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| Table I. Patient characteristics and PFTs (all values expressed as mean + SD) | | | | |
|  | Male | Female | Total | P value |
| N | 931 (52%) | 862 (48%) | 1793 | 0.021 |
| Age, years | 9.8 ± 3.6 | 10.9 ± 3.8 | 10.4 ± 3.8 | < 0.001 |
| Ancestry |  |  |  |  |
| White | 347 (37%) | 352 (40.8%) | 699 (40.0%) | 0.122 |
| Black | 91 (9.8%) | 76 (8.9%) | 167 (9.3%) | 0.486 |
| Hispanic | 123 (13.2%) | 98 (11.4%) | 221(12.3%) | 0.236 |
| Asian | 12 (1.3%) | 10 (1.2%) | 22 (1.2%) | 0.804 |
| Other | 358 (38.5%) | 326 (37.8%) | 684 (38.1%) | 0.783 |
| BMI, percentile | 67.1 ± 30.5 | 64.8 ± 29.1 | 66.0 ± 29.9 | 0.105 |
| Obese, n (%) (> 95th percentile) | 153 (41%) | 223 (59%) | 376 (21.0%) | <0.001 |
| FEV1, % predicted, pre | 94.2 ± 17.1 | 95.6 ± 15.9 | 94.8 ± 16.5 | 0.078 |
| FEV1, % predicted, post | 99.3 ± 17.6 | 100.1 ± 16.1 | 99.7 ± 16.9 | 0.361 |
| FVC, % predicted, pre | 101.2 ± 15.5 | 101.8 ± 15.4 | 101.5 ± 15.5 | 0.420 |
| FVC, % predicted, post | 101.2 ± 15.8 | 101.8 ± 15.4 | 101.5 ± 15.6 | 0.461 |
| FEV1/FVC, pre | .81 ± .09 | .84 ± .09 | .83 ± .09 | < 0.001 |
| FEV1/FVC, post | .86 ±. 08 | .88 ± .08 | .87 ± .08 | < 0.001 |
| FEF25-75, % predicted, pre | 78.0 ± 28.0 | 77.0 ± 25.0 | 77.5 ± 26.6 | 0.419 |
| FEF25-75, % predicted, post | 94.6 ± 29.8 | 91.5 ± 27.1 | 93.1 ± 28.6 | 0.020 |
| TLC, % predicted, pre | 105.1 ± 13.0 | 105.2 ± 12.6 | 105.1 ± 12.8 | 0.982 |
| TLC, % predicted, post | 101.6 ± 13.0 | 101.3 ± 12.4 | 101.5 ± 12.7 | 0.615 |
| RV, % predicted, pre | 141.4 ± 35.9 | 133.4 ± 31.0 | 137.6 ± 33.8 | < 0.001 |
| RV, % predicted, pre | 125.6 + 36.5 | 118.4 + 31.4 | 122.1 + 34.3 | < 0.001 |
| RV/TLC, %, pre | 28.7 ± 6.8 | 29.2 ± 6.2 | 29.0 ± 6.5 | 0.110 |
| RV/TLC, %, post | 26.3 ± 6.9 | 26.8 ± 6.3 | 26.6 ± 6.6 | 0.090 |
| sGaw, % predicted pre | 62.6 ± 23.0 | 71.0 ± 26.5 | 66.6 ± 25.1 | < 0.001 |
| sGaw, % predicted, post | 97.5 ± 30.6 | 105.9 ± 32.0 | 101.3 ± 31.6 | < 0.001 |

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| Table II. Changes in FEV1/FVC ratio through childhood in children with asthma compared to healthy children | | | | | | |
|  | 5 years | 11 years | 16 years | change from 5 to 11 | change from 11 to 16 | change from 5 to 16 |
| Male |  |  |  |  |  |  |
| Asthma | .86 | .81 | .83 | -5.8% | 2.5% | -7.3% |
| GLI | .96 | .87 | .89 | -9.4% | 2.3% | -5.2% |
| Female |  |  |  |  |  |  |
| Asthma | .88 | .83 | .84 | -5.7% | 1.2% | -4.5% |
| GLI | .96 | .89 | .91 | -7.3% | 2.2% | -5.2% |
| Obese Asthma | .86 | .79 | .79 | -8.1% | 0.0% | -8.1% |
| Normal BMI Asthma | .87 | .83 | .86 | -4.6% | 3.6% | 1.1% |