



Independent validation of the Enhanced Liver Fibrosis (ELF) score in the ANRS HC EP 23 Fibrostar cohort of patients with chronic hepatitis C

Submitted by Paul Calès on Sun, 06/21/2015 - 10:01

Titre	Independent validation of the Enhanced Liver Fibrosis (ELF) score in the ANRS HC EP 23 Fibrostar cohort of patients with chronic hepatitis C
Type de publication	Article de revue
Auteur	Guéchot, Jérôme [1], Trocmé, Candice [2], Renversez, Jean-Charles [3], Sturm, Nathalie [4], Zarski, Jean-Pierre [5], ANRS HC EP 23 Fibrostar Study Group [6]
Pays	Allemagne
Editeur	De Gruyter
Ville	Berlin
Type	Article scientifique dans une revue à comité de lecture
Année	2012
Langue	Anglais
Date	2012 Apr
Pagination	693-9
Volume	50
Titre de la revue	Clinical Chemistry and Laboratory Medicine
ISSN	1434-6621
Mots-clés	Adolescent [7], Adult [8], Aged [9], Biological Markers [10], Cohort Studies [11], Female [12], Hepatitis C, Chronic [13], Humans [14], Liver Cirrhosis [15], Male [16], Middle Aged [17], Prospective Studies [18], Reproducibility of Results [19], ROC Curve [20], Young Adult [21]

Résumé en anglais

BACKGROUND: The Enhanced Liver Fibrosis (ELF) score combining serum hyaluronan, N-terminal peptide of type III procollagen and tissue inhibitor of metalloproteinase-1, was reported as relevant in predicting liver fibrosis in chronic liver disease and proposed as an alternative to liver biopsy.

METHODS: We evaluated the ELF score in a cohort of chronic hepatitis C (CHC) patients included in a multicenter prospective study (ANRS HC EP 23 Fibrostar) using commercial reagents, different from those developed by the manufacturer of the Siemens ELF™ test.

RESULTS: In 512 CHC, the ELF score, using ROC curves, showed good predictive performances for severe fibrosis [AUROC=0.82; 95% confidence interval (CI) 0.78-0.86] and for cirrhosis (AUROC=0.85; 95% CI 0.81-0.90), but slightly lower for significant fibrosis (AUROC=0.78; 95% CI 0.74-0.82). The Obuchowski measure (0.81) showed that the ELF score globally performed as a marker of liver fibrosis. The ELF score predicted significant fibrosis (cut-off=9.0) with a sensitivity of 0.86, a specificity of 0.62, a positive predictive value (PPV) of 0.80 and a negative predictive value (NPV) of 0.70. For extensive fibrosis (cut-off=9.33), sensitivity was 0.90, specificity was 0.63, PPV was 0.73 and NPV was 0.85. For cirrhosis (cut-off=9.35), sensitivity was 0.83, specificity was 0.75, PPV was 0.44 and NPV was 0.95.

CONCLUSIONS: This study confirms the ELF score performance as an index to predict liver fibrosis or cirrhosis in CHC. The ELF test, using validated reagents, could be added to the health authorities approved non-invasive tests in assessing fibrosis as surrogate to liver biopsy.

URL de la notice	http://okina.univ-angers.fr/publications/ua12720 [22]
DOI	10.1515/cclm-2011-0858 [23]
Autre titre	Clin. Chem. Lab. Med.
Identifiant (ID)	22505560 [24]
PubMed	

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=4992](http://okina.univ-angers.fr/publications?f[author]=4992)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=5208](http://okina.univ-angers.fr/publications?f[author]=5208)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=5209](http://okina.univ-angers.fr/publications?f[author]=5209)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=4994](http://okina.univ-angers.fr/publications?f[author]=4994)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=4993](http://okina.univ-angers.fr/publications?f[author]=4993)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=6189](http://okina.univ-angers.fr/publications?f[author]=6189)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=1214](http://okina.univ-angers.fr/publications?f[keyword]=1214)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=1002](http://okina.univ-angers.fr/publications?f[keyword]=1002)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=1072](http://okina.univ-angers.fr/publications?f[keyword]=1072)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=6065](http://okina.univ-angers.fr/publications?f[keyword]=6065)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=9910](http://okina.univ-angers.fr/publications?f[keyword]=9910)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=1075](http://okina.univ-angers.fr/publications?f[keyword]=1075)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=8572](http://okina.univ-angers.fr/publications?f[keyword]=8572)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=5940](http://okina.univ-angers.fr/publications?f[keyword]=5940)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=968](http://okina.univ-angers.fr/publications?f[keyword]=968)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=5941](http://okina.univ-angers.fr/publications?f[keyword]=5941)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=6044](http://okina.univ-angers.fr/publications?f[keyword]=6044)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=6705](http://okina.univ-angers.fr/publications?f[keyword]=6705)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=12914](http://okina.univ-angers.fr/publications?f[keyword]=12914)

- [21] [http://okina.univ-angers.fr/publications?f\[keyword\]=6036](http://okina.univ-angers.fr/publications?f[keyword]=6036)
- [22] <http://okina.univ-angers.fr/publications/ua12720>
- [23] <http://dx.doi.org/10.1515/cclm-2011-0858>
- [24] <http://www.ncbi.nlm.nih.gov/pubmed/22505560?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)