10. BÖLÜM

PEDİATRİK ORTOPEDİ SKORLAMALARI

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Ortopedi hastalarının tedavi sonuçlarının takibi ve dokümantasyonu uygulanan metotların doğruluğunun ispatlanması için gereklidir. Hasta için en iyi tedavinin belirlenmesi ve bu tedavide kullanılacak metotların geliştirilmesi için tedavi sonuçları objektif ve sübjektif olarak değerlendirilir. Son yıllarda objektif testlerin yanı sıra hasta bildirimine dayalı, genel ve duruma özel anketler ile tedavi sonuçlarının takip edildiği sübjektif testler ön plana çıkmaktadır. Sübjektif testler tedavinin ve hastalığın hasta üzerindeki kişisel etkilerini araştırır. Birçok ortopedik patolojide yetişkinler için başarıyla uygulanan hasta bildirim skorlamaları mevcuttur. Pediatrik hastalarda, iletişim problemleri ve pediatrik hastanın kendisini tutarlı bir şekilde ifade etmesindeki problemler nedeni ile, hasta bildirim skorlarının uygulanmasına şüphe ile bakılsa da son yıllarda kullanımında artış mevcuttur.

Üst ekstremite

Oxford omuz instabilite skoru

- Oxford omuz instabilitesi skorlaması 1999 yılında Dawson ve arkadaşları tarafından tanımlanmıştır.
- Testin gözlemciler arası güvenilirlik, tekrar edilebilirlik, yapısal güvenilirlik açısından uygun olduğu görülmüştür (1).

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- Duygusal refah veya davranış
- Dikkat veya öğrenme yetenekleri

- Çocuğunuzun fiziksel sağlığı nedeniyle kendi ihtiyaçlarınız için ayırdığınız zaman sınırlandı mı?
- Çocuğunuzun sağlığı veya davranışları ne sıklıkla- bir aile olarak yapabileceğiniz faaliyet türlerini sınırlandırdı
- Genel olarak, ailenizin birbiriyle geçinme yeteneğini nasıl değerlendirirsiniz?

REFERANSLAR

1. Dawson J, Fitzpatrick R, Carr A. The assessment of shoulder instability. The development and validation of a questionnaire. *J Bone Joint Surg Br*. Published online 1999.
2. Nixon MF, Keenan O, Funk L. High recurrence of instability in adolescents playing contact sports after arthroscopic shoulder stabilization. *J Pediatr Orthop Part B*. Published online 2015.
3. Edmonds EW, Bastrom TP, Roocroft JH, Calandra-Young VA, Pennock AT. The Pediatric/Adolescent Shoulder Survey (PASS): A Reliable Youth Questionnaire With Discriminant Validity and Responsiveness to Change. *Orthop J Sport Med*. 2017;5(3):2325967117698466.
4. Hughes JL, Bastrom T, Pennock AT, Edmonds EW. Arthroscopic Bankart Repairs With and Without Remplissage in Recurrent Adolescent Anterior Shoulder Instability With Hill-Sachs Deformity. *Orthop J Sport Med*. 2018;6(12):2325967118813981.
5. Hudak PL, Amadio PC, Bombardier C. Development of an upper extremity outcome measure: the DASH (disabilities of the arm, shoulder and hand) [corrected]. The Upper Extremity Collaborative Group (UECG). *Am J Ind Med*. 1996;29(6):602-608.
6. Konrad GG, Kundel K, Kreuz PC, Oberst M, Sudkamp NP. Monteggia fractures in adults: Long-term results and prognostic factors. *J Bone Jt Surg - Ser B*. Published online 2007.
7. Quatman-Yates CC, Gupta R, Paterno M V., Schmitt LC, Quatman CE, Ittenbach RF. Internal consistency and validity of the QuickDASH instrument for upper extremity injuries in older children. *J Pediatr Orthop*. Published online 2013.
8. Dogan SK, Ay S, Evcik D, Baser O. Adaptation of Turkish version of the questionnaire Quick Disability of the Arm, Shoulder, and Hand (Quick DASH) in patients with carpal tunnel syndrome. *Clin Rheumatol*. Published online 2011.
9. Constant CR, Murley AHG. A clinical method of functional assessment of the shoulder. *Clin Orthop Relat Res*. Published online 1987.
10. Constant CR, Gerber C, Emery RJH, Søjbjerg JO, Gohlke F, Boileau P. A review of the Constant score: Modifications and guidelines for its use. *J Shoulder Elb Surg*. Published online 2008.
11. Bahrs C, Zipplies S, Ochs BG, et al. Proximal humeral fractures in children and adolescents. *J Pediatr Orthop*. Published online 2009.
12. Ali AM, Fawzy SI, Moaty M, Abelaziz M. Treatment of proximal humerus fractures in children with a modified palm tree technique. *J Pediatr Orthop B*. 2018;27(2):99-102.
13. Binder H, Tiefenboeck TM, Payr S, Schurz M, Aldrian S, Sarahrudi K. Treatment of proximal humerus fractures in children and young adolescents. *Wien Klin Wochenschr*. 2016;128(3-4):120-124.
14. Çelik D. Turkish version of the modified Constant-Murley score and standardized test protocol: Reliability and validity. *Acta Orthop Traumatol Turc*. Published online 2016.
15. Morrey BF. *The Elbow and Its Disorders*.; 1993.
16. Turchin DC, Beaton DE, Richards RR. Validity of observer-based aggregate scoring systems as descriptors of elbow pain, function, and disability. *J Bone Jt Surg - Ser A*. Published online 1998.

17. Celik D. Psychometric properties of the Mayo Elbow Performance Score. *Rheumatol Int*. Published online 2015.
18. Nowotny J, Löbstein S, Biewener A, Fitze G, Kasten P. Elbow arthroscopy in children and adolescents: analysis of outcome and complications. *Eur J Med Res*. Published online 2018.
19. Wegmann H, Heider S, Novak M, et al. Outcome following excision of the radial head in children with open physes for impaired elbow motion. *J Shoulder Elb Surg*. Published online 2019.
20. Angelini A, Varela-Osorio AF, Trovarelli G, Berizzi A, Zanotti G, Ruggieri P. Osteoblastoma of the elbow: analysis of 13 patients and literature review. *Eur J Orthop Surg Traumatol*. Published online 2017.
21. Penta M, Thonnard JL, Tesio L. ABILHAND: A Rasch-built measure of manual ability. *Arch Phys Med Rehabil*. Published online 1998.
22. Arnould C, Penta M, Renders A, Thonnard JL. ABILHAND-Kids: A measure of manual ability in children with cerebral palsy. *Neurology*. Published online 2004.
23. Arnould C, Penta M, Thonnard JL. Hand impairments and their relationship with manual ability in children with cerebral palsy. *J Rehabil Med*. Published online 2007.
24. Öksüz Ç, Alemdaroglu I, Kilinç M, et al. Reliability and validity of the Turkish version of ABILHAND-Kids' questionnaire in a group of patients with neuromuscular disorders. *Physiother Theory Pract*. Published online 2017.
25. D'Aubigné RM, Postel M, Brand RA. The classic functional results of hip arthroplasty with acrylic prosthesis. In: *Clinical Orthopaedics and Related Research*. ; 2009.
26. Ugino FK, Righetti CM, Alves DPL, Guimarães RP, Honda EK, Ono NK. Evaluation of the reliability of the modified merle d'aubigné and postel method. *Acta Ortop Bras*. Published online 2012.
27. Yasunaga Y, Yamasaki T, Ochi M. Patient selection criteria for periacetabular osteotomy or rotational acetabular osteotomy. In: *Clinical Orthopaedics and Related Research*. ; 2012.
28. Böhm P, Weber G. Salter's innominate osteotomy for hip dysplasia in adolescents and young adults: Results in 58 patients (69 osteotomies) at 4-12 years. *Acta Orthop Scand*. Published online 2003.
29. Lerch TD, Vuilleumier S, Schmaranzer F, et al. Patients with severe slipped capital femoral epiphysis treated by the modified Dunn procedure have low rates of avascular necrosis, good outcomes, and little osteoarthritis at long-term follow-up. *Bone Joint J*. Published online 2019.
30. Novais EN, Hill MK, Carry PM, Heare TC, Sink EL. Modified Dunn Procedure is Superior to In Situ Pinning for Short-term Clinical and Radiographic Improvement in Severe Stable SCFE. *Clin Orthop Relat Res*. Published online 2015.
31. Harris WH. Traumatic arthritis of the hip after dislocation and acetabular fractures: treatment by mold arthroplasty. An end-result study using a new method of result evaluation. *J Bone Joint Surg Am*. 1969;51(4):737-755.
32. Söderman P, Malchau H. Is the Harris hip score system useful to study the outcome of total hip replacement? *Clin Orthop Relat Res*. Published online 2001.
33. Çelik D, Can C, Aslan Y, Ceylan HH, Bilsel K, Ozdincler AR. Translation, Cross-cultural adaptation, And validation of the turkish version of the harris hip score. *HIP Int*. Published online 2014.
34. Ebert N, Rupprecht M, Stuecker R, et al. Outcome of the modified Dunn procedure in severe chronic or acute on chronic slipped capital femoral epiphysis. *J Orthop Surg Res*. Published online 2019.
35. Wang CW, Wu KW, Wang TM, Huang SC, Kuo KN. Comparison of acetabular anterior coverage after Salter osteotomy and Pemberton acetabuloplasty: A long-term followup. *Clin Orthop Relat Res*. Published online 2014.
36. Sakamoto T, Naito M, Nakamura Y. Outcome of peri-acetabular osteotomy for hip dysplasia in teenagers. *Int Orthop*. Published online 2015.

37. Marchetti P, Binazzi R, Vaccari V, et al. Long-term results with cementless fitek (or fitmore) cups. *J Arthroplasty*. Published online 2005.
38. Roos EM, Roos HP, Lohmander LS, Ekdahl C, Beynnon BD. Knee Injury and Osteoarthritis Outcome Score (KOOS) - Development of a self-administered outcome measure. *J Orthop Sports Phys Ther*. Published online 1998.
39. Örtqvist M, Roos EM, Broström EW, Janarv PM, Iversen MD. Development of the Knee Injury and Osteoarthritis Outcome Score for Children (KOOS-Child): Comprehensibility and content validity. *Acta Orthop*. Published online 2012.
40. Yilmaz Tasdelen O, Utkan A, Ceritoglu KU, Ozalp Ates FS, Bodur H. Responsiveness of the Turkish KOOS-PS and HOOS-PS in knee and hip joint arthroplasty patients. *J Back Musculoskelet Rehabil*. Published online February 2020.
41. Morris C, Liabo K, Wright P, Fitzpatrick R. Development of the Oxford ankle foot questionnaire: Finding out how children are affected by foot and ankle problems. *Child Care Health Dev*. Published online 2007.
42. Morris C, Doll HA, Wainwright A, Theologis T, Fitzpatrick R. The Oxford ankle foot questionnaire for children: Scaling, reliability and validity. *J Bone Jt Surg - Ser B*. Published online 2008.
43. Hajebrahimi F, Tarakci D, Arman N, Emir A, Bursali A, Tarakci E. Cross-cultural adaptation, validity and reliability of Turkish version of Oxford Ankle Foot Questionnaire for children with congenital talipes equinovarus. *Foot Ankle Surg*. Published online 2020.
44. Feldman AB, Haley SM, Coryell J. Concurrent and construct validity of the pediatric evaluation of disability inventory. *Phys Ther*. Published online 1990.
45. Erkin G, Elhan AH, Aybay C, Sirzai H, Ozel S. Validity and reliability of the Turkish translation of the pediatric evaluation of disability inventory (PEDI). *Disabil Rehabil*. Published online 2007.
46. Haley SM, Coster WJ, Ludlow LH, Haltiwanger JT, Andrellos PJ. Pediatric Evaluation of Disability Inventory. *Pediatr Phys Ther*. 1994;6:42.
47. Sköld A, Hermansson LN, Krumlinde-Sundholm L, Eliasson AC. Development and evidence of validity for the Children's Hand-use Experience Questionnaire (CHEQ). *Dev Med Child Neurol*. Published online 2011.
48. Amer A, Eliasson AC, Peny-Dahlstrand M, Hermansson L. Validity and test–retest reliability of Children's Hand-use Experience Questionnaire in children with unilateral cerebral palsy. *Dev Med Child Neurol*. Published online 2016.
49. Msall ME, DiGaudio K, Rogers BT, et al. The Functional Independence Measure for Children (WeeFIM). Conceptual basis and pilot use in children with developmental disabilities. *Clin Pediatr (Phila)*. Published online 1994.
50. Erkin G, Aybay C, Kurt M, Keles I, Cakci A, Ozel S. The assessment of functional status in Turkish children with cerebral palsy (a preliminary study). *Child Care Health Dev*. Published online 2005.
51. Palisano R, Rosenbaum P, Walter S, Russell D, Wood E, Galuppi B. Development and reliability of a system to classify gross motor function in children with cerebral palsy. *Dev Med Child Neurol*. Published online 1997.
52. El Ö, Baydar M, Berk H, Peker Ö, Koşşay C, Demiral Y. Interobserver reliability of the Turkish version of the expanded and revised gross motor function classification system. *Disabil Rehabil*. Published online 2012.
53. Roye BD, Vitale MG, Gelijns AC, Roye DP. Patient-based outcomes after clubfoot surgery. *J Pediatr Orthop*. Published online 2001.
54. Dietz FR, Tyler MC, Leary KS, Damiano PC. Evaluation of a disease-specific instrument for idiopathic clubfoot outcome. In: *Clinical Orthopaedics and Related Research*. ; 2009.
55. Böhm S, Sinclair MF. The PBS score – a clinical assessment tool for the ambulatory and recurrent clubfoot. *J Child Orthop*. Published online 2019.
56. Singh G, Athreya BH, Fries JF, Goldsmith DP. Measurement of health status in children with juvenile rheumatoid arthritis. *Arthritis Rheum*. Published online 1994.

57. Ozdogan H, Ruperto N, Kasapçopur O, et al. The Turkish version of the Childhood Health Assessment Questionnaire (CHAQ) and the Child Health Questionnaire (CHQ). *Clin Exp Rheumatol*. 2001;19(4 Suppl 23):S158-62.
58. Landgraf JM, Maunsell E, Nixon Speechley K, et al. Canadian-French, German and UK versions of the child health questionnaire: Methodology and preliminary item scaling results. *Qual Life Res*. Published online 1998.
59. Tüzün EH, Guven DK, Eker L. Pain prevalence and its impact on the quality of life in a sample of Turkish children with cerebral palsy. *Disabil Rehabil*. Published online 2010.