



# 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

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#### 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/](http://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** 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/>

# CLINICIAN RESOURCES

## 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](http://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/>

# CLINICIAN RESOURCES

## MANAGING FND

### 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.codelistrial.org/RESULTS>

#### **Psychotherapy page at [neurosymptoms.org](https://www.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>

# CLINICIAN RESOURCES

## MANAGING FND

### PROFESSION-SPECIFIC RESOURCES - PHYSIOTHERAPY

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#### **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>

#### **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 physiotherapy intervention

### PROFESSION-SPECIFIC RESOURCES - SPEECH PATHOLOGY

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#### **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

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#### **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