

Table 68: Test 16. Index test (Transient elastography) versus practice guideline CFLD definition[†] to detect CFLD

Number of studies (Reference)	Study design	N	Risk of bias	Inconsistency	Indirectness	Imprecision	Sensitivity % (95% CI)	Specificity % (95% CI)	Positive likelihood ratio (95% CI)	Negative Likelihood ratio (95% CI)	AUROC	Quality
Test 16. Transient elastography using Fibroscan 5.5kPa cut off in a population of adults and children												
1 (Rath 2012)	Cohort study	136	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	52.7 (95% CI: 44.9-58.9)*	82.3 (95% CI: 72.9-89.7)*	2.97 (95% CI: 1.65-5.70)*	0.58 (95% CI: 0.46-0.76)*	0.68 (95% CI: 0.59-0.77)	HIGH
Test 16. Subgroup analysis: Transient elastography using Fibroscan @ 5.5kPa cut off in a population of adults												
1 (Rath 2012)	Cohort study	61	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	55.2 (95% CI: 40.7-66.8)*	78.1 (95% CI: 65.0-88.7)*	2.52 (95% CI: 1.16-5.89)*	0.57 (95% CI: 0.38-0.91)*	0.69 (95% CI: 0.56-0.81)	HIGH
Test 16. Subgroup analysis: Transient elastography using Fibroscan @ 5.5kPa cut off in a population of children												
1 (Rath 2012)	Cohort study	75	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	53.3 (95% CI: 43.2-61.2)*	76.7 (95% CI: 61.4-88.4)*	2.29 (95% CI: 1.12-5.28)*	0.61 (95% CI: 0.44-0.93)*	0.68 (95% CI: 0.56-0.81)	HIGH

Abbreviations: AST: aminotransferase; ALT: alanine aminotransferase; AUROC: area under the curve; CFLD: cystic fibrosis liver disease; CI: confidence interval; kPA: kilopascal

†Diagnosis of CFLD was established according to published guidelines (Debray 2011) if least 2 of the following conditions on at least 2 consecutive examinations spanning a 1-year period were present: (i) Hepatomegaly (liver span >2 cm below the costal margin on the medioclavicular line) confirmed by ultrasound, (ii) 2 abnormal serum liver enzyme levels (ALT, AST, γ GT > ULN), (iii) ultrasound abnormalities other than hepatomegaly (increased, heterogeneous echogenicity, nodularity, irregular margins).

** Calculated by the NGA technical team from data available in the study report*