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| --- | --- | --- | --- | --- |
| **Project Title** |  | | | **Date** |
| **Principle Investigator** |  | | | |
| **Personnel** |  | | | |
| **Is a Safety Data Sheet required?** | | YES  NO  NA | Please use this form to identify any risks and hazards associated with the protocol application with preventative measures/recommendations of mitigation. The next page has a list of factors that should be considered, and while it is not an exhaustive list, it is appropriate for most situations in veterinary environments. The third page has tools to evaluate the likelihood, severity, and risk. | |

**Risk ranking = High -**exposure to hazard likely to occur frequently **Medium -**exposure to hazard likely to occur but not frequently **Low -**exposure to hazard unlikely to occur

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| **Procedures** | **Hazards Identified** | **Hazard effect** | **Likelihood** | **Severity** | **Risk** | **Preventative Measures / Recommendations** | **likelihood** | **severity** | **Risk** |
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Physical Environment

* Clinic
* Field/Farm
* Laboratory

Identification of hazards or suspect hazards (CBRNE)

* Chemical (C)
* Biological (B)
* Radiological (R)
* Nuclear (N)
* Explosive (E)

Route(s) of potential exposure

* Aerosol/Inhalation
* Ingestion
* Direct Contact
* Fomite
* Vector/Injection

Length of exposure to hazard(s)

* Minutes
* Hours
* Days

Stability of pathogen in environment

* Unknown
* Unstable (normal environmental conditions destroy it)
* Stable (can survive in organic material for days, weeks, years)

Zoonotic potential

* Unknown
* Yes
* No

Pathogenicity to humans

* Unknown
* Not Pathogenic
* Low
* Moderate
* High

Infectious disease risk for animals

* Unknown
* Yes
* No

Pathogenicity to animals

* Unknown
* Not pathogenic
* Low
* Moderate
* High

Treatment options/effective vaccines available for animals

* Yes
* No

Treatment options/effective vaccines available for people

* Yes
* No

Training, skills, and experience of the people involved

* Novice level
* Moderate level
* Expert level

Nature of the tasks to be performed

* Routine
* Atypical

Effects of PPE in relation to heat stress, task duration, and exertion level – What are the current and predicted weather conditions

* Yes
* No

Are other environmental factors cooperative

* Yes
* No

*This checklist was developed by the staff veterinarians at The Center for Food Security & Public Health and should be used to map out potential risks and hazards associated with the protocol activity.*

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| **Likelihood** | **Risk Levels** | | | | |
| 5  Certain | 5 | 10 | 15 | 20 | 25 |
| 4  Very Likely | 4 | 8 | 12 | 16 | 20 |
| 3  Likely | 3 | 6 | 9 | 12 | 15 |
| 2  Unlikely | 2 | 4 | 6 | 8 | 10 |
| 1  Very Unlikely | 1 | 2 | 3 | 4 | 5 |
|  | 1  Near Miss | 2  Minor Injury / Environmental Spill | 3 Over 3 Day Injury | 4 Major Injury / Environmental Spill | 5 Fatality / Catastrophic Environmental Incident |
| **SEVERITY** | | | | |

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| **Risk Treatment** | | |
| **16-25** | **Extremely High** | **Unacceptable. Immediate action must be taken to manage the risk. Controls measures must be put in place which would have the effect of reducing the impact of an event or the likelihood of an event occurring. A number of different control measures may be required.** |
| **11-15** | **High** | **Very unlikely to be acceptable. Significant resources may have to be allocated to reduce the risk. Where the risk involves work in progress, urgent action should be taken.** |
| **6-10** | **Medium** | **Not normally acceptable. Efforts should be made to reduce the risk provided that this is not disproportionate. The likelihood of harm should be used as the basis for determining the need for improved control measures.** |
| **0-5** | **Low** | **Acceptable risk. No further controls or action required.** |

**Diagrammatic Representation of Risk Levels**

The following events may indicate that an assessment needs reviewing (the assessment is no longer valid);

* If there is a significant change like a new machine or new work process
* Investigation into an accident
* Information from monitoring incident report forms and absence records
* Results of safety inspections
* New information about the hazards
* Changes to legislation
* Departmental restructure
* If it is suspected that it is no longer valid – this is only valid for 7 consecutive working days