**Twin Research and Human Genetics**

The STOPPA Twin Study Explains the Exhaled Nitric Oxide and Asthma Link By Genetics and Sensitization

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| Supplementary Table 1. Backgrounds factors and characteristics of the study population compared with children not in the study population due to missing data regarding FENO and/or current asthma, n=752. | | | | | | |
|  | Study population | | Missing data FENO/asthma | | | p-value |
|  | n | % | n | | % |  |
| Age, total n=752 |  |  | |  |  |  |
| Mean (SD) |  | 12.6 (1.5) | |  | 12.2 (1.3) | 0.027 |
| Sex, total n=752 |  |  | |  |  |  |
| Male | 365 | 54 | | 33 | 46 |  |
| Female | 316 | 46 | | 38 | 54 | 0.25 |
| Family history of atopy\*, total n=630 |  |  | |  |  |  |
| No | 217 | 38 | | 35 | 59 |  |
| Yes | 354 | 62 | | 24 | 41 | 0.001 |
| Tobacco smoke¶, total n=742 |  |  | |  |  |  |
| No | 519 | 77 | | 49 | 71 |  |
| Yes | 154 | 23 | | 20 | 29 | 0.25 |
| Zygosity, total n=752 |  |  | |  |  |  |
| MZ | 364 | 53 | | 46 | 65 |  |
| DZ | 317 | 47 | | 25 | 35 | 0.07 |
| Phadiatop, total n=699 |  |  | |  |  |  |
| Negative | 383 | 60 | | 39 | 61 |  |
| Positive | 252 | 40 | | 25 | 39 | 0.92 |
| Current asthma, total n=725 |  |  | |  |  |  |
| No | 550 | 81 | | 35 | 80 |  |
| Yes | 131 | 19 | | 9 | 20 | 0.84 |
| Asthma medication, total n=633 |  |  | |  |  |  |
| No | 470 | 83 | | 53 | 83 |  |
| Yes | 99 | 17 | | 11 | 17 | 0.97 |
| ICS ¶¶ - regularly, total n=614 |  |  | |  |  |  |
| No | 516 | 92 | | 52 | 93 |  |
| Yes | 42 | 8 | | 4 | 7 | 0.92 |

\*Family history of atopic disease: Parental reported doctor’s diagnosis of asthma, eczema or hay fever to pollen or furred animal

¶ Parental smoking: Mother and/or father was a current smoker

¶¶ Regular use of inhaled corticosteroids (ICS) during the last 12 months§ p-value for test of difference between the study population and children not in the study population; χ2-test for categorical variables and t-test for quantitative variables.

Positive Phadiatop = IgE ≥0.35 kUA/l



Supplementary Figure 1