

# Psychogenic Syncope

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## INTRODUCTION

Syncope is a common cause of temporary loss of consciousness, resulting from a reduction in cerebral blood flow. Psychogenic syncope, however, refers to the loss of consciousness without any observed disturbance in cerebral perfusion. Thus, it is not considered an actual syncope attack and is more appropriately termed pseudosyncope (1). Psycogenic syncope is discussed in detail in this section after a brief definition and classification of syncope.

# TRANSIENT LOSS OF CONSCIOUSNESS (TLOC)

TLOC can be identified by a sudden onset of unconsciousness, that lasts for a brief time and resolves spontaneously, resulting in total recovery (1). To diagnose TLOC, a thorough patient history should be taken, and the presence of the following three items is required:

- 1. Lack of normal motor control, which may manifest as flaccidity or rigidity, accompanied by sudden movements such as jerking, leading to loss of postural tone and a fall.
- 2. Loss of normal reaction ability.
- 3. Occurrence of amnesia during the event.

Non-traumatic TLOC is classified into four main groups: syncope, epileptic seizures, psychogenic (functional) TLOC, and other disorders causing TLOC

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duction in functional seizure frequency, while sertraline alone had no significant effect on reducing seizures (27%) (40).

#### CONCLUSION

PPS has a major influence on the patient's life and leads to decreased functionality. As a result, a delay in diagnosis can have a negative impact on the process. PPS is still under- recognized or misdiagnosed today, resulting in inadequate treatment and a poor prognosis. Key points for the management of PPS include establishing a good rapport with the patient, explaining the disorder and its psychosomatic pathomechanism to the patient, determining the influencing factors, handling the situation in a multidisciplinary manner, building a therapeutic model together with the patient, changing his/her illness beliefs, maladaptive thoughts, and behaviours, providing the required medical treatment for coexisting disorders, maintaining ongoing contact with the patient, and helping the patient develop coping strategies. The majority of the information on PPS comes from data on PNES and conversion disorder. Therefore, this area is still considered understudied, and much more research is needed in this field.

## REFERENCES

- van Dijk JG, Wieling W. Pathophysiological basis of syncope and neurological conditions that mimic syncope. *Progress in cardiovascular diseases*. 2013;55:345-356. doi:10.1016/j. pcad.2012.10.016
- van Dijk JG, Thijs RD, Benditt DG, Wieling W. A guide to disorders causing transient loss of consciousness: focus on syncope. *Nature Reviews Neurology* 2009;5:438-448. doi:10.1038/ nrneurol.2009.99
- Saal DP, van Dijk JG. Classifying syncope. Autonomic Neuroscience: Basic and Clinical 2014;184:3-9. doi: 10.1016/j.autneu.2014.05.007
- 4. Shen WK, Sheldon RS, Benditt DG, Cohen MI, et.al. 2017 ACC/AHA/HRS Guideline for the Evaluation and Management of Patients With Syncope: Executive Summary: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines and the Heart Rhythm Society. *Journal Of The American College Of Cardiology* 2017;70:620-663. doi:10.1016/ j.jacc.2017.03.002
- Probst MA, Kanzaria HK, Gbedemah M, Richardson LD, et.al. National trends in resource utilization associated with ED visits for syncope. *American Journal of Emergency Medicine* 2015;33:998-1001. doi:10.1016/j.ajem.2015.04.030
- 6. Freeman R, Wieling W, Axelrod FB, Benditt DG, et.al. Consensus statement on the definition of orthostatic hypotension, neurally mediated syncope and the postural tachycardia syndrome. *Autonomic Neuroscience: Basic and Clinical.* 2011;161:46-48 11 doi:10.1016/j.autneu.2011.02.004

- Hanna EB. Syncope: etiology and diagnostic approach. *Cleveland Clinic Journal Of Medicine* 2014;81:755-766.doi:10.3949/ccjm.81a.13152.
- 8. Soteriades ES, Evans JC, Larson MG, Chen MH, et.al. Incidence and prognosis of syncope. *New England Journal of Medicine*. 2002;347:878-885. doi: 10.1056/NEJMoa012407
- 9. Brignole M, Menozzi C, Bartoletti A, Giada F, et.al. A new management of syncope: prospective systematic guideline-based evaluation of patients referred urgently to general hospitals. *European Heart Journal*. 2005;27:76-82 doi: 10.1093/eurheartj/ehi647
- Shen W-K, Sheldon RS, Benditt DG, Cohen MI, et.al. 2017 ACC/AHA/HRS Guideline for the Evaluation and Management of Patients With Syncope: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines and the Heart Rhythm Society. *Journal of the American College of Cardiology*. 2017;70:e39-e110. doi: 10.1016/j.jacc.2017.03.003
- 11. Raj V, Rowe AA, Fleisch SB, Paranjape SY, et.al. Psychogenic pseudosyncope: diagnosis and management. *Autonomic Neuroscience* 2014;184:66-72. doi: 10.1016/j.autneu.2014.05.003
- 12. Tannemaat MR, Thijs RD, van Dijk JG. Managing psychogenic pseudosyncope: Facts and experiences. *Cardiology Journal*. 2014;21:658-664. doi: 10.5603/CJ.a2014.0070
- Espay AJ, Aybek S, Carson A, Edwards MJ, et.al. Current Concepts in Diagnosis and Treatment of Functional Neurological Disorders. *JAMA Neurology* 2018;75:1132-1141. doi: 0.1001/jamaneurol.2018.1264
- 14. Black DW, Grant JE: DSM-5<sup>°</sup> guidebook: the essential companion to the diagnostic and statistical manual of mental disorders, *American Psychiatric Publishing*; 2014.
- 15. Aybek S, Perez DL. Diagnosis and management of functional neurological disorder. *British Medical Journal* 2022;376:o64. doi: 10.1136/bmj.o64.
- 16. Blitzstein SM. Recognizing and treating conversion disorder. *AMA Journal of Ethics*. 2008;10:158-160. doi: 10.1001/virtualmentor.2008.10.3.cprl1-0803
- 17. Ludwig L, Pasman JA, Nicholson T, et.al. Stressful life events and maltreatment in conversion (functional neurological) disorder: systematic review and meta-analysis of case- control studies. *The Lancet Psychiatry*. 2018;5:307-320. doi: 10.1016/ S2215-0366(18)30051-8.
- Barbey A, Pjanic I, Studer H, Bischoff N, et.al. Management of Functional Neurological Disorders (FND): Experience from a Swiss FND Clinic. *Clinical and Translational Neuroscience*. 2022;6. doi: 10.3390/ctn6010002
- 19. Feinstein A. Conversion disorder: advances in our understanding. *Canadian Medical Association Journal*. 2011;183:915-920. doi: 10.1503/cmaj.110490
- 20. Kanjwal K, Kanjwal Y, Karabin B, Grubb BP. Psychogenic syncope? A cautionary note. *Pacing and Clinical Electrophysiology* 2009;32:862-865. doi:10.1111/j.1540-8159.2009.02400
- Brignole M, Moya A, de Lange FJ, Deharo J-C, et.al. Practical Instructions for the 2018 ESC Guidelines for the diagnosis and management of syncope. *European Heart Journal*. 2018;39:e43-e80. doi: 10.1093/eurheartj/ehy071
- 22. Aponte-Becerra L, Novak P. Tilt Test: A Review. Journal of Clinical Neurophysiology 2021;38:279-286. doi: 10.1097/WNP.0000000000000625
- Claffey P, Perez-Denia L, Rivasi G, Finucane C, et.al. Near-infrared spectroscopy in evaluating psychogenic pseudosyncope-a novel diagnostic approach. *QIM: An International Journal of Medicine*. 2020;113:239-244. doi: 10.1093/qjmed/hcz257
- 24. Liao Y, Du J, Benditt DG, Jin H. Vasovagal syncope or psychogenic pseudosyncope: a major issue in the differential diagnosis of apparent transient loss of consciousness in children. *Science Bulletin* 2022;67:1618-1620. doi: 10.1016/j.scib.2022.07.024
- 25. Mereu R, Sau A, Lim PB. Diagnostic algorithm for syncope. *Autonomic Neuroscience* 2014;184:10-16. doi:10.1016/j.autneu.2014.05.008
- 26. Saal DP, Overdijk MJ, Thijs RD, van Vliet IM, et.al. Long-term follow-up of psychoge-

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nic pseudosyncope. American Academy of Neurology. 2016;87:2214-2219. doi: 10.1212/ WNL.00000000003361

- 27. Alciati A, Shiffer D, Dipaola F, Barbic F, et.al. Psychogenic pseudosyncope: clinical features, diagnosis and management. *Journal of Atrial Fibrillation*. 2020;13 doi: 10.4022/jafib.2399
- Rosebush PI, Mazurek MF. Treatment of conversion disorder in the 21st century: have we moved beyond the couch? *Current Treatment Options in Neurology* (2011) 13:255–266 doi:10.1007/s11940-011-0124-y
- 29. Abdurrachid N, Marques JG. Munchausen syndrome by proxy (MSBP): a review regarding perpetrators of factitious disorder imposed on another (FDIA). CNS spectrums. 2022;27:16-26. doi: 10.1017/S1092852920001741
- 30. Durrant J, Rickards H, Cavanna AE. Prognosis and outcome predictors in psychogenic nonepileptic seizures. *Epilepsy research and treatment*. 2011;2011. doi: 10.1111/epi.12106
- Gutkin M, McLean L, Brown R, Kanaan RA. Systematic review of psychotherapy for adults with functional neurological disorder. *Journal of Neurology, Neurosurgery, and Psychiatry*. 2020. doi: 10.1136/jnnp-2019-321926.
- Russell L, Abbass A, Allder S. A review of the treatment of functional neurological disorder with intensive short-term dynamic psychotherapy. *Epilepsy & Behavior* 2022;130:108657. doi: 10.1016/j.yebeh.2022.108657.
- Baslet G, Ehlert A, Oser M, Dworetzky BA. Mindfulness-based therapy for psychogenic nonepileptic seizures. *Epilepsy & Behavior*. 2020;103:106534.doi: 10.1016/j.yebeh.2019.106534
- Myers L, Sarudiansky M, Korman G, Baslet G. Using evidence-based psychotherapy to tailor treatment for patients with functional neurological disorders. *Epilepsy & Behavior Reports* 2021;16:100478. doi: 10.1016/j.ebr.2021.100478.
- 35. O'Connell N, Nicholson T, Blackman G, Tavener J, et.al. Medication prescriptions in 322 motor functional neurological disorder patients in a large UK mental health service: A case control study. *General Hospital Psychiatry* 2019;58:94-102. doi: 10.1016/j.genhosppsy-ch.2019.04.004.
- Ghanbarizadeh SR, Dinpanah H, Ghasemi R, Salahshour Y, et.al. Quetiapine versus Haloperidol in Controlling Conversion Disorder Symptoms; a Randomized Clinical Trial. *Emergency*. 2018;6. PMID: 30584563
- 37. Pintor L, Baillés E, Matrai S, Carreno M, et.al. Efficiency of venlafaxine in patients with psychogenic nonepileptic seizures and anxiety and/or depressive disorders. *The Journal of neuropsychiatry and clinical neurosciences*. 2010;22:401-408. doi:10.1176/jnp.2010.22.4.401
- Hinson VK, Haren WB. Psychogenic movement disorders. *The Lancet Neurology*. 2006;5:695-700. doi: 10.1016/S1474-4422(06)70523-3
- 39. Hurwitz TA. Somatization and conversion disorder. *The Canadian Journal of Psychiatry*. 2004;49:172-178. doi: 10.1177/070674370404900304
- LaFrance WC, Baird GL, Barry JJ, Blum AS, et.al. Multicenter pilot treatment trial for psychogenic nonepileptic seizures: a randomized clinical trial. *JAMA psychiatry*. 2014;71:997-1005. doi: :10.1001/jamapsychiatry.2014.817