Table C-14. Study characteristics of pest control study

| Study | Intervention | Allergen(s) | Study Design | Demographic Factors | Clinical Factors |
| --- | --- | --- | --- | --- | --- |
| Rabito et al. 201636 | ***Arm 1:*** Insecticide bait placed throughout home by pest control professionals  ***Arm 2:*** No intervention | Bla g 1  Bla g 2 | ***Type of study:***RCT  ***Population:*** 102  ***Attrition:***NR  ***Setting:*** Home  ***Country:*** United States  ***Followup:*** 1 year | ***Age***, mean (SD): 9.3 years  Range of eligible patients: 5 to 17  ***% Male***: 65%  ***Race:***  Black: 62%  Hispanic: 30%  Other: 8%  ***Homeownership:***  74% of insecticide arm lived in detached houses, but 54% of control arm lived in multifamily dwellings  ***Geographic environment***: Urban | ***Sensitization*** (serum IgE):  Cockroach allergen: 27%  HDM allergen: 50%  Mouse allergen: 12%  At least 1 allergen: 64%  2 or more allergens: 58%  ***Asthma severity:*** All patients moderate to severe  ***Comorbidity:*** NR  ***Carpet in home:*** NR  ***Pets in home:*** NR  ***Smoker in home:*** 35% |
| Levy et al. 200637 | Intervention consisted of one-time deep cleaning, including HEPA vacuuming, setting traps, sealing rodent access points, replacement of mattresses, education about kitchen hygiene and food storage, reducing clutter, and communicating with housing authority and pest contractors | Bla g 1  Bla g 2  Can f 1  Der f 1  Der p 1  MUP  Alternaria | ***Type of study:***Pre-post  ***Population:*** 78 enrolled  Competed: 50 (41 households)  ***Attrition:***35.9%  ***Setting:*** Home  ***Country:*** United States  ***Followup:*** Up to 66 weeks | ***Age,*** mean:  Intervention: 7.5 years  Control: 7.6 years  Range: 4 to 17  ***% Male:***  Intervention: 58%  Control: 67.1%  ***Race:***  Hispanic: 70%  African American: 28%  Caucasian: 2%  ***Homeownership:*** Public housing  ***Geographic environment:***Urban | ***Sensitization***(skin prick test positive):  Any allergen: 77%  Cockroach allergen: 58%  HDM: 60%  ***Asthma severity:***  Baseline symptoms reported graphically  ***Comorbidity:***NR |

Bla g 1, Bla g 2=*Blatella germanica* cockroach allergens; Can f 1=*Canis* *familiaris* dog allergen; Der f 1=*dermatophagoides farina* house dust mite allergen; Der p 1=*Dermatophagoides* *pteronyssinus* house dust mite allergen; Fel d 1=*Felis* *domesticus* cat allergen; IgE=immunoglobulin E; HDM=house dust mite; HEPA=high-efficiency particulate air-filtration; MUP=mouse urinary protein; NR=not reported