

Fire and Smoke Inhalation v1
Definition Factsheet & Technical Brief

To identify emergency department and ambulatory care visits associated with fire and smoke inhalation. Primary purpose of query is for wildfire surveillance, although the query may return visits not limited to wildfires. Using this query in combination with air quality trends may further assist with surveillance efforts. It was developed by the NSSP Community of Practice in collaboration with the Council of State and Territorial Epidemiologists and the National Center for Environmental Health.

New or Revised Definition: New

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Authored by the NSSP Community of Practice.

Table 1. Inclusion and exclusion terms.

Terms		Description
<i>Inclusion</i>		
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)		
J70.5		Respiratory conditions due to smoke inhalation
X08.8		Exposure to other specified smoke, fire and flames
X01.1		Exposure to smoke in uncontrolled fire, not in building or structure
T59.81		Toxic effect of smoke
International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)		
508.2		Respiratory conditions due to smoke inhalation
E898.1		Accident caused by other burning materials
E892		Conflagration not in building or structure
SNOMED Concepts		
423123007		Burn caused by fire
426936004		Smoke inhalation injury (disorder)
217486005		Uncontrolled fire in forest (event)
217485009		Conflagration not in building or structure (event)
242462007		Accident caused by fire in standing farm crops (event)
217487001		Uncontrolled fire in grass (event)
217488006		Uncontrolled fire in hay (event)
217491006		Uncontrolled fire on prairie (event)
217489003		Uncontrolled lumber fire (event)
Chief Complaint		

Terms	Description
wild fire	
wildfire	
smoke	
smoke	
<i>Exclusion</i>	
Chief Complaint	
a smoke	
to smoke	
alarm	
can smoke	
denies smoke	
detector	
did smoke	
does not smoke	
does smoke	
go and smoke	
go smoke	
he smoke	
husband smoke	
n_t smoke	
never smoke	
no smoke	
or smoke	
out and smoke	
outside and smoke	
secondhand	
second hand	
smoke bomb	
smoke shop	
smoke week	

Terms	Description
smoke[drs]	
^smoke^a lot^	
they smoke	
upstairs and smoke	
was smoking	
wife smoke	
without smoke	
blunt	
joint	
canab	
vape	
cannab	
cig	
crack	
her[io][oi]n	
k2	
marij	
meth	
pot	
spice	
tobac	
weed	
normal saline	
on fire	
cooking	
kitchen	
stove	
oven	
motor [bc]	
motor[bc]	

Terms	Description
Chief Complaint – Nested Together with AND	
motor vehicle	
collision	
accident	
crash	

Table 2. ESSENCE syntax.

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(,^[; / ]J70.5^,or,^[; / ]J705^,or,^[; / ]X08.8^,or,^[; / ]X088^,or,^[; / ]X01.1^,or,^[; / ]X011^,or,^[; / ]T59.81^,or,^[; / ]T5981^,or,^[; / ]423123007[; / ]^,or,^[; / ]508.2^,or,^[; / ]5082[; / ]^,or,^[; / ]E898.1^,or,^[; / ]E8981^,or,^[; / ]E892^,or,^[; / ]426936004[; / ]^,or,^[; / ]217486005[; / ]^,or,^[; / ]217485009[; / ]^,or,^[; / ]242462007[; / ]^,or,^[; / ]217487001[; / ]^,or,^[; / ]217488006[; / ]^,or,^[; / ]217491006[; / ]^,or,^[; / ]217489003[; / ]^,or,^[; / ]426936004[; / ]^,or,^wild fire^,or,^wildfire^,or,(,^smoke ^,or,^smoke,),andnot,(^ a smoke^,or,^ to smoke^,or,^alarm^,or,^can smoke^,or,^denies smoke^,or,^detector^,or,^did smoke^,or,^does not smoke^,or,^does smoke^,or,^go and smoke^,or,^go smoke^,or,^he smoke^,or,^husband smoke^,or,^n_t smoke^,or,^never smoke^,or,^no smoke^,or,^or smoke^,or,^out and smoke^,or,^outside and smoke^,or,^secondhand^,or,^second hand^,or,^smoke bomb^,or,^smoke shop^,or,^smoke week^,or,^smoke[drs]^,or,^smoke^a lot^,or,^they smoke^,or,^upstairs and smoke^,or,^was smoking^,or,^wife smoke^,or,^without smoke^,or,^blunt^,or,^joint^,),),andnot,(^canab^,or,^vape^,or,^cannab^,or,^cig^,or,^crack^,or,^her[io][oi]n^,or,!k2!,or,^marij^,or,!meth!,or,!pot!,or,^spice^,or,^tobac^,or,^weed^,or,^normal saline^,or,^ on fire^,or,^cooking^,or,^kitchen^,or,!stove!,or,!oven!,or,^motor [bc]^,or,^motor[bc]^,or,(,^motor vehicle^,and,(,^collision^,or,^accident^,or,^crash^,),),)
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