



Including osteoprotegerin and collagen IV in a score-based blood test for liver fibrosis increases diagnostic accuracy

Submitted by Paul Calès on Sun, 06/21/2015 - 09:55

Titre	Including osteoprotegerin and collagen IV in a score-based blood test for liver fibrosis increases diagnostic accuracy
Type de publication	Article de revue
Auteur	Bosselut, Nelly [1], Taibi, Ludmia [2], Guéchet, Jérôme [3], Zarski, Jean-Pierre [4], Sturm, Nathalie [5], Gelineau, Marie-Christine [6], Poggi, Bernard [7], Thoret, Sophie [8], Lasnier, Elisabeth [9], Baudin, Bruno [10], Housset, Chantal [11], Vaubourdolle, Michel [12]
Organisme	ANRS HCEP 23 Fibrostar Group [13]
Pays	Pays-Bas
Editeur	Elsevier
Ville	Amsterdam
Type	Article scientifique dans une revue à comité de lecture
Année	2013
Langue	Anglais
Date	2013 Jan 16
Pagination	63-8
Volume	415
Titre de la revue	Clinica Chimica Acta
ISSN	0009-8981
Mots-clés	Adult [14], alpha-Macroglobulins [15], Apolipoprotein A-I [16], Aspartate Aminotransferases [17], Biological Markers [18], Collagen Type IV [19], Female [20], Hepacivirus [21], Hepatitis C, Chronic [22], Humans [23], Liver Cirrhosis [24], Male [25], Middle Aged [26], Osteoprotegerin [27], Prospective Studies [28], Research Design [29], Sensitivity and Specificity [30], Severity of Illness Index [31]

BACKGROUND: Noninvasive methods for liver fibrosis evaluation in chronic liver diseases have been recently developed, i.e. transient elastography (Fibroscan™) and blood tests (Fibrometer®, Fibrotest®, and Hepascore®). In this study, we aimed to design a new score in chronic hepatitis C (CHC) by selecting blood markers in a large panel and we compared its diagnostic performance with those of other noninvasive methods.

METHODS: Sixteen blood tests were performed in 306 untreated CHC patients included in a multicenter prospective study (ANRS HC EP 23 Fibrostar) using METAVIR histological fibrosis stage as reference. The new score was constructed by non linear regression using the most accurate biomarkers.

RESULTS: Five markers (alpha-2-macroglobulin, apolipoprotein-A1, AST, collagen IV and osteoprotegerin) were included in the new function called Coopscore®. Using the Obuchowski Index, Coopscore® shows higher diagnostic performances than for Fibrometer®, Fibrotest®, Hepascore® and Fibroscan™ in CHC. Association between Fibroscan™ and Coopscore® might avoid 68% of liver biopsies for the diagnosis of significant fibrosis.

CONCLUSION: Coopscore® provides higher accuracy than other noninvasive methods for the diagnosis of liver fibrosis in CHC. The association of Coopscore® with Fibroscan™ increases its predictive value.

Résumé en
anglais

URL de la
notice <http://okina.univ-angers.fr/publications/ua12718> [32]
DOI 10.1016/j.cca.2012.09.020 [33]
Autre titre Clin. Chim. Acta
Identifiant (ID)
PubMed 23022619 [34]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=4990](http://okina.univ-angers.fr/publications?f[author]=4990)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=4991](http://okina.univ-angers.fr/publications?f[author]=4991)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=4992](http://okina.univ-angers.fr/publications?f[author]=4992)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=4993](http://okina.univ-angers.fr/publications?f[author]=4993)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=4994](http://okina.univ-angers.fr/publications?f[author]=4994)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=4995](http://okina.univ-angers.fr/publications?f[author]=4995)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=4996](http://okina.univ-angers.fr/publications?f[author]=4996)
- [8] [http://okina.univ-angers.fr/publications?f\[author\]=4997](http://okina.univ-angers.fr/publications?f[author]=4997)
- [9] [http://okina.univ-angers.fr/publications?f\[author\]=4998](http://okina.univ-angers.fr/publications?f[author]=4998)
- [10] [http://okina.univ-angers.fr/publications?f\[author\]=4999](http://okina.univ-angers.fr/publications?f[author]=4999)
- [11] [http://okina.univ-angers.fr/publications?f\[author\]=4973](http://okina.univ-angers.fr/publications?f[author]=4973)
- [12] [http://okina.univ-angers.fr/publications?f\[author\]=5000](http://okina.univ-angers.fr/publications?f[author]=5000)
- [13] [http://okina.univ-angers.fr/publications?f\[author\]=22381](http://okina.univ-angers.fr/publications?f[author]=22381)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=1002](http://okina.univ-angers.fr/publications?f[keyword]=1002)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=18705](http://okina.univ-angers.fr/publications?f[keyword]=18705)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=10936](http://okina.univ-angers.fr/publications?f[keyword]=10936)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=7590](http://okina.univ-angers.fr/publications?f[keyword]=7590)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=6065](http://okina.univ-angers.fr/publications?f[keyword]=6065)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=18703](http://okina.univ-angers.fr/publications?f[keyword]=18703)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=1075](http://okina.univ-angers.fr/publications?f[keyword]=1075)
- [21] [http://okina.univ-angers.fr/publications?f\[keyword\]=7684](http://okina.univ-angers.fr/publications?f[keyword]=7684)
- [22] [http://okina.univ-angers.fr/publications?f\[keyword\]=8572](http://okina.univ-angers.fr/publications?f[keyword]=8572)
- [23] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [24] [http://okina.univ-angers.fr/publications?f\[keyword\]=5940](http://okina.univ-angers.fr/publications?f[keyword]=5940)

- [25] [http://okina.univ-angers.fr/publications?f\[keyword\]=968](http://okina.univ-angers.fr/publications?f[keyword]=968)
- [26] [http://okina.univ-angers.fr/publications?f\[keyword\]=5941](http://okina.univ-angers.fr/publications?f[keyword]=5941)
- [27] [http://okina.univ-angers.fr/publications?f\[keyword\]=7553](http://okina.univ-angers.fr/publications?f[keyword]=7553)
- [28] [http://okina.univ-angers.fr/publications?f\[keyword\]=6044](http://okina.univ-angers.fr/publications?f[keyword]=6044)
- [29] [http://okina.univ-angers.fr/publications?f\[keyword\]=18704](http://okina.univ-angers.fr/publications?f[keyword]=18704)
- [30] [http://okina.univ-angers.fr/publications?f\[keyword\]=7545](http://okina.univ-angers.fr/publications?f[keyword]=7545)
- [31] [http://okina.univ-angers.fr/publications?f\[keyword\]=6085](http://okina.univ-angers.fr/publications?f[keyword]=6085)
- [32] <http://okina.univ-angers.fr/publications/ua12718>
- [33] <http://dx.doi.org/10.1016/j.cca.2012.09.020>
- [34] <http://www.ncbi.nlm.nih.gov/pubmed/23022619?dopt=Abstract>

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