

Description: This is a Syndrome Definition Committee community-developed syndrome definition for mental health conditions likely to increase in emergency department frequency during and after natural or human-caused disaster events. This syndrome definition attempts to leverage only mental health conditions and presentations that showed increases in visit frequency after select disasters in the United States. There are no disaster-related terms inherent to this query, rather the SDC decided to leave it to the user to leverage event-specific terms. SDC members reviewed mental health presentations and selected possible post-disaster ED presentations captured in syndromic data across the USA. ICD10 codes were reviewed for conditions related to Stress, Anxiety, Phobic Anxiety, Acute PTSD, and Panic. PTSD and Phobic Anxiety were not included after initial review. Syndromes were developed for Stress, Anxiety, and Panic; all starter syndromes were based on relevant ICD10 codes. These initial syndromes were reviewed for relevant Chief Complaint terms contained in these ICD10-positive visits. Other Chief Complaint terms were identified from existing syndromes shared by the community and CDC. Volunteers with historical syndromic surveillance data during a disaster were asked to review trendlines relative to the disaster along with a line-level review to determine highly relevant and false positive terms. The syndrome was tested on data during and after a hurricane, flood, earthquake and a mass shooting event. The SDC designed the query to pull ICD10 codes and key Chief Complaint terms from the CCDD field. The ICD10 code F41.9, Anxiety disorder, unspecified was not included due to the large volume of visits with this diagnosis code.

SDC Disaster Related Mental Health v1
Definition Factsheet & Technical Brief

New or Revised Definition: New

Date Created in ESSENCE: January 8, 2020

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)	
F41.0	Panic disorder [episodic paroxysmal anxiety]
F41.1	Generalized anxiety disorder
F41.3	Other mixed anxiety disorders
F41.8	Other specified anxiety disorders
F43.0	Acute stress reaction
F43.8	Other reactions to severe stress
F43.81	Prolonged grief disorder
F43.89	Other reactions to severe stress
F43.9	Reaction to severe stress, unspecified
R45.7	State of emotional shock and stress, unspecified
Chief Complaint	
overwhelm	
Chief Complaint – Stress Branch with Nested ANDNOT	

Terms	Description
[/ ;.]stress	
stress	
Chief Complaint	
anxiety	
anxi[ou][ou]s	
anxiety	
axiety	
anexiy	
aniexty	
ansiety	
anxety	
anxity	
nerv[ou][ou]s	
panic	
mental health	
MH eval	
MHE	
situational crisis	
crisis eval	
Chief Complaint – Nested Together with AND	
Psych	
eval	
consult	
Exclusion	
Chief Complaint – Nested Exclusion for Stress Branch	
stress test	
fetal stress	
stress fracture	
stressfracture	

Table 2. ESSENCE syntax.

^[/]F41.[0138]^,or,^[[/]F41[0138]^,or,^[[/]F43.
 [089]^,or,^[[/]F43[089]^,or,^[[/]r45.7^,or,^[[/]r457^,or,^overwhelm^,or,(^[[/ ;.]stress^,or,stress^,.)andnot,(^stress
 test^,or,^fetal stress^,or,^stress fracture^,or,^stressfracture^,.)or,^anxiety^,or,^anxi[ou]
 [ou]s^,or,^anxiety^,or,^axiety^,or,^anexiy^,or,^aniexty^,or,^ansiety^,or,^anxety^,or,^anxity^,or,^nerv[ou]
 [ou]s^,or,^panic^,or,^mental health^,or,^MH eval^,or,^MHE^,or,^situational crisis^,or,^crisis eval^,or,
 (^Psych^,and,(^eval^,or,^consult^,.)