

KRONİK HASTALIKLARA YAKLAŞIM

76.

BÖLÜM

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GİRİŞ

Kronik hastalık, oluşturduğu etkiler itibariyle uzun bir zaman sürecine yayılmış, dayanıklılığın olumsuz etkilendiği, kısa ve uzun vadede sosyal, fiziksel, duygusal, bilişsel, akademik ve meslekî kısıtlılıklara neden olabilen durumlardır (1). 2007 yılından itibaren kronik hastalık “en az üç aydan daha uzun süren ya da iyileşme olasılığı bulunmayan durumlar” olarak tanımlanmaktadır (2).

Geçmişte ölüm ile sonuçlanan birçok çocukluk çağı hastalığının tanı ve tedavisinde sağlanan gelişmeler ışığında, çocuklar daha uzun süre yaşayabilmekte ve erişkin yaşlara ulaşabilmektedir. Geçmişte kronik fiziksel hastalıklar nedeniyle hayatını kaybedenlerin %90’dan fazlası günümüzde erişkin yaşama erişebilmektedir (3).

Tıbbî teknolojiadaki gelişmelerin yanında artan çevresel toksin maruziyeti, yaşam tarzındaki değişimler, beslenme pratikleri ve psikososyal stresörlerdeki artışın da kronik hastalık yükünü artırdığı düşünülmektedir (4,5). Bu gelişmelerle birlikte çocuklarda ve genç erişkinlerde en sık görülen hastalıklarda, enfeksiyon hastalıklarından kronik hastalıklara doğru bir değişim olduğu gösterilmiştir (6).

Kronik hastalıklardaki sağ kalım sürelerinin uzaması ile birlikte bu hasta grubunun klinik yönetimi büyük önem kazanmış, yaşam kalitesi kavramı ön plana çıkmıştır. Sağlıkla ilgili yaşam kalitesi ölçümleri, bireylerin kendilerini nasıl hissettiklerini, günlük yaşam aktivitelerini nasıl yaptıklarını, hastalık durumu ve hastalığın tedavisin-

den nasıl etkilendiklerini değerlendirme olanağı vermektedir (7). Kronik hastalıklar, çocukların ve ergenlerin yaşamında oluşturdukları doğrudan ve dolaylı etkileri ile yaşam kalitesini doğrudan etkileyebilmesinin yanında aileleri, yakın ilişkide oldukları akran, akraba ve öğretmenlerden oluşan geniş bir halkayı da etkilemektedir (8).

Devlet İstatistik Enstitüsü (2002) verilerine göre ülkemizde 0-18 yaş arasında süregelen hastalığı olan çocuklar toplam hasta nüfusun %5,27’sini oluşturmaktaydı (9). Ülkemizde ve dünyada bu oranın giderek arttığı, dünya genelinde bu oranın %25 düzeyine yaklaşmakta olduğu, bunların da en az %10’unu yeti yitimi ile giden ağır vakaların oluşturduğu ifade edilmektedir (10,11).

En sık rastlanan hastalıklar astım, obezite, diyabet, epilepsi, kas-iskelet sistemi hastalıkları, kardiyak hastalıklar, neoplaziler, hematolojik hastalıklar ve nefrolojik hastalıklardır (12-14).

Çocukların ve ailelerin büyük bir kısmı hastalığa uygun adaptif mekanizmalar geliştirerek işlevselliklerini koruyamayı başarırken, önemli bir kısmında da günlük işleyiş, yaşam kalitesi, benlik saygısı, akademik hayatı etkilenmekte, sosyal izolasyon, stigmatizasyon ve buna bağlı sosyal işlevsellikte düşüş gözlenmekte, aile işlevselliği ciddi biçimde hasar görmektedir. Bu hasta grubunda tedaviye uyum sorunları ve tedavi reddi sıklıkla karşımıza çıkmaktadır (15,16). Eşlik eden psikososyal sorunlar Tablo 1’de özetlenmiştir.

Hastalar uykusuzluk, huzursuzluk, içe kapanma, ölüm korkuları, agresyon, hırçınlık gibi

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ler süreci tek başlarına üstlenmeye yeterince hazır olmadıkları için yetişkin bakım hizmetlerinde kaybolurlar, bu da daha düşük takip randevuları, katılım ve ilaç uyumu oranlarına yol açar (125). Bu kopuş tehlikesi nedeniyle pediatrik bakımdan yetişkin bakımına geçiş dönemi, kronik hastalığı olan ergenler için yüksek riskli dönem olarak kabul edilmektedir. Bu riski azaltmak amacıyla; çocukların gelişimsel özelliklerini gözetmek kaydıyla erken yaşlardan itibaren hastalığı ile ilgili bilgilendirilmesi, tedavi sürecinin aktif bir parçası olması sağlanmalı; ergenlik döneminin sonunda otonomisini ve öz yeterliliğini büyük ölçüde kazanmış, hastalık yönetimini üstlenmeye hazır bireyler olmaları amaçlanmalıdır (126). Henüz hazır olmayan, izlemiden çıkma riski yüksek olan hastaların geçiş yaşının bir süre geciktirilerek kayıpların önüne geçilmesi önerilir.

SONUÇ

Kronik hastalıklar günümüzün ve gelecek dönemin en büyük sağlık sorunu olarak görülmektedir. Tedavi yanıtının artırılması, hasta ve ailelerinin yaşam kalitelerinin yükseltilmesi ve toplam sağlık harcamalarının azaltılmasında psikososyal faktörlerin doğru ele alınmasının önemi büyüktür. Psikiyatristlerin tedavi ekibinin bir parçası olması kritik öneme sahip görünmektedir.

KAYNAKÇA

- Halfon N, Newacheck PW. Evolving notions of childhood chronic illness. *JAMA* 2010;303:665-6.
- Van der Lee JH, Mokkink LB, Grootenhuys MA ve ark. Definitions and measurement of chronic health conditions in childhood: a systematic review. *JAMA* 2007;297:2741-51.
- Thompson RJ, Gustafson KE. Adaptation to chronic childhood illness. *American Psychological Association*;1996.
- Malas N, Plioplys S, Pao M. Depression in Medically Ill Children and Adolescents. *Child and Adolescent Psychiatric Clinics* 2019;28(3):421-445.
- Russell CJ, Simon TD. Care of children with medical complexity in the hospital setting. *Pediatr Ann* 2014;43(7):157-62.
- Dinleyici M, Şahin Dağı F. Evaluation of quality of life of healthy siblings of children with chronic disease. *Turk Pediatri Ars* 2018;53(4): 205-13.
- Durualp E, Kara F.N, Yılmaz V. ve ark. Kronik Hastalığı Olan ve Olmayan Çocukların ve Ebeveynlerinin Görüşlerine Göre Yaşam Kalitelerinin Karşılaştırılması. *Ankara Üniversitesi Tıp Fakültesi Mecmuası* 2010;63(2):55-63.
- Siden H, Steele R. Charting the territory: Children and families living with progressive life-threatening conditions. *J Paediatr Child Health* 2015;20:139-44.
- Törüner EK, Büyükgöncü L. Çocuk Sağlığı Temel Hemşirelik Yaklaşımları. Ankara: Göktuğ Yayıncılık;2015.
- Wallander JL, Thompson RJ, Alriksson-Schmidt A. Psychosocial adjustment of children with chronic physical conditions. In: Roberts MC, ed. *Handbook of Pediatric Psychology*. 3rd ed. New York: Guilford; 2003:141-158.
- Van Cleave J, Gortmaker SL, Perrin JM. Dynamics of obesity and chronic health conditions among children and youth. *JAMA* 2010;303(7):623-30.
- Shaw RJ, DeMaso DR. *Clinical Manual of Pediatric Psychosomatic Medicine: Mental Health Consultation With Physically Ill Children and Adolescents*. Washington, DC: American Psychiatric Press;2006.
- Miller FG, Coffield E, Wallin R. Prevalence and Costs of Five Chronic Conditions in Children. *J Sch Nurs*. 2016 ;32(5):357-364.
- Bai G, Herten MH, Landgraf JM ve ark. Childhood chronic conditions and health-related quality of life: Findings from a large population-based study. *PLoS ONE*. 2017;12(6):e0178539.
- Maneta E, DeMaso D. Depression in medically ill children. In: Barsky A, Silbersweig D, editors. *Depression in medical illness*. New York: McGraw Hill Education;2017; p. 325-34.
- Popp JM, Robinson JL, Britner PA ve ark. Parent adaptation and family functioning in relation to narratives of children with chronic illness. *J Pediatr Nurs*. 2014;29:58-64.
- Merikangas KR, Calkins ME, Burstein M. ve ark. Comorbidity of physical and mental disorders in the neurodevelopmental genomics cohort study. *Pediatrics*. 2015;135:e927-938.
- Perrin MJ, Gnanasekaran S, Delahaye J. Psychological Aspects of Chronic Health Conditions Pediatrics in Review.2012;33(3).
- Barlow JH, Ellard DR. The psychosocial well-being of children with chronic disease, their parents and siblings: an overview of the research evidence base. *Child Care Health Dev*. 2006;32(1):19-31.
- Varni JW, Limbers CA, Burwinkle TM. Impaired health-related quality of life in children and adolescents with chronic conditions: a comparative analysis of 10 disease clusters and 33 disease categories/severities utilizing the PedsQL 4.0 Generic Core Scales. *Health Qual Life Outcomes*. 2007;5:43.
- Aacp Official Action. Practice Parameter for the Psychiatric Assessment and Management of Physically Ill Children and Adolescents. *J. AM. Acad. Child Adolesc. Psychiatry*. 2009;48(2):213-33.
- Çöp E, Dinç. G, Kültür EÇ. Kronik Hastalığı Olan Çocukların Annelerinde Baş Etme Becerilerinin Psikiyatrik Belirtiler ile İlişkisi: Bir Ön Çalışma. *Türkiye Çocuk Hast Derg/Turkish J Pediatr Dis*. 2016;3: 170-176.

23. Çıray RO, Ermiş Ç, Akay AP. Çocukluk Çağında Sık Görülen Kronik Hastalıklarda Uyku Bozuklukları. *Çocuk ve Gençlik Ruh Sağlığı Dergisi*. 2018;25(3).
24. Barnes A, Eisenberg EM, Resnick MD. Suicide and Self-Injury Among Children and Youth With Chronic Health Conditions. *Pediatrics*. 2010;125:5.
25. Ferro MA, Boyle MH. Self-concept among children and adolescents with a chronic illness: a meta-analytic review. *Health Psychol* 2013;32:839-48.
26. Crump C, Rivera D, London R. ve ark. Chronic health conditions and school performance among children and youth. *Ann Epidemiol* 2013;23:179-84.
27. Pinquart M. Parenting stress in caregivers of children with chronic physical condition-a meta-analysis. *Stress Health*. 2018;34(2):197-207.
28. Purdy J. Chronic physical illness: a psychophysiological approach for chronic physical illness. *Yale J Biol Med*. 2013;86(1):15-28.
29. Shanahan L, Copeland EW, Worthman M.C. ve ark. Children with Both Asthma and Depression Are at Risk for Heightened Inflammation. *J Pediatr* 2013;163:1443-7.
30. Katon W, Lin EH, Kroenke K. The association of depression and anxiety with medical symptom burden in patients with chronic medical illness. *Gen Hosp Psychiatry*. 2007;29(2):147-55.
31. Oguz A, Kurul S, Dirik E. Relationship of epilepsy-related factors to anxiety and depression scores in epileptic children. *J Child Neurol*. 2002;17:37-40.
32. Vinall J, Pavlova M, Gordon G. ve ark. Mental Health Comorbidities in Pediatric Chronic Pain: A Narrative Review of Epidemiology, Models, Neurobiological Mechanisms and Treatment. *Children*. 2016;3(4):40.
33. Awaad MI, Darahim KE. Depression and anxiety in adolescents with congenital heart disease. *Middle East Current Psychiatry*. 2015;22(1):2-8:40.
34. Rankin J, Matthews L, Copley S. ve ark. Psychological consequences of childhood obesity: psychiatric comorbidity and prevention. *Adolesc Health Med Ther*. 2016;7:125-146.
35. Snell C, Fernandes S, Bujoreanu I. ve ark. Depression, illness severity, and healthcare utilization in cystic fibrosis. *Pediatr Pulmonol*. 2014;49:1177-1181
36. Jones LC, Mrug S, Elliott MN. ve ark. Chronic Physical Health Conditions and Emotional Problems From Early Adolescence Through Midadolescence. *Academic Pediatrics*, 2017;17(6):649-655.
37. Secinti E, Thompson J, Richards M. ve ark. Research Review: Childhood chronic physical illness and adult emotional health—a systematic review and meta-analysis. *J Child Psychol Psychiatry*. 2017;58(7):753-769.
38. Stam H, Grootenhuys MA, Caron HN. ve ark. Quality of life and current coping in young adult survivors of childhood cancer: Positive expectations about the further course of the disease were correlated with better quality of life. *Psychooncology*. 2006;15(1):31-43.
39. Gledhill J, Rangel L, Garralda E. Surviving chronic physical illness: psychosocial outcome in adult life. *Archives of Disease in Childhood* 2000;83:104-110.
40. Spangenberg JJ, Lalkhen N. Children with epilepsy and their families: Psychosocial issues. *SA Fam Pract*. 2006;48:60-63.
41. Turkel S, Pao M. Late Consequences of Pediatric Chronic Illness. *Psychiatr Clin North Am*. 2007;30(4):819-835.
42. Medyńska A, Zwolińska D, Grenda R ve ark. Psychosocial aspects of children and families treated with hemodialysis. *Hemodial Int*. 2017;21(4):557-565.
43. Pless IB, Pinkerton P. *Chronic Childhood Disorder: Promoting Patterns of Adjustment*. London, England: Kimpton;1975.
44. Pao M, Ballard ED, Raza H ve ark. Pediatric psychosomatic medicine: an annotated bibliography. *Psychosomatics* 2007;48:195-204.
45. Emiroğlu N.İ, Akay A. Kronik Hastalıklar, Hastaneye Yatış ve Çocuk. *Deü Tıp Fakültesi Dergisi*. 2008;22(2):99-105.
46. Gültekin G, Baran G. A study on the locus of control of the 9-14 years old children with acute and chronic diseases. *Türk Pediatri Arşivi*. 2005;40:211- 20.
47. Toros F, Tot Ş, Duzovalı O. Kronik Hastalığı Olan Çocuklar, Anne ve Babalarındaki Depresyon ve Anksiyete Düzeyleri. *J Clin Psy*.2002;5(4):240-247.
48. Fazlıoğlu K, Hocaoglu Ç, Sönmez M. Çocukluk Çağı Epilepsisinin Aileye Etkisi. *Psikiyatride Güncel Yaklaşımlar*. 2010;2(2):190-205.
49. Sticker E, Schmidt C, Steins G. Self esteem of chronically ill children and adolescence exemplified by obesity and congenital heart defect. *Prax Kinderpsychol Kinderpsychiatr*. 2003;52(1):17-34.
50. Pinquart M. Systematic Review: Bullying Involvement of Children With and Without Chronic Physical Illness and/or Physical/Sensory Disability-a Meta-Analytic Comparison With Healthy/Nondisabled Peers. *J Pediatr Psychol*. 2017;42(3):245-259.
51. Türkoğlu S. Solunum sistemi hastalığı olan çocuk ve ergenlerde psikiyatrik bozukluk ve belirtiler Genel Tıp Derg 2015;25:140-146.
52. S Nilsson, M Ödler, N Andersson ve ark. Does Asthma Affect School Performance in Adolescents? Results From the Swedish Population-Based Birth Cohort BAMSE. *Pediatrics* December 2018;142 (4):263-264.
53. Goldney RD, Ruffin R, Fisher LJ ve ark. Asthma symptoms associated with depression and lower quality of life: a population survey. *Med J Aust*. 2003;178:437-41.
54. Kullowatz A, Kannies F, Dahme B ve ark. Association of depression and anxiety with health care use and quality of life in asthma patients. *Respir Med*. 2007;101:638-44.
55. Wainwright NW, Surtees PG, Wareham NJ ve ark. Psychosocial factors and incident asthma hospital admissions in the EPIC-Norfolk cohort study. *Allergy*. 2007;62:554-60.
56. Safa M, Boroujerdi FG, Talischi F. ve ark. Relationship of coping styles with suicidal behavior in hospitalized asthma and chronic obstructive pulmonary disease patients: substance abusers versus non-substance abusers. *Tanafos*. 2014;13(3):23-30.
57. Asnaashari AM, Talaei A, Haghigh B. Evaluation of psychological status in patients with asthma and COPD. *Iran J Allergy Asthma Immunol*. 2012;11:65-71.
58. Lu Y, Mak KK, van Bever HP. ve ark. Prevalence of anxiety and depressive symptoms in adolescents with

- asthma: a meta-analysis and meta-regression. *Pediatr Allergy Immunol.* 2012;23(8):707–15.
59. Ortega A, Huertas S, Coniro G. ve ark. Childhood asthma, chronic illness and psychiatric disorders. *J Nerv Ment Dis.* 2002;190:275–81.
 60. Thomas M, Griffiths C. Asthma and panic: scope for intervention? *Am J Respir Crit Care Med.* 2005;171:1197–8.
 61. Kean EM, Kelsay K, Wamboldt F. ve ark. Posttraumatic stress in adolescents with asthma and their parents. *J Am Acad Child Adolesc Psychiatry.* 2006;45:78–86.
 62. Zielinski T, Brown S., Nejtek V. ve ark. Depression in Asthma: Prevalence and Clinical Implications. *Prim Care Companion J Clin Psychiatry.* 2000;2(5):153–158.
 63. Van Lieshout RJ, MacQueen GM. Relations between asthma and psychological distress: an old idea revisited. *Chem Immunol Allergy.* 2012;98:1–13.
 64. Gobin V, Van Steendam K, Denys D. ve ark. Selective serotonin reuptake inhibitors as a novel class of immunosuppressants. *Int Immunopharmacol.* 2014;20(1):148–56.
 65. Brown ES, Sayed N, Van Enkevort E. ve ark. A randomized, double-blind, placebo-controlled trial of escitalopram in patients with asthma and major depressive disorder. *J Allergy Clin Immunol Pract.* 2018;6(5):1604–12.
 66. Buchberger B, Huppertz H, Krabbe L. ve ark. Symptoms of depression and anxiety in youth with type 1 diabetes: a systematic review and meta-analysis. *Psychoneuroendocrinology.* 2016;70:70–84.
 67. Khandelwal S, Sengar SG, Sharma m. ve ark. Psychosocial illness in Children with Type 1 Diabetes Mellitus: Prevalence, Pattern and Risk Factors *Journal of Clinical and Diagnostic Research.* 2016;10(9):5–8.
 68. Adler A, Avital A, Michal-Yackobovitz G ve ark. Do children, adolescents, and young adults with type 1 diabetes have increased prevalence of sleep disorders? *Pediatric Diabetes.* 2017;18:450–458.
 69. Çıray RO, Ermiş Ç, Akay A. Çocukluk Çağında Sık Görülen Kronik Hastalıklarda Uyku Bozuklukları. *Çocuk ve Gençlik Ruh Sağlığı Dergisi.* 2018;25(3).
 70. Gottlieb DJ, Punjabi NM, Newman AB ve ark. Association of sleep time with diabetes mellitus and impaired glucose tolerance. *Arch Intern Med.* 2005;165:863–867.
 71. Erdem E, Korkmaz Z., Tosun O. The Burden of Care in The Mothers of The Children With Chronic Disease. *Sağlık Bilimleri Dergisi (Journal of Health Sciences).* 2013;22(2):150–157.
 72. Alrawhaa A., Amara A., Maksoda A. ve ark. Anxiety and depression among children with chronic Middle East *Current Psychiatry.* 2013; 20:146–155.
 73. Hood KK, Beavers DP, Yi_Frazier J. ve ark. Psychosocial burden and glycemic control during the first 6 years of diabetes: results from the search for Diabetes in Youth study. *J Adolesc Health.* 2014;55(4):498–504.
 74. Plener PL, Molz E, Berger G. ve ark. Depression, metabolic control, and antidepressant medication in young patients with type 1 diabetes. *Pediatr Diabetes.* 2015;16(1):58–66.
 75. Butwicka A, Frisen L, Almqvist C. ve ark. Risks of psychiatric disorders and suicide attempts in children and adolescents with type 1 diabetes: a populationbased cohort study. *Diabetes Care.* 2015;38(3):453–9.
 76. Markowitz S, Gonzalez JS, Wilkinson JL ve ark. Treating depression in diabetes: emerging findings. *Psychosomatics.* 2011;52(1):1–18.
 77. Ziegler RG, Erba G, Holden L, Dennison H. The coordinated psychosocial and neurologic care of children with seizures and their families. *Epilepsia.* 2000; 41:732–743.
 78. Byars A W, Byars KC, Johnson CS ve ark. The relationship between sleep problems and neuropsychological functioning in children with first recognized seizures. *Epilepsy Behav.* 2008;13:607–613.
 79. Batista BHB, Nunes ML. Evaluation of sleep habits in children with epilepsy. *Epilepsy Behav.* 2007;11:60–64.
 80. Garikipati V, Vandana G, Toops DS ve ark. Bioequivalence studies of a new valproic acid delayed-release capsule and divalproex sodium delayed-release tablet. *Curr Med Res Opin.* 2008;24:1869–1876.
 81. Berl MM, Virginia T, Alexandra S ve ark. Speed and complexity characterize attention problems in children with localization-related epilepsy. *Epilepsia.* 2015;56:833–840.
 82. Marin NW. Improving parent and child adjustment to epilepsy using parental strategic self-presentation and emotional disclosure (Ph.D. dissertation). United States-District of Columbia, The American University; 2003.
 83. Kanner AM, Schachter SC, Barry JJ ve ark. Depression and epilepsy: epidemiologic and neurobiologic perspectives that may explain their high comorbid occurrence. *Epilepsy & Behavior.* 2012;24:156–168.
 84. Felnhofer A, Kothgassner O, Klier C. How to prevent depression? Current directions and future challenges in children with chronic medical conditions. *Psychiatria Danubina.* 2016;28(4):441–451.
 85. Dunn DW, Besag F, Caplan R. ve ark. Psychiatric and behavioral disorders in children with epilepsy (ILAE Task Force Report): anxiety, depression and childhood epilepsy. *Epileptic Disord.* 2016;18(1):24–30.
 86. Chapieski L, Brewer V, Evankovich K. ve ark. Adaptive functioning in children with seizures: Impact of maternal anxiety about epilepsy. *Epilepsy Behav.* 2005;7:246–252.
 87. Kazak A, Noll R. The Integration of Psychology in Pediatric Oncology Research and Practice Collaboration to Improve Care and Outcomes for Children and Families. *American Psychological Association.* 2015;70(2):146–158.
 88. Hocking, MC, Alderfer MA. (2012). Neuropsychological sequelae of childhood cancer. In S. Kreitler, M. W. Ben-Arush, & A. Martin (Eds.), *Pediatric psychoncology: Psychosocial aspects and clinical interventions* (2nd ed., pp. 175–186). Chichester, West Sussex, England:
 89. Clanton NR, Klosky JL, Chenghong L ve ark. Fatigue, vitality, sleep, and neurocognitive functioning in adult survivors of childhood cancer. *Cancer.* 2011;117:2559–2568.
 90. Kothare SV, Kaleyias J. The clinical and laboratory assessment of the sleepy child. *Semin Pediatr Neurol.* 2008;15:61–69.

91. Kaye EC, Brinkman TM, Baker JN. Development of depression in survivors of childhood and adolescent cancer: a multi-level life course conceptual framework. *Support Care Cancer*. 2017;25(6):2009-17.
92. Smith HR. Depression in cancer patients: pathogenesis, implications and treatment (Review). *Oncol Lett*. 2015;9(4):1509-14.
93. Awaad MI, Darahim KE. Depression and anxiety in adolescents with congenital heart disease. *Middle East Current Psychiatry*. 2015;22(1):2-8.
94. Areias ME, Pinto CI, Vieira PF ve ark. Long term psychosocial outcomes of congenital heart disease (CHD) in adolescents and young adults. *Transl Pediatr*. 2013;2(3):90-8.
95. DeMaso DR, Calderon J, Taylor GA ve ark. Psychiatric disorders in adolescents with single ventricle congenital heart disease. *Pediatrics*. 2017;139(3):e20162241.
96. Fredricks EM, Lopez MJ, Magee JC ve ark. Psychological functioning, nonadherence and health outcomes after pediatric liver transplantation. *Am J Transplant*. 2007;7(8):1974-83.
97. Killian MO, Schuman DL, Mayersohn GS ve ark. Psychosocial predictors of medication non-adherence in pediatric organ transplantation: a systematic review. *Pediatr Transplant*. 2018;22(4):e13188.
98. Dobbels F, Decorte A, Roskams A. ve ark. Health-related quality of life, treatment adherence, symptom experience and depression in adolescent renal transplant patients. *Pediatr Transplant*. 2010;14:216-23.
99. National Child Traumatic Stress Network. Medical Events & Traumatic Stress in Children and Families. <https://www.nctsn.org/sitesinden> 23 aralık 2019 tarihinde erişildi.
100. Uhlenbusch N, Lowe B, Harter M. ve ark. Depression and anxiety in patients with different rare chronic diseases: A cross-sectional study. *PLoS ONE*. 2019;14(2):e0211343.
101. Shore PC, Austin JK, Dunn WD. Maternal adaptation to a child's epilepsy. *Epilepsy Behav*. 2004;5:557-568.
102. Didsbury MS, Medway MM, Tong A. Socio-economic status and quality of life in children with chronic disease: A systematic review. *J Paediatr Child Health*. 2016;52(12):1062-1069.
103. Ferro M.A. Mediated moderation of the relation between maternal and adolescent depressive symptoms: role of adolescent physical health. *Soc Psychiatry Psychiatr Epidemiol*. 2015;50(11):1743-51.
104. O'Neill LP, Murray LE. Anxiety and depression symptomatology in adult siblings of individuals with different developmental disability diagnoses. *Res Dev Disabil*. 2016;51-52:116-25.
105. Blackburn CM, Spencer NJ, Read JM. Is the onset of disabling chronic conditions in later childhood associated with exposure to social disadvantage in earlier childhood? A prospective cohort study using the ONS Longitudinal Study for England and Wales. *BMC Pediatr*. 2013;13:101.
106. Rodenburg R, Meijer AM, Dekovic M. ve ark. Family predictors of psychopathology in children with epilepsy. *Epilepsia*. 2006; 47:601-614.
107. Rubin KH, Bukowski WM., Bowker JC. (2015). Children in peer groups. In R. M. Lerner (Ed.), *Handbook of child psychology and developmental science* (7th ed., pp. 175-220). New York, NY: Wiley.
108. Maes M, Van den Noortgate W, Fustolo-Gunnik S. ve ark. Loneliness in Children and Adolescents With Chronic Physical Conditions: A Meta-Analysis. *Journal of Pediatric Psychology*. 2017;42(6):622-635.
109. Emerson ND, Distelberg, B, Morrell, HER. ve ark. Quality of life and school absenteeism in children with chronic illness. *Journal of School Nursing*. 2016;32:258-266.
110. Qualter P, Brown SL., Rotenberg KJ. ve ark. Trajectories of loneliness during childhood and adolescence: Predictors and health outcomes. *Journal of Adolescence*. 2013;36:1283-1293.
111. Vanhalst J, Rassart J, Luyckx K ve ark. Trajectories of loneliness in adolescents with congenital heart disease: Associations with depressive symptoms and perceived health. *Journal of Adolescent Health*. 2013;53:342-349.
112. Curtin, LS, Siegel AW. Social functioning in adolescents with epilepsy. *Children's Health Care*. 2003;32:103-114.
113. World Health Organization (2007). The Adolescent with a Chronic Condition Epidemiology, developmental issues and health care provision. 2007 [cited 2019 Dec 26]. Available from: https://apps.who.int/iris/bitstream/handle/10665/43775/9789241595704_eng.pdf;jsessionid=F05251EDDB27FB60BF12A9483929B655?sequence=1.
114. Gupta A, Chadda RK. Adverse psychiatric effects of non-psychotropic medications. *BJPsych Advances*. Cambridge University Press. 2016;22(5):325-34.
115. Pao M, Bosk A. Anxiety in Medically Ill Children/Adolescents. *Depress Anxiety*. 2011;28(1):40-49.
116. Kayaalp SO (2012). *Tibbi Farmakoloji*. Ankara: Pelikan Yayıncılık.
117. Ortega A, Huertas S, Coniro G. ve ark. Childhood asthma, chronic illness and psychiatric disorders. *J Nerv Ment Dis*. 2002;190:275-81.
118. Bujoreanu S, White MT, Gerber B. ve ark. Effect of timing of psychiatry consultation on length of pediatric hospitalization and hospital charges. *Hosp Pediatr*. 2015;5(5):269-75.
119. World Health Organization. Adherence to Long-term Therapies: Evidence for Action. 2003 [cited 2019 Dec 27]. Available from: https://www.who.int/chp/knowledge/publications/adherence_report/en/.
120. Walter H, Sadeque F, Ulysse R. ve ark. The effectiveness of school-based family asthma educational programs on the quality of life and number of asthma exacerbations of children aged five to 18 years diagnosed with asthma: a systematic review protocol. *JBIC Database System Rev Implement Rep*. 2015;13(10):69-81.
121. Antwi F, Fazylova N, Garcon MC ve ark. The effectiveness of web-based programs on the reduction of childhood obesity in school-aged children: A systematic review. *JBIC Libr Syst Rev*. 2012;10(42):1-14.
122. Zhou H, Roberts P, Dhaliwal S ve ark. Transitioning adolescent and young adults with chronic disease and/or disabilities from paediatric to adult care services—an integrative review. *Journal of Clinical Nursing*. 2016;25:3113-3130.

123. Garvey CK, Finkelstein AJ, Laffel ML ve ark. Transition experiences and health care utilization among young adults with type 1 diabetes. *Patient Prefer Adherence*. 2013;7:761-769.
124. Huang JS, Terrones L, Tompane T. ve ark. Preparing adolescents with chronic disease for transition to adult care: a technology program. *Pediatrics*. 2014;133:1639-1646.
125. Van Staa A, Van der Stege H, Jedeloo S. ve ark. Readiness to transfer to adult care of adolescents with chronic conditions: exploration of associated factors. *Journal of Adolescent Health*. 2011;48:295-302.
126. Grady AP, Lucio L. Self-Management: A Comprehensive Approach to Management of Chronic Conditions. *Am J Public Health*. 2014; 104:25-31.