

## 5. Bölüm

# Çocuk ve Ergenlerde Telepsikiyatri Uygulamaları

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## GİRİŞ

Son dönemlerde özellikle bilgi ve iletişim teknolojilerindeki gelişiminin hız kazanmasıyla insanların eğitim ve sağlık ihtiyaçlarında ve bu ihtiyaçların karşılanması köklü değişiklikler meydana gelmiştir. Bu değişimler sayesinde insanların ihtiyaçlarının karşılanması için zaman ve yer kısıtlılıklarını aşacak biçimde çözümler üretilmiştir. Sağlık alanında bu kısıtlılıklar teletip hizmetleri ile aşılmaktadır (1). Teletip (telemedicine) ve telesağlık (telehealth) terimleri genellikle birbirlerinin yerine kullanılmakla beraber bunlar tamamen aynı şey değildir. Teletip terimi telekomünikasyon teknolojilerinin kullanılarak tanı veya tedavi sonrası seyrin izlenmesi gibi tıbbi hizmetlerin sağlanması için kullanılırken telesağlık kavramı daha geniş kapsamda kullanılmaktadır. Telesağlık; koruyucu, destekleyici ve iyileştirici uygulamalar gibi hem klinik hem de tele-eğitim, tele-arastırma, sistemlerin entegrasyonu, hasta kayıtları gibi klinik dışı sağlık bakım hizmetlerini tanımlamak için kullanılmaktadır (2,3).

Sosyoekonomik faktörler, coğrafi koşullar ve işgücü yetersizliği gibi faktörlerin uzmanlık bakımına ihtiyaç duyan kırsal bölgelerdeki bireyler için önemli engeller oluşturduğu bilinmektedir. Teletip hizmetlerinin kırsal bölgelerde sağlık hizmetlerine erişimi artırma potansiyeli vardır (4). Teletip uygulamaları; sağlık hizmetlerine erişimin artırılması, tıbbi bakım maliyetinin düşürülmesi, eğitim uygulamalarının kolaylaştırılması, hastaların uzak hastanelere gitmesini azaltılması ve dolayısıyla çevre dostu olması ve yüksek düzeyde etkinlik ve süreklilik sağlama gibi konularda ciddi avantajlar sağlamaktadır (1,5).

Telepsikiyatri ise teletip hizmetlerinin psikiyatri alanına uyarlanmış biçimi olup psikiyatrik değerlendirme, tedavi ve takiplerin video konferans gibi haber-

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icin bir çözüm olabilen telesikiyatri uygulamalarının ülkemizde yaygınlaşması için yasal düzenlemeler yapılmalı ve alanda çalışanlara yönelik güncel kılavuzlar hazırlanmalıdır.

## KAYNAKÇA

1. Özgür S, Tanrıverdi D. Tele-psychiatry. *J Psychiatr Nurs.* 2019;10(4):302–308.
2. Burke BL, Hall RW. Telemedicine: Pediatric Applications. *Pediatrics.* 2015 Jul 1;136(1):e293–308.
3. Çam MO, Kaçmaz ED. Tele Sağlık Uygulamaları ve Psikiyatri Hemşireliğinde Kullanımı. *Turkiye Klin J Nurs Sci.* 2018;10(4):363–369.
4. Nelson R. Telemedicine and Telehealth. *AJN, Am J Nurs.* 2017 Jun;117(6):17–18.
5. McLay L, Sutherland D, Machalicek W, et al. Systematic Review of Telehealth Interventions for the Treatment of Sleep Problems in Children and Adolescents. *J Behav Educ.* 2020;29(2):222–245.
6. Butterfield A. Telepsychiatric Evaluation and Consultation in Emergency Care Settings. *Child Adolesc Psychiatry Clin North Am.* 2018;27(3):467–478.
7. Roth DE, Ramtekkar U, Zekovic-Roth S. Telepsychiatry A New Treatment Venue for Pediatric Depression. *Child Adolesc Psychiatr Clin N Am.* 2019;28:377–395.
8. Bal U, Yilmaz E, Tamam L, Cakmak S. Telepsychiatry: Now and Here! *Curr Approaches Psychiatry.* 2015;7(2):1-8
9. Ercan ES, Polanczyk G, Ardic UA, et al. The prevalence of childhood psychopathology in Turkey : a cross-sectional multicenter nationwide study ( EPICPAT-T ). *Nord J Psychiatry.* 2019
10. Gloff NE, Lenoue SR, Novins DK, et al. International Review of Psychiatry Telemental health for children and adolescents. *Int Rev Psychiatry.* 2015;27(6):513–524.
11. Chong J, Moreno F. Feasibility and Acceptability of Clinic-Based Telepsychiatry for Low-Income Hispanic Primary Care Patients. *Telemed e-Health.* 2012;18(4):297–304.
12. Wang L, Alexander CA. Telepsychiatry : Technology Progress, Challenges, and Language and Transcultural Issues. *J Transl Med Dev Disord.* 2014;1(1):1–11.
13. Lau ME, Way BB, Fremont WP. Assessment of SUNY Upstate medical university's child telepsychiatry consultation program. *Int J Psychiatry Med.* 2011;42(1):93–104.
14. Reese RJ, Slone NC, Soares N, Sprang R. Telehealth for underserved families: An evidence-based parenting program. *Psychol Serv.* 2012;9(3):320–322.
15. Szeftel R, Federico C, Hakak R, et al. Improved access to mental health evaluation for patients with developmental disabilities using telepsychiatry. *J Telemed Telecare.* 2012;18(6):317–321.
16. Comer JS, Furr JM, Cooper-Vince CE, et al. Internet-Delivered, Family-Based Treatment for Early-Onset OCD: A Preliminary Case Series. *J Clin Child Adolesc Psychol.* 2014;43(1):74–87.
17. Myers K, Vander Stoep A, Zhou C, et al. Effectiveness of a telehealth service delivery model for treating attention-deficit/hyperactivity disorder: A community-based randomized controlled trial. *J Am Acad Child Adolesc Psychiatry [Internet].* 2015;54(4):263–274.

18. Rockhill CM, Tse YJ, Fesinmeyer MD, et al. Telepsychiatrists' Medication Treatment Strategies in the Children's Attention-Deficit/Hyperactivity Disorder Telemental Health Treatment Study. *J Child Adolesc Psychopharmacol.* 2016;26(8):662–671.
19. Elford DR, White H, St John K,, et al. A prospective satisfaction study and cost analysis of a pilot child telepsychiatry service in Newfoundland. *J Telemed Telecare.* 2001;7(2):73–81.
20. Nelson EL, Barnard M, Cain S. Treating childhood depression over videoconferencing. *Telemed J e-Health.* 2003;9(1):49–55.
21. Pakyurek M, Yellowlees P, Hilty D. The Child and Adolescent Telepsychiatry Consultation: Can It Be a More Effective Clinical Process for Certain Patients Than Conventional Practice? *Telemed e-Health.* 2010;16(3):289–292.
22. Himle MB, Freitag M, Walther M, et al. A randomized pilot trial comparing videoconference versus face-to-face delivery of behavior therapy for childhood tic disorders. *Behav Res Ther.* 2012;50(9):565–570.
23. Reese RM, Jamison R, Wendland M, et al. Evaluating interactive videoconferencing for assessing symptoms of Autism. *Telemed e-Health.* 2013;19(9):671–677.
24. Xie Y, Dixon JF, Yee OM, et al. A study on the effectiveness of videoconferencing on teaching parent training skills to parents of children with ADHD. *Telemed e-Health.* 2013;19(3):192–199.
25. Tse YJ, McCarty CA, Stoep A Vander, et al. Teletherapy Delivery of Caregiver Behavior Training for Children with Attention-Deficit Hyperactivity Disorder. *Telemed e-Health.* 2015;21(6):451–458.
26. Thomas JF, Novins DK, Hosokawa PW, Olson CA, Hunter D, Brent AS, et al. The use of telepsychiatry to provide cost-efficient care during pediatric mental health emergencies. *Psychiatr Serv Adv.* 2018;69(2):161–168.
27. Roberts N, Hu T, Axas N, Repetti L. Child and Adolescent Emergency and Urgent Mental Health Delivery Through Telepsychiatry: 12-Month Prospective Study. *Telemed e-Health.* 2017;23(10):842–846.
28. Greenberg N, Boydell KM, Volpe T. Pediatric telepsychiatry in Ontario: Caregiver and service provider perspectives. *J Behav Heal Serv Res.* 2006;33(1):105–111.
29. Myers KM, Valentine JM, Melzer SM. Feasibility, acceptability, and sustainability of telepsychiatry for children and adolescents. *Psychiatr Serv.* 2007;58(11):1493–1496.
30. Yellowlees PM, Hilty DM, Marks SL, et al. A retrospective analysis of a child and adolescent eMental health program. *J Am Acad Child Adolesc Psychiatr.* 2008;47(1):103–107.
31. Myers KM, Valentine JM, Melzer SM. Child and adolescent telepsychiatry: Utilization and satisfaction. *Telemed e-Health.* 2008;14(2):131–137.
32. Glueck DA. Telepsychiatry in private practice. *Child Adolesc Psychiatr Clin N Am.* 2011;20(1):1–11.
33. Duncan AB, Velasquez SE, Nelson EL. Using Videoconferencing to Provide Psychological Services to Rural Children and Adolescents: A Review and Case Example. *J Clin Child Adolesc Psychol.* 2014;43(1):115–127.
34. Grady BJ, Lever N, Cunningham D, et al. Telepsychiatry and School Mental Health. *Child Adolesc Psychiatr Clin N Am.* 2011;20(2011):81–94.
35. Spaulding R, Cain S, Sonnenschein K. Urban Telepsychiatry : Uncommon Service for a Common Need. *Child Adolesc Psychiatr Clin N Am.* 2011;20:29–39.

36. Kaliebe KE, Heneghan J, Kim TJ. Telepsychiatry in Juvenile Justice Settings. *Child Adolesc Psychiatr Clin N Am.* 2011;20:113–123.
37. Batastini AB, McDonald BR, Morgan RD. Videoconferencing in forensic and correctional practice. In: Telemental health Clinical, technical and administrative foundations for Evidence-based practice. 2013. p. 251–271.
38. Carlisle LL. Child and Adolescent Telemental Health. In: Myers K, Turvey CL, editors. Telemental Health Clinical, Technical, and Administrative Foundations for Evidence-Based Practice. Elsevier Inc; 2013. p. 197–222.
39. American Academy of Child and Adolescent Psychiatry (AACAP) Committee on Telepsychiatry and AACAP Committee on Quality Issues. Clinical Update: Telepsychiatry With Children and Adolescents. *J Am Acad Child Adolesc Psychiatry.* 2017;56(10):875–893.
40. Kriechman A, Bonham C. Telemental Health in Primary Care. In: Myers K, Turvey CL, editors. Telemental Health Clinical , Technical , and Administrative Foundations for Evidence-Based Practice. Elsevier Inc; 2013. p. 155–170.
41. Myers K, Cain S. Practice parameter for telepsychiatry with children and adolescents. *J Am Acad Child Adolesc Psychiatry.* 2008;47(12):1468–1483.
42. Fortney JC, Pyne JM, Mouden SB, et al. Practice-based versus telemedicine-based collaborative care for depression in rural federally qualified health centers: A pragmatic randomized comparative effectiveness trial. *Am J Psychiatry.* 2013;170(4):414–425.
43. McWilliams JK. Integrating Telemental Healthcare with the Patient-Centered Medical Home Model. *J Child Adolesc Psychopharmacol.* 2015;25:1–5.
44. Zhou C, Crawford A, Serhal E, et al. The impact of project ECHO on participant and patient outcomes: A systematic review. *Acad Med.* 2016;91(10):1439–1461.
45. Powell AC, Chen M, Thammachart C. The Economic Benefits of Mobile Apps for Mental Health and Telepsychiatry Services When Used by Adolescents. *Child Adolesc Psychiatr Clin N Am.* 2017;26(1):125–33.
46. Hategan A, Giroux C, Bourgeois JA. Digital Technology Adoption in Psychiatric Care: an Overview of the Contemporary Shift from Technology to Opportunity. *J Technol Behav Sci.* 2019;4(3):171–177.
47. Shore JH, Hilty DM, Yellowlees P. Emergency management guidelines for telepsychiatry. *Gen Hosp Psychiatry.* 2007;29:199–206.
48. Connor DF, McLaughlin TJ, Jeffers-Terry M, et al. Targeted Child Psychiatric Services : A New Model of Pediatric Primary Clinician — Child Psychiatry Collaborative Care. *Clin Pediatr (Phila).* 2006;(45):423–434.
49. Cunningham DL, Connors EH, Lever N, et al. Providers' Perspectives: Utilizing Telepsychiatry in Schools. *Telemed e-Health.* 2013;19(10):794–799.
50. Wasserman GA, Ko SJ, McReynolds LS. Assessing the Mental Health Status of Youth in Juvenile Justice Settings. *Off Juv Justice Delinq Prev Juv Justice Bull.* 2004;(August):1–8.
51. Myers K, Valentine J, Morganthaler R, Melzer S. Telepsychiatry with incarcerated youth. *J Adolesc Heal.* 2006;38:643–648.
52. Comer JS, Furr JM, Cooper-vince C, et al. Rationale and Considerations for the Internet-Based Delivery of Parent-Child Interaction Therapy. *Cogn Behav Pract.* 2015;22(3):302–316.

53. Luxton DD, O'Brien K, Mccann RA, et al. Home-Based Telemental Healthcare Safety Planning: What You Need to Know. *Telemed e-Health.* 2012;18(8):629–633.
54. Glueck D. Establishing Therapeutic Rapport in Telemental Health. In: Myers K, Turvey CL, editors. *Telemental Health Clinical , Technical , and Administrative Foundations for Evidence-Based Practice.* Elsevier Inc; 2013. p. 29–46.
55. Myers KM, Stoep A Vander, McCarty CA, Klein JB, Palmer NB, Geyer JR, et al. Child and adolescent telepsychiatry: variations in utilization , referral patterns and practice trends. *J Telemed Telecare.* 2010;16:128–133.
56. Yeung A, Hails K, Chang T, et al. A study of the effectiveness of telepsychiatry-based culturally sensitive collaborative treatment of depressed Chinese Americans. *BMC Psychiatry.* 2011;11(154).
57. Mucic D. Transcultural telepsychiatry and its impact on patient satisfaction. *J Telemed Telecare.* 2010;16:237–242.
58. Stain HJ, Payne K, Thienel R, Michie P, Carr V, Kelly B. The feasibility of video-conferencing for neuropsychological assessments of rural youth experiencing early psychosis. *J Telemed Telecare.* 2011;17(6):328–331.
59. Amarendran V, George A, Gersappe V, et al. The reliability of telepsychiatry for a neuropsychiatric assessment. *Telemed e-Health.* 2011;17(3):223–225.
60. Andrews G, Basu A, Cuijpers P, et al. Computer therapy for the anxiety and depression disorders is effective, acceptable and practical health care: An updated meta-analysis. *J Anxiety Disord [Internet].* 2018;55:70–78.
61. Wagner B, Horn AB, Maercker A. Internet-based versus face-to-face cognitive-behavioral intervention for depression: A randomized controlled non-inferiority trial. *J Affect Disord.* 2014 Jan;152–154(1):113–121.
62. Morland LA, Greene CJ, Rosen CS, et al. Telemedicine for anger management therapy in a rural population of combat veterans with posttraumatic stress disorder: A randomized noninferiority trial. *J Clin Psychiatry.* 2010;71(7):855–863.
63. Nelson EL, Bui TN, Velasquez SE. Telepsychology: Research and practice overview. *Child Adolesc Psychiatr Clin N Am.* 2011;20(1):67–79.
64. Spence SH, Donovan CL, March S, et al. Online CBT in the treatment of child and adolescent anxiety disorders: Issues in the development of BRAVE-ONLINE and two case illustrations. *Behav Cogn Psychother.* 2008;36(4):411–430.