



CLINICIAN RESOURCES

MINDGARDENS FUNCTIONAL NEUROLOGICAL SYMPTOM DISORDERS (FND) CLINIC

The FND Clinic aims to develop a gold standard model of care for people with this treatable neuropsychiatric disorder, and improve awareness and knowledge among health care professionals.

UNDERSTANDING FND

KEY ARTICLES

Diagnosis and management of functional neurological disorder

Aybek S, Perez D. *BMJ* 2022;376:o64

<https://doi.org/10.1136/bmj.o64>

Access: available via CIAP or via Google Scholar

Read for: A comprehensive review of diagnosis and management

Current Concepts in Diagnosis and Treatment of Functional Neurological Disorders

Espay AJ, Aybek S, Carson A, et al. *JAMA Neurol.* 2018 Sep 1; 75(9): 1132–1141.

Access: doi:10.1001/jamaneurol.2018.1264; author manuscript at

www.ncbi.nlm.nih.gov/pmc/articles/PMC7293766/

Read for: An overview of clinical signs and treatment principles

Changing the culture of care for children and adolescents with functional neurological disorder

Kozłowska K, Sawchuk T, Waugh JL, et al. *Epilepsy Behav Rep* 2021 Sep 23;16:100486.

Access: [open](https://doi.org/10.1016/j.ebr.2021.100486) via doi.org/10.1016/j.ebr.2021.100486

Read for: developing FND-informed clinician-patient encounters and interventions - concepts relevant across the lifespan.

PATIENT AND CARER SUPPORTS

FND Australia Support Services

<https://fndaus.org.au/>

FND Hope

<https://fndhope.org/>

WEBSITES AND WEBINARS

Start here:

The Australian FND network

- **free online FND learning module for clinicians** ([link](#))
- clinical tools ([link](#)) including learning guide ([link](#))

<https://fndaustralia.com.au/>

The FND Society

- professional multidisciplinary society for those who have an interest in FND
- range of webinars and online resources for health care professionals and the FND community

<https://www.fndsociety.org/>

Neurosymbols.org

- comprehensive overview of FND symptoms, formulation and treatment across disciplines
- patient stories ([link](#))

"Non-Epileptic Attacks" website

- Taking control of your seizures leaflet ([link](#))
- Resources ([link](#))

<https://sites.google.com/sheffield.ac.uk/non-epileptic-attacks/>

"Non Epileptic Seizures" website

- extensive information for health professionals

<https://nonepilepticseizures.com/>

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MANAGING FND

A practical review of functional neurological disorder (FND) for the general physician

Bennett K, Diamond C, Hoeritzauer I, et al. Clin Med (Lond). 2021;21(1):28-36.

Access: open via Pubmed <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7850207/>

Read for: Helpful advice on communicating about FND and addressing myths of FND

Management of Functional Neurological Disorders (FND): Experience from a Swiss FND Clinic

Barbey A, Pjanic I, Studer H, Bischoff N, Bassetti CLA, Aybek S. Clin Transl Neurosci 2022; 6(1):2.

Access: open via <https://www.mdpi.com/2514-183X/6/1/2>

Read for: Overview of multidisciplinary management

BOOKS

- **Functional Movement Disorder: An Interdisciplinary Case-Based Approach.**

LaFaver, K., et al. 2022. Access via <https://link.springer.com/book/10.1007/978-3-030-86495-8>

- **Treatment of Functional Seizures in Children and Adolescents: A Mind-Body Manual**

Savage et al. 2022. Open access via www.australianacademicpress.com.au

- **Treating Nonepileptic Seizures: Therapist Guide, Treatments That Work**

LaFrance et al. 2015 New York, Oxford Academic.

- **Overcoming Functional Neurological Symptoms: A Five Areas Approach**

Williams, C et al. 2011 CRC Press.

FURTHER READING

Functional neurological disorder: new subtypes and shared mechanisms

Hallett M, Aybek S, Dworetzky BA, McWhirter L, Staab JP, Stone J. Lancet Neurol 2022 Jun;21(6):537-550

Access: via CIAP or via [https://doi.org/10.1016/S1474-4422\(21\)00422-1](https://doi.org/10.1016/S1474-4422(21)00422-1)

Read for: An overview of functional seizures, movement disorders, cognitive disorders and dizziness; table on diagnostic and treatment pitfalls in FND (page 9)

A Decade of Progress in Motor Functional Neurological Disorder: continuing the momentum

Perez DL, Edwards MJ, Nielsen G, et al. J Neurol Neurosurg Psychiatry 2021;92:668-677.

Access: open via JNNP <https://jnnp.bmj.com/content/92/6/668.long>

Why functional neurological disorder is not feigning or malingering

Edwards, M.J., Yogarajah, M. & Stone, J. Nat Rev Neurol 2023. <https://doi.org/10.1038/s41582-022-00765-z>

Consumer and carer experiences

Experiences of FND in Australia: a consumer and carer survey

National Mental Health Commission Summary Report July 2019

Pathophysiology of FND

A framework for understanding the pathophysiology of functional neurological disorder

Drane DL, Fani N, Hallett M, et al. CNS Spectrums 2021;26(6):555-561.

Access: open via Pubmed <https://pubmed.ncbi.nlm.nih.gov/21257981/>

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PROFESSION-SPECIFIC RESOURCES - PHYSICIAN

Explaining functional disorders in the neurology clinic: a photo story

Carson A, Lehn A, Ludwig L, et al. Pract Neurol 2016;16:56–61.

Access: open via Google Scholar

Read for: Helpful advice on communicating about FND

Recognising and explaining functional neurological disorder

Stone J, Burton C, Carson A. BMJ 2020;371:m3745

Access: available via CIAP or via <https://doi.org/10.1136/bmj.m3745>

PROFESSION-SPECIFIC RESOURCES - PSYCHOLOGY

Using evidence-based psychotherapy to tailor treatment for patients with functional neurological disorders

Myers L, Sarudiansky M, Korman G et al. Epilepsy & Behavior Reports 2021;16 100478. Access: open <https://www.sciencedirect.com/science/article/pii/S2589986421000526>

Read for: overview of psychotherapeutic approaches in FND, suitability of treatment approaches. Refer to the remainder of this open access [special issue](#) for further information on psychotherapy

e.g. **Remote delivery of cognitive behavioral therapy to patients with functional neurological disorders:**

Promise and challenges Lin A, Espay A. Epilepsy & Behavior Reports 16 2021;16 100469.

COgnitive Behavioural Therapy for Dissociative (Non-Epileptic) Seizures - CODES RCT

CODES trial results page <https://www.codestrial.org/RESULTS>

Psychotherapy page at neurosymptoms.org

<https://www.neurosymptoms.org/en/treatment/psychological-therapy/>

Systematic review of psychotherapy for adults with functional neurological disorder

Gutkin M, McLean L, Brown R, et al. J Neurol Neurosurg Psychiatry 2021;92:36–44.

Access: via [neurosymptoms.org](https://www.neurosymptoms.org)

Management of Functional Neurological Disorders (FND): Experience from a Swiss FND Clinic

Barbey A, Pjanic I, Studer H, Bischoff N, Bassetti CLA, Aybek S. Clin Transl Neurosci 2022; 6(1):2.

Access: open via <https://www.mdpi.com/2514-183X/6/1/2>

PROFESSION-SPECIFIC RESOURCES - OCCUPATIONAL THERAPY

Occupational therapy consensus recommendations for functional neurological disorder

Nicholson C, Edwards MJ, Carson AJ, et al. J Neurol Neurosurg Psychiatry 2020;91:1037–1045.

Access: via [neurosymptoms.org](https://www.neurosymptoms.org)

Occupational therapy page at [neurosymptoms.org](https://www.neurosymptoms.org)

<https://www.neurosymptoms.org/en/treatment/occupational-therapy/>

Read for: overview of OT management approach and link to consensus recommendations

Videos: Occupational Therapy and FND:

<https://www.youtube.com/watch?v=jspkUDDY4go>

<https://www.youtube.com/watch?v=fmgYDveMtoc>

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PROFESSION-SPECIFIC RESOURCES - PHYSIOTHERAPY

[Physiotherapy for functional motor disorders: a consensus recommendation](#)

Nielsen G, et al. J Neurol Neurosurg Psychiatry 2015;86:1113-1119.

See also: Physiotherapy for functional motor disorders: a consensus recommendation (Long Version)

Nielsen G, et al. J Neurol Neurosurg Psychiatry 2014;0:1-16. Access: [via neurosymptoms.org](http://www.neurosymptoms.org)

Physiotherapy page at neurosymptoms.org

<https://www.neurosymptoms.org/en/treatment/physiotherapy-exercise/>

Read for: overview of physiotherapy management approach and link to consensus recommendations

Videos:

Physiotherapist Glen Nielsen <https://youtu.be/MovHKkQR6Rk>

Physiotherapist in FND Webinar <https://youtu.be/QTb4B6uujVc>

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Barbey A, Pjanic I, Studer H, Bischoff N, Bassetti CLA, Aybek S. Clin Transl Neurosci 2022; 6(1):2.

Access: open via <https://www.mdpi.com/2514-183X/6/1/2>

Read for: overview of physiotherapy intervention

PROFESSION-SPECIFIC RESOURCES - SPEECH PATHOLOGY

[Management of functional communication, swallowing, cough and related disorders: consensus recommendations for speech and language therapy](#)

Baker J, Barnett C, Cavalli L, et al. J Neurol Neurosurg Psychiatry 2021;92:1112-1125

Access: via [neurosymptoms.org](http://www.neurosymptoms.org)

Speech pathology page at neurosymptoms.org

<https://www.neurosymptoms.org/en/treatment/speech-and-language-therapy/>

Read for: overview of SP management approach and link to consensus recommendations

PROFESSION-SPECIFIC RESOURCES - NURSING

FND Learning Guide for nurses

<https://fndaustralia.com.au/resources/resources/clinical-tools.html>

Specialist guide to provide nursing staff with an understanding of FND and how to engage with patients with FND

See "The nursing role in FND" pages 16-18