**S2 Table. Disease rankings after sensitivity analysis**

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| --- | --- | --- | --- |
| **Rank** | **Overall#** | **Equal criteria weights** | **Excluded criterion** |
| **Severity of disease in humans** | **Potential to cause an epidemic or pandemic in humans or animals** | **Availability of effective control strategies**  | **Social and economic impacts** | **Bioterrorism potential**  |
| 1 | Anthrax | Anthrax | Anthrax | Anthrax | Anthrax | Anthrax | Anthrax |
| 2 | Zoonotic Influenza viruses | Zoonotic Influenza viruses | Brucellosis | Zoonotic Influenza viruses | Zoonotic Influenza viruses | Zoonotic Influenza viruses | Zoonotic Influenza viruses |
| 3 | Ebola viruses | Brucellosis | Rift Valley fever | Ebola viruses | Ebola viruses | Plague | Trypanosomiasis |
| 4 | Brucellosis | Ebola viruses | Zoonotic Influenza viruses | Trypanosomiasis | Brucellosis | Crimean Congo Hemorrhagic Fever | Rabies |
| 5 | Rift Valley fever | Rift Valley fever | Ebola viruses | Plague | Rift Valley fever | Rabies | Ebola viruses |
| 6 | Trypanosomiasis | Plague | Trypanosomiasis | Crimean Congo Hemorrhagic Fever | Trypanosomiasis | Ebola viruses | Brucellosis |
| 7 | Plague | Trypanosomiasis | Salmonellosis | Brucellosis | Plague | Marburg | Rift Valley fever |
| 8 | Crimean Congo Hemorrhagic Fever | Crimean Congo Hemorrhagic Fever | Plague | Rift Valley fever | Crimean Congo Hemorrhagic Fever | Brucellosis | Plague |
| 9 | Rabies | Marburg | Crimean Congo Hemorrhagic Fever | Marburg | Marburg | Rift Valley fever | Crimean Congo Hemorrhagic Fever |
| 10 | Marburg | Rabies | Q-fever | Q-fever | Rabies | Trypanosomiasis | Salmonellosis |
| 11 | Salmonellosis | Q-fever | Rabies | Rabies | Listeriosis | Tularemia | Marburg |
| 12 | Q-fever | Salmonellosis | Leptospirosis | Listeriosis | Salmonellosis | Spotted fevers | Listeriosis |
| 13 | Listeriosis | Leptospirosis | Zoonotic tuberculosis | Leptospirosis | Tularemia | Tetanus | Leptospirosis |
| 14 | Leptospirosis | Listeriosis | Bovine cysticercosis | Zoonotic tuberculosis | Q-fever | Leishmaniasis | Zoonotic tuberculosis |
| 15 | Zoonotic tuberculosis | Tularemia | Hydatidosis | Bovine cysticercosis | Orf | MERS | Bovine cysticercosis |

#Final prioritized disease list for Uganda was selected by group discussion after overall results presented