**Table G30 – biomarkers –SLIT– PEDIATRICS**

| **Study** | **Arms** | **IgG - IgG4** | **Mean baseline Ig E –Change IgE**  | **Other markers** |
| --- | --- | --- | --- | --- |
| Bahceciler 200130 | SLIT |  | IgE: pre: median 420 (range 42-2751); post: 295 (40-1701)Total IgE levels reported but no significant difference was found  |  |
| Bahceciler 200130 | Placebo |  | IgE:pre: median 405 (range:197-5967); post: 536 (166-3948) |  |
| Hirsch, 199729 | SLIT (D.pt) | IgG: No significant changeIgG4: NR | IgE:Pre: 39.1 kU/I, post: 78.9Total IgE increased, pre vs post: p<0.01sIgE D.f. increased in SLIT group (p<0.01) |  |
| Hirsch, 199729 | Placebo | IgG: No significant changeIgG4:Decreased, p<0.05 | IgE:Pre: 33.3 kU/I, post: 47.7Total IgE pre vs post increased, p<0.01Greater increase in total IgE in SLIT vs placebo, p<0.05 |  |
| Ippoliti, 2003 38 | SLIT |  |   | No variation in CD40+ and ACTH. Significant decrease in serum ECP, IL-13, and prolactin levels. |
| la Rosa, 199923Leonardi 200924 | SLIT | IgG4:SLIT pre: 7% (graph)SLIT post: 12% (graph)Significant increase in levels after 2 yrs (p=0.02) | IgE:No significant difference between the groups |  |
| la Rosa, 199923Leonardi 200924 | Placebo | IgG4:Placebo pre: 10% (graph)Placebo post: 10%(graph)No significant change in levels | IgE:No significant change in levels |  |
| Lue, 200619 | SLIT | IgG4:Statistically significant increase within group and when compared to placebo p=0.026, after 6 months | IgE:Pre: 500 IU/L (from graph)Increased within group, not statistically significant when compared with placebo |  |
| Lue, 200619 | Placebo | IgG4:no major change | IgE:Pre: 400 IU/L (from graph)no major change |  |
| Niu, 200620 | SLIT |  | IgE:Pre: 829.8 +/- 582.0Change in total IgE from baseline to 24 weeks: 129.7 +/- 460.6 (Pre-post SLIT, p=0.057)IgE: SLIT vs Placebo, p=0.063Specific IgE was also reported: no significant change comparing SLIT vs placebo |  |
| Niu, 200620 | Placebo |  | IgE:Pre: 780.6 +/- 592.0Change in total IgE from baseline to 24 weeks: - 85.1 +/- 59.8 (Pre-post placebo, p=0.221)  |  |
| Pajno, 200018 | SLIT | IgG: Mean at baseline: 33.0, after 2 years: 31.3IgG4:Mean at baseline: 2.85, after 2 years: 2.53No significant changes in D. pter specific IgG or IgG4 concentrations were detected in either group | IgE:Mean at baseline: 45.4After 2 years: 52.6SLIT vs placebo group differences: NSNo significant changes in D. pter specific IgE concentrations |  |
| Pajno, 200018 | Placebo | IgG: Mean at baseline: 26.0, after 2 years: 31.9Between group differences: NSIgG4:Mean at baseline: 2.7, after 2 years: 2.66, Between group differences: NS | IgE:Mean IgE baseline: 52.2After 2 years: 65.3Between group differences: NS |  |
| Tari, 199031 | SLIT | IgG: Significant increase after 12 and 18 months p<0.001.IgG4:Pre: 2.49 +/- 1.10Post: 10.71 +/- 3.81 p<0.01 | IgE:No significant change |  |
| Tari, 199031 | Placebo | IgG: No change after 12 and 18 monthsIgG4:Pre: 2.04 +/- 1.03Post: 2.78 +/- 2.02 | IgE:Significant rise (p<0.01) |  |
| Tseng, 200822 | SLIT | IgG4:Der p baseline: 591.4 +/- 476.9IgG4: change from baseline, p<0.001Change from baseline to 24th week: 772.9 +/- 1002.8, p<0.001 | IgE:Der p baseline: 129 +/- 91, Change from baseline to 24th week: 40.8 +/- 76.1, p=0.008D. pteronyssinusIgE: SLIT vs placebo change from baseline, NS, p=0.12 |  |
| Tseng, 200822 | Placebo | IgG4:Der p baseline: 520.1 +/- 308.2; Change from baseline to 24th week: -92.4 +/- 290.1, p=0.018 | IgE:Der p baseline: 98.8 +/- 71.5Change from baseline to 24th week: 21.0 +/- 46.7, p=0.018 |  |
| Tseng, 200822 | SLIT | IgG4:Der f baseline: 425.0 +/- 392.1; Change from baseline to 24th week: 710 +/- 990.9, p=0.002IgG4: SLIT vs placebo change from baseline, p<0.001 | IgE:Der f baseline: 170.5 +/- 88.8Change from baseline to 24th week: 49.0 +/- 73.9, p=0.002D. farinaeIgE: SLIT vs placebo change from baseline, NS, p=0.087 |  |
| Tseng, 200822 | Placebo | IgG4:Der f baseline: 386.1 +/- 285.8; Change from baseline to 24th week: -6.4 +/- 280.1, p=0.889 | IgE:Der f baseline: 83.3 +/- 62.9Change from baseline to 24th week: 24.2 +/- 43.3, p=0.004D. farinae |  |
| 36Valovirta, 200637Savolainen 2006 |  |  |  | Reported in Savolainen: At 2 years: Increased IL-10 values. Decreased IL-5 values in high dose vs placebo.(Subset of the original study, with 10 patients from each arm) |
| Vourdas 199834 | SLIT | IgG4:no significant change  | IgE:no significant change No significant changes in specific IgE was detected. After an initial increase in specific IgG4 during the first pollen season, the values decreased in both groups. Actual values not reported. |  |
| Vourdas 199834 | Placebo | IgG4:no significant change  | IgE:no significant change  |  |
| Pajno201135 |  | IgG4:Baseline specific IgG4:Continous SLIT: 0.9Coseasonal SLIT: 0.8Season 3 IgG4:Continuous SLIT: 22.7Coseasonal SLIT: 11.9IgG4:Both groups had significant increase in specific IgG4 at end of study compared to baseline (p<0.05) | IgE:Baseline Timothy specific IgE: Continuous SLIT: 11.2Coseasonal SLIT: 9.9IgE remained unchanged from beginning to end of study |  |