Diagnostic likelihood ratio

Margaret Pepe

Source

Diagnostic likelihood ratios are the ratios of the likelihood of the observed test result in diseased vs. non-diseased subjects. The positive diagnostic likelihood ratio (DLR+) is the ratio between the true positive fraction and the false positive fraction. The negative diagnostic likelihood ratio (DLR−) is the ratio between the false negative fraction (i.e. 1 − true positive fraction) and the true negative fraction (i.e. 1 − false positive fraction). A DLR+ > 1 indicates that a positive test is more likely in a diseased than in a non-diseased subject. A DLR− < 1 indicates that a negative test is more likely in a diseased than in a non-diseased subject.