

BÖLÜM 22

HAREKET BOZUKLUKLARINDA ACİLLER

Betül KILIÇ¹
Kürşad AYDIN²

GİRİŞ

Hareket bozuklukları tipik olarak ayakta tedavi edilebilen durumlardır. Bununla birlikte, akut şiddetli fenotip veya akut dekompanasyon ile de ortaya çıkabilirler. Bir hareket bozukluğu, akut veya subakut olarak saatler veya günler içinde gelişebilir; tanı ve tedavideki gecikmeler önemli morbidite ve mortaliteye neden olabilir. Hareket bozukluğu acil durumları genel olarak hipokinetik veya hiperkinetik olabilir. Bu bölümde, hareket bozukluklarındaki acil durumlar, yönetimleri ve tedavileri gözden geçirilmiştir.

DİSTONİ

Distoni, düzensiz bükülme hareketleri ve uzun süreli duruşlarla karakterizedir. Tablo 1'de acil distoni nedenleri özetlenmiştir. Akut fokal distoni genellikle ilaca bağlıdır ve tipik olarak ilaç başlandıktan sonraki 24 saat içinde gelişir. Tortikollis, laringeal distoni, blefarospazm, trismus ve okülojirik kriz ile ortaya çıkabilir.¹ Her ne kadar tedirginlik verici olsa da, akut distonik reaksiyonlar genellikle kendi kendini sınırlar. Tedavide L-dopa, antikolinergikler ve benzodiazepinler kullanılabilirken intravenöz antikoli-

nerjikler (biperiden, prosiklidin vb.) distonik reaksiyonların hızlıca düzelmesini sağlayabilir. Ancak antikolinergik ilaçlara oral yolla devam edilmelidir. İlaç ile tetiklenen distoni durumlarında tetikleyici ilacın kesilmesinden sonraki 4-7 gün antikolinergik ilaçlara devam edilip, sonrasında azaltılarak kesilebilir.¹

STATUS DİSTONİKUS

Nadir görülen ancak hayatı tehdit eden, jeneralize ve aralıksız şiddetli distonik spazm durumudur. Genellikle önceden jeneralize distonisi olan kişilerde haftalar veya aylar sonra kademeli olarak gelişir. İlaç eklenmesi / kesilmesi, enfeksiyon, hipertermi, dehidratasyon, travma, Wilson hastalığında penisilamin tedavisi gibi durumlarla tetiklenen bir olaydır. Sürekli kas spazmı, hiperpireksi, dehidratasyon ve buna bağlı böbrek yetmezliği, aspirasyon pnömonisi, solunum yetmezliği ve nihayetinde rabdomiyoliz ile çoklu organ yetmezliğine yol açabilir.³ Status distonikus, standart oral antidistonik ilaçlara sıklıkla yanıt vermez. Yakın zamanda tedavisi kesilmiş tüm ilaçlar yeniden başlatılmalıdır. Altta yatan tetikleyici ilacı kesmek ve destekleyici yönetim sağlamak yeterli olabilir. Midazolam, distoni veya status

¹ Doç. Dr., Medipol Üniversitesi Hastanesi Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, Çocuk Sağlığı ve Hastalıkları AD., betulkc82@gmail.com

² Prof. Dr., Medipol Üniversitesi Hastanesi, kursadaydin@hotmail.com

KAYNAKLAR

1. Pierre JM. Extrapiramidal symptoms with atypical antipsychotics : incidence, prevention and management. *Drug Saf* 2005;28:191–208.
2. Gandhi SE, Newman EJ, Marshall VL. Emergency presentations of movement disorders. *Pract Neurol*. 2020;0:1–10
3. Manji H, Howard RS, Miller DH, et al. Status dystonicus: the syndrome and its management. *Brain* 1998;121(Pt 2):243–252.
4. Termsarasab P, Frucht SJ. Dystonic storm: a practical clinical and video review. *J Clin Mov Disord* 2017;4:10.
5. Allen NM, Lin JP, Lynch T, et al. Status dystonicus: a practice guide. *Dev Med Child Neurol*. 2014 ;56:105-112.
6. Blackman JA, Patrick PD, Buck ML, et al. Paroxysmal autonomic instability with dystonia after brain injury. *Arch Neurol* 2004;61:321-328.
7. Haywood P, Shrub V, Murugan V. Dysautonomia presenting as non epileptic seizures in Rett Syndrome. *Eur J Paed Neurol* 2009;13(Suppl. 1):32-37.
8. Haywood P, Pryde K, Murugan V. Treatable paroxysmal autonomic instability with dystonia in Trisomy 21. *Eur J Paed Neurol* 2009;13(Suppl. 1):33.
9. Boeve BF, Wijdicks EF, Benarroch EE, et al. Paroxysmal sympathetic storms (“diencephalic seizures”) after severe diffuse axonal head injury. *Mayo Clin Proc* 1998;73:148-152.
10. Lemke DM. Riding out the storm: sympathetic storming after traumatic brain injury. *J Neurosci Nurs* 2004;36:4-9.
11. Russo RN, O’Flaherty S. Bromocriptine for the management of autonomic dysfunction after severe traumatic brain injury. *J Paediatr Child Health* 2000;36:283-285.
12. Baguley IJ, Heriseanu RE, Gurka JA, et al. Gabapentin in the management of dysautonomia following severe traumatic brain injury: a case series. *J Neurol Neurosurg Psychiatry* 2007;78:539-541.
13. Srinivasan S, Lim CC, Thirugnanam U. Paroxysmal autonomic instability with dystonia. *Clin Auton Res* 2007;17: 378-381.
14. Borbone J, Thomas NH, Kirkham FJ, et al. Paroxysmal autonomic instability with dystonia (PAID) as a consequence of acquired brain injury. *Eur J Paed Neurol* 2009;13(Suppl. 1): S20 (O8-2).
15. Kipps CM, Fung VSC, Grattan-Smith P, et al. Movement disorder emergencies. *Mov Disord* 2005;20:322–334.
16. Nielsen RE, Wallenstein Jensen SO, Nielsen J. Neuroleptic malignant syndrome-an 11-year longitudinal case-control study. *Can J Psychiatry* 2012;57:512–518.
17. Silva RR, Munoz DM, Alpert M, et al. Neuroleptic malignant syndrome in children and adolescents. *J Am Acad Child Adolesc Psychiatry* 1999;38: 187-194.
18. Nagamine M, Yoshino A, Sakurai Y, et al. Exacerbating factors in neuroleptic malignant syndrome: comparisons between cases with death, sequelae, and full recovery. *J Clin Psychopharmacol* 2005;25:499–501.
19. Robottom BJ, Weiner WJ, Factor SA. Movement disorders emergencies. Part 1: hypokinetic disorders. *Arch Neurol* 2011; 68:567–572.
20. Moscovich M, N6vak FT, Fernandes AF, et al. Neuroleptic malignant syndrome. *Arq Neuropsiquiatr* 2011; 69:751–755.
21. Burkhard PR. Acute and subacute drug-induced movement disorders. *Parkinsonism Relat Disord* 2014; 20 (Suppl 1):108–112.
22. Buggenhout S, Vandenberghe J, Sienaert P. Electroconvulsion therapy for neuroleptic malignant syndrome. *Tijdschr Psychiatr* 2014; 56:612–615.
23. Mason PJ, Morris VA, Balcezak TJ. Serotonin syndrome. presentation of 2 cases and review of the literature. *Medicine* 2000;79:201–209.
24. Boyer EW, Shannon M. The serotonin syndrome. *N Engl J Med* 2005;352:1112–1120.
25. Radomski JW, Dursun SM, Reveley MA, et al. An exploratory approach to the serotonin syndrome: an update of clinical phenomenology and revised diagnostic criteria. *Med Hypotheses* 2000;55:218–224.
26. Gupta AK, Roy DR, Conlan ES, et al. Torticollis secondary to posterior fossa tumors. *J Pediatr Orthop*. 1996;16(4):505-507.
27. Kumandas S, Per H, Gumus H, et al. Torticollis secondary to posterior fossa and cervical spinal cord tumors: report of five cases and literature review. *Neurosurg Rev*. 2006;29(4):333-338.
28. Tomczak KK, Rosman NP. Torticollis. *J Child Neurol*. 2013 Mar;28(3):365-378.
29. Grisel P. Enucleation de l’atlas et torticollis nasopharyngien. *Presse Med*. 1930; 38:50-53.
30. Samuel D, Thomas DM, Tierney PA, et al. Atlanto-axial subluxation (Grisel’s syndrome) following otolaryngological diseases and procedures. *J Laryngol Otol*. 1995;109(10):1005-1009.
31. Gourin CG, Kaper B, Abdu WA, et al. Nontraumatic atlanto-axial subluxation after retropharyngeal cellulitis: Grisel’s syndrome. *Am J Otolaryngol*. 2002; 23(1):60-65.
32. Rajan S, Kaas B, Moukheiber E. Movement Disorders Emergencies. *Semin Neurol*. 2019;39:125-136.
33. Genel F, Arslanoglu S, Uran N, et al. Sydenham’s chorea: clinical findings and comparison of the efficacies of sodium valproate and carbamazepine regimens. *Brain Dev* 2002;24:73–76.
34. Walker KG, Wilmshurst JM. An update on the treatment of Sydenham’s chorea: the evidence for established and evolving interventions. *Ther Adv Neurol Disord* 2010;3:301–309.
35. Postuma RB, Lang AE. Hemiballism: revisiting a classic disorder. *Lancet Neurol* 2003;2:661–8.
36. Poston KL, Frucht SJ. Movement disorder emergencies. *J Neurol* 2008;255 (Suppl 4):2–13.
37. Varley JA, Webb AJS, Balint B, et al. The Movement

- disorder associated with NMDAR antibody-encephalitis is complex and characteristic: an expert video-rating study. *J Neurol Neurosurg Psychiatry* 2019;90:724-6.
38. Zheng F, Ye X, Shi X, et al. Management of Refractory Orofacial Dyskinesia Caused by Anti-N-methyl-d-aspartate Receptor Encephalitis Using Botulinum Toxin. *Front Neurol* 2018;9:81.
 39. Timmermann L, Gross J, Butz M, et al. Miniasterixis in hepatic encephalopathy induced by pathologic thalamo-motorcortical coupling. *Neurology* 2003;61(5):689-692.
 40. Burn DJ, Bates D. Neurology and the kidney. *J Neurol Neurosurg Psychiatry*. 1998; 65(6):810-821.
 41. Werhahn KJ, Brown P, Thompson PD, et al. The clinical features and prognosis of chronic posthypoxic myoclonus. *Mov Disord*. 1997;12(2):216-220.
 42. Obeso JA, Artieda J, Rothwell JC, et al. The treatment of severe action myoclonus. *Brain*. 1989;112(pt 3):765-777.
 43. Dale RC, Church AJ, Surtees RA, et al. Encephalitis lethargica syndrome: 20 new cases and evidence of basal ganglia autoimmunity. *Brain* 2004;127:21-33.
 44. Khan MR, Maheshwari PK, Ali SA, et al. Acute necrotizing encephalopathy of childhood: a fatal complication of swine flu. *J Coll Physicians Surg Pak* 2011;21: 119-120.
 45. Dale RC, Irani SR, Brilot F, et al. N-methyl-D-aspartate receptor antibodies in pediatric dyskinetic encephalitis lethargica. *Ann Neurol* 2009;66: 704-709.
 46. Pradhan S, Pandey N, Shashank S, et al. Parkinsonism due to predominant involvement of substantia nigra in Japanese encephalitis. *Neurology* 1999;53: 1781-1786.
 47. Wallach S. Magnesium deficiency and neurologic deficits. *Am J Med* 1994;97:494.
 48. Prockop LD. Carbon monoxide brain toxicity: clinical, magnetic resonance imaging, magnetic resonance spectroscopy, and neuropsychological effects in 9 people. *J Neuroimaging* 2005;15:144-149.
 49. Lucking CB, Durr A, Bonifati V, et al. Association between early-onset Parkinson's disease and mutations in the parkin gene. *N Engl J Med* 2000;342:1560-1567.
 50. Pranzatelli MR, Mott SH, Pavlakis SG, et al. Clinical spectrum of secondary parkinsonism in childhood: a reversible disorder. *Pediatr Neurol* 1994;10: 131-140.
 51. Smith SM, Gums JG. Antivirals for influenza: strategies for use in pediatrics. *Paediatr Drugs* 2010 Oct 1;12(5): 285-299.
 52. McMahon MA, Vargus-Adams JN, Michaud LJ, et al. Effects of amantadine in children with impaired consciousness caused by acquired brain injury: a pilot study. *Am J Phys Med Rehabil* 2009;88:525-532.
 53. Cheung M-YC, Shahed J, Jankovic J. Malignant Tourette syndrome. *Mov Disord* 2007;22:1743-1750.
 54. Robinson S, Hedderly T. Novel Psychological Formulation and Treatment of "Tic Attacks" in Tourette Syndrome. *Front Pediatr* 2016;4:155.
 55. Hartmann A, Worbe Y. Pharmacological treatment of Gilles de la Tourette syndrome. *Neurosci Biobehav Rev* 2013;37:1157-1161.
 56. Marras C, Andrews D, Sime E, et al. Botulinum toxin for simple motor tics: a randomized, double-blind, controlled clinical trial. *Neurology* 2001;56:605-610.
 57. Ackermans L, Duits A, van der Linden C, et al. Double-blind clinical trial of thalamic stimulation in patients with Tourette syndrome. *Brain* 2011;134:832-844.
 58. Czarnecki K, Hallett M. Functional (psychogenic) movement disorders. *Curr. Opin. Neurol* 2012; 25:507-512.