

Preliminary results from the August 2004 survey

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NIOSH 2004 Study

- Health Assessment – Questionnaires and objective medical testing
- Building Assessment –Dust sampling for mold and other biomass indicators

Questions

- Has there been recent onset of physician-diagnosed respiratory disease or recent onset of symptoms?
 - For employees with longer tenure
 - For newer employees

Definitions

- Longer tenure - occupancy before 2003
- Short tenure employees – occupancy in 2003 or 2004
- Recent onset - onset in 2003 or 2004

Post-occupancy physician-diagnosed asthma

Occupancy date	DRS	DSS	Total
Long term Before 2003	49/440 (11.0%)	20/239 (8.0%)	69/679 (10.0%)
Short term 2003-2004	0/18	1/38 (3.0%)	1/56 (2.0%)

Recent onset physician-diagnosed asthma

DRS – 5 participants with recent onset of symptoms, 5 with symptoms that started before 2003

DSS – 2 participants with recent onset of symptoms

Hypersensitivity pneumonitis diagnosis

Occupancy date	DRS	DSS
Before 2003	9/444 (2.0%)	1/244 (0.4%)
2003-2004	0/18	0/38

Recent onset hypersensitivity pneumonitis

DRS – 3 participants with diagnosis, 1 had recent onset of symptoms

DSS – No participant had recent diagnosis

Sarcoidosis diagnosis

Occupancy date	DRS	DSS
Before 2003	2/447 (0.5%)	4/243 (2.0%)
2003-2004	0/18	0/39

Recent onset sarcoidosis

DRS – 1 participant with diagnosis and recent onset of symptoms

DSS – No participant had recent diagnosis

Recent-onset disease

- 8 persons had recent onset and recent diagnosis
 - 7 new onset of asthma
 - 1 new onset of hypersensitivity pneumonitis*
 - 1 new onset of sarcoidosis

*also diagnosed with asthma

Symptoms attributed to building occupancy - comparison between 2001 and 2004 surveys

Agency	2001	2004
DRS	347/497 (70%)	259/454 (57%)
DSS	192/353 (54%)	158/276 (57%)

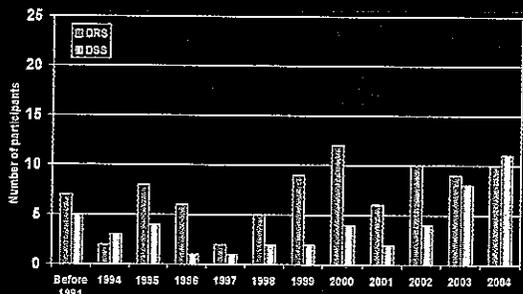
Symptoms attributed to building occupancy – 2004 survey

Occupancy date	DRS	DSS
Before 2003	252/428 (59%)	137/230 (60%)
2003-2004	3/18 (17%)	18/39 (46%)

Wheeze that improved when away from the building

Occupancy date	DRS	DSS
Before 2003	91/443 (21%)	47/244 (19%)
2003-2004	0/18	7/39 (18%)

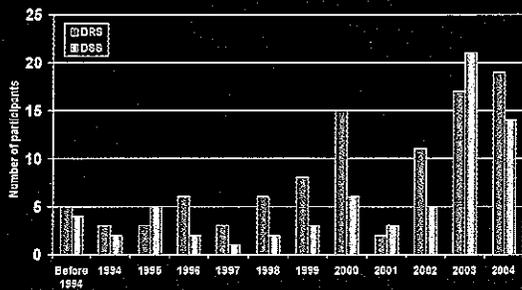
Onset of wheeze that improved when away from the building



Coughing attacks that improved when away from the building

Occupancy date	DRS	DSS
Before 2003	105/440 (24%)	70/241 (29%)
2003-2004	0/18	8/39 (21%)

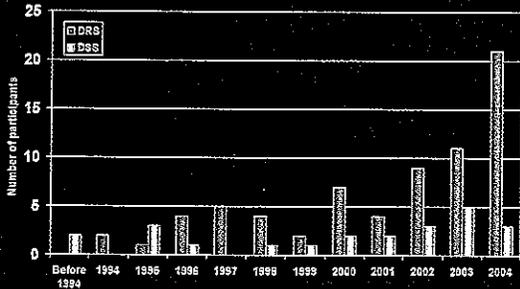
Onset of coughing attacks that improved when away from the building



Rashes that improved when away from the building

Occupancy date	DRS	DSS
Before 2003	71/441 (16%)	26/241 (11%)
2003-2004	0/18	4/39 (10%)

Onset of rashes that improved when away from the building



Recent onset symptoms.

- Participants report symptoms that they attribute to the building
- Many symptoms get better when away from building
- Reports of symptom onset in 2003 and 2004

Breathing test results 2002-2004

- Same status - 92 participants remained normal, 15 remained abnormal
- Changed status - 4 became normal, 9 became abnormal

Methacholine Challenge/Bronchodilator Results 2002-2004

- Same status – 70 participants remained normal, 11 remained abnormal
- Changed status - 5 became normal, 3 became abnormal

Summary

- 8 new onset cases of physician-diagnosed respiratory disease in 2003-2004
- Reports of building-related symptoms continue in long term employees including recent onset
- Short term DRS employees do not report symptoms
- Short term DSS employees have similar symptom rates to long term employees
- Medical testing documents some participants improving but also some worsening

Discussion points

- Continuing health risk especially for long term employees
- Management of affected employees
- Medical surveillance needs
- Additional building assessment needs
- Environmental management options
