

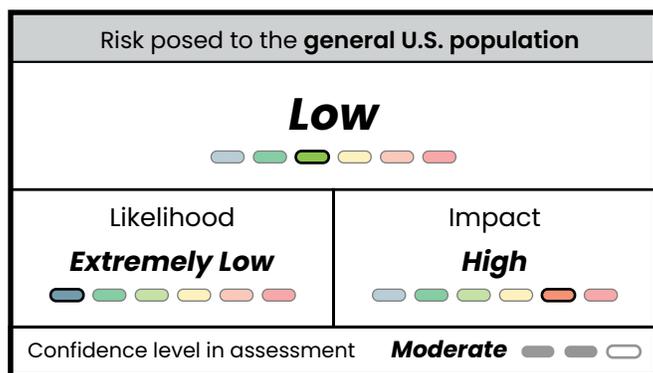
# What is a Qualitative Risk Assessment?

A qualitative risk assessment is a rapid assessment of public health implications of an outbreak that:

- Elucidates key drivers of disease spread and impact, as well as uncertainties
- Assesses risk for the general U.S. population and specific populations at higher risk or of interest to decision-makers
- Can be updated over time as new information becomes available

Risk assessments support public health and national security decision-making:

- Can be used early in an outbreak when data are limited — later integrating more data and analyses, including modeling
- Applies to any type of outbreak, facilitating risk comparison and communication across diseases



In this example risk assessment for Marburg virus disease, the likelihood is **extremely low** and the impact is **high**. The overall risk, which is a combination of likelihood and impact, is **low**. Confidence is **moderate**.

To assess risk, we determine both the **likelihood** and **impact** of an outbreak. **Confidence** in the assessment is based on the amount and quality of evidence.

## Likelihood

Probability or extent of exposure/infection across the population of interest

- Number of people exposed and/or infected
- Population prevalence of infection
- Pathogen infectiousness & population immunity against infection
- Response capacity to limit spread

## Impact

Collective impact of individual infections and other population impacts

- Disease severity
- Population immunity against severe disease
- Resources available to limit impact
- Societal impact

## Confidence

Level of confidence in the assessed risk

- Quality of evidence
- Availability and gaps in evidence
- How well lines of evidence corroborate each other

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