

Table S4. Quality assessment of diagnostic accuracy studies included according to the QUADAS tool.

QUADAS items	Böhme 2012	Dunker 2012	Eggenberger 2019	Heikal 2014	Karul 2013	Lampart 2019	Natoli 2017	Nüchtern 2015	Thomas 2016	Schicho 2016	Singleton 2019
Was the spectrum of patients representative of the patients who will receive the test in practice? (Spectrum composition)	no	no	no	no	no	no	no	no	no	yes	yes
Were selection criteria clearly described? (Selection criteria)	no	yes	yes	no	yes	yes	no	yes	yes	yes	yes
Is the reference standard likely to correctly classify the target condition? (Appropriate reference standard)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Is the time period between reference standard and index test short enough to be reasonably sure that the target condition did not change between the two tests? (Disease progression bias)	no	yes	no	yes	no	yes	unclear	yes	yes	yes	yes
Did the whole sample or a random selection of the sample, receive verification using a reference standard of diagnosis? (Partial verification bias)	no	yes	yes	yes	yes	yes	no	yes	yes	yes	yes
Did patients receive the same reference standard regardless of the index test result? (Differential verification bias)	no	yes	no	yes	yes	no	no	yes	no	yes	yes
Was the reference standard independent of the index test (i.e. the index test did not form part of the reference standard)? (Incorporation bias)	no	no	yes	yes	yes	yes	no	yes	yes	yes	yes
Was the execution of the index test described in sufficient detail to permit replication of the test? (Test execution details)	no	no	no	yes	yes	no	no	yes	yes	yes	yes
Was the execution of the reference standard described in sufficient detail to permit its replication? (Reference execution details)	no	yes	no	yes	yes	no	no	yes	yes	yes	yes

Were the index test results interpreted without knowledge of the results of the reference standard? (Test review bias)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	unclear
Were the reference standard results interpreted without knowledge of the results of the index test? (Diagnostic review bias)	no	no	no	no	no	no	no	no	no	no	unclear
Were the same clinical data available when test results were interpreted as would be available when the test is used in practice? (Clinical review bias)	no	no	yes	yes	yes	yes	yes	yes	yes	yes	yes
Were uninterpretable/ intermediate test results reported? (Uninterpretable results)	no	no	no	yes	no	no	no	no	no	no	no
Were withdrawals from the study explained? (Withdrawals)	no	no	no	yes	no	no	no	no	yes	no	no