

The HERTSMI Method for Mold in Surface Dust

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Assessing HERTSMI Scores

- **HERTSMI scores are calculated based on concentration ranges for five fungi:**
 - *Aspergillus penicillioides*
 - *Aspergillus versicolor*
 - *Chaetomium globosum*
 - *Stachybotrys chartarum*
 - *Wallemmbia sebi*
- **HERTSMI scores may be used to assess the potential for “adverse health effects” experienced by sensitized individuals**

Slide 2

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HERTSMI Method

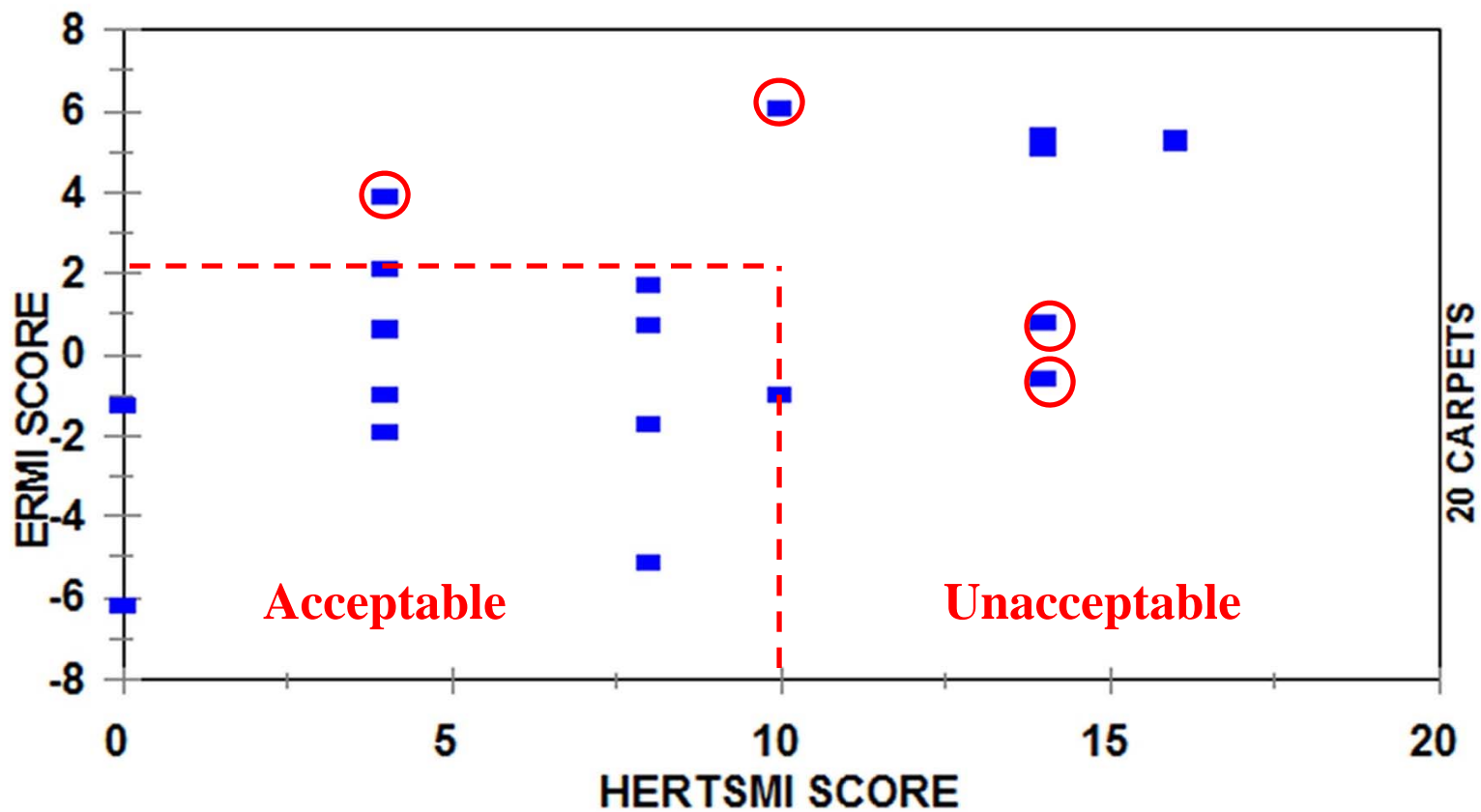
HERTSMI Fungi	4 Points	6 Points	10 Points
• <i>Aspergillus penicilloides</i>	10-99	100-499	➤ 500
• <i>Aspergillus versicolor</i>	10-99	100-499	➤ 500
• <i>Chaetomium globosum</i>	5-24	25-124	➤ 125
• <i>Stachybotrys chartarum</i>	5-24	25-124	➤ 125
• <i>Wallemmbia sebi</i>	100-499	500-2499	➤ 2,500

<i>Asp versicolor</i>	300	6	50	4
<i>Chaetomium</i>	500	10	100	6
<i>Stachybotrys</i>	10	4	3	0
HERTSMI		20		10

≤ 10	Acceptable
≥ 15	Unacceptable

ERMI SCORE v HERTSMI SCORE

QPCR ANALYSIS OF CARPET DUST



Disagree: 4 of 18 samples (22%)

HERTSMI Fungi: Percent of Samples

	<i>A pen</i>	<i>A ver</i>	<i>Chaet</i>	<i>Stachy</i>	<i>Wall</i>
Carpets	92%	36%	26%	74%	59%
Soft Surfaces	86%	0%	14%	14%	71%
Clothing	83%	17%	0%	17%	33%
Hard Surfaces	22%	22%	33%	44%	22%
Air Return	60%	100%	50%	90%	60%
Air Supply	69%	19%	63%	44%	38%

First, HERTSMI scores are not surface-specific

Second, 40 % to 60% of the five fungi [red boxes] were not commonly detected on three of the six surfaces

HERTSMI: Percent of Total Fungi

Health assessment based on max of 3% of the sample

	<i>A pen</i>	<i>A ver</i>	<i>Chaet</i>	<i>Stachy</i>	<i>Wall</i>	SUM
Carpets	0.4%	0.4%	1.4%	0.6%	0.2%	3.0 %
Soft Surfaces	0.6%				0.5%	1.1 %
Clothing	0.7%				0.9%	1.6 %
Hard Surfaces		0.2%		0.1%		0.3 %
Air Return		0.2%			0.1%	0.3 %
Air Supply			0.1%			0.1 %

Percentages of the total concentrations of the five HERTSMI fungi compared to the total concentration of the 36 ERMI fungi.