

Supplementary Table 1. Lund–Mackey system

| Sinus | Right sinus | Left sinus |
|---------------------|-------------|------------|
| Frontal | 0-4 | 0-4 |
| Anterior ethmoids | 0-4 | 0-4 |
| Posterior ethmoids | 0-4 | 0-4 |
| Maxillary | 0-4 | 0-4 |
| Sphenoid | 0-4 | 0-4 |
| Ostiomeatal complex | 0 or 2 | 0 or 2 |

For the sinuses: 0 = no inflammation; 1 = partial inflammation; 2 = 100% inflammation.

For the ostiomeatal complex: 0 = not occluded; 2 = occluded

Maximum total score: 24

Supplementary Table 2. Sinonasal Outcome Test–22 (SNOT-22) questionnaire

| | No problem | Very mild problem | Mild or slight problem | Moderate problem | Severe Problem | Problem as bad as it can be | Most important 5 items |
|------------------------------------|------------|-------------------|------------------------|------------------|----------------|-----------------------------|------------------------|
| 1. Need to blow nose | 0 | 1 | 2 | 3 | 4 | 5 | |
| 2. Sneezing | 0 | 1 | 2 | 3 | 4 | 5 | |
| 3. Runny nose | 0 | 1 | 2 | 3 | 4 | 5 | |
| 4. Cough | 0 | 1 | 2 | 3 | 4 | 5 | |
| 5. Post nasal discharge | 0 | 1 | 2 | 3 | 4 | 5 | |
| 6. Thick nasal discharge | 0 | 1 | 2 | 3 | 4 | 5 | |
| 7. Ear fullness | 0 | 1 | 2 | 3 | 4 | 5 | |
| 8. Dizziness | 0 | 1 | 2 | 3 | 4 | 5 | |
| 9. Ear pain/pressure | 0 | 1 | 2 | 3 | 4 | 5 | |
| 10. Facial pain/pressure | 0 | 1 | 2 | 3 | 4 | 5 | |
| 11. Difficulty falling asleep | 0 | 1 | 2 | 3 | 4 | 5 | |
| 12. Waking up at night | 0 | 1 | 2 | 3 | 4 | 5 | |
| 13. Lack of a good night's sleep | 0 | 1 | 2 | 3 | 4 | 5 | |
| 14. Waking up tired | 0 | 1 | 2 | 3 | 4 | 5 | |
| 15. Fatigue during the day | 0 | 1 | 2 | 3 | 4 | 5 | |
| 16. Reduced productivity | 0 | 1 | 2 | 3 | 4 | 5 | |
| 17. Reduced concentration | 0 | 1 | 2 | 3 | 4 | 5 | |
| 18. Frustrated/restless/ irritable | 0 | 1 | 2 | 3 | 4 | 5 | |
| 19. Sad | 0 | 1 | 2 | 3 | 4 | 5 | |
| 20. Embarrassed | 0 | 1 | 2 | 3 | 4 | 5 | |
| 21. Sense of taste/smell | 0 | 1 | 2 | 3 | 4 | 5 | |
| 22. Blockage/congestion of nose | 0 | 1 | 2 | 3 | 4 | 5 | |

Supplementary Table 3. Baseline demographic, clinical, and laboratory characteristics of the study population

| | |
|---|-------------------|
| Age, years, mean \pm SD | 47.76 \pm 11.03 |
| Gender, female, n (%) | 24 (46.2) |
| BMI, kg/m ² , mean \pm SD | 37.05 \pm 14.02 |
| Obesity, n (%) | 27 (51.9) |
| Presence of asthma, n (%) | 37 (71.2) |
| Presence of atopy, n (%) | 26 (50) |
| Presence of NERD, n (%) | 18 (34.6) |
| PBEC, cells/ μ L, median (min-max) | 470 (20-6370) |
| Total IgE, IU, median (min-max) | 362 (23-3438) |
| History of polypectomy, n (%) | 35 (67.3) |
| Number of polypectomies, n (%) | 2.86 \pm 2.04 |
| VAS nasal congestion score, mean \pm SD | 8.06 \pm 2.76 |
| VAS loss of smell score, mean \pm SD | 7.36 \pm 3.67 |
| VAS facial pressure/pain score, mean \pm SD | 5.34 \pm 3.67 |
| SNOT-22 score, mean \pm SD | 67.28 \pm 19.32 |

Abbreviations: SD = Standard Deviation; BMI = Body Mass Index; NERD = Non-steroidal anti-inflammatory drug-exacerbated respiratory disease; Ig = Immunoglobulin; VAS = Visual Analog Scale; SNOT-22 = Sinonasal Outcome Test-22.

Supplementary Table 4. Baseline Lund–Mackay scores of paranasal sinus involvement in patients with chronic rhinosinusitis with nasal polyps

| Sinus | Score |
|---------------------|------------------|
| Frontal | 2.25 \pm 1.60 |
| Anterior ethmoids | 2.48 \pm 1.29 |
| Posterior ethmoids | 2.28 \pm 1.31 |
| Maxillary | 1.12 \pm 1.3 |
| Sphenoid | 2.15 \pm 1.42 |
| Ostiomeatal complex | 3.17 \pm 1.50 |
| Total | 14.43 \pm 6.92 |

Supplementary Table 5. Comparison of baseline Lund–Mackay computed tomography scores of the paranasal sinuses in patients with chronic rhinosinusitis with nasal polyps according to asthma status

| Sinus | With asthma n: 37 Score | Without asthma n: 15 Score | p value |
|---------------------|-------------------------------|----------------------------------|---------|
| Frontal | 2.50 \pm 1.52 | 1.76 \pm 1.69 | 0.219 |
| Anterior ethmoids | 2.65 \pm 1.41 | 2.00 \pm 0.98 | 0.208 |
| Posterior ethmoids | 2.42 \pm 1.41 | 2.00 \pm 1.08 | 0.308 |
| Maxillary | 2.07 \pm 1.01 | 2.23 \pm 1.09 | 0.670 |
| Sphenoid | 2.19 \pm 1.41 | 2.07 \pm 1.49 | 0.848 |
| Ostiomeatal complex | 3.00 \pm 1.62 | 3.53 \pm 1.19 | 0.435 |
| Total | 14.76 \pm 7.48 | 13.76 \pm 5.87 | 0.677 |