

1 **TITLE:**

2 **Seasonal Variability of Lung Function and Asthma Quality of Life**
3 **Questionnaire Scores in Adults with Uncontrolled Asthma**

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17 **SUPPLEMENTARY FIGURE LEGENDS**

18 **Figure 1. Seasonal analysis of lung function and AQLQ outcomes by**
19 **baseline blood eosinophil classification.** Hemisphere normalized (see
20 Methods) per-month least-squares means ($\text{lsmeans} \pm \text{s.e.}$) are plotted for **A** Peak
21 Expiratory Flow (PEF), **B** pre-bronchodilator FEV₁, **C** FVC, **D** rescue medication
22 use (puffs), and **E** Standardized Asthma Quality of Life Questionnaire (AQLQ{S})
23 scores for subjects with blood eosinophils $< 300/\mu\text{L}$ (left) or $\geq 300/\mu\text{L}$ (right) at
24 baseline.

25 **Figure 2. Seasonal analysis of individual questions of the AQLQ(S).** Seasonal
26 variability was estimated by the contrast of December versus July for all subjects
27 in the study. A) Coughing and B) Avoid Strong Smells or Perfume questions were
28 most and least seasonably variable respectively.

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31 TABLES AND LEGENDS

	Difference	Lower 95% CI	Upper 95% CI
Coughing	-0.33	-0.42	-0.24
Wheeze	-0.25	-0.33	-0.16
Clear Throat	-0.25	-0.33	-0.16
Morning Symptoms	-0.21	-0.3	-0.12
Nocturnal Awakenings	-0.21	-0.29	-0.12
Chest Tightness	-0.19	-0.27	-0.1
Night Sleep Interference	-0.18	-0.27	-0.1
Symptoms from Cigarette Smoke Exposure	-0.18	-0.28	-0.09
Avoid Cigarette Smoke	-0.18	-0.28	-0.08
Chest Heaviness	-0.18	-0.26	-0.1
Short of Breath	-0.17	-0.25	-0.09
Heavy Breathing	-0.16	-0.25	-0.08
Fighting for Air	-0.16	-0.24	-0.08
Concerned About Medication Use	-0.16	-0.25	-0.07
Symptoms from Weather or Air Pollution	-0.16	-0.25	-0.06
Frustrated	-0.15	-0.24	-0.07
Sleeping	-0.15	-0.23	-0.07
Overall Range of Activities	-0.15	-0.23	-0.07
Afraid of Getting Out of Breath	-0.15	-0.24	-0.06
Moderate Activities	-0.15	-0.22	-0.07
All Activities	-0.14	-0.22	-0.07
Afraid of Medication Not Available	-0.14	-0.23	-0.05
Difficulty Breathing Out	-0.13	-0.21	-0.04
Concerned About Having Asthma	-0.13	-0.21	-0.04
Social Activities	-0.12	-0.2	-0.05
Avoid Outside Weather or Air Pollution	-0.12	-0.21	-0.03
Strenuous Activities	-0.12	-0.2	-0.04
Avoid Dust	-0.11	-0.2	-0.02
Symptoms from Dust Exposure	-0.11	-0.2	-0.02
Work-Related Activities	-0.1	-0.18	-0.02
Avoid Strong Smells or Perfume	-0.09	-0.18	0
Symptoms from Strong Smells or Perfume	-0.08	-0.16	0.01

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33 **Table 1. Seasonal analysis of individual questions of the AQLQ(S).** Seasonal
34 variability was estimated by the contrast of December and July for all subjects in
35 the study. Estimates for all the questions are tabulated with the larger, ordered by
36 the effect size. The difference in means, lower and upper 95% (Bonferonni
37 adjusted) confidence intervals are tabulated.

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40 **SUPPLEMENTARY REFERENCES**

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