Appendix S5

Fig S1: Subgroup analysis RR of food allergy after OIT (only LRB and URB studies) (random-effects model)



**Heterogeneity: τ2 = 0.000; χ2 = 10.882, df = 11 (P<0.453); I2 =0%;**

**Test for overall effect: Z = -8.451 (P<0.0001)**

Fig S2: Subgroup analysis RR of food allergy after SLIT (only LRB and URB studies) (random-effects model)



**Heterogeneity: τ2 = 0.547; χ2 = 4.623, df = 2 (P<0.099); I2 =57%;**

**Test for overall effect: Z = -1.998 (P<0.046)**

Fig S3: Sensitivity analysis RR of food allergy after OIT or SLIT (diagnosis of food allergy confirmed by DBPCFC) (random-effects model)



**Heterogeneity: τ2 = 0.773; χ2 = 55.513, df = 21 (P<0.0001); I2 =62%;**

**Test for overall effect: Z = -6.480 (P<0.0001)**

Fig S4: Risk ratios (RR) of persisting food allergy as assessed by DBPCFC in OIT or SLIT v. controls (Children’s studies)



**Heterogeneity: τ2 = 0.617; χ2 = 51.024, df = 20 (P<0.0001); I2 =61%;**

**Test for overall effect: Z = -6.773 (P<0.0001)**

Fig S5: Risk ratios (RR) of persisting food allergy as assessed by DBPCFC in SLIT v. controls (Adult studies) (random-effects model)



**Heterogeneity: τ2 = 0.063; χ2 = 1.104, df = 1 (P<0.293); I2 =9%;**

**Test for overall effect: Z = -1.283 (P<0.200)**

Fig S6: Risk ratios (RR) of persisting food allergy as assessed by DBPCFC in OIT v. controls (Mixed population studies)



**Heterogeneity: τ2 = 0.000; χ2 = 0.110, df = 2 (P<0.946); I2 =0%;**

**Test for overall effect: Z = -4.042 (P<0.0001)**

Fig S7: Risk ratios (RR) of persisting food allergy as assessed by DBPCFC in OIT or SLIT v. controls (AIT protocol: Conventional)



**Heterogeneity: τ2 = 0.530; χ2 = 32.445, df = 19 (P<0.028); I2 =41%;**

**Test for overall effect: Z = -7.363 (P<0.0001)**

Fig S8: Risk ratios (RR) of persisting food allergy as assessed by DBPCFC in OIT or SLIT v. controls (AIT protocol: Rush) (random-effects model)



**Heterogeneity: τ2 = 0.395; χ2 = 15.479, df = 6 (P<0.017); I2 =61%;**

**Test for overall effect: Z = -3.174 (P<0.002)**

Fig S9: RR of CMA as assessed by DBPCFC in OIT vs. controls (random-effects model)



**Heterogeneity: τ2 = 0.647; χ2 = 22.521, df = 12 (P<0.032); I2 =47%;**

**Test for overall effect: Z = -5.672 (P<0.0001)**

Fig S10: RR of HE allergy as assessed by DBPCFC in OIT vs. controls (random-effects model)



**Heterogeneity: τ2 = 0.642; χ2 = 29.618, df = 10 (P<0.001); I2 =66%;**

**Test for overall effect: Z = -4.182 (P<0.0001)**

Fig S11: RR of peanut allergy as assessed by DBPCFC in OIT/SLIT vs. controls (random-effects model)



**Heterogeneity: τ2 = 0.166; χ2 = 3.405, df = 3 (P<0.333); I2 =12%;**

**Test for overall effect: Z = -4.154 (P<0.0001)**

Fig S12: Sensitivity analysis RR of food allergy after OIT (only RCTs) (random-effects model)



**Heterogeneity: τ2 = 0.608; χ2 = 42.676, df = 16 (P<0.0001); I2 =62%;**

**Test for overall effect: Z = -5.760 (P<0.0001)**

Fig S13: Sensitivity analysis RR of food allergy after SLIT (only RCTs) (random-effects model)



**Heterogeneity: τ2 = 0.317; χ2 = 4.931, df = 3 (P<0.177); I2 =39%;**

**Test for overall effect: Z = -2.548 (P<0.0001)**

Fig S14: Safety data – absence of systemic reactions during OIT for food allergy (random-effects model)



**Heterogeneity: τ2 = 0.000; χ2 = 1.761, df = 4 (P<0.780); I2 =0%;**

**Test for overall effect: Z = 2.542 (P<0.011)**

Fig S15: Safety data – absence of systemic reactions during SLIT for food allergy (random-effects model)



**Heterogeneity: τ2 = 0.000; χ2 = 0.013, df = 1 (P<0.908); I2 =0%;**

**Test for overall effect: Z = -0.271 (P<0.786)**

Fig S16: Safety data – absence of systemic reactions during OIT or SLIT for food allergy (only LRB and URB studies)



**Heterogeneity: τ2 = 0.001; χ2 = 4.235, df = 4 (P<0.375); I2 =5%;**

**Test for overall effect: Z = 1.713 (P<0.087)**

Fig S17: Safety data – absence of systemic reactions during OIT for food allergy (only LRB and URB studies) (random-effects model)



**Heterogeneity: τ2 = 0.000; χ2 = 1.691, df = 3 (P<0.639); I2 =0%;**

**Test for overall effect: Z = 2.341 (P<0.019)**

Fig S18: Safety data – absence of systemic reactions during OIT for CMA (random-effects model)



**Heterogeneity: τ2 = 0.000; χ2 = 0.369, df = 2 (P<0.831); I2 =0%;**

**Test for overall effect: Z = 2.402 (P<0.016)**

Fig S19: Safety data – absence of systemic reactions during OIT for food allergy. RR, risk ratio (Children’s studies)



**Heterogeneity: τ2 = 0.000; χ2 = 1.761, df = 4 (P<0.780); I2 =0%;**

**Test for overall effect: Z = 2.549 (P<0.011)**

Fig S20: Safety data – absence of systemic reactions during SLIT for food allergy. RR, risk ratio (Adults studies)



**Heterogeneity: τ2 = 0.000; χ2 = 0.013, df = 1 (P<0.908); I2 =0%;**

**Test for overall effect: Z = -0.271 (P<0.786)**

Fig S21: Sensitivity analysis. Safety data – absence of local reactions during OIT for food allergy (random-effects model)



**Heterogeneity: τ2 = 0.181; χ2 = 43.261, df = 6 (P<0.0001); I2 =86%;**

**Test for overall effect: Z = 3.952 (P<0.0001)**

Fig S22: Safety data – absence of local reactions during OIT for food allergy (only LRB and URB studies) (random-effects model)



**Heterogeneity: τ2 = 0.441; χ2 = 32.816, df = 4 (P<0.0001); I2 =88%;**

**Test for overall effect: Z = 2.918 (P<0.004)**

Fig S23: Safety data – absence of local reactions during OIT for food allergy (only RCTs) (random-effects model)



**Heterogeneity: τ2 = 0.166; χ2 = 39.390, df = 6 (P<0.0001); I2 =85%;**

**Test for overall effect: Z = 3.832 (P<0.0001)**

Fig S24: Safety data – absence of local reactions during OIT for CMA (random-effects model)



**Heterogeneity: τ2 = 0.230; χ2 = 7.886, df = 3 (P<0.048); I2 =62%;**

**Test for overall effect: Z = 3.990 (P<0.0001)**

Fig S25: Safety data – absence of local reactions during OIT for CMA (only RCTs) (random-effects model)



**Heterogeneity: τ2 = 0.319; χ2 = 6.552, df = 2 (P<0.038); I2 =69%;**

**Test for overall effect: Z = 2.966 (P<0.003)**

Fig S26: Safety data – absence of local reactions during OIT for HEA (random-effects model)



**Heterogeneity: τ2 = 0.085; χ2 = 16.513, df = 3 (P<0.001); I2 =81%;**

**Test for overall effect: Z = 2.432 (P<0.015)**

Fig S27: Safety data – absence of local reactions during OIT for food allergy. RR, risk ratio (AIT protocol: Conventional)



**Heterogeneity: τ2 = 0.370; χ2 = 28.715, df = 5 (P<0.0001); I2 =82%;**

**Test for overall effect: Z = 3.256 (P<0.001)**

Fig S28: Safety data – absence of local reactions during OIT for food allergy. RR, risk ratio (AIT protocol: Rush) (random-effects model)



**Heterogeneity: τ2 = 0.921; χ2 = 15.657, df = 1 (P<0.0001); I2 =94%;**

**Test for overall effect: Z = 1.146 (P<0.252)**