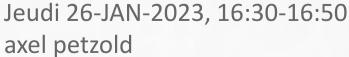


Diagnostic et classification de la névrite optique

https://doi.org/10.1016/S1474-4422(22)00200-











Divulgations

NIHR UK, UCSF Stichting MS Research NL Novartis, Heidelberg Academy







- Contexte
- Procédure Delphi
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Mon permier patient

Lyon, 5-JAN-1994

• Je n'ai rien trouvé sauf l'atteinte de la vision, [...]. on a trouvé aussi une latence dans les potentiels évoques visuels. Ça peut être une atteinte directe de nerf optique. On féra des examens supplémentaires, comme la ponction lombaire (SEP, Chlamydias, Syphilis, tuberculose, Lyme).









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greatly advanced the diagnosis and follow-up of patients with optic neuropathies. Also reviewed in this Series, new evidence shows that optic neuritis can frequently indicate autoimmune neurological disorders, including multiple sclerosis and the recently recognised disease categories of aquaporin-4

Series

neuropathies, including immunotherapies and genetic therapies.

Imaging of the optic nerve: technological advances and future prospects

Optic neuropathies can reflect a wide range of pathophysiologies, both acquired and inherited. This Series provides an update on the clinical, imaging, and laboratory findings that differentiate these

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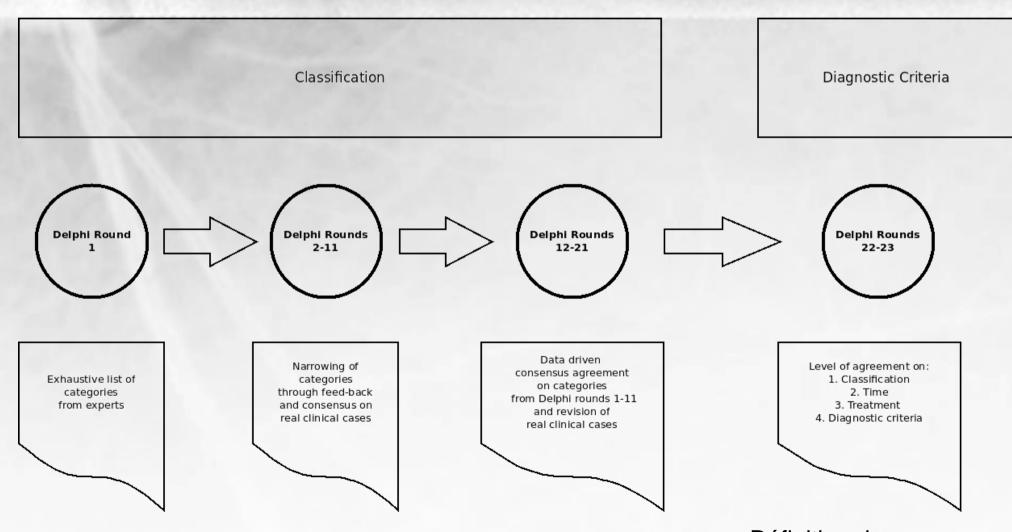
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Procédure Delphi



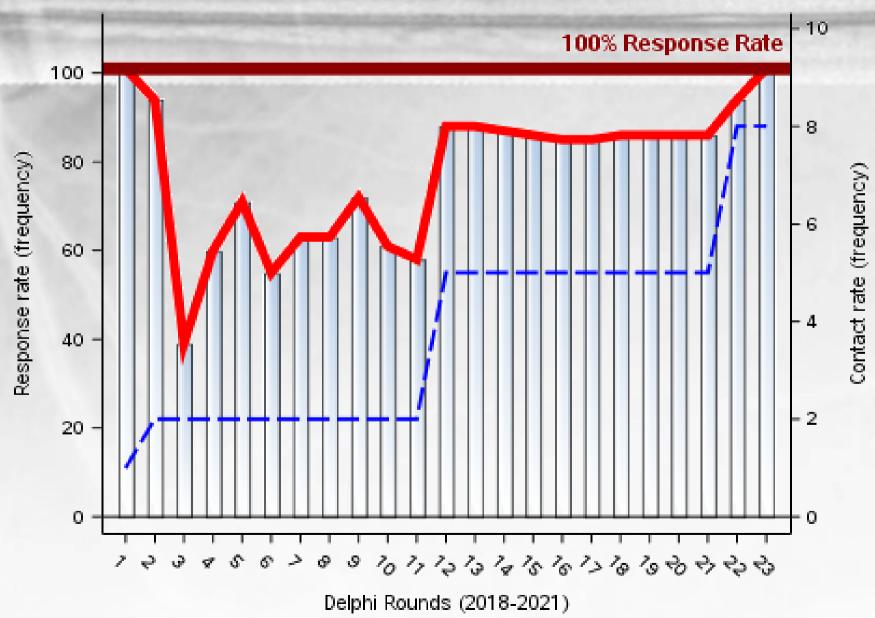








Delphi (2018-2021)









Cas clinique exemplaire



• A 50 year old man had developed a febrile illness with fatigue, anosmia and loss of taste. About 3 weeks later he experienced bilateral retrobulbar pain, worsening on eye movements with visual loss. Visual loss progressed over 7 days before he presented to Moorfields Eye Hospital. Visual acuities were reduced to RE hand movement and LE count finger. There was a right RAPD and bilateral swollen optic discs. He was treated with high dose steroids (1g/day i.v. for 5 days). Within 4 days his vision recovered to a VA of RE 6/9 and LE 6/5.

I have seen similar case(s) before /This is a new case for me

His MRI (coronal T1 with contrast, Figure 29) showed contrast enhancement of both optic nerves and nerve sheets. There were no lesions typical for multiple sclerosis elsewhere in the brain.

This information changed my clinical working diagnosis / This information confirmed my clinical working diagnosis

 A nasopharyngeal swab was positive for COVID (PCR). Routine blood tests were normal. He was seronegative for AQP4 and MOG. The CSF showed matched oligoclonal bands.

This makes a definite diagnosis /

This is non-specific

 I think this patient has a diagnosis of (please type your own answer here) [...]



Figure 29: Case 5 MRI.

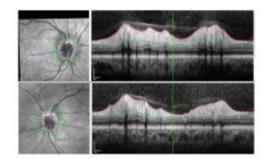


Figure 30: Case 5 OCT.

- Do you think the three week interval between onset of COVID and his bilateral optic neuritis is acceptable to strongly consider this to be a post-infectious optic neuritis? yes/no
 - The bilateral optic disc swelling was documented by OCT (Figure 30)







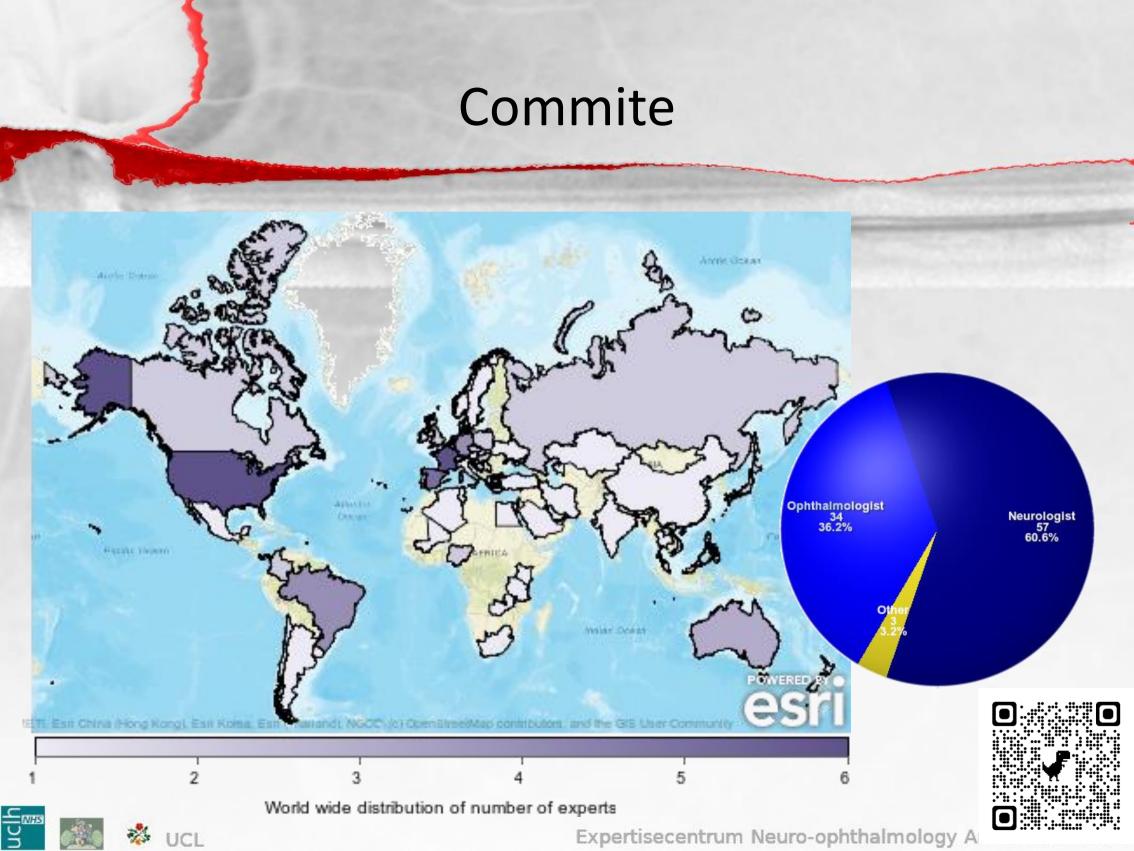


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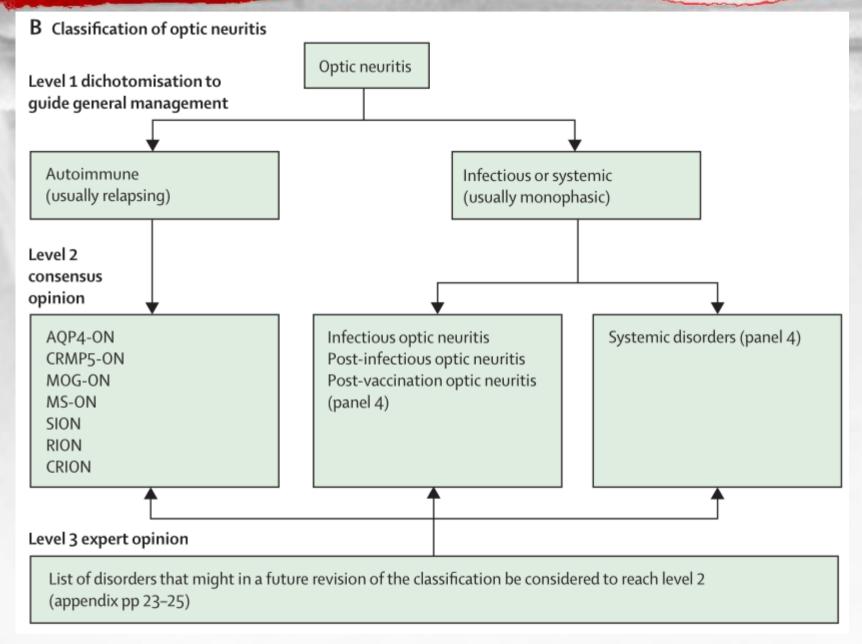
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Classification

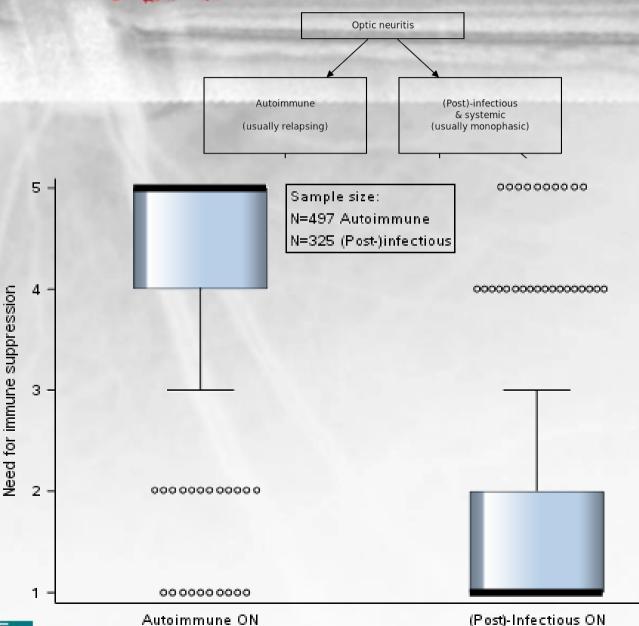








Niveau 1 de la classification



Niveau 1: 95% consensus

Les résultats de la procédure itérative Delphi ronde 2-21

Relevant pour la prise en charge des malades



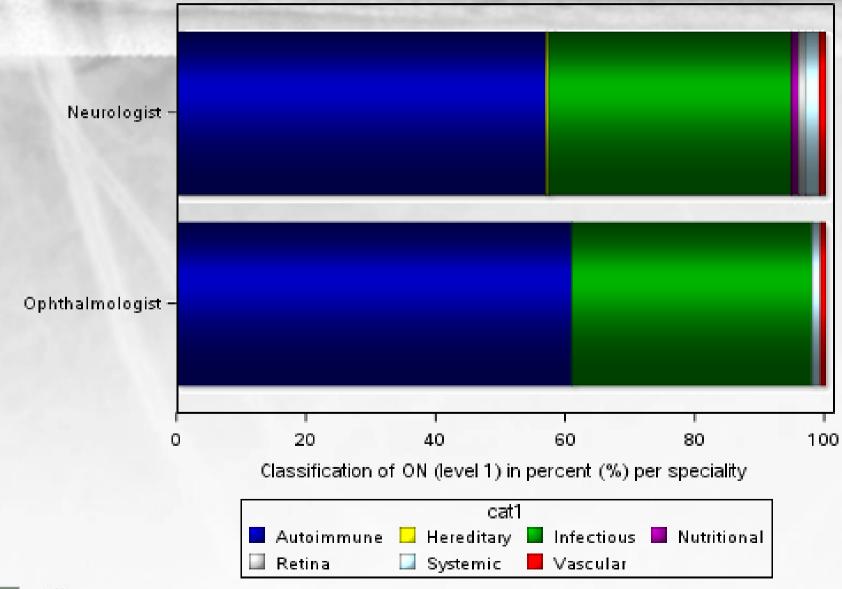








Consensus: spécialiste

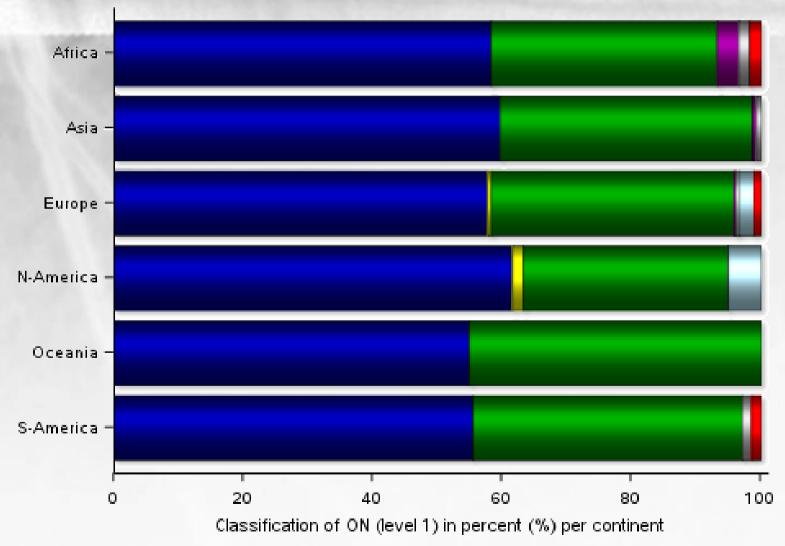








Consensus: continental

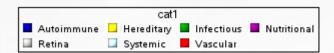














Clinique

Panel 3: Signs and symptoms aiding the clinical classification of optic neuritis and exclusion of alternative pathologies

Clinical presentation*:

- Sequence of symptoms over time
- Preceding infection or vaccination
- Ethnic background or location
- Progression of pain or visual loss (>2 weeks)
- Absence of pain
- Associated epilepsy†
- Simultaneous bilateral ON
- Evidence of retinitis or retinal dysfunction from OCT or electrophysiology
- Presence of severe optic disc oedema
- Absence of optic disc oedema
- Unexplained optic atrophy in either eye at onset
- Fever or other systemic symptoms and signs‡
- Other focal neurological signs

Disease course§:

- Progressive loss of vision
- Progressive retinal layer atrophy for more than 12 months
- Sequential bilateral optic neuritis
- Absence of spontaneous recovery (>3 months)
- Corticosteroid dependence

Medical history:

- · Medical history of cancer or diseases listed in panel 4
- Family history of a suspected hereditary optic neuropathy
- Family history of other mitochondrial cytopathy









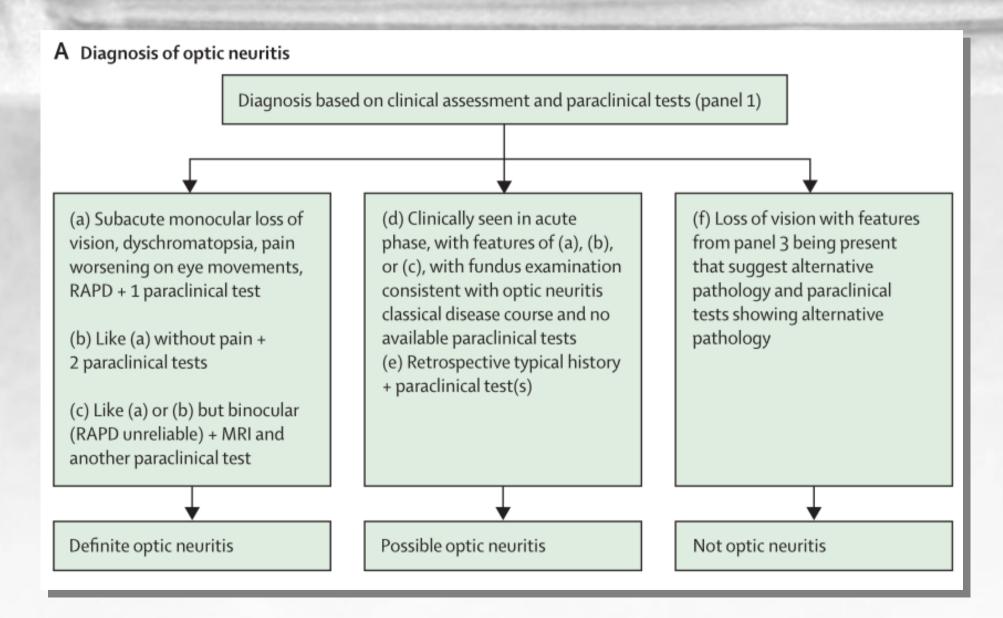
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Diagnostique









Panel 1: Diagnostic criteria for optic neuritis

Clinical criteria

- A: Monocular, subacute loss of vision associated with orbital pain worsening on eye movements, reduced contrast and colour vision, and relative afferent pupillary deficit
- B: Painless with all other features of (A).
- C: Binocular loss of vision with all features of (A) or (B).

Paraclinical criteria

- OCT: Corresponding optic disc swelling acutely or an inter-eye difference in the mGCIPL of >4% or >4 μ m or in the pRNFL of >5% or >5 μ m within 3 months after onset.
- MRI: Contrast enhancement of the symptomatic optic nerve and sheaths acutely or an intrinsic signal (looking brighter) increase within 3 months.
- Biomarker: AQP4, MOG, or CRMP5 antibody seropositive, or intrathecal CSF IgG (oligoclonal bands).

Application of the clinical and paraclinical criteria

Definite optic neuritis

- (A) and one paraclinical test
- (B) and two paraclinical tests of different modality
- (C) and two different paraclinical tests of which one is MRI

Possible optic neuritis

- (A), (B), or (C) if seen acutely but in absence of paraclinical tests, with fundus
 examination typical for optic neuritis and consistent with the natural history during
 follow-up
- Positive paraclinical test or tests, with a medical history suggestive of optic neuritis







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Résumé

- Névrite optique 2002-2022: développement d'une perspective international
- Critère nouvelles avec tomographie par cohérence optique (sensitivité 61-100%), IRM (sensitivité 22-44%), biomarqueur (spécificité >95%)
- Classification nouvelle que priorise la pratique clinique
- Nous avisons des révision future















