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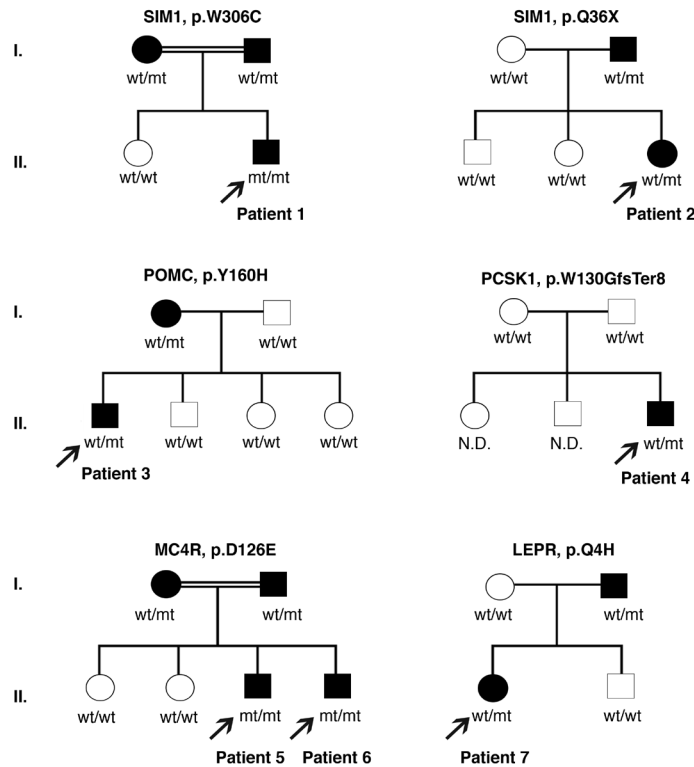
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Pedigrees of the families bearing novel variants in obesity related genes. Arrows indicate probands in each family. Genotypes were defined as wild type (wt) or mutant (mt) for corresponding variations

Novel Mutations in Obesity-related Genes in Turkish Children with Non-syndromic Early Onset Severe Obesity: A Multicentre Study

Akinci A et al.

DOI: 10.4274/jcrpe.galenos.2019.2019.0021



Official Journal of
Turkish Pediatric Endocrinology
and Diabetes Society

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kolay^{1,2}



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kolay^{1,2}



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kolay^{3,4}



Gigi, ikiz, 4 yaşında, gebelik yaşına göre küçük ağırlıkta doğmuş, ikizi ile birlikte (gebelik yaşına uygun ağırlıkta doğmuş)

Referanslar: 1. Tauber M, et al. Patient Prefer Adherence. 2013;7:455-462. 2. Rohrer TR, et al. Expert Opin Drug Deliv. 2013;10:1603-1612. 3. Norditropin NordiFlex® Kısa Ürün Bilgisi ve Kullanma Talimatı. 4. Data on File: Norditropin NordiFlex™ Development and Comparison to FlexPen®, ID: 000184362. Bagsvaerd, Denmark: Novo Nordisk A/S; 2003.

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Bileşimi: 5 mg/1.5 mL kullanıma hazır kalem ml'sinde 3.3 mg, 10 mg/1.5 mL kullanıma hazır kalem ml'sinde 6.7 mg ve 15 mg/1.5 mL kullanıma hazır kalem ml'sinde 10 mg somatotropin (rekombinant büyüme hormonu) içerir. **Farmasötik Form:** Enjeksiyonluk çözelti içeren kullanıma hazır kalem. **Endikasyonları:** **Cocuklarda:** Büyüme hormonu eksikliğine (BHE) bağlı büyüme geriliği, kızlarda gonadal disgeneziye bağlı büyüme geriliği (Turner Sendromu), puberte öncesi çocuklarda kronik böbrek hastalığına bağlı büyüme gecikmesi, doğum boyu ve/veya ağırlığı -2 SS'nin altında olan ve 4 yaşına veya daha sonrasında kadar büyüme yakalayamamış (son yıl süresince büyüme hızı SSS < 0) gebelik yaşına göre küçük (SGA) doğmuş kısa boylu çocuklarda büyüme geriliği (su anki boy SSS < -2.5 ve parental düzeltilmiş boy SSS < -1). **Eriskinlerde:** **Cocukluk döneminde başlayan BHE:** Üçten fazla hipofiz hormonu eksikliği olanlarda, tanımlanmış bir genetik sebebe, yapısal hipotalamo-hipofizer anomallere, santral sinir sistemi tümörlerine veya yüksek doz kranial ışınlamaya bağlı şiddetli BHE olan kişilerde ya da hipotalamo-hipofizer hastalık veya yetmezliğine sekonder BHE'li kişilerde, eğer büyüme hormonu tedavisini bıraktıktan en az 4 hafta sonra IGF-I < -2 SSS ise test gerekli değildir. Diğer tüm hastalarda IGF-I ölçümü ve bir büyüme hormonu stimülasyon testi gereklidir. **Eriskinlik döneminde başlayan BHE:** Bilinen hipotalamo-hipofizer hastalıkta, kranial ışınlama ve travmatik beyin hasarında belirgin BHE (hipotalamo-hipofizer aksta prolaktin dışında başka bir eksiklik). Akstaki diğer eksiklikler için yeterli replasman tedavisinin başlatılmasından sonra bir provokatif test ile BHE gösterilmelidir. **Kontraindikasyonlar:** Tümör aktivitesi bulgu varlığında; açık kalp cerrahisi, abdominal cerrahi, kazaya bağlı çoklu travma, akut solunum yetmezliği veya benzer durumlardan takiben akut kritik hastalık komplikasyonları olan hastalarda; somatotropine ya da bileşimindeki maddelerden herhangi birisine aşırı duyarlılık durumlarında; kronik böbrek yetmezliği olan çocuklarda renal transplantasyon yapıldıktan; epifizleri kapanmış çocuklarda kullanılmamalıdır. **Kullanım şekli ve dozu:** Cilt altına enjeksiyon ile (s.c.) kullanılır. Doz hastaya göre ve hastanın tedavisi verdiği yanıt göz önüne alınarak düzenlenmelidir. Genellikle, her gün akşamları ve enjeksiyon yeri değiştirilerek uygulama önerilmektedir. **Genel olarak önerilen doz:** **Cocuklarda:** **Büyüme hormonu yetersizliği:** 0.025-0.035 mg/kg/gün veya 0.7-1.0 mg/m²/gün. **Turner Sendromu:** 0.045-0.067 mg/kg/gün veya 1.3-2 mg/m²/gün. **Kronik böbrek hastalığı:** 0.050 mg/kg/gün veya 1.4 mg/m²/gün. **Gebelik yaşına göre küçük:** 0.035 mg/kg/gün veya 1 mg/m²/gün. **Eriskinlerde:** **Eriskinlerde replasman tedavisi:** Doz, hastanın gereksinimine göre belirlenmelidir. Çocukluk döneminde başlayan BHE'li olan hastalarda tedaviye 0.2-0.5 mg/gün dozla başlanması ve sonrasında IGF-I konsantrasyonlarına göre dozun ayarlanması önerilmektedir. Eriskinlikte başlayan BHE hastalarında tedaviye düşük dozla başlanması önerilir: 0.1-0.3 mg/gün. Dozun, hastanın tedaviye verdiği yanıt ve hastanın advers etkiler ile ilgili deneyimleri göz önüne alınarak birer aylık aralıklarla artırılması önerilmektedir. Serum İnsülin Benzeri Büyüme Faktörü I (IGF-I), doz titrasyonu için rehber olarak kullanılabilir. Doz ihtiyacı yaşa bağlı olarak azalır. İdame dozu kişisel farklılıklar göstermekle birlikte, nadiren 1.0 mg/gün değerinin üzerine çıkar. **Uyarılar/Önemler:** Tedavisi, her zaman bu konuda bilgi ve deneyimi olan uzman hekimler tarafından yapılmalıdır. Önerilen maksimum günlük doz aşılmamalıdır. Turner Sendromlu hastalarda el ve ayaklarda büyüme artışı gözlenirse, dozun, doz aralığındaki daha düşük bir doza düşürülmesi düşünülmelidir. Kronik böbrek hastalığı olan hastalarda, böbrek fonksiyonları takip edilmelidir. Turner Sendromlu ve SGA'lı çocuklarda tedaviye başlamadan önce ve daha sonra yılda bir kez açık insülin ve kan glukoz değerlerinin ölçülmesi ve insülin tedavisi almakta olanlarda dozun izlenmesi önerilir. Belirgin diyabet ortaya çıkarsa büyüme hormonu tedavisi uygulanmamalıdır. Aşırı obezite, üst solunum yolu obstrüksiyonu, uyku apnesi öyküsü veya tanımlanamamış solunum enfeksiyonu gibi risk faktörlerinden biri ya da birden fazlası olan Prader-Willi sendromlu hastalarda somatotropin tedavisinin başlanması ile ani ölümler bildirilmiştir. İlerleyen hipofiz hastalığı olan hastalarda hipotiroidizm gelişebilir. Şiddetli ve tekrarlayıcı baş ağrısı, görme bozuklukları, bulantı varlığında hasta papil ödemi açısından incelenmelidir. Somatotropin tedavisi gören yetişkinlerde veya çocuklarda yeni primer kanser riskinin arttığına dair bir kanıt yoktur. Malign hastalığı tamamen remisyonunda olan hastalarda, somatotropin tedavisi, relaps oranının artması ile ilişkili bulunmamıştır, ancak bu hastalar relaps açısından somatotropin tedavisinin başlangıcından itibaren yakından izlenmelidir. **Gebelik kategorisi:** C. Gebelik döneminde somatotropin tedavisinin güvenliliği açısından yeterli kanıt bulunmamaktadır. Somatotropin insan sütüne geçip geçmediği bilinmediğinden emziren kadınlara verileceği zaman dikkat edilmelidir. **Yan Etkiler/Advers Etkiler:** Eriskinlerde periferik ödem, baş ağrısı, parestezi, artralji eklem sertliği ve miyalji görülebilir. Çocuklarda döküntü, artralji, miyalji ve periferik ödem seyrek olarak ve baş ağrısı yaygın olmayan şekilde görülebilir. Lokal enjeksiyon yeri reaksiyonları oluşabilir. Bazı nadir vakalarda benign intrakranial hipertansiyon bildirilmiştir. Turner Sendromlu çocuklarda büyüme hormonu tedavisi sırasında el ve ayaklarda büyümenin arttığı bildirilmiştir. **Etkileşimler:** Glukokortikoidler ile birlikte kullanılması büyüme inhibe edebilir. Büyüme: gonadotropin, anabolik steroidler, östrojen ve tiroid hormonu gibi diğer tedavilerden de etkilenebilir. **Saklamaya Yönelik Özel Tedbirler:** Açıldıktan sonra: Buzdolabında (2°C-8°C) maksimum 4 hafta saklayınız. Işıktan koruyunuz. Dondurmayınız. Ürün, alternatif olarak, 25°C'nin altında maksimum 3 hafta saklanabilir. **Ruhsat Sahibi:** Novo Nordisk Sağlık Ürünleri Tic. Ltd. Şti. Nispetiye Cad. Akmerkez E3 Blok Kat 7 34335 Etiler - İstanbul. **Ruhsat Tarihi ve No:** Norditropin® NordiFlex® 5mg; 07.01.2002-11/15/56, Norditropin® NordiFlex® 10mg; 25.12.2001-11/14/5, Norditropin® NordiFlex® 15mg; 25.12.2001-11/14/44 **Yalnız reçete ile kullanılmalıdır. Perakende Satış Fiyatı:** Ürünün güncel fiyatı için lütfen firmamıza başvurunuz. **Kısa Ürün Bilgisi Yenilenme Tarihi:** 11.01.2019. Norditropin® NordiFlex® Novo Nordisk'in ticari markasıdır. Daha geniş bilgi için firmamıza başvurunuz.

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- Each section (abstract, text, references, tables, figures) should start on a separate page.

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- Word count (excluding abstract, figure legends and references)
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What is already known on this topic?

What this study adds?

These two items must be completed before submission. Each item should include at most 2-3 sentences and at most 50 words focusing on what is known and what this study adds.

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The article should begin with a brief introduction stating why the study was undertaken within the context of previous reports.

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These should be described and referenced in sufficient detail for other investigators to repeat the work. Ethical consent should be included as stated above.

The name of the ethical committee, approval number should be stated.

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The Results section should briefly present the experimental data in text, tables, and/or figures. Do not compare your observations with that of others in the results section.

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The Discussion should focus on the interpretation and significance of the findings with concise objective comments that describe their relation to other work in that area and contain study limitations.

Study Limitations

Limitations of the study should be detailed. In addition, an evaluation of the implications of the obtained findings/results for future research should be outlined.

Conclusion

The conclusion of the study should be highlighted.

Acknowledgments (Not Required for Submission)

An acknowledgment is given for contributors who may not be listed as authors, or for grant support of the research.

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The kind of contribution of each author should be stated.

References

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Books: List all authors or editors.

Sample References

Papers Published in Periodical Journals: Gungor N, Saad R, Janosky J, Arslanian S. Validation of surrogate estimates of insulin sensitivity and insulin secretion in children and adolescents. J Pediatr 2004;144:47-55.

Papers Only Published with DOI Numbers: Knops NB, Sneeuw KC, Brand R, Hile ET, de Ouden AL, Wit JM, Verloove-Vanhorick SP. Catch-up growth up to ten years of age in children born very preterm or with very low birth weight. BMC Pediatrics 2005 doi: 10.1186/1471-2431-5-26.

Book Chapters: Darendeliler F. Growth Hormone Treatment in Rare Disorders: The KIGS Experience. In: Ranke MB, Price DA, Reiter EO (eds). Growth Hormone Therapy in Pediatrics: 20 Years of KIGS. Basel, Karger, 2007;213-239.

Books: Practical Endocrinology and Diabetes in Children. Raine JE, Donaldson MDC, Gregory JW, Savage MO. London, Blackwell Science, 2001;37-60.

Tables

Tables must be constructed as simply as possible. Each table must have a concise heading and should be submitted on a separate page. Tables must not simply duplicate the text or figures. Number all tables in the order of their citation in the text. Include a title for each table (a brief phrase, preferably no longer than 10 to 15 words). Include all tables in a single file following the manuscript.

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Review

- 329** Achieving Optimal Short- and Long-term Responses to Paediatric Growth Hormone Therapy Achieving Optimal Short- and Long-term Responses to Paediatric Growth Hormone Therapy
Jan M. Wit, Asma Deeb, Bassam Bin-Abbas, Angham Al Mutair, Ekaterina Koledova, Martin O. Savage, (Leiden, Netherlands, Abu Dhabi, United Arab Emirates, Riyadh, Saudi Arabia, Darmstadt, Germany, London, United Kingdom)

Original Articles

- 341** Novel Mutations in Obesity-related Genes in Turkish Children with Non-syndromic Early Onset Severe Obesity: A Multicentre Study
Aysehan Akinci, Doğa Türkkahraman, İbrahim Tekedereli, Leyla Özer, Bahri Evren, İbrahim Şahin, Tarkan Kalkan, Yusuf Çürek, Emine Çamtosun, Esra Döğür, Aysun Bideci, Ayla Güven, Erdal Eren, Özlem Sangün, Atilla Çayır, Pelin Bilir, Ayça Törel Ergür, Oya Ercan, (Malatya, Antalya, Ankara, İstanbul, Bursa, Adana, Erzurum, Turkey)
- 350** Glucose Metabolism Evaluated by Glycated Hemoglobin and Insulin Sensitivity Indices in Children Treated with Recombinant Human Growth Hormone
Maria Chiara Pellegrin, Daria Michelin, Elena Faleschini, Claudio Germani, Egidio Barbi, Gianluca Tornese, (Trieste, Italy)
- 358** Impact of Socioeconomic Characteristics on Metabolic Control in Children with Type 1 Diabetes in a Developing Country
Abeer Alassaf, Rasha Odeh, Lubna Gharaibeh, Sarah Ibrahim, Kamel Ajlouni, (Amman, Jordan)
- 366** Accuracy of Tri-ponderal Mass Index and Body Mass Index in Estimating Insulin Resistance, Hyperlipidemia, Impaired Liver Enzymes or Thyroid Hormone Function and Vitamin D Levels in Children and Adolescents
Nese Akcan, Rüveyde Bundak, (Nicosia, Kyrenia, Cyprus)
- 374** Serum Neuron-specific Enolase and S100 Calcium-binding Protein B in Pediatric Diabetic Ketoacidosis
Hatem Hamed Elshorbagy, Naglaa Fathy Barseem, Akram Elshafey Elsadek, Ashraf Hamed Al-shokary, Yehia Hamed Abdel Maksoud, Sameh Elsayed Abdulsamea, Iman M. Talaat, Hany Abdelaziz Suliman, Naglaa M. Kamal, Waleed E. Abdelghani, Sanaa Mohammed Azab, Dalia Mohamed Nour El Din, (Taif, Saudi Arabia, Shebeen Elkom, Al Obour, Cairo, El-Khalifa, Benha, Egypt)
- 388** Clinical and Biochemical Phenotype of Adolescent Males with Gynecomastia
Miłosz Lorek, Dominika Tobolska-Lorek, Barbara Kalina-Faska, Aleksandra Januszek-Trzciakowska, Aneta Gawlik, (Katowice, Poland)
- 395** Liver Biochemical Abnormalities in Adolescent Patients with Turner Syndrome
Małgorzata Wójcik, Anna Ruszała, Dominika Januś, Jerzy B. Starzyk, (Kraków, Poland)
- 400** Clinical Management and Gene Mutation Analysis of Children with Congenital Hyperinsulinism in South China
Aijing Xu, Jing Cheng, Huiying Sheng, Zhe Wen, Yunting Lin, Zhihong Zhou, Chunhua Zeng, Yongxian Shao, Cuiling Li, Li Liu, Xiuzhen Li, (Guangzhou, China)
- 410** Subclinical Myocardial Dysfunction Demonstrated by Speckle Tracking Echocardiography in Children with Euthyroid Hashimoto's Thyroiditis
Emine Azak, Seyit Ahmet Uçaktürk, İbrahim İlker Çetin, Hazım Alper Gürsu, Eda Mengen, Utku Pamuk, (Ankara, Turkey)

Case Reports

- 419** A Novel Nonsense Mutation of *PHF6* in a Female with Extended Phenotypes of Borjeson-Forssman-Lehmann Syndrome
Xia Zhang, Yanjie Fan, Xiaomin Liu, Ming-Ang Zhu, Yu Sun, Hui Yan, Yunjuan He, Xiantao Ye, Xuefan Gu, Yongguo Yu, (Shanghai, China)
- 426** Isolated Growth Hormone Deficiency Type 2 due to a novel *GH1* Mutation: A Case Report
Ahmad Kautsar, Jan M. Wit, Aman Pulungan, (Jakarta, Indonesia, Leiden, The Netherlands)
- 432** A Novel Homozygous Mutation of the Acid-Labile Subunit (*IGFALS*) Gene in a Male Adolescent
Şükran Poyrazoğlu, Vivian Hwa, Firdevs Baş, Andrew Dauber, Ron Rosenfeld, Feyza Darendeliler, (Istanbul, Turkey, Ohio, Washington, USA)
- 439** A Case of Autosomal Dominant Osteopetrosis Type 2 with a *CLCN7* Gene Mutation
Sol Kang, Young Kyung Kang, Jun Ah Lee, Dong Ho Kim, Jung Sub Lim, (Seoul, Republic of Korea)
- 444** Three Siblings with Idiopathic Hypogonadotropic Hypogonadism in a Nonconsanguineous Family: A Novel *KISS1R/GPR54* Loss-of-Function Mutation
Özlem Nalbantoğlu, Gülçin Arslan, Özge Köprülü, Filiz Hazan, Semra Gürsoy, Behzat Özkan, (Izmir, Turkey)

Letter to the Editor

- 449** Catch-up Growth at Term Equivalence in Extremely Premature Small for Gestational Age Infants Compared with Extremely Premature Appropriate for Gestational Age Infants
Hüseyin Anıl Korkmaz, (Manisa, Turkey)

451 Erratum

2019 Index

2019 Referee Index
2019 Author Index
2019 Subject Index