

A case-based update

## "I can't stand this smell!"

Karen Binkley, MD, FRCPC

L	Age: 35	
	Presentation: Presents concerned she is allergic to various chemical smells.	
	$\sqrt{}$ Over the past year and a half, has had symptoms of chest tightness, shortness of breath,	
	lightheadedness, dizziness and mental confusion, which have now progressed to weakness,	
	shaking, sweating, palpitations, nausea, and occasional numbness and swelling of lips	
	and fingers.	
	Precipitating factors include perfumes, cologne, potpourri, scented candles, solvents, cleaning	
	agents, cigarette smoke and vehicle exhaust.	
	$\checkmark$ Patient no longer goes into certain stores if scented products are present and has discontinued	
	wearing scented items.	
	$\sqrt{}$ Often has to leave her home for several hours while the cleaning is completed.	
	$\sqrt{}$ Has difficultly going on subways because of proximity to individuals wearing scented	
	products and in traffic due to exposure to vehicle exhaust.	
	Past history is remarkable for an episode of depression in her 20s.	
	Is not taking any medication and has no known drug allergies.	
	$\sqrt{}$ Increasing levels of stressors over the past year due to marriage difficulties and financial	
	concerns; has mood swings and increased irritability.	
	Has been sleeping poorly; often wakes early and finds sleep is not refreshing.	
	√ At work, attributes symptoms to "off gassing" from magic markers and scented products used	
	by students and colleagues; has refused to work in a particular classroom because she believe	
	the new carpet is "off gassing."	
	Some of her colleagues have reported similar symptoms; a few of these individuals been told	
	they are allergic to various chemicals, foods and electromagnetic radiation.	
	Is otherwise well and physical exam is unremarkable.	

Differential diagnosis:
√ Asthma with response to minor airborne irritants.
√ Panic attacks triggered by psychologically conditioned olfactory stimuli (smells).
√ Although asthma would not explain all of this patient's symptoms, it should be considered as
potentially contributing to some of her symptoms.
√ Routine blood work excludes other contributing conditions, such as thyroid disease and
hypercalcemia.
Further investigations:
√ The patient is referred to an allergist for further investigation.
√ She undergoes allergy skin prick testing to exclude the possibility of sensitization to
aeroallergens; results are all negative.
✓ Complete pulmonary function testing, including a methacholine challenge, is normal and
excludes a diagnosis of asthma in this case.
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✓ The patient is referred to a psychiatrist, who confirms the presence of panic attacks.
√ The panic attacks are triggered by psychologically conditioned olfactory stimuli.
✓ In addition to classic symptoms of panic, the patient exhibits anticipatory anxiety and phobic
avoidance of her purported triggers.
√ She undergoes stress management counselling, relaxation training and is treated with a serotonin
reuptake inhibitor.
√ Once symptoms are under control, she undergoes psychologic desensitization, consisting of
controlled, graded increased exposure to perfumes; she tolerates this well and is able to return to
normal activities. Dx
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iences Centre, Toronto, Ontario.