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Official Abstract Form

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- 4	Start Shedding of fungal spores by hospital personnel. Burns, D.,* Streifel, A.J., Juni, B., Rhame, F.S. University of	
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6 50	Nosocomial filamentous fungal infection in immunodeficient patients results from airborne fungal spores. Indoor spore sources	
	subvert illtration systems. We quantified human fungal spore	
	shedding in a rigorously cleaned, vertical flow, HEPA filtered 17m clean room (CR). Air samples were collected on inhibatory mold	
	agar using a 700L/min Casella air sampler. Plates were incubated at 25°C and counted at 48 hr. Pathogenic species were identified	
	at least to the genus level. The sampler vacuum was isolated in a separate HEPA filtered box. During operation CR air is spore free; with the fans off 12 1.4m samples had a mean of 1.0 fungal CFU	50
	(range 0-3); vigorously shaking the freshly washed walking mat for	
n 1 552 n	5 min produced levels of 7 and 9 CFU/1.4m, respectively. 56 trials (T) of 34 people were performed. With the fans off,	
ic p-uitt	subjects walked in a 1m circle for 5 min then gently patted their	
Χ.	clothes (ankles to shoulders) for 2 min. Mean total shed CFIL pro-	
	Suming a zero baseline, were respectively, 38 T of 32 oncology and	
	marrow transplant ward personnel: 850 CFU: 15 T of 2 persons in	
	street clothes during the 3rd day of wear: 1700 CFU; and 5 T of a	
	person in fresh operating room garb: 522 CFU. Fusarium and phycomycetes were recovered from 18% and 20% of the samples. No	
× ,	Aspergillus flavus or fumigatus were recovered.	
	Hospital personnel shed pathogenic fungal spores although the	¥5
	shedding rate should broduce only a very small increase in analy	2
	levels in most nospital wards. Shedding rates were influenced by	55
	the time since last clothes laundering.	
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