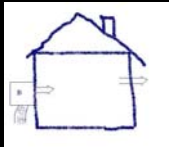




WP3.2 AstmaVen

Removal of house dust mites by means of increased ventilation






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Objectives

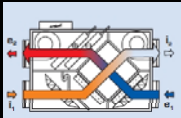
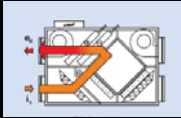


To investigate the effect of increased ventilation on:

- Removal of house dust mites
- Symptoms and medication intake among asthmatic children sensitized to HDM

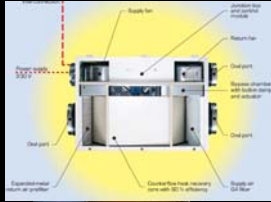





Methods



- 9 months intervention in 80 single family houses
- 40 homes with real intervention
 - air change rate increased from normal to approx. $3h^{-1}$
 - ventilation units provide air to child's bedroom and optionally to kitchen/living room area
- 40 homes with placebo
 - just recirculation of indoor air

Methods

- Measurements:
 - Air change rate
 - Average – PFT
 - Spot – decay of tracer gas
 - Concentration of CO_2
 - Temperature
 - Relative humidity
 - Particles – spot measurements
- HDM, allergens
- Health outcomes

Time schedule

- 40 homes in 2011/2012 (20 intervention and 20 placebo)
- 40 homes in 2012/2013
- We just got the Ethical Approval – so we are starting now!
- Coming soon:
 - Selection of the children
 - Installation of ventilation units in their homes