THE SAFETY ASSESSMENT CODE (SAC) MATRIX

The Severity Categories and the Probability Categories that are used to develop the Safety Assessment Codes (SACs) for adverse events and close calls are presented in the following, and are followed by information on the SAC Matrix.

1. SEVERITY CATEGORIES

a. Key factors for the severity categories are extent of injury, length of stay, level of care required for remedy, and actual or estimated physical plant costs. These four categories apply to actual adverse events and potential events (close calls). For **actual adverse events**, assign severity based on the patient's actual condition.

b. If the event is a **close call**, assign severity based on a reasonable "worst case" systems level scenario. *NOTE:* For example, if you entered a patient's room before they were able to complete a lethal suicide attempt, the event is catastrophic, because the reasonable "worst case" is suicide.

Catastrophic	Major		
Patients with Actual or Potential:	Patients with Actual or Potential:		
Death or major permanent loss of function (sensory, motor,	Permanent lessening of bodily functioning (sensory, motor,		
physiologic, or intellectual) not related to the natural course of	physiologic, or intellectual) not related to the natural		
the patient's illness or underlying condition (i.e., acts of	course of the patient's illness or underlying conditions		
commission or omission). This includes outcomes that are a	(i.e., acts of commission or omission) or any of the following:		
direct result of injuries sustained in a fall; or associated with an	a. Disfigurement		
unauthorized departure from an around-the-clock treatment	b. Surgical intervention required		
setting; or the result of an assault or other crime. Any of the	c. Increased length of stay for three or more patients		
adverse events defined by the Joint Commission as reviewable	d. Increased level of care for three or more patients		
"Sentinel Events" should also be considered in this category (see App. A, subpar. 1b).	Visitors: Hospitalization of one or two visitors		
Visitors: A death; or hospitalization of three or more visitors	Staff: Hospitalization of one or two staff or three or more		
Staff: A death or hospitalization of three or more staff*	staff experiencing lost time or restricted duty injuries or		
Fire : Any fire that grows larger than an incipient stage [‡]	illnesses		
<u>The</u> . This file that grows harger than an incipient stage			
	Equipment or facility: Damage equal to or more than \$100,000***		
Moderate	Minor		
Patients with Actual or Potential: Increased length of stay or	Patients with Actual or Potential: No injury, nor increased		
increased level of care for one or two patients	length of stay nor increased level of care		
Visitors: Evaluation and treatment for one or two visitors (less	Visitors: Evaluated and no treatment required or refused		
than hospitalization)	treatment		
Staff: Medical expenses, lost time or restricted duty injuries or	Staff: First aid treatment only with no lost time, nor		
illness for one or two staff	restricted duty injuries nor illnesses		
Equipment or facility: Damage more than \$10,000, but less than	Equipment or facility: Damage less than \$10,000 or loss of		
\$100,000*** *	any utility without adverse patient outcome (e.g., power,		
<u>Fire</u> – Incipient stage or smaller [‡]	natural gas, electricity, water, communications, transport, heat		
	and/or air conditioning)**', •		

*Title 29 Code of Federal Regulations (CFR) 1960.70 and 1904.8 requires each Federal agency to notify the Occupational Safety and Health Administration (OSHA) within 8 hours of a work-related incident that results in the death of an employee or the in-patient hospitalization of three or more employees. Volunteers are considered to be non-compensated employees.

**The Safe Medical Devices Act of 1990 requires reporting of all incidents in which a medical device may have caused or contributed to the death, serious injury, or serious illness of a patient or another individual.

^{*} An incipient fire is a fire that is smaller than a burning waste paper basket. It is easily extinguished by using a single portable fire extinguisher (or equivalent) and it is not necessary to take evasive action (stooping, etc.) when approached to avoid heat or smoke.

[•]The effectiveness of the facilities disaster plan must be critiqued following each implementation to meet the The Joint Commission's Environment of Care Standards.

VHA HANDBOOK 1050.01 APPENDIX B

2. PROBABILITY CATEGORIES

a. Like the severity categories, the probability categories apply to actual adverse events and close calls.

b. In order to assign a probability rating for an adverse event or close call, it is ideal to know how often it occurs <u>at your facility</u>. Sometimes the data will be easily available because they are routinely tracked (e.g., falls with injury, Adverse Drug Events (ADEs), etc.). Sometimes, getting a feel for the probability of events that are not routinely tracked will mean asking for a quick or informal opinion from staff most familiar with those events. Sometimes it will have to be your best educated guess.

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c. In order to assign a probability rating for an adverse event or close call, it is ideal to know how often it occurs <u>at your facility</u>. Sometimes the data is easily available because the events are routinely tracked (e.g., falls with injury, ADEs, etc.). Sometimes, getting a feel for the probability of events that are not routinely tracked will mean asking for a quick or informal opinion from staff most familiar with those events. Sometimes it will have to be the best educated guess.

- (1) Frequent Likely to occur immediately or within a short period (may happen several times in 1 year).
- (2) Occasional Probably will occur (may happen several times in 1 to 2 years).
- (3) Uncommon Possible to occur (may happen sometime in 2 to 5 years).
- (4) **Remote** Unlikely to occur (may happen sometime in 5 to 30 years).

3. How the Safety Assessment Codes (SAC) Matrix Looks

Probability and Severity	Catastrophic	Major	Moderate	Minor
Frequent	3	3	2	1
Occasional	3	2	1	1
Uncommon	3	2	1	1
Remote	3	2	1	1

4. <u>How the SAC Matrix Works.</u> When a severity category is paired with a probability category for either an actual event or close call, a ranked matrix score (3 = highest risk, 2 = intermediate risk, 1 = lowest risk) results. These ranks, or SACs, can then be used for doing comparative analysis and for deciding who needs to be notified about the event.

5. <u>Reporting</u>

a. All known reporters of events, regardless of SAC score (one, two, or three), must receive appropriate and timely feedback.

b. The Patient Safety Manager, or designee, must refer adverse events or close calls related solely to staff, visitors, or equipment and/or facility damage to relevant facility experts or services on a timely basis, for assessment and resolution of those situations.