**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 change  IgG4: NR | IgE:Pre: 39.1 kU/I, post: 78.9  Total IgE increased, pre vs post: p<0.01  sIgE D.f. increased in SLIT group (p<0.01) |  |
| Hirsch,  199729 | Placebo | IgG: No significant change  IgG4:Decreased, p<0.05 | IgE:Pre: 33.3 kU/I, post: 47.7  Total IgE pre vs post increased, p<0.01  Greater 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, 199923  Leonardi 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, 199923  Leonardi 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 +/- 582.0  Change in total IgE from baseline to 24 weeks: 129.7 +/- 460.6  (Pre-post SLIT, p=0.057)  IgE: SLIT vs Placebo, p=0.063  Specific IgE was also reported: no significant change comparing SLIT vs placebo |  |
| Niu,  200620 | Placebo |  | IgE:Pre: 780.6 +/- 592.0  Change 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: 31.3  IgG4:Mean at baseline: 2.85, after 2 years: 2.53  No significant changes in D. pter specific IgG or IgG4 concentrations were detected in either group | IgE:Mean at baseline: 45.4  After 2 years: 52.6  SLIT vs placebo group differences: NS  No significant changes in D. pter specific IgE concentrations |  |
| Pajno, 200018 | Placebo | IgG: Mean at baseline: 26.0, after 2 years: 31.9  Between group differences: NS  IgG4:Mean at baseline: 2.7, after 2 years: 2.66, Between group differences: NS | IgE:Mean IgE baseline: 52.2  After 2 years: 65.3  Between group differences: NS |  |
| Tari, 199031 | SLIT | IgG: Significant increase after 12 and 18 months p<0.001.  IgG4:  Pre: 2.49 +/- 1.10  Post: 10.71 +/- 3.81 p<0.01 | IgE:No significant change |  |
| Tari, 199031 | Placebo | IgG: No change after 12 and 18 months  IgG4:Pre: 2.04 +/- 1.03  Post: 2.78 +/- 2.02 | IgE:Significant rise (p<0.01) |  |
| Tseng, 200822 | SLIT | IgG4:Der p baseline:  591.4 +/- 476.9  IgG4: 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=0.008  D. pteronyssinus  IgE: 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 +/- 71.5  Change 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=0.002  IgG4: SLIT vs placebo change from baseline, p<0.001 | IgE:Der f baseline: 170.5 +/- 88.8  Change from baseline to 24th week: 49.0 +/- 73.9, p=0.002  D. farinae  IgE: 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 +/- 62.9  Change from baseline to 24th week: 24.2 +/- 43.3, p=0.004  D. farinae |  |
| 36Valovirta, 2006  37Savolainen 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 |  |
| Pajno  201135 |  | IgG4:Baseline specific IgG4:  Continous SLIT: 0.9  Coseasonal SLIT: 0.8  Season 3 IgG4:  Continuous SLIT: 22.7  Coseasonal SLIT: 11.9  IgG4: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: 11.2  Coseasonal SLIT: 9.9  IgE remained unchanged from beginning to end of study |  |