## Understanding Test Results for Infectious Diseases

## Consider the likelihood of disease before performing laboratory testing

## The likelihood that a patient has a

 disease depends on many factors:- Has the patient been in an area where the disease is found?
- Does the patient have signs and symptoms typical of the disease?
- Does the patient have risk factors for contracting or developing the disease?

DISEASE IS COMMON*


Negatives
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1\% FALSE NEGATIVE
1 of 60 people who tests negative has the disease

* 40 out of 100 patients in this area have the disease t 1 out of 100 patients in this area have the disease

POSITIVE TESTS
False Positives

True Positives


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3\% FALSE POSITIVE
1 of 40 people who tests positive does not have the disease

DISEASE IS RARE $\dagger$


100 people tested for the disease $\ddagger$


0\% FALSE NEGATIVE
None of the 97 people who tests negative has the disease

67\% FALSE POSITIVE
2 of 3 people who test positive do not have the disease

[^0]Division of Vector Borne Diseases | Bacterial Diseases Branch


[^0]:    National Center for Emerging and Zoonotic Infectious Diseases

