



Nomogram for individualized prediction of hepatocellular carcinoma occurrence in hepatitis C virus cirrhosis (ANRS CO12 CirVir)

Submitted by Véronique Bourgeais on Tue, 02/12/2019 - 15:43

Titre	Nomogram for individualized prediction of hepatocellular carcinoma occurrence in hepatitis C virus cirrhosis (ANRS CO12 CirVir)
Type de publication	Article de revue
Auteur	Ganne-Carrie, Nathalie [1], Layese, Richard [2], Bourcier, Valérie [3], Cagnot, Carole [4], Marcellin, Patrick [5], Guyader, Dominique [6], Pol, Stanislas [7], Larrey, Dominique [8], de Ledinghen, Victor [9], Ouzan, Denis [10], Zoulim, Fabien [11], Roulot, Dominique [12], Tran, Albert [13], Bronowicki, Jean-Pierre [14], Zarski, Jean-Pierre [15], Riachi, Ghassan [16], Calès, Paul [17], Péron, Jean-Marie [18], Alric, Laurent [19], Bourlière, Marc [20], Mathurin, Philippe [21], Blanc, Jean-Frédéric [22], Abergel, Armand [23], Serfaty, Lawrence [24], Mallat, Ariane [25], Grangé, Jean-Didier [26], Attali, Pierre [27], Bacq, Yannick [28], Wartelle, Claire [29], Dao, Thong [30], Benhamou, Yves [31], Pilette, Christophe [32], Silvain, Christine [33], Christidis, Christos [34], Capron, Dominique [35], Bernard-Chabert, Brigitte [36], Zucman, David [37], Di Martino, Vincent [38], Trinchet, Jean-Claude [39], Nahon, Pierre [40], Roudot-Thoraval, Françoise [41], ANRS CO12 Cirvir study group [42]
Editeur	Wiley
Type	Article scientifique dans une revue à comité de lecture
Année	2016
Langue	Anglais
Date	Octobre 2016
Numéro	4
Pagination	1136-47
Volume	64
Titre de la revue	Hepatology
ISSN	1527-3350
Mots-clés	Carcinoma, Hepatocellular [43], Female [44], Hepatitis C, Chronic [45], Humans [46], Liver Cirrhosis [47], Liver neoplasms [48], Male [49], Middle Aged [50], Nomograms [51], Prospective Studies [52]

UNLABELLED: The aim of this work was to develop an individualized score for predicting hepatocellular carcinoma (HCC) in patients with hepatitis C (HCV)-compensated cirrhosis. Among 1,323 patients with HCV cirrhosis enrolled in the French prospective ANRS CO12 CirVir cohort, 720 and 360 were randomly assigned to training and validation sets, respectively. Cox's multivariate model was used to predict HCC, after which a nomogram was computed to assess individualized risk. During follow-up (median, 51.0 months), 103 and 39 patients developed HCC in the training and validation sets, respectively. Five variables were independently associated with occurrence of HCC: age > 50 years (hazard ratio [HR], 1.94; 95% confidence interval [CI], 1.16; 3.25; P = 0.012); past excessive alcohol intake (HR, 1.55; 95% CI, 1.02; 2.36; P = 0.041); low platelet count (<100 Giga/mm(3) : HR, 2.70; 95% CI, 1.62; 4.51; P < 0.001; [100; 150] Giga/mm(3) : HR, 1.87; 95% CI, 1.10; 3.18; P = 0.021); gamma-glutamyl transpeptidase above the upper limit of normal (HR, 1.96; 95% CI, 1.11; 3.47; P = 0.021); and absence of a sustained virological response during follow-up (HR, 3.02; 95% CI, 1.67; 5.48; P < 0.001). An 11-point risk score was derived from the training cohort and validated in the validation set. Based on this score, the population was stratified into three groups, in which HCC development gradually increased, from 0% to 30.1% at 5 years for patients with the lowest (≤ 3) and highest (≥ 8) scores (P < 0.001). Using this score, a nomogram was built enabling individualized prediction of HCC occurrence at 1, 3, and 5 years.

CONCLUSION: This HCC score can accurately predict HCC at an individual level in French patients with HCV cirrhosis. (Hepatology 2016;64:1136-1147).

Résumé en anglais

URL de la notice <http://okina.univ-angers.fr/publications/ua18830> [53]

DOI [10.1002/hep.28702](https://doi.org/10.1002/hep.28702) [54]

Lien vers le document <https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.28702> [55]

Autre titre Hepatology

Identifiant (ID) 27348075 [56]

PubMed

Liens

- [1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33607>
- [2] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=30787>
- [3] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5001>
- [4] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33464>
- [5] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5451>
- [6] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5077>
- [7] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=4925>
- [8] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5567>
- [9] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5014>
- [10] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5448>
- [11] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22358>
- [12] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5250>
- [13] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5516>
- [14] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=1091>
- [15] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=4993>
- [16] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5241>
- [17] <http://okina.univ-angers.fr/p.cales/publications>
- [18] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22360>

- [19] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5338>
- [20] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5016>
- [21] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5427>
- [22] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22361>
- [23] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5263>
- [24] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5568>
- [25] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5667>
- [26] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22363>
- [27] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33467>
- [28] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5011>
- [29] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22365>
- [30] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5444>
- [31] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22366>
- [32] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22367>
- [33] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5438>
- [34] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22368>
- [35] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22369>
- [36] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22377>
- [37] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33469>
- [38] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22371>
- [39] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5009>
- [40] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5429>
- [41] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33475>
- [42] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22385>
- [43] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=8507>
- [44] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1075>
- [45] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=8572>
- [46] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=991>
- [47] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=5940>
- [48] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=7769>
- [49] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=968>
- [50] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=5941>
- [51] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=27159>
- [52] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6044>
- [53] <http://okina.univ-angers.fr/publications/ua18830>
- [54] <http://dx.doi.org/10.1002/hep.28702>
- [55] <https://aasldpubs.onlinelibrary.wiley.com/doi/full/10.1002/hep.28702>
- [56] <http://www.ncbi.nlm.nih.gov/pubmed/27348075?dopt=Abstract>

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