

# USAMRIID INCIDENTS IN BSL-3 & 4 Laboratories: 2010 and 2011

	2010		2011	
Incident Type	BSL-3	BSL-4	BSL-3	BSL-4
Occupational Illness	0	0	0	0
Biological Spill/Leak within Laboratory	6 <sup>(2)</sup>	1 <sup>(0)</sup>	11 <sup>(5)</sup>	0
Chemical Leak or Spill	0	0	4 <sup>(0)</sup>	0
Positive Pressure Encapsulating Suit (non-glove) Mishap	0	2 <sup>(2)</sup>	0	9 <sup>(1)</sup>
Positive Pressure Encapsulating Suit - Glove Mishap	0	2 <sup>(1)</sup>	0	16 <sup>(0)</sup>
Equipment Malfunction (Does not include Positive Pressure Encapsulating Suit/Glove Mishaps)	14 <sup>(9)</sup>	1 <sup>(0)</sup>	3 <sup>(2)</sup>	2 <sup>(0)</sup>
Splash – Potential Skin Contact (Includes all biologicals)	2 <sup>(2)</sup>	0	2 <sup>(1)</sup>	0
Contusions/Abrasions	3 <sup>(0)</sup>	0	1 <sup>(0)</sup>	1 <sup>(0)</sup>
Burn (Includes thermal and electrical)	0	0	0	0
Lifting/Bending	1 <sup>(0)</sup>	0	1 <sup>(0)</sup>	0
Lacerations	5 <sup>(0)</sup>	0	8 <sup>(1)</sup>	1 <sup>(0)</sup>
Needlestick	3 <sup>(2)</sup>	0	1 <sup>(0)</sup>	0
Slips/Trips/Falls	0	0	1 <sup>(0)</sup>	1 <sup>(0)</sup>
Animal Bite	0	0	0	0
Animal Scratch	0	0	0	0
Total:	34 <sup>(15)</sup>	6 <sup>(3)</sup>	32 <sup>(9)</sup>	30 <sup>(1)</sup>

For entries where a number is followed by a superscript, or smaller number in parentheses (#), this represents the total number of incidents for that category, followed by the number of incidents within that category that were assessed as Potential Biological Exposures. A superscript of zero indicates there were no PBEs for that category. A Potential Biological Exposure means that there was some risk of exposure to infectious agents and/or toxins, and that the personnel involved were placed on medical surveillance as a precaution. In all of these cases, no symptoms were reported and there were no signs of disease resulting from these incidents.

**Occupational illness**

Non-traumatic physiological harm or loss of capacity produced by systemic infection; continued or repeated stress or strain (For example, exposure to toxins, poisons, fumes); or other continued and repeated exposures to conditions of the work environment over a long period of time. Includes any abnormal physical or psychological condition or disorder resulting from an injury, caused by long-or short-term exposure to chemical, biological, or physical agents associated with the occupational environment.

(Source: Department of Army Pamphlet 385-40 Army Accident Investigations and Reporting)

**Biological Spill/Leak within Laboratory**

Accidental spills or leaks of any biological material within a laboratory. This includes dropped tissue culture plates.

(Source: USAMRIID Safety Division)

**Equipment Malfunction**

Equipment malfunctions that prompt involved personnel to seek a medical evaluation by Occupational Medicine. Equipment includes all engineering controls and personal protective equipment, with the exception of positive pressure encapsulating suit/glove mishaps. (Source: USAMRIID Safety Division)

**Contusions/Abrasions**

This type includes injuries caused by a pinch/struck against or by an object/rubs or abrasions. (Source: USAMRIID Safety Division)

**Burn**

All electrical and thermal burns. (Source: USAMRIID Safety Division)

**Lacerations**

Skin/eye lacerations that are caused by any type of sharp object. (Source: USAMRIID Safety Division)