity of Daily Living questionnaire, SOBDA =

Shortness of Breath with Daily Activities questionnaire.

**Table S2 Relationship of FEV<sub>1</sub> and static hyperinflation with questionnaire scores**

	<b>FEV<sub>1</sub> %pred</b>	<b>RV/TLC %pred</b>	<b>FRC/TLC %pred</b>
ACQ	r= 0.158 p= 0.169	r= 0.099 p= 0.393	r= 0.146 p= 0.204
CCQ	r= 0.055 p= 0.633	r= 0.039 p= 0.735	r= 0.041 p= 0.726
SGRQ	r= 0.142 p= 0.219	r= 0.200 p= 0.081	r= 0.185 p= 0.107
LCADL	r= 0.175 p= 0.128	r= 0.189 p= 0.104	r= 0.167 p= 0.148
SOBDA	r= 0.156 p= 0.142	r=0.254 p= 0.026	r= 0.284 p= 0.0012

r: correlation coefficient by Spearman rank, with corresponding p-value. Definitions of abbreviations: ACQ = Asthma Control Questionnaire, total score, CCQ = Clinical COPD Questionnaire, total score, SGRQ = St. George Respiratory Questionnaire, total score, LCADL = London Chest Activity of Daily Living questionnaire, total score, SOBDA = Shortness of Breath with Daily Activities questionnaire, total score, FEV<sub>1</sub> = forced expiratory volume in one second, FRC = function residual capacity, % pred = percentage of predicted value, RV = residual volume, TLC = total lung capacity.