Table C-8. Study characteristics of HEPA vacuum study

| Study | Intervention | Allergen(s) | Study Design | Demographic Factors | Clinical Factors |
| --- | --- | --- | --- | --- | --- |
| Popplewell et al. 200017 | ***Arm 1:*** High-efficiency (Electrolux) vacuum***Arm 2:*** Standard model (Electrolux) vacuumParticipants instructed to vacuum sofa, mattress, living room, and bedroom carpet at least once per week | Cat: Fel d 1Dog: Can f 1Dust mite: Der p 1 | ***Type of study:***RCT***Population:***60 21 children, 39 adults***Attrition:***15%***Setting:*** Home***Country:*** United Kingdom***Followup:*** 1 year | ***Age,*** mean: NRRange: Children: 5 to 15 years Adults: 22 to 63 years***% Male:*** NR***Race:***NR***Homeownership:*** NR***Geographic environment:***NR | ***Sensitization*** (skin prick positive test):100% house dust mite10 of 15 cat owners sensitized to cat8 participants owned a dog, none described as sensitized to dog***Asthma severity:*** NR***Comorbidity:*** NR ***Pet owners:*** 30% |

Can f 1=*Canis* *familiaris* dog allergen I; Der p 1=*Dermatophagoides* *pteronyssinus* house dust mite allergen; Fel d 1=*Felis* *domesticus* cat allergen 1; HEPA=high=efficiency particulate air-filtration; NR=Not reported; RCT=randomized controlled trial