



## Bacterial infection in compensated viral cirrhosis impairs 5-year survival (ANRS CO12 CirVir prospective cohort)

Submitted by Véronique Bourgeois on Tue, 02/12/2019 - 15:55

Titre	Bacterial infection in compensated viral cirrhosis impairs 5-year survival (ANRS CO12 CirVir prospective cohort)
Type de publication	Article de revue
Auteur	Nahon, Pierre [1], Lescat, Mathilde [2], Layese, Richard [3], Bourcier, Valérie [4], Talmat, Nabila [5], Allam, Setty [6], Marcellin, Patrick [7], Guyader, Dominique [8], Pol, Stanislas [9], Larrey, Dominique [10], de Ledinghen, Victor [11], Ouzan, Denis [12], Zoulim, Fabien [13], Roulot, Dominique [14], Tran, Albert [15], Bronowicki, Jean-Pierre [16], Zarski, Jean-Pierre [17], Gorla, Odile [18], Calès, Paul [19], Péron, Jean-Marie [20], Alric, Laurent [21], Bourlière, Marc [22], Mathurin, Philippe [23], Blanc, Jean-Frédéric [24], Abergel, Armand [25], Serfaty, Lawrence [26], Mallat, Ariane [27], Grangé, Jean-Didier [28], Attali, Pierre [29], Bacq, Yannick [30], Wartelle, Claire [31], Dao, Thong [32], Benhamou, Yves [33], Pilette, Christophe [34], Silvain, Christine [35], Christidis, Christos [36], Capron, Dominique [37], Bernard-Chabert, Brigitte [38], Hillaire, Sophie [39], Di Martino, Vincent [40], Trinchet, Jean-Claude [41], Moreau, Richard [42], Roudot-Thoraval, Françoise [43]
Organisme	ANRS CO12 CirVir and Microcir Groups [44]
Editeur	BMJ Publishing Group
Type	Article scientifique dans une revue à comité de lecture
Année	2017
Langue	Anglais
Date	Février 2017
Numéro	2
Pagination	330-341
Volume	66
Titre de la revue	Gut
ISSN	1468-3288
Mots-clés	Adult [45], Bacterial Infections [46], Cause of Death [47], Coinfection [48], Female [49], France [50], Hepatitis B, Chronic [51], Hepatitis C, Chronic [52], Humans [53], Incidence [54], Liver Cirrhosis [55], Liver Failure [56], Liver neoplasms [57], Male [58], Middle Aged [59], Peritonitis [60], Pneumonia [61], Prognosis [62], Prospective Studies [63], Risk Factors [64], Severity of Illness Index [65], Survival rate [66], Urinary Tract Infections [67]

**OBJECTIVE:** To assess incidence and prognostic significance of bacterial infections (BIs) occurring in compensated viral cirrhosis.

**DESIGN:** This prospective study involved 35 French centres. Inclusion criteria were biopsy-proven HCV or HBV cirrhosis, Child-Pugh A and no previous hepatic complications. Cumulative incidence (CumI) of events was estimated in a competing risks framework.

**RESULTS:** 1672 patients were enrolled (HCV 1323, HBV 318, HCV-HBV 31). During a median follow-up of 43 months, 234 BIs occurred in 171 patients (5 year CumI: 12.9%), among whom 14.6% had septic shock. Main localisations included the urinary tract (27.4%), lung (25.2%) and peritoneum (10.7%) (other, 86 (36.7%)). Most BIs occurred as a first event prior to liver decompensation (n=140, 81.8%) and were community-acquired (CA, 84.2%). The risk of BI was higher in patients with HCV than in patients with HBV (5 year CumI: 15.2% vs 5.5%, p=0.0008). Digestive localisation, concomitant interferon-based treatment, isolation of resistant bacteria and non-CA BIs were associated with lowest probability of resolution. The occurrence of a first BI impaired survival in patients infected with HCV (5 year survival: 60.2% vs 90.4%, p<0.001) and patients infected with HBV (5 year survival: 69.2% vs 97.6%, p<0.001). BIs represented the third cause of death (14.1%) after liver failure and liver cancer. BI risk factors comprised older age, lower albumin, proton pump inhibitor intake and absence of virological eradication/control.

**CONCLUSION:** BI mostly occurs as a first complication and represents a turning point in the course of compensated viral cirrhosis. Its occurrence impacts long-term prognosis and may define a subgroup of patients in whom adaptation of management is warranted.

## Résumé en anglais

URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua18834">http://okina.univ-angers.fr/publications/ua18834</a> [68]
DOI	10.1136/gutjnl-2015-310275 [69]
Lien vers le document	<a href="https://gut.bmj.com/content/66/2/330">https://gut.bmj.com/content/66/2/330</a> [70]
Autre titre	Gut
Identifiant (ID) PubMed	26511797 [71]

---

## Liens

- [1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5429>
- [2] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33796>
- [3] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=30787>
- [4] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5001>
- [5] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33797>
- [6] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22357>
- [7] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5451>
- [8] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5077>
- [9] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=4925>
- [10] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5567>
- [11] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5014>
- [12] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5448>
- [13] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22358>
- [14] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5250>
- [15] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5516>
- [16] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=1091>
- [17] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=4993>

[18] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22359>  
[19] <http://okina.univ-angers.fr/p.cales/publications>  
[20] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22360>  
[21] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5338>  
[22] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5016>  
[23] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5427>  
[24] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22361>  
[25] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5263>  
[26] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5568>  
[27] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5667>  
[28] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22363>  
[29] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33467>  
[30] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5011>  
[31] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22365>  
[32] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5444>  
[33] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22366>  
[34] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22367>  
[35] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5438>  
[36] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22368>  
[37] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22369>  
[38] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22377>  
[39] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5668>  
[40] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=22371>  
[41] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5009>  
[42] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=5336>  
[43] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33475>  
[44] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=33800>  
[45] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1002>  
[46] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=7675>  
[47] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=24074>  
[48] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=7783>  
[49] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1075>  
[50] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1334>  
[51] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=18644>  
[52] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=8572>  
[53] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=991>  
[54] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1076>  
[55] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=5940>  
[56] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=8603>  
[57] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=7769>  
[58] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=968>  
[59] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=5941>  
[60] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=18888>  
[61] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1567>  
[62] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1341>  
[63] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6044>  
[64] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6041>  
[65] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6085>  
[66] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=8327>  
[67] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=27163>  
[68] <http://okina.univ-angers.fr/publications/ua18834>

[69] <http://dx.doi.org/10.1136/gutjnl-2015-310275>

[70] <https://gut.bmj.com/content/66/2/330>

[71] <http://www.ncbi.nlm.nih.gov/pubmed/26511797?dopt=Abstract>

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