

et la région Aquitaine

Palais des Congrès

du mercredi 15 juin 2022 au vendredi 17 juin 2022







« best-of » des infections neuroméningées

O. Epaulard Grenoble













Déclaration de liens d'intérêt avec les industries de santé en rapport avec le thème de la présentation (loi du 04/03/2002) :

Intervenant : Olivier Epaulard

Titre: « best-of » des infections neuroméningées

- Consultant ou membre d'un conseil scientifique
- Conférencier ou auteur/rédacteur rémunéré d'articles ou documents
- Prise en charge de frais de voyage, d'hébergement ou d'inscription à des congrès ou autres manifestations
- Investigateur principal d'une recherche ou d'une étude clinique

OUI

















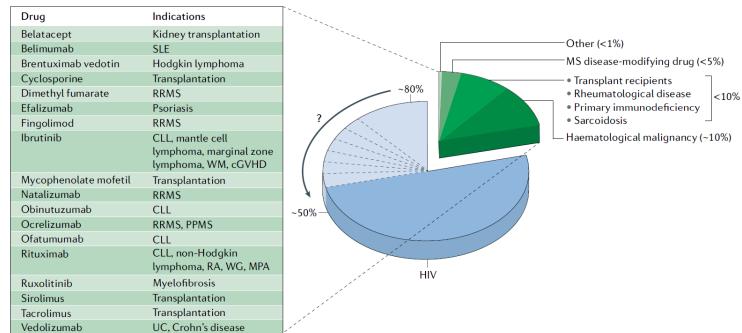
LEMP et immunothérapie





Progressive multifocal leukoencephalopathy and the spectrum of JC virus-related disease

Irene Cortese \mathbb{D}^{1} \mathbb{Z} , Daniel S. Reich \mathbb{D}^{2} and Avindra Nath 3





ORIGINAL COMMUNICATION

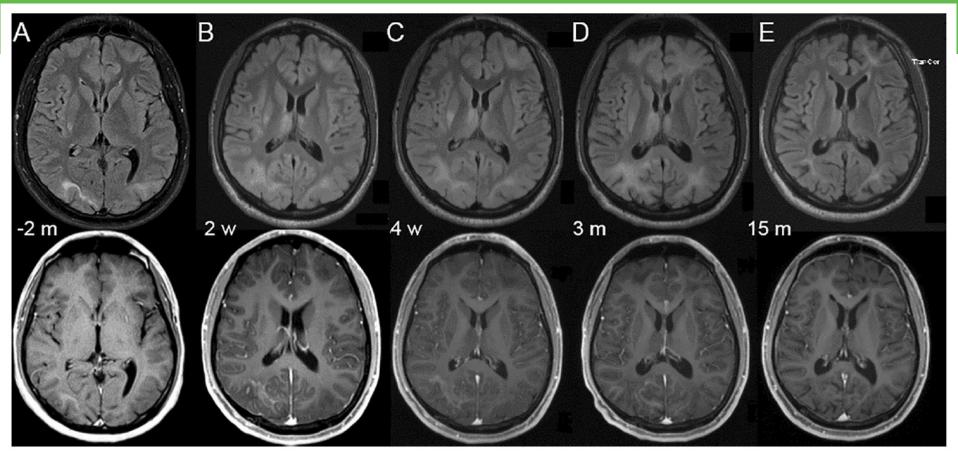


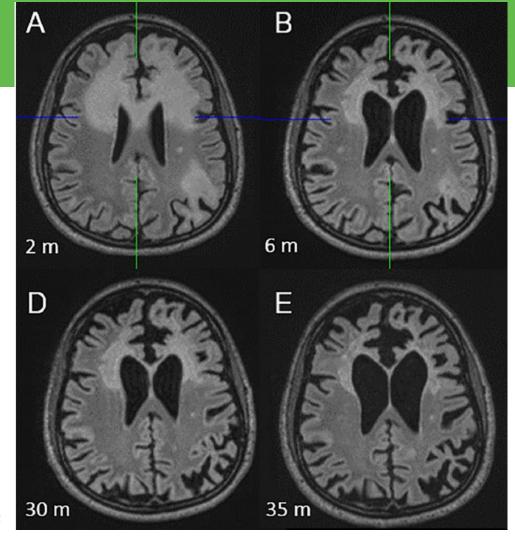
Pembrolizumab for treatment of progressive multifocal leukoencephalopathy in primary immunodeficiency and/ or hematologic malignancy: a case series of five patients

Timo $Volk^{1} \odot \cdot Klaus Warnatz^{2,3} \cdot Reinhard Marks^{4} \cdot Horst Urbach^{5} \cdot Gisela Schluh^{1} \cdot Valentina Strohmeier^{2,3,6} \cdot Jessica Rojas-Restrepo^{3,6,7,8} \cdot Bodo Grimbacher^{3,7,8,9,10} \cdot Sebastian Rauer^{1}$

- 2 lymphomes BGC
- 1 DICV
- 1 déficit en CD40-ligand
- 1 déficit en DOCK8







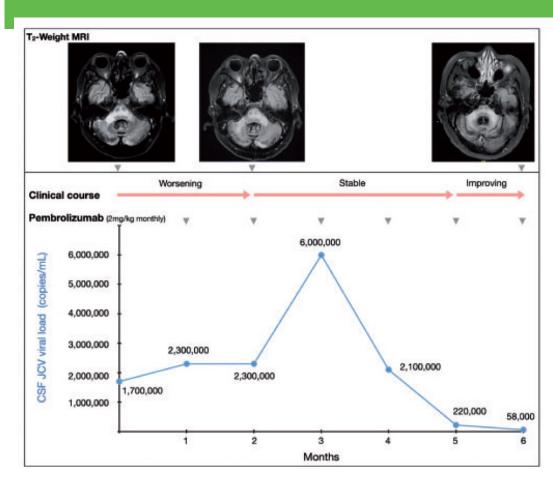


Progressive multifocal leukoencephalopathy in systemic lupus erythematosus managed with pembrolizumab: A case report with literature review

Ting-Yuan Lan¹, Yan-Siou Chen¹, Chiao-Feng Cheng², Sin-Tuan Huang³, Chieh-Yu Shen¹ and Ping-Ning Hsu^{1,4}

Lupus 0(0) 1–7

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doi: 10.3389/fimmu.2022.889148



Killing Two Birds With One Stone: Effective Control of Both Non-Small **Cell Lung Cancer and Progressive** Multifocal Leukoencephalopathy With Atezolizumab, A Case Report

Nicolas Lambert^{1,2*}, Majdouline El Moussaoui³, Caroline Ritacco⁴, Martin Moïse^{2,5}, Astrid Paulus⁶, Philippe Delvenne⁷, Frédéric Baron^{4,8}, Bernard Sadzot¹ and Pierre Maguet1

IDCases 28 (2022) e01514



Contents lists available at ScienceDirect





Case report



Pembrolizumab for the treatment of Progressive Multifocal Leukoencephalopathy (PML) in a patient with AIDS: A case report and literature review

Tulika Chatterjee ^{a,*}, Moni Roy ^b, Rone-Chun Lin ^b, Mohammad O. Almoujahed ^b, Sharjeel Ahmad b



^a University of Illinois College of Medicine at Peoria, 530 NE Glen Oak Ave, Peoria, IL 61637, USA

b University of Illinois College of Medicine at Peoria, USA

DOI: 10.1111/ene.15021

SHORT COMMUNICATION

Immune checkpoint inhibitors for progressive multifocal leukoencephalopathy: Identifying relevant outcome factors

Nicolas Lambert^{1,2} | Majdouline El Moussaoui³ | Pierre Maquet^{1,4}

Facteurs associés à une mauvaise réponse

- LEMP due à un traitement immunosuppresseur
- Détectabilité persistante de la CV JV dans le LCS
- Pas d'amélioration des lésions cérébrales en T2 en IRM

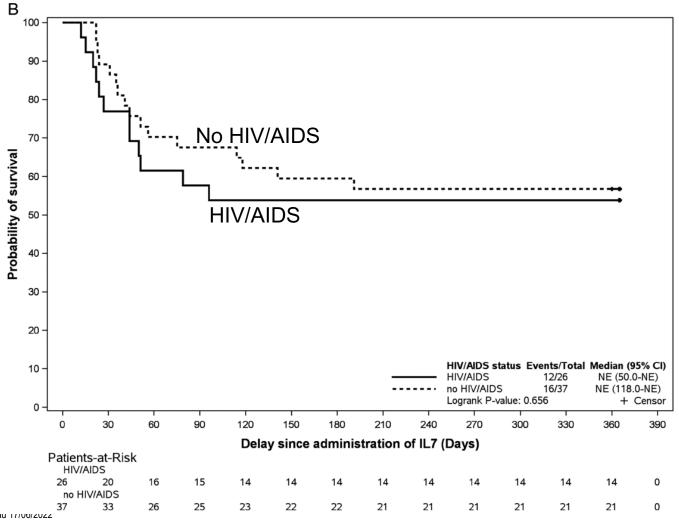


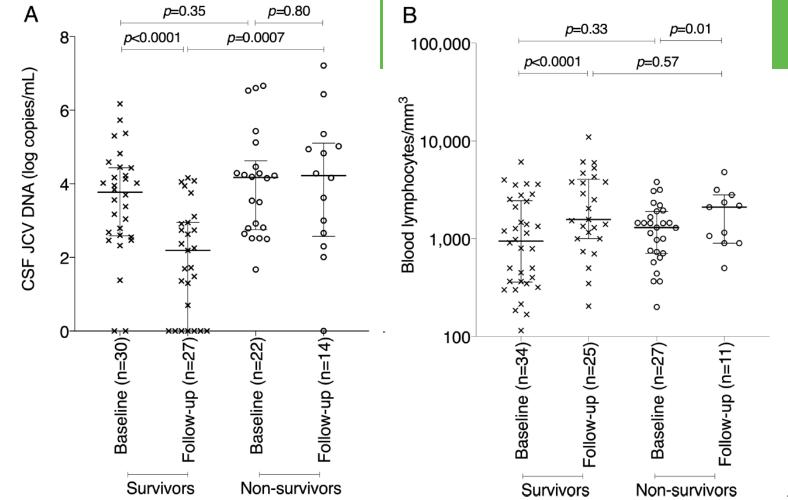
Outcome of Progressive Multifocal Leukoencephalopathy Treated by Interleukin-7

Rébecca Lajaunie, MD , ^{1†} Ilaria Mainardi, MD, ^{2†} Jacques Gasnault, MD, ^{3,4} Vanessa Rousseau, PhD, ⁵ Andrea G. Tarantino, DO, ⁶ Agnès Sommet, PhD, ⁵ Paola Cinque, PhD, ^{2‡} Guillaume Martin-Blondel, PhD, ^{1,7‡} and PML study group

- 2007-2020
- 64 patients
 - PVVIH (n = 27, 42%),
 - Néoplasies hématologiques (n = 16, 25%),
 - Déficit immunitaire inné (n = 13, 20%)
 - Transplantation d'organe solide (n = 4, 6%)



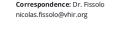


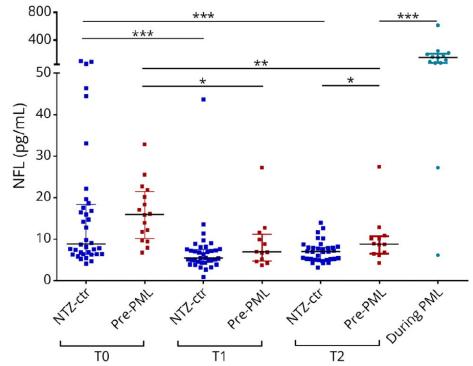


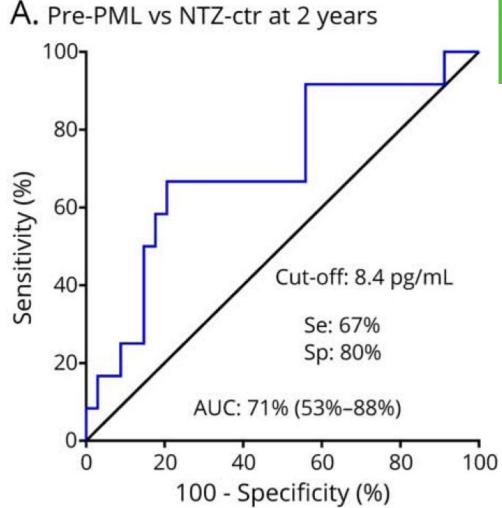
Serum Neurofilament Levels and PML Risk in Patients With Multiple Sclerosis Treated With Natalizumab

Nicolás Fissolo, PhD, Beatrice Pignolet, PhD, Jordi Rio, MD, PhD, Patrick Vermersch, MD, PhD, Aurélie Ruet, MD, PhD, Jerome deSèze, MD, PhD, Pierre Labauge, MD, PhD, Sandra Vukusic, MD, PhD, Caroline Papeix, MD, Laurent Martinez-Almoyna, MD, Ayman Tourbah, MD, PhD, Pierre Clavelou, MD, PhD, Thibault Moreau, MD, PhD, Jean Pelletier, MD, PhD, Christine Lebrun-Frenay, MD, PhD, Bertrand Bourre, MD, Gilles Defer, MD, PhD, Xavier Montalban, MD, David Brassat, MD, PhD, and Manuel Comabella, MD, PhD

Neurol Neuroimmunol Neuroinflamm 2021;8:e1003. doi:10.1212/NXI.000000000001003









Covid-19 et cerveau

Et en particulier <u>post</u>-Covid-19



Journal of Neurology (2022) 269:2827–2839 https://doi.org/10.1007/s00415-022-11050-w

REVIEW

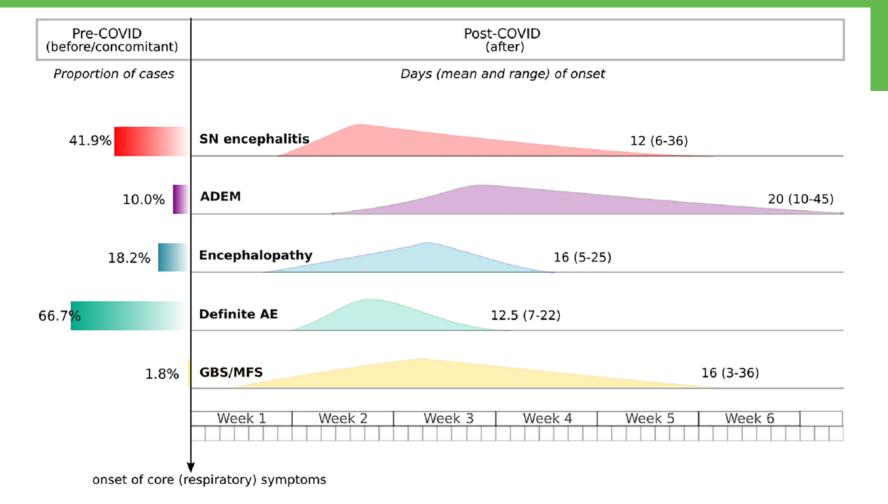


Neuroimmune disorders in COVID-19

Helena Ariño^{1,2} · Rosie Heartshorne³ · Benedict D. Michael^{3,4,5} · Timothy R. Nicholson² · Angela Vincent⁶ · Thomas A. Pollak² · Alberto Vogrig^{7,8}

Received: 19 January 2022 / Revised: 22 February 2022 / Accepted: 23 February 2022 / Published online: 30 March 2022 © The Author(s) 2022

23° Bordeaux



23^{es} Bordeaux

Prognostic indicators and outcomes of hospitalised COVID-19 patients with neurological disease: An individual patient data meta-analysis

Bhagteshwar Singh^{1,2,3}e, Suzannah Lant¹e, Sofia Cividini o⁴, Jonathan W. S. Cattrall¹, Lynsey C. Goodwin o^{1,2}, Laura Benjamin⁵, Benedict D. Michael^{1,6}, Ayaz Khawaja⁷, Aline de Moura Brasil Matos o⁸, Walid Alkeridy o⁹, Andrea Pilotto¹⁰, Durjoy Lahiri¹¹,

Ferreira Da Silva⁹³, Krishna Nalleballe⁹⁴, Jonathan Santoro⁹⁵, Tyler Scullen⁹⁶, Lora Kahn⁹⁵, Carla Y. Kim⁹⁷, Kiran T. Thakur⁹⁷, Rajan Jain⁹⁸, Thirug nanam Umapathi⁹⁹, Timothy R. Nicholson¹⁰⁰, James J. Sejvar¹⁰¹, Eva Maria Hodel_©¹, The Brain Infections Global COVID-Neuro Network Study Group¹, Catrin Tudur Smith^{4‡}, Tom Solomon_©^{1,2,6‡} *

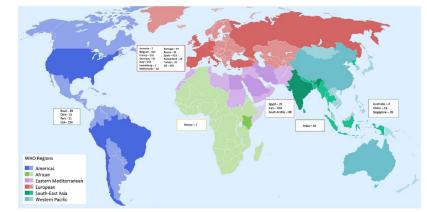
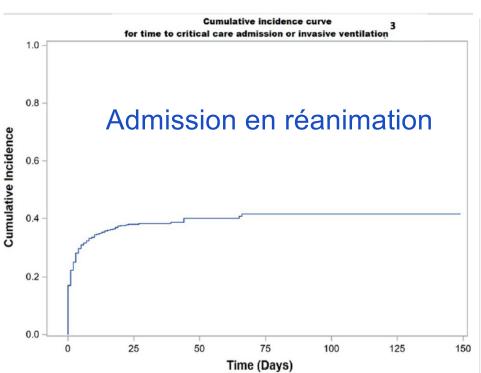
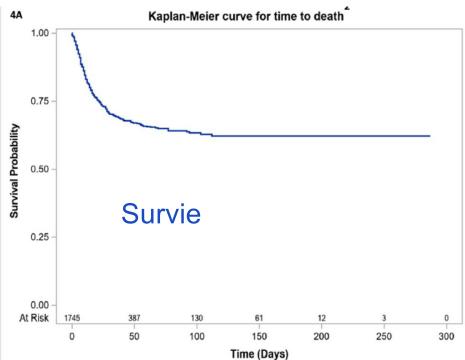


Table 1. Frequency of neurological disease subgroups in the studies contributing IPD. Studies (N = 83) n (%) Neurological disease Patients (N = 1979) n (%) Encephalopathy 61 (73.5) 978 (49.4) Encephalitis 37 (44.6) 92 (4.6) Delirium 32 (38.6) 161 (8.1) Coma 13 (15.7) 37 (1.9) Encephalopathy-other 40 (48.2) 688 (34.8) Insufficient information to define subtype 0(0)0(0)Cerebrovascular event 55 (66.3) 506 (25.6) Ischaemic 45 (54.2) 308 (15.6) Haemorrhagic 29 (34.9) 90 (4.5) Vasculitis 2(2.4)2(0.1)Cerebrovascular event—other 106 (5.4) 27 (32.5) Insufficient information to define subtype 0(0)0(0)Meningitis 9 (10.8) 15 (0.8) Acute Disseminated Encephalomyelitis (ADEM) 12 (14.5) 14 (0.7) Myelitis 12 (14.5) 13 (0.7) Guillain-Barré syndrome 30 (36.1) 51 (2.6) Radiculitis 2(2.4)4(0.2)Peripheral neuropathy 24 (28.9) 115 (5.8) Myositis 2(2.4)2(0.1)Other neurological presentation 31 (37.3) 382 (19.3) Smell or taste disturbance 13 (15.7) 247 (12.5) Neuropsychiatric disorder 2(2.4)49 (2.5) Myopathy 5 (6) 38 (1.9) Autonomic dysfunction 4(4.8)27 (1.4)







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Trajectories of Neurologic Recovery 12 Months After Hospitalization for COVID-19: A Prospective Longitudinal Study

Author(s):

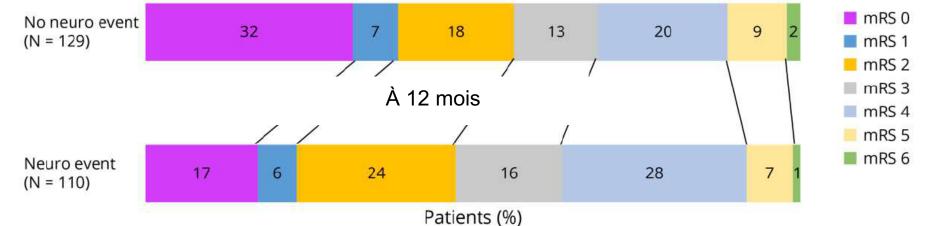
Jennifer A. Frontera, MD¹; Dixon Yang, MD²; Chaitanya Medicherla, MD¹; Samuel Baskharoun, MD¹; Kristie Bauman, MD¹; Lena Bell, MD¹; Dhristie Bhagat, MD¹; Steven Bondi, MD¹; Alexander Chervinsky, PhD¹; Levi Dygert, MD¹; Benjamin Fuchs, MD¹; Daniel Gratch, MD¹; Lisena Hasanaj, BA¹; Jennifer Horng, MD¹; Joshua Huang, MSc³; Ruben Jauregui, MD¹; Yuan Ji, MD¹; D. Ethan Kahn, DO¹; Ethan Koch, MD¹; Jessica Lin, MD¹; Susan Liu, DO¹; Anlys Olivera, MD, PhD¹; Jonathan Rosenthal, MD¹; Thomas Snyder, MD¹; Rebecca Stainman, MD⁴; Daniel Talmasov, MD¹; Betsy Thomas, MD¹; Eduard Valdes, MD¹; Ting Zhou, MD¹; Yingrong Zhu, MD¹; Ariane Lewis¹; Aaron S. Lord, MD¹; Kara Melmed, MD¹; Sharon B. Meropol, MD, PhD⁵; Sujata Thawani, MD¹; Andrea B Troxel, PhD⁵; Shadi Yaghi, MD⁶; Laura J Balcer, MD¹; Thomas Wisniewski, MD¹; Steven Galetta¹

242 patients suivis à 6 et 12 mois

0 - Aucun symptôme

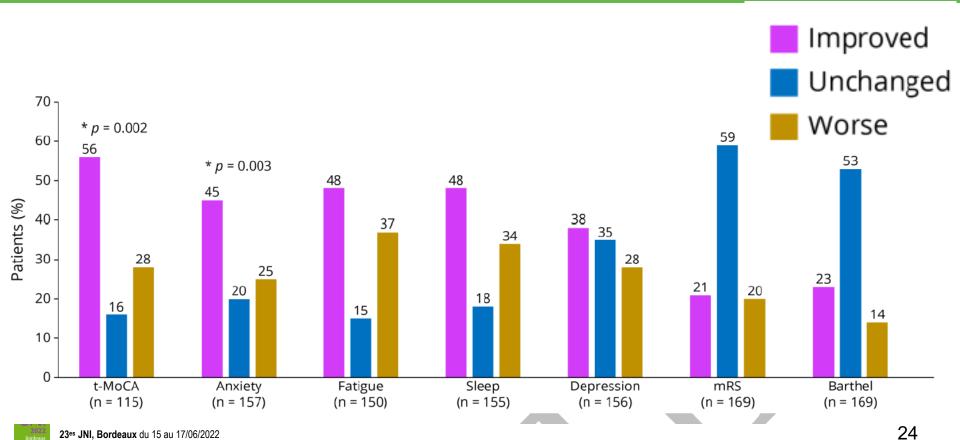
Modified Rankin Scale

- 1 Aucune incapacité significative en dépit des symptômes; capable d'effectuer toutes les tâches et activités habituelles.
- 2 Handicap léger : incapable d'effectuer toutes les activités antérieures, mais capable de s'occuper de ses propres affaires sans assistance.
- 3 Handicap modéré : nécessitant de l'aide, mais capable de marcher sans assistance.
- 4 Handicap modérément sévère : incapable de marcher sans assistance et incapable de s'occuper de ses propres besoins corporels sans assistance.
- 5 Handicap sévère : alité, incontinent et nécessitant de l'attention et des soins infirmiers constants.



23 JINI, DUIUEAUX UU 10 AU 17/00/2022

Évolution entre le 6^{ème} et le 12^{ème} mois



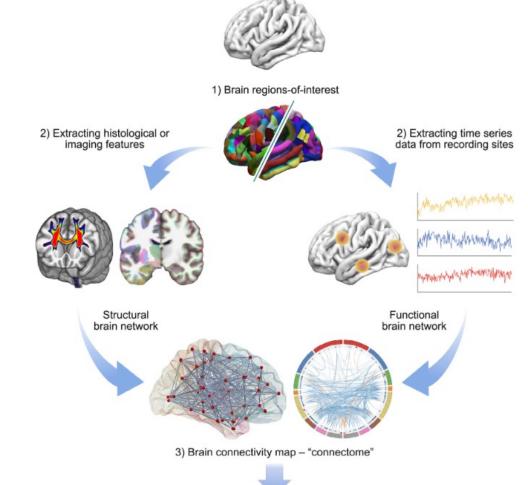
Mapping Structural Connectivity Using Diffusion MRI: Challenges and Opportunities

Chun-Hung Yeh, PhD, 1,2,3,4* Derek K. Jones, PhD, 5,6 Xiaoyun Liang, PhD, 3,4,6
Maxime Descoteaux, PhD, 0 and Alan Connelly, PhD,3,4

Diffusion MRI-based tractography is the most commonly-used technique when inferring the structural brain connectome, i.e., the comprehensive map of the connections in the brain. The utility of graph theory—a powerful mathematical approach for modeling complex network systems—for analyzing tractography-based connectomes brings important opportunities to interrogate connectome data, providing novel insights into the connectivity patterns and topological characteristics of brain structural networks. When applying this framework, however, there are challenges, particularly regarding methodological and biological plausibility. This article describes the challenges surrounding quantitative tractography and potential solutions. In addition, challenges related to the calculation of global network metrics based on graph theory are discussed.

Evidence Level: 5 Technical Efficacy: Stage 1

J. MAGN. RESON. IMAGING 2021;53:1666-1682.



Disorders of Consciousness Associated With COVID-19

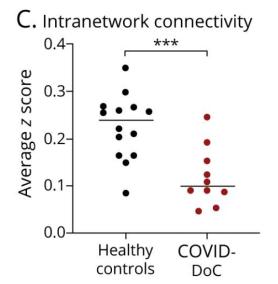
A Prospective Multimodal Study of Recovery and Brain Connectivity

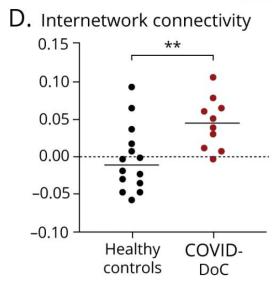
David Fischer, MD, Samuel B. Snider, MD, Megan E. Barra, PharmD, William R. Sanders, BSc, Otto Rapalino, MD, Pamela Schaefer, MD, Andrea S. Foulkes, ScD, Yelena G. Bodien, PhD, and Brian L. Edlow, MD

Neurology® 2022;98:e315-e325. doi:10.1212/WNL.000000000013067

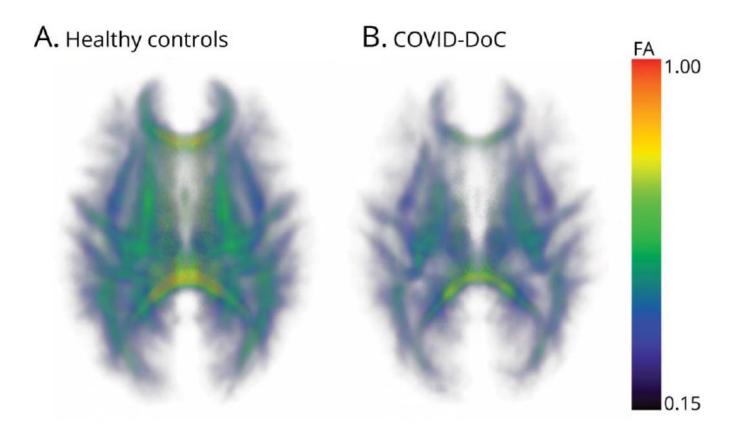
Correspondence

Dr. Fischer d.b.fisch@gmail.com





White matter integrity / fractional anisotropy (FA)





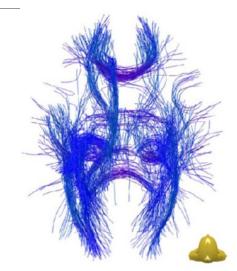
es **JNI**, **Bordeaux** du 15 au 17/06/2022

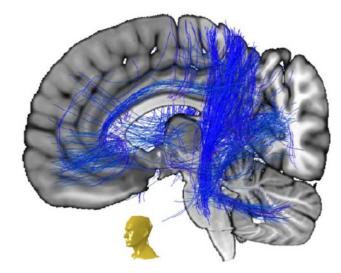


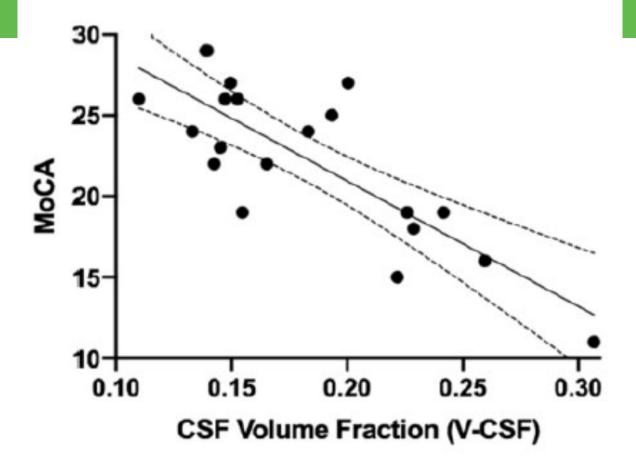


Widespread white matter oedema in subacute COVID-19 patients with neurological symptoms

©Alexander Rau, ^{1,†} ©Nils Schroeter, ^{2,†} ©Ganna Blazhenets, ³ ©Andrea Dressing, ^{2,4} Lea I. Walter, ² Elias Kellner, ⁵ Tobias Bormann, ^{2,4} Hansjörg Mast, ¹ Dirk Wagner, ⁶ Horst Urbach, ¹ ©Cornelius Weiller, ^{2,4} Philipp T. Meyer, ³ Marco Reisert ^{5,7} and ©Jonas A. Hosp²









Journal of Nuclear Medicine, published on February 17, 2022 as doi:10.2967/jnumed.121.263085

Molecular imaging findings on acute and

long-term effects of COVID-19 on the brain:

A systematic review

Philipp T. Meyer¹, Sabine Hellwig², Ganna Blazhenets¹ and Jonas A. Hosp³

- Quelques cas d'encéphalite per- ou post-Covid-19, avec des altérations métaboliques corticales et sous-corticales
- De rares cas de syndrome parkinsonien avec des altérations des noyaux gris centraux
- Altérations inconstantes pouvant être en lien avec l'anosmie (hypométabolisme orbitofrontal ou mésiotemporal)
- Quelques series d'"encéphalopathies" aiguës ou subaiguës : présence constante d'une "frontoparietal-dominant neocortical dysfunction" plutôt réversible
- Séries dans le "syndrome post-Covid-19" (fatigue, trb mnésiques, dyspnée, anosmie : présence inconstante d'hypométabolisme limbique et sous-cortical

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Trends in Molecular Medicine

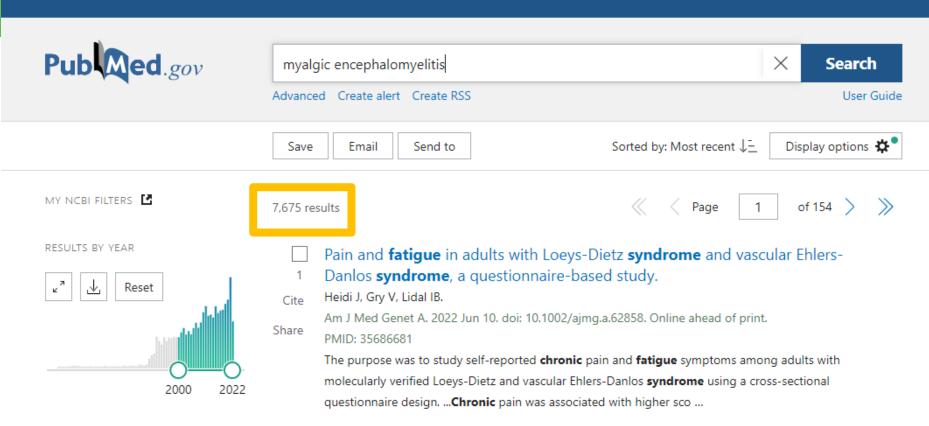


Review

Insights from myalgic encephalomyelitis/chronic fatigue syndrome may help unravel the pathogenesis of postacute COVID-19 syndrome

Anthony L. Komaroff^{1,*} and W. Ian Lipkin^{2,*}





Display options 🌣

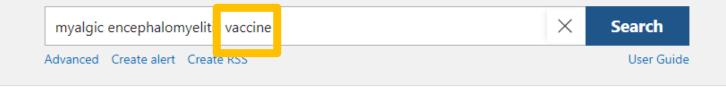
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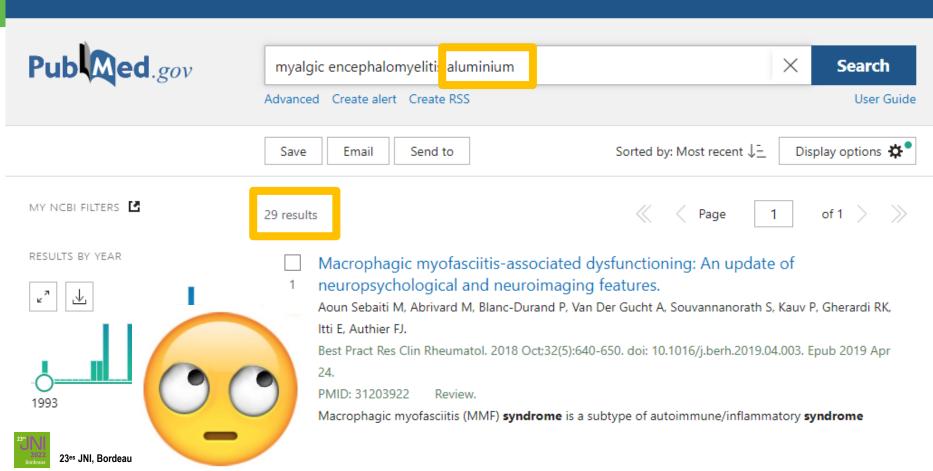
Cite Strain WD, Sherwood O, Banerjee A, Van der Togt V, Hishmeh L, Rossman J.

Vaccines (Basel). 2022 Apr 21;10(5):652. doi: 10.3390/vaccines10050652.

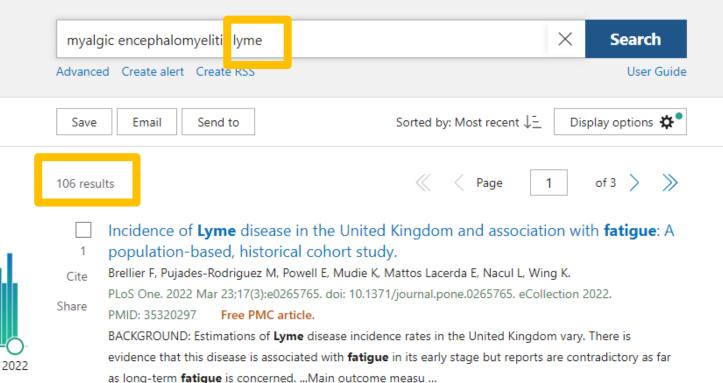
PMID: 35632408 Free PMC article.

Basic demographics, range and severity of long COVID symptoms, before and after their **vaccine**, were surveyed. RESULTS: 900 people participated in the questionnaire, of whom 45 had pre-existing **myalgic encephalomyelitis** or **chronic fatigue synd** ...

TEXT AVAILABILITY





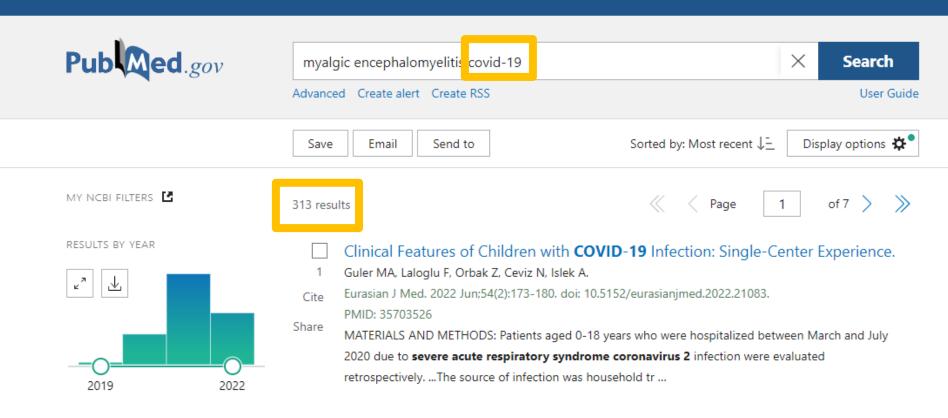


TEXT AVAILABILITY

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RESULTS BY YEAR





Expedited Publication, Original Article

Epidemiology, clinical profile, management, and outcome of COVID-19-associated rhino-orbital-cerebral mucormycosis in 2826 patients in India – Collaborative OPAI-IJO Study on Mucormycosis in COVID-19 (COSMIC), Report 1

Mrittika Sen, Santosh G Honavar, Rolika Bansal, Sabyasachi Sengupta¹, Raksha Rao², Usha Kim³, Mukesh Sharma⁴, Mahipal Sachdev⁵, Ashok K Grover⁶, Abhidnya Surve⁷, Abhishek Budharapu⁸, Abhishek K Ramadhin⁹, Abhishek Kumar Tripathi¹⁰, Adit Gupta¹¹, Aditya Bhargava¹², Animesh Sahu¹³, Anjali Khairnar¹⁴, Anju Kochar¹⁵, Ankita Madhavani¹⁶, Ankur K Shrivastava¹⁷, Anuja K Desai¹⁸, Anujeet Paul¹⁹, Anuradha Ayyar²⁰, Aparna Bhatnagar²¹, Aparna Singhal²², Archana Sunil Nikose²³, Arun Bhargava¹³, Arvind L Tenagi²⁴, Ashish Kamble²⁵, Ashiyana Nariani²⁶, Bhavin Patel²⁷, Bibbhuti Kashyap²⁸, Bodhraj Dhawan²⁹, Busaraben Vohra³⁰, Charuta Mandke³¹, Chinmayee Thrishulamurthy³², Chitra Sambare³³, Deepayan Sarkar³⁴, Devashi Shirishbhai Mankad¹⁶, Dhwani Maheshwari³⁵, Dilip Lalwani³⁶, Dipti Kanani¹⁶, Diti Patel³⁰, Fairooz P Manjandavida³⁷, Frenali Godhani³⁸, Garima Amol Agarwal³⁹, Gayatri Ravulaparthi⁴⁰,

Au 18 novembre 2021, en Inde:

- 34 478 517 cas de COVID-19
 - 464 623 morts
- 45 374 cas de mucormycose associée à une Covid-19
 - 4300 morts

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Neurological infections in 2021: a spotlight on India

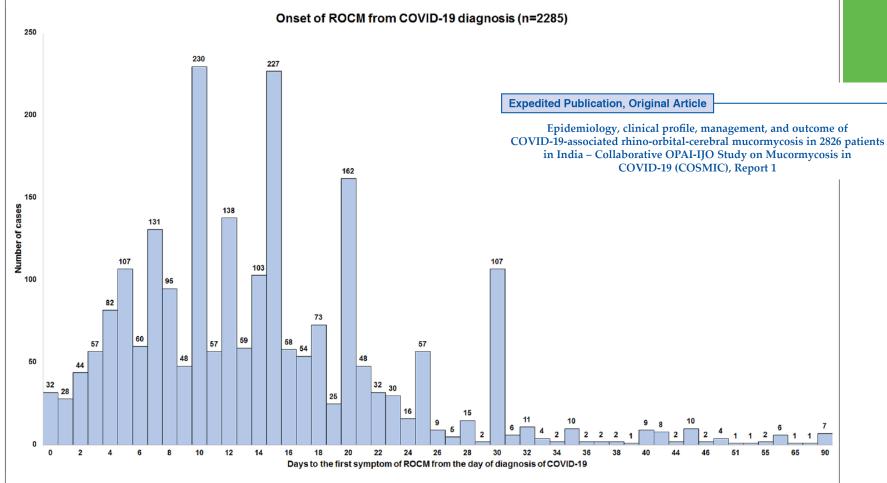


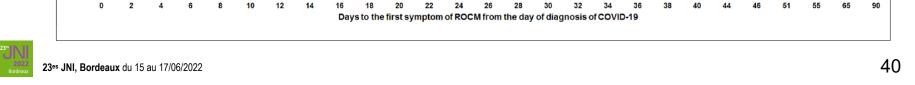
Analyses of COVID-19 treatment protocols used in India this year^{4,5} showed that indiscriminate use of corticosteroids, poor control of hyperglycaemia (in people with known or newly diagnosed diabetes), impaired immunity, blanket use of antibiotics, high intake of zinc, prolonged hospital stay, use of industrial oxygen, and ventilators with defective humidifiers were associated with the outbreak of COVID-19associated mucormycosis. Moreover, COVID-19-related complications, such as cytokine storm, associated

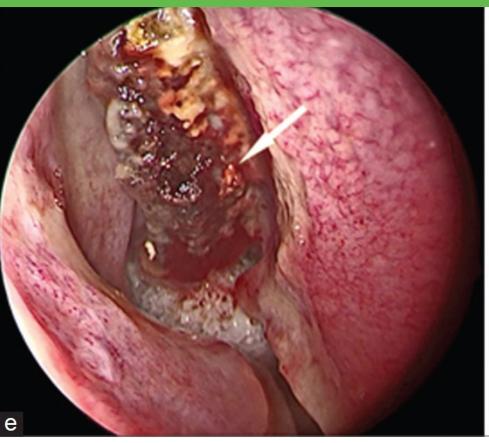
*Ravindra Kumar Garg, Hardeep Singh Malhotra, Shweta Pandey garg50@yahoo.com

Department of Neurology, King George Medical University, Uttar Pradesh, Lucknow PIN-226003, India

Janvier 2022











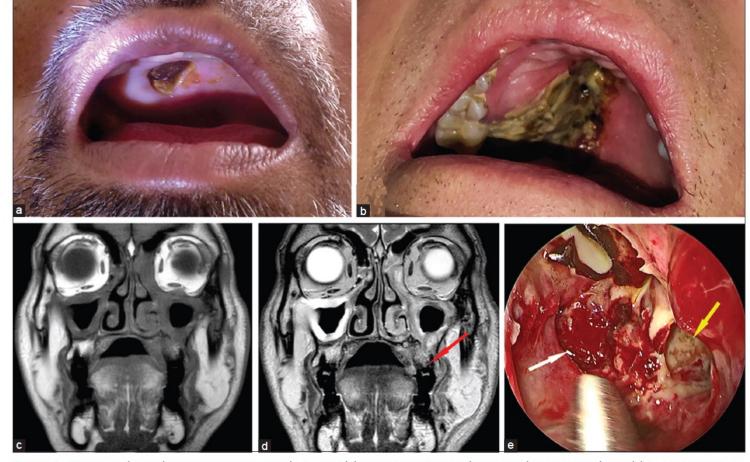
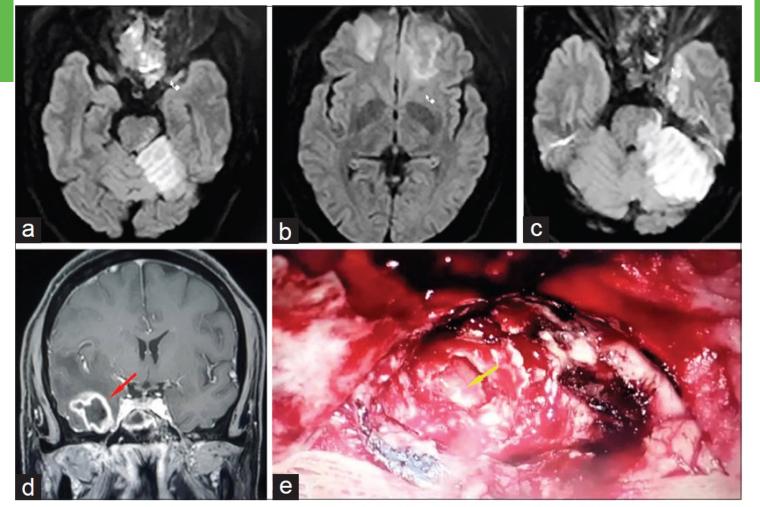


Figure 8: Stage 2c rhino-orbital-cerebral mucormycosis (a, b) Clinical photographs showing palatal involvement with a visible black eschar (c) Coronal MRI (T1) and (d) Coronal MRI (T2) of the orbit and paranasal sinuses showing mucosal thickening in >2 ipsilateral sinuses along with palatal involvement (red arrow) (e) Endoscopy picture showing necrosed tissue in left sphenoid sinus (white arrow) and left maxillary sinus (yellow arrow). (*Clinical images provided by Chinmayee T, MRI images by Ravi Varma, endoscopy image by Sandeep Karmarkar*)



23° Bordeaux

Preliminary In Vivo Evidence of Reduced Synaptic Density in Human Immunodeficiency Virus (HIV) Despite

Antiretroviral Therapy

Julian J. Weiss, 1.6 Rachela Calvi, 1 Mika Naganawa, 2.6 Takuya Toyonaga, 2 Shelli F. Farhadian, 1.3 Michelle Chintanaphol, 1 Jennifer Chiarella, 1 Ming-Qiang Zheng,² Jim Ropchan,² Yiyun Huang,² Robert H. Pietrzak,^{4,5} Richard E. Carson,² and Serena Spudich¹

Department of Neurology, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, New Haven, Connecticut, USA; Department of Radiology and Biomedical Imaging, New Ha USA; ³Department of Medicine, Section of Infectious Diseases, Yale School of Medicine, New Haven, Connecticut, USA; ⁴Department of Psychiatry, Yale School of Medicine, New Haven, Connecticut, USA; and 5US Department of Veteran Affairs National Center for Posttraumatic Stress Disorder, Clinical Neurosciences Division, VA Connecticut Healthcare System, West Haven, Connecticut, USA

Table 1.	Demographics and (Clinical Characteristics o	f Participants

	HIV (n = 13)	HIV-uninfected Participants ($n = 13$)
Demographic characteristic		
Male sex, no. (%)	13 (100)	13 (100)
Age, mean (SD), y	59.8 (5.1)	57.3 (6.8)
Non-White race, no. (%)	10 (77)	4 (31)
HIV-specific characteristic		
CD4 ⁺ T cells, median (IQR), cells/μL	689 (504, 865)	
CD4 ⁺ /CD8 ⁺ ratio, mean (SD)	1.01 (0.44)	
CD4 ⁺ nadir, median (IQR), cells/μL ^c	188 (83, 448)	
Plasma HIV RNA < 20 copies/mL, no. (%)	11 (85)	
CSF HIV RNA < 20 copies/mL, no. (%) ^d	9 (75)	
CSF white blood cells, mean (SD), cells/μL ^d	3.8 (3.6)	
CSF protein, mean (SD), mg/dL ^d	41 (20)	

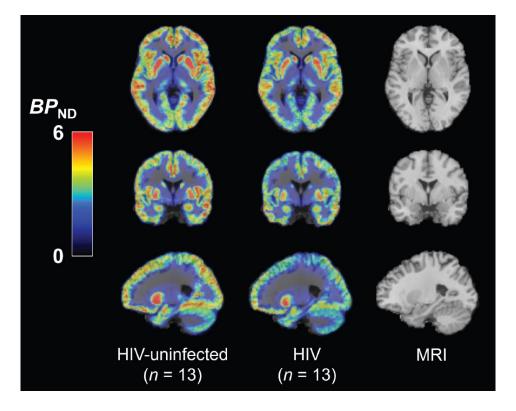
Clinical Infectious Diseases

MAJOR ARTICLE

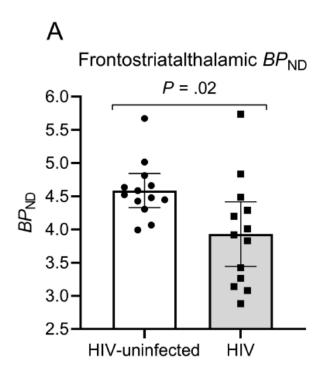


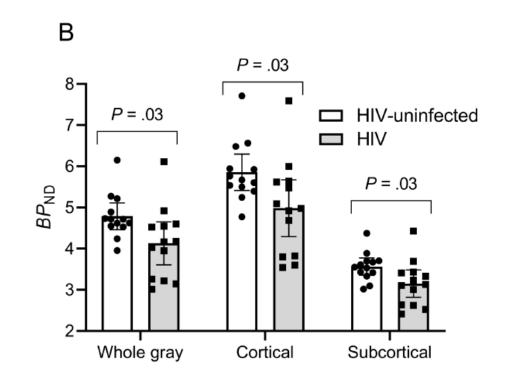
23es JNI. Bordeaux du 15 a

Détection de la synaptic vesical protein 2A (SV2A) par tomodensitométrie à émission de positons





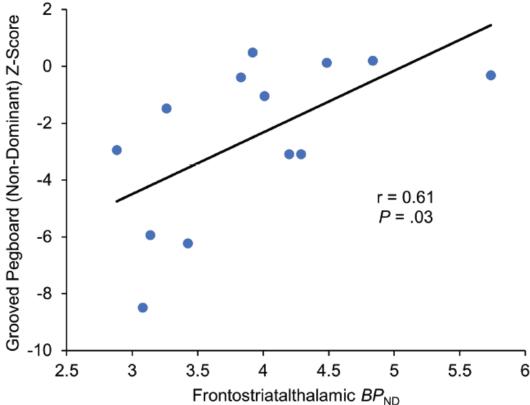






Grooved pegboard test





MAJOR ARTICLE





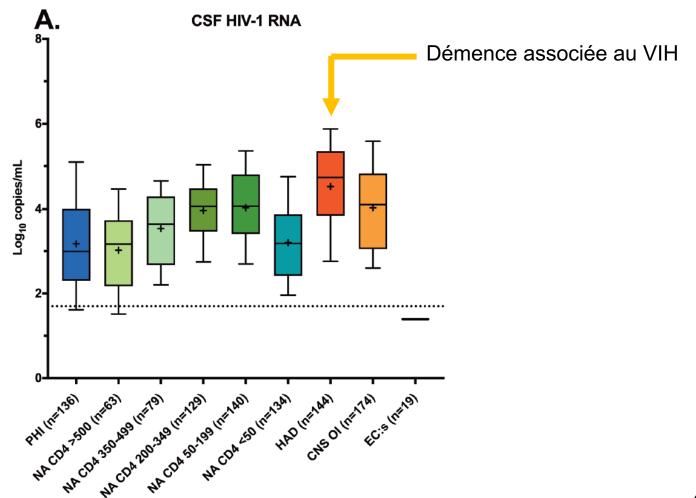


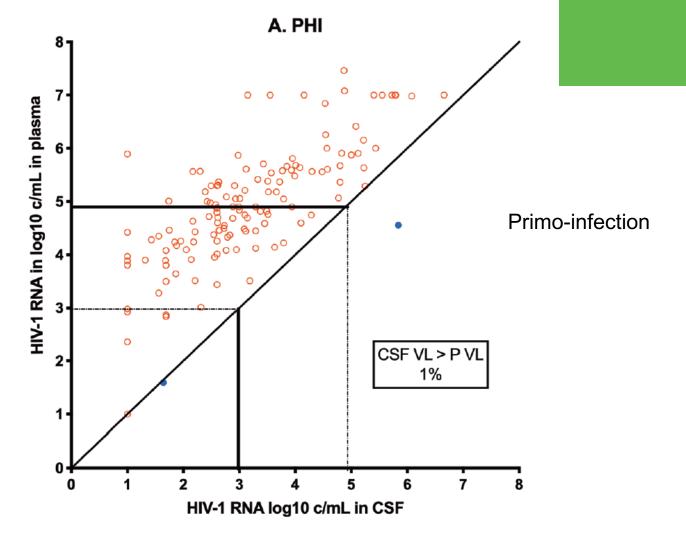
Cerebrospinal Fluid Viral Load Across the Spectrum of Untreated Human Immunodeficiency Virus Type 1 (HIV-1) Infection: A Cross-Sectional Multicenter Study

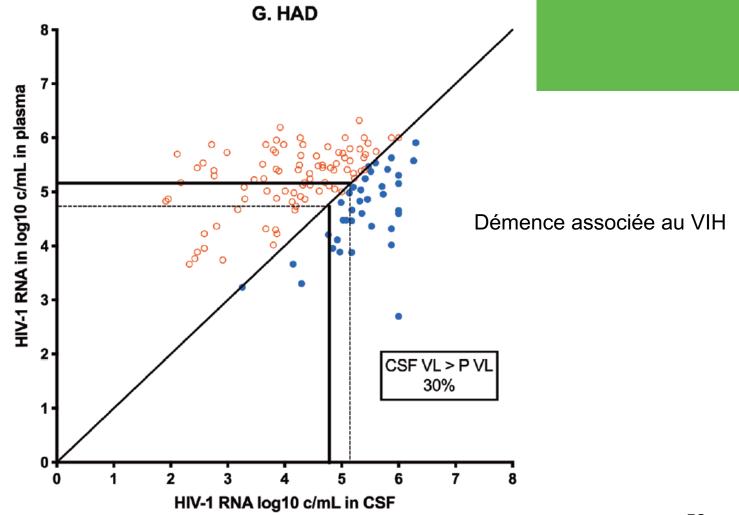
Gustaf Ulfhammer,^{1,2,©} Arvid Edén,^{1,2} Andrea Antinori,³ Bruce J. Brew,⁴ Andrea Calcagno,^{5,©} Paola Cinque,⁶ Valentina De Zan,⁶ Lars Hagberg,^{1,2} Amy Lin,⁷ Staffan Nilsson,⁸ Cristiana Oprea,⁹ Carmela Pinnetti,³ Serena Spudich,¹⁰ Mattia Trunfio,⁵ Alan Winston,¹¹ Richard W Price,¹² and Magnus Gisslén,^{1,2}

¹Department of Infectious Diseases, Institute of Biomedicine, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden; ²Region Västra Götaland, Sahlgrenska University Hospital, Department of Infectious Diseases, Gothenburg, Sweden; ³National Institute of Infectious Diseases L. Spallanzani, Rome, Italy; ⁴Departments of Neurology and Immunology, Peter Duncan Neurosciences Unit St Vincent's Centre for Applied Medical Research, St Vincent's Hospital, University of New South Wales and University of Notre Dame, Australia; ⁵Unit of Infectious Diseases, Department of Medical Sciences, University of Torino, Torino, Italy; ⁶Scientific Institute San Raffaele, Milan, Italy; ⁷Stanford University School of Medicine, Department of Biomedical Data Science, Palo Alto, California, USA; ⁸Mathematical Sciences, Chalmers University of Technology, Gothenburg, Sweden; ⁹Carol Davila University of Medicine and Pharmacy, Victor Babes Clinical Hospital for Infectious and Tropical Diseases, Bucharest, Romania; ¹⁰Yale University, New Haven, Connecticut, USA; ¹¹Imperial College, London, United Kingdom; and ¹²University of California at San Francisco, San Francisco, California, USA

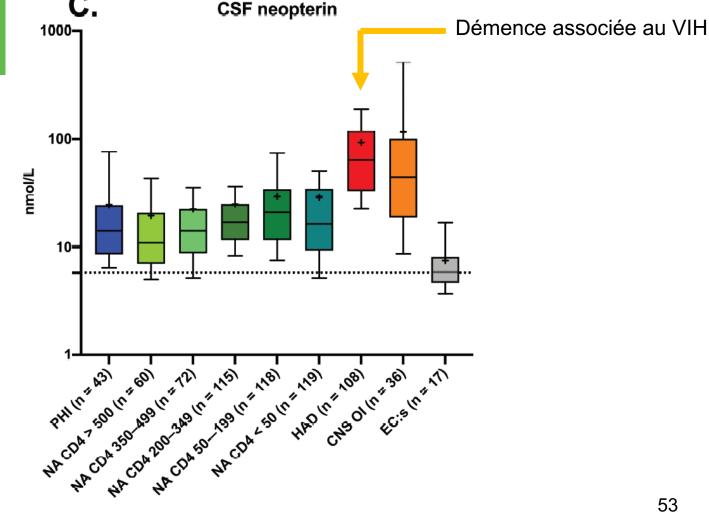












MAJOR ARTICLE







Herpes Simplex Virus 2 Meningitis in Adults: A Prospective, Nationwide, Population-Based Cohort Study

Anna Jakobsen,^{1,a} Marie Thaarup Skov,^{1,a} Lykke Larsen,^{2,3} Pelle Trier Petersen,⁴ Christian Brandt,^{4,5} Lothar Wiese,⁵ Birgitte Rønde Hansen,⁶ Hans Rudolf Lüttichau,⁷ Malte Mose Tetens,⁸ Jannik Helweg-Larsen,⁸ Merete Storgaard,⁹ Henrik Nielsen,^{1,10} and Jacob Bodilsen^{1,0}; for the DASGIB study group

¹Department of Infectious Diseases, Aalborg University Hospital, Aalborg, Denmark; ²Research Unit for Infectious Diseases, Odense University Hospital, Odense, Denmark; ³University of Southern Denmark, Odense, Denmark; ⁴Department of Pulmonary and Infectious Diseases, Nordsjællands Hospital, Hillerød, Denmark; ⁵Department of Infectious Diseases, Sjælland University Hospital, Roskilde, Denmark; ⁶Department of Infectious Diseases, Herlev Gentofte Hospital, Copenhagen, Denmark; ⁸Department of Infectious Diseases, Rigshospitalet, Copenhagen, Denmark; ⁹Department of Infectious Diseases, Aarhus University Hospital, Aarhus, Denmark; and ¹⁰Department of Clinical Medicine, Aalborg University, Aalborg, Denmark

205 épisodes chez 191 patients

- 76% de femmes, âge médian 35 ans
- 31% avec un antécédent de méningite virale
- 9% d'immunodéprimés

Clinique :

- Céphalées 94%
- « History of fever » : 76%
- Raideur de nuque 54%
- 96% ont reçu du (val)aciclovir
 - Pendant une médiane de 10 jours (16% uniquement par voie orale)



Table 3. Outcome in 205 Adult Patients With Herpes Simplex Virus 2 Meningitis Diagnosed at Danish Departments of Infectious Diseases, 2015–2020

	Patients, No./Total No. Assessed (%) by Time of Outcome Assessment					
Outcome by GOS or GOSE Score	Discharge	1 mo	3 mo	6 mo		
GOS score						
1 (Dead)						
2 (Vegetative state)						
3 (Severe disability)						
4 (Moderate disability)						
5 (Good recovery)						
GOSE score						
1 (Dead)						
2 (Vegetative state)						
3 (Lower severe disability)						
4 (Upper severe disability)						
5 (Lower moderate disability)						
6 (Upper moderate disability)						
7 (Lower good recovery)						
8 (Upper good recovery)						

 ${\bf Abbreviations:\ GOS,\ Glasgow\ Outcome\ Scale;\ GOSE,\ Extended\ GOS.}$

Outcome in 205 Adult Patients With Herpes Simplex Virus 2 Meningitis Diagnosed at Danish Departments of Infectious Diseases, 2015–2020 Table 3.

	Pati	Patients, No./Total No. Assessed (%) by Time of Outcome Assessment					
Outcome by GOS or GOSE Score	Discharge	1 mo	3 mo	6 mo			
GOS score							
1 (Dead)	0	0	0	0			
2 (Vegetative state)	0	0	0	0			
3 (Severe disability)	1/205 (0.5)	1/197 (0.5)	1/192 (0.5)	1/181 (0.6)			
4 (Moderate disability)	62/205 (30)	43/197 (22)	35/192 (18)	18/181 (10)			

142/205 (69)

0

0

1/197 (0.5)

72/197 (37)

68/197 (35)

4 (Upper severe disability) 0 5 (Lower moderate disability) 23/197 (12) 6 (Upper moderate disability) 33/197 (17)

Abbreviations: GOS, Glasgow Outcome Scale; GOSE, Extended GOS.

5 (Good recovery)

2 (Vegetative state)

3 (Lower severe disability)

7 (Lower good recovery)

8 (Upper good recovery)

GOSE score 1 (Dead)

153/197 (78)

0

0

1/190 (0.5)

0

10/190 (5)

29/190 (15)

74/190 (39)

76/190 (40)

156/192 (81)

0

1/183 (0.6)

0

6/183 (3)

20/183 (11)

65/183 (36)

91/183 (50)

162/181 (90)

0

0

1/178 (0.6)

0

3/178 (2)

8/178 (4)

65/178 (37)

101/178 (57)

Table 5. Adjusted Analyses of Prognostic Factors for Unfavorable Outcome Among 205 Adult Patients With Herpes Simplex Virus 2 Meningitis Diagnosed at Danish Departments of Infectious Diseases^a

_	RR (95% CI)			
Prognostic Factors	Crude	Adjusted ^b		
Sex				
Male	Reference	Reference		
Female	1.12 (.68–1.85)	1.08 (.65–1.79)		
Age, y				
<35	Reference	Reference		
≥35	1.33 (.88-2.01)	1.28 (.83–1.97)		
Immunocompromise ^c				
No	Reference	Reference		
Yes	1.20 (.64–2.25)	1.07 (.57–2.03)		
CSF leukocyte count, \times 10 \times	6/L			
0–99	Reference	Reference		
100–499	0.94 (.53-1.66)	1.00 (.56–1.77)		
500–999	0.74 (.38–1.45)	0.81 (.41–1.62)		
≥1000	0.73 (.31–1.71)	0.78 (.33–1.84)		



1 result(s) found for: meningitis AND hsv-2. Displaying page 1 of 1.

EudraCT Number: 2020-000033-41 Sponsor Protocol Number: AMEN1 Start Date*: 2020-02-17

Sponsor Name: Aalborg University Hospital

Full Title: Aciclovir for HSV-2 meningitis: A double-blind randomised controlled trial (AMEN)

Medical condition: Viral meningitis caused by Herpes simplex virus 2

Disease: Version SOC Term Classification Code Term Level
21.1 100000004862 10047469 Viral meningitis LLT

Population Age: Adults Gender: Male, Female

Trial protocol: DK (Ongoing)

Trial results: (No results available)

Méningite tuberculeuse et dose de rifampicine

Travaux antérieurs :

- 10 mg/kg: faibles taux dans le LCS
- Intérêt d'une dose plus élevée
 - 13 mg/kg/j IV : amélioration de la survie
 - 15 mg/kg/j PO : pas d'amélioration de la survie
- Méta-analyse (sur 3 études) :
 - Association entre concentration sérique de rifampicine et survie



MAJOR ARTICLE







High-Dose Oral and Intravenous Rifampicin for the Treatment of Tuberculous Meningitis in Predominantly Human Immunodeficiency Virus (HIV)-Positive Ugandan Adults: A Phase II Open-Label Randomized Controlled Trial

Fiona V. Cresswell, ^{1,2,3,©} David B. Meya, ² Enock Kagimu, ² Daniel Grint, ⁴ Lindsey te Brake, ⁵ John Kasibante, ² Emily Martyn, ¹ Morris Rutakingirwa, ² Carson M. Quinn, ⁶ Micheal Okirwoth, ² Lillian Tugume, ² Kenneth Ssembambulidde, ² Abdu K. Musubire, ² Ananta S. Bangdiwala, ⁷ Allan Buzibye, ² Conrad Muzoora. ⁸ Elin M. Svensson, ^{5,9} Rob Aarnoutse, ⁵ David R. Boulware, ^{10,a} and Alison M. Elliott^{1,3,a}

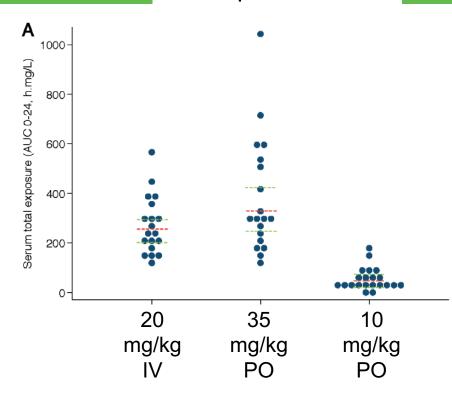
61 participants dont 56 VIH+; 3 doses de rifampicine :

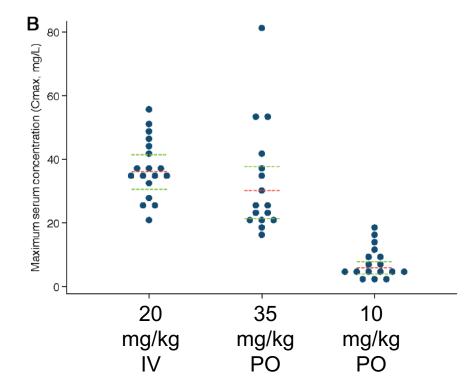
- N=21 : 10 mg/kg/j PO
- N=20 : 20 mg/kg/J IV
- N=20 : 35 mg/kg/J PO
- + isoniazide, pyrazinamide, éthambutol, et corticoïdes

23^{cs} Bordeaux

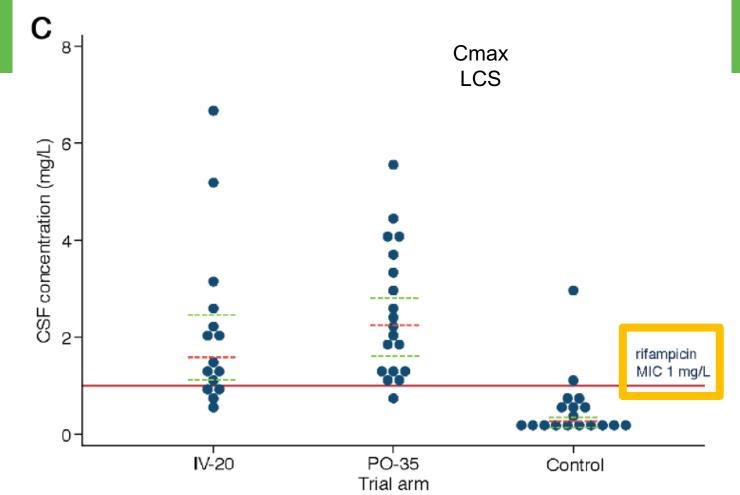
Aire sous la courbe plasma

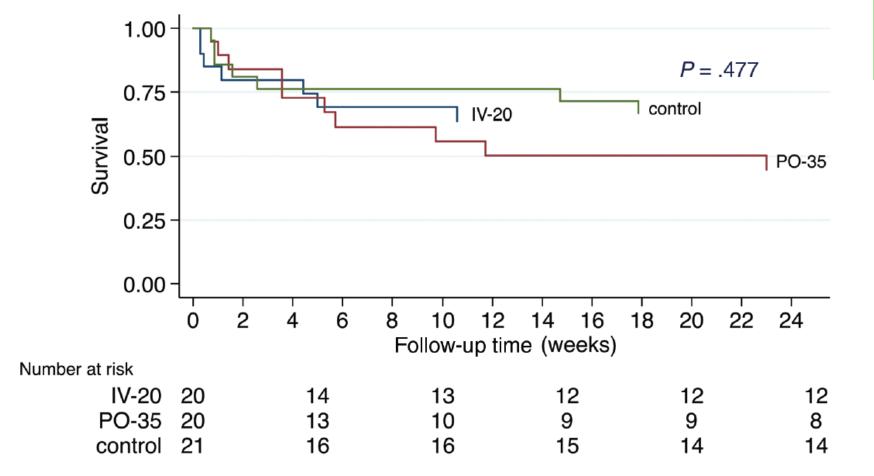














Hospital-treated infectious diseases and the risk of dementia: a large, multicohort, observational study with a replication cohort



Pyry N Sipilä, Nelli Heikkilä, Joni V Lindbohm, Christian Hakulinen, Jussi Vahtera, Marko Elovainio, Sakari Suominen, Ari Väänänen, Aki Koskinen, Solja T Nyberq, Jaana Pentti, Timo E Strandberq, Mika Kivimäki



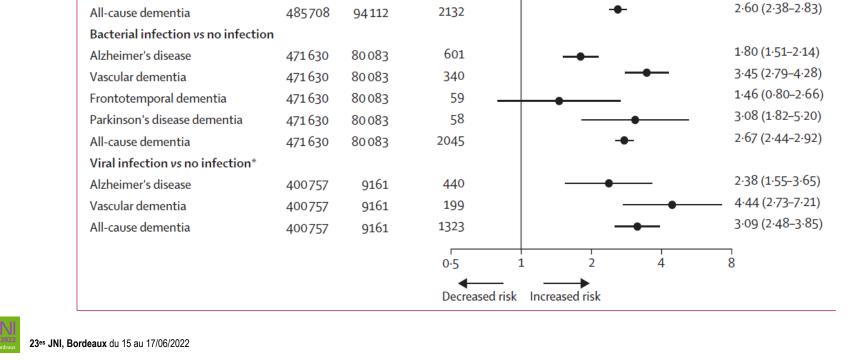
2 cohortes:

- 1986-2005 : 260 490 personnes, suivi médian 15 ans
 - 77 108 ont au moins une infection motivant une hospitalisation (avant tout diagnostic de démence)
 - 2 768 développent une démence
- 2006-2010 : 485 708 personnes, suivi médian 8 ans
 - 2 132 développent une démence



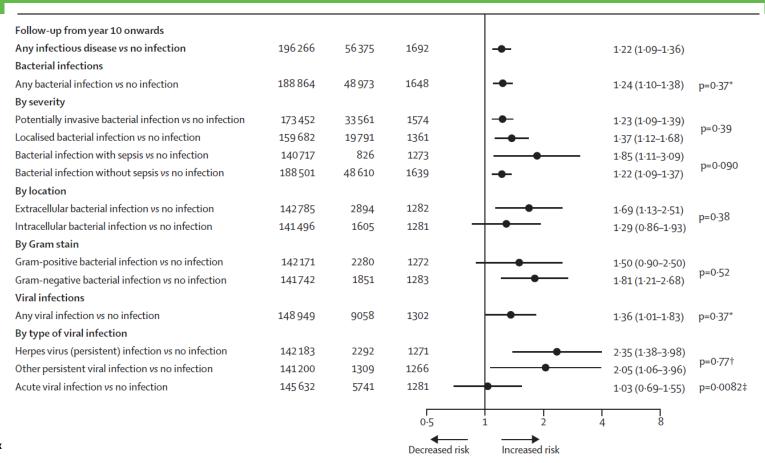
	Total (N)	Exposed (n)	Dementia (n)		aHR (95% CI)	Subgroup difference
Full follow-up						1
Any infectious disease vs no infection	260490	77 108	2768	•	1.48 (1.37–1.60)	
Bacterial infections						
Any bacterial infection vs no infection	252 361	68 979	2696	-	1.50 (1.39–1.63)	p=0·75*
By severity						
Potentially invasive bacterial infection vs no infection	234320	50 938	2515	-	1.47 (1.34–1.60)	p<0.0001
Localised bacterial infection vs no infection	209 983	26 601	2132	-	2.03 (1.81-2.28)	p<0.0001
Bacterial infection with sepsis vs no infection	186 302	2920	1844		1.69 (1.29-2.21)	0.65
Bacterial infection without sepsis vs no infection	251534	68152	2681	•	1.51 (1.39-1.63)	p=0.65
By location						
Extracellular bacterial infection vs no infection	188 237	4855	1862	-	1.92 (1.52–2.42)	p=0·12
Intracellular bacterial infection vs no infection	185 528	2146	1827	—	1.45 (1.06-2.00)	p=0.12
By Gram stain						
Gram-positive bacterial infection vs no infection	187343	3961	1846		1.90 (1.46-2.47)	p=0.80
Gram-negative bacterial infection vs no infection	186560	3178	1844		1.76 (1.34-2.30)	p=0.00
Viral infections						
Any viral infection vs no infection	194717	11335	1887	→	1.70 (1.39-2.08)	p=0·75*
By type of viral infection						
Herpes virus (persistent) infection vs no infection	186149	2767	1812		2.10 (1.40-3.14)	
Other persistent viral infection vs no infection	185 045	1663	1803		2 ·50 (1·51-4·17)	p=0·57†
Acute viral infection vs no infection	190711	7329	1850	—	1.48 (1.15–1.91)	p=0·035‡
			0.5	1 2	4 8	
3es JNI, Bordeaux du 15 au 17/06/2022			Decreased risk	Increased risk		

	Total (N)	Exposed (n)	Dementia (n)		Model 1 aHR (95% CI)
Any infection vs no infection					
Alzheimer's disease	485708	94112	627		1.80 (1.53-2.13)
Vascular dementia	485708	94112	352		3.28 (2.65-4.04)
Frontotemporal dementia	485708	94112	66	—	1.92 (1.14-3.24)
Parkinson's disease dementia	485708	94112	59		2.81 (1.67-4.72)
All-cause dementia	485708	94112	2132	-	2.60 (2.38-2.83)
Bacterial infection vs no infection			ì		
Alzheimer's disease	471 630	80 083	601		1.80 (1.51-2.14)
Vascular dementia	471 630	80 083	340		3.45 (2.79-4.28)
Frontotemporal dementia	471 630	80 083	59	<u> </u>	1.46 (0.80–2.66)
Parkinson's disease dementia	471 630	80 083	58		3.08 (1.82-5.20)
All-cause dementia	471630	80 083	2045	•	2.67 (2.44–2.92)
Viral infection vs no infection*			ì		
Alzheimer's disease	400757	9161	440		2.38 (1.55–3.65)
Vascular dementia	400757	9161	199		4.44 (2.73–7.21)
All-cause dementia	400757	9161	1323		3.09 (2.48–3.85)
			0.5	1 2 4	8
			Decreased risk	Increased risk	





En regardant plus de 10 ans après l'infection ...





New confirmed cases of Covid-19 in France

Seven-day rolling average of new cases

