



## Pneumocystis jirovecii and Cystic Fibrosis in Brittany, France

Submitted by Beatrice Guillaumat on Thu, 08/29/2019 - 11:00

Titre	Pneumocystis jirovecii and Cystic Fibrosis in Brittany, France
Type de publication	Article de revue
Auteur	Nevez, Gilles [1], Robert-Gangneux, Florence [2], Pougnet, Laurence [3], Virmaux, Michèle [4], Belleguic, Chantal [5], Deneuille, Eric [6], Rault, Gilles [7], Chevrier, Sylviane [8], Ramel, Sophie [9], Le Bihan, Jean [10], Guillaud-Saumur, Thibaud [11], Calderon, Enrique [12], Le Govic, Yohann [13], Gangneux, Jean-Pierre [14], Le Gal, Solène [15]
Editeur	Springer
Type	Article scientifique dans une revue à comité de lecture
Année	2018
Langue	Anglais
Date	Février 2018
Numéro	1
Pagination	81-87
Volume	183
Titre de la revue	Mycopathologia
ISSN	1573-0832
Mots-clés	Adolescent [16], Adult [17], Child [18], Child, Preschool [19], Cystic fibrosis [20], DNA, Fungal [21], Female [22], France [23], Genes, rRNA [24], Humans [25], Infant [26], Male [27], Pneumocystis carinii [28], Pneumonia, Pneumocystis [29], Prevalence [30], Real-Time Polymerase Chain Reaction [31], Retrospective Studies [32], Sputum [33], Young Adult [34]

Résumé en anglais

*Pneumocystis jirovecii* is a transmissible fungus with a high pulmonary tropism. The prevalence of *P. jirovecii* in patients with cystic fibrosis (CF) has been estimated in Germany at 7.4%, in Spain at 21.5% and in Brazil at 38.2%. Data on the prevalence of *P. jirovecii* in CF patients in France remain scarce, particularly in Brittany, where the prevalence of CF is high (from 1/1600 to 1/4500). Our objectives were to determine the prevalence of colonization of the airways by *P. jirovecii* in Brittany in CF patients monitored at the "Centre de Ressources et de Compétences de la Mucoviscidose (CRCM)" of Rennes compared to that previously observed at the CRCM of Roscoff-Brest. Sputa from 86 patients (178 specimens) followed in Rennes were analyzed retrospectively. The detection of *P. jirovecii* was performed using real-time PCR targeting the gene encoding the mitochondrial large subunit of ribosomal RNA. *Pneumocystis jirovecii* DNA was detected in 3/86 patients (3.5%) monitored at Rennes, whereas it had previously been detected in 1/76 patients (1.3%) monitored at Roscoff-Brest, thus showing an overall prevalence of 2.5% in Brittany. These results obtained from two Breton centers taken together show that *P. jirovecii* prevalence in patients with CF in Brittany is lower than those observed in Germany, Spain, Brazil or in other regions of France. This study is a preliminary step in determining the risk factors for *P. jirovecii* acquisition, its epidemiological and clinical significance in CF patients through a prospective multicenter study.

URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua20160">http://okina.univ-angers.fr/publications/ua20160</a> [35]
DOI	10.1007/s11046-017-0172-2 [36]
Lien vers le document	<a href="https://link.springer.com/article/10.1007%2Fs11046-017-0172-2">https://link.springer.com/article/10.1007%2Fs11046-017-0172-2</a> [37]
Autre titre	Mycopathologia
Identifiant (ID) PubMed	28688008 [38]

---

## Liens

- [1] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=31836>
- [2] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=24544>
- [3] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=37196>
- [4] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39105>
- [5] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39106>
- [6] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39107>
- [7] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39108>
- [8] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39109>
- [9] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39110>
- [10] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39111>
- [11] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39112>
- [12] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=39113>
- [13] <http://okina.univ-angers.fr/user/9916/publications>
- [14] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=7838>
- [15] <http://okina.univ-angers.fr/publications?f%5Bauthor%5D=31835>
- [16] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1214>
- [17] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1002>
- [18] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1216>
- [19] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1534>
- [20] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6101>
- [21] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=11617>
- [22] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1075>

- [23] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1334>
- [24] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=22626>
- [25] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=991>
- [26] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=3233>
- [27] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=968>
- [28] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=28335>
- [29] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=28336>
- [30] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1081>
- [31] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=11559>
- [32] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6125>
- [33] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=1562>
- [34] <http://okina.univ-angers.fr/publications?f%5Bkeyword%5D=6036>
- [35] <http://okina.univ-angers.fr/publications/ua20160>
- [36] <http://dx.doi.org/10.1007/s11046-017-0172-2>
- [37] <https://link.springer.com/article/10.1007%2Fs11046-017-0172-2>
- [38] <http://www.ncbi.nlm.nih.gov/pubmed/28688008?dopt=Abstract>

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