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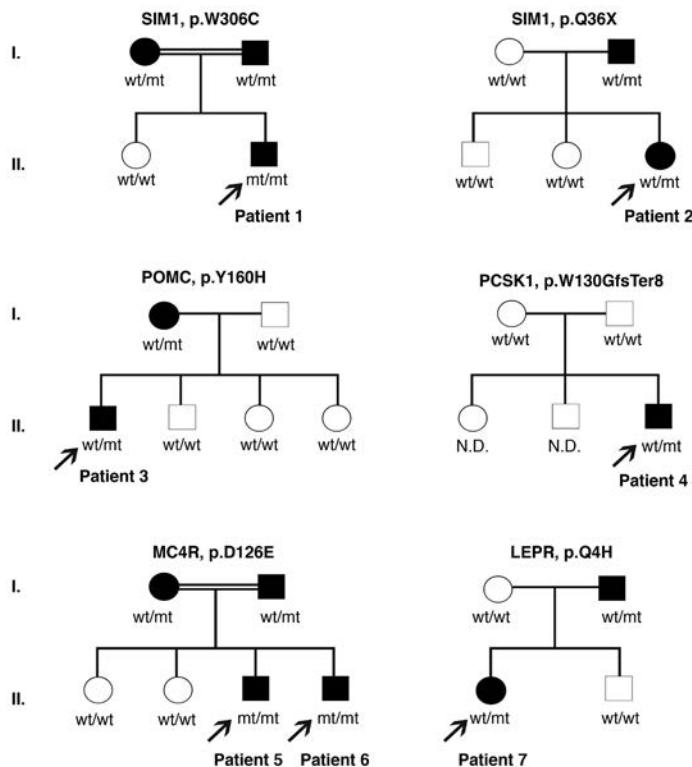
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Pedigrees of the families bearing novel variants in obesity related genes.
Arrows indicate probands in each family. Genotypes were defined as wild type
(wt) or mutant (mt) for corresponding variations

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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Öğrenmesi
kolay^{1,2}



Kullanması
kolay^{1,2}



Taşımı
kolay^{3,4}



Gigl, 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 kullanım hazırlama hazır kalemlerde 3.3 mg, 10 mg/1.5 mL kullanım hazırlama hazır kalemlerde 6.7 mg ve 15 mg/1.5 mL kullanım hazırlama hazır kalemlerde 10 mg somatropin (rekombinant büyümeye hormonu) içerir. **Farmasötik Form:** Enjeksiyonlu çözelti içeren kullanım hazırlama kalemleri. **Endikasyonları:** **Cocuklarda:** Büyüme hormonu eksikliğine (BHE) bağlı büyümeye geriligi, kılarda gonadal disgenesiye bağlı büyümeye geriligi (Turner Sendromu), puberte öncesi çocukların kronik böbrek hastalığına bağlı büyümeye gecikmesi, doğum boyu ve/yetra ağırlığı -2 SSS'nin altında olan ve 4 yaşına veya daha sonrasına kadar büyümeyi yakalayamamış (son yıl süresince büyümeye hız SSS < 0) gebelik yaşına göre küçük (SGA) doğmuş kişi boylu çocukların büyümeye geriligi (su anki boy SSS <-2.5 ve parental düzeltimli boy SSS < -1). **Eriskinlerde:** Cocukluk döneminde başlayan BHE: Uçten fazla hipofiz hormonu eksikliği olanlarında, tanılmamış bir genetik sebebe, yapsal hipotalamo-hipofize anomalilerde, santral sinir sistemi tümörlerine veya yüksek doz kraniali sinir şantlamaya bağlı sidettili BHE olan kişilerde, veya yetmezliğine sekonder BHE'li kişilerde, eğer büyümeye hormonu tedavisińi bırakıktan en az 4 hafta sonra IGF-I < -2 SSS ise test gereklidir. Diğer tüm hastalarda IGF-I ölçümü ve bir büyümeye hormonu stimülasyon testi gereklidir. Eriskinlik döneminde başlayan BHE: Bilinen hipotalamo-hipofizer hastalıklar, kranialı işinlama ve travmatik beyin hasarında belirgin BHE (hipotalamo-hipofizér aksta prolaktin dışında başka bir eksiklik). Akstaki diğer eksiklikler için yeterli replasman tedavisinin başlatılmasından sonra bir provokatif test ile BHE gösterilmelidir. **Kontrendikasyonlar:** Tümör aktivitesi bulgu varlığında; açık kalp cerrahisi, abdominal cerrahi, kazaya bağlı coklu travma, akut solunum yetmezliği veya benzer durumları takiben akut kritik hastalık komplikasyonları olan hastalarda; somatropine ya da bilesimindeki maddelerden herhangi birisine aşırı duyarlılık durumlarında; kronik böbrek yetmezliği olan çocukların renal transplantasyon yapılmıştır; epizifler kapamış cocuklarda kullanılmamalıdır. **Kullanım şekli ve dozu:** Cilt altına enjeksiyon ile (s.c.) kullanılır. Doz hastaya göre ve hastanın tedavide verdiği yanıt göz önüne alınarak dizerken önemlidir. Genellikle, her gün aksamları ve enjeksiyon yeri değiştirilerek uygulanır. **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 gereklisinirome göre belirlenmelidir. Cocukluk döneminde başlayan BHE'si olan hastalarda tedavide 0.2-0.5 mg/gün doza başlanması ve sonrasında IGF-I konsantrasyonlarına göre dozun artırılması önerilmelidir. Eriskinlikte başlayan BHE hastalarda tedavide düşük doza başlanması önerilir: 0.1-0.3 mg/gün. Dozun, hastanın tedavide yanıt verdiği ve hastanın aduers etkiler ile ilgili deneyimleri göz önüne alınarak birer aylık aralıklar ile artırılmış önerilmelidir. Serum İnsülin Benzeri Büyüme Faktörü I (IGF-I), doz titrasyonu için rehber olarak kullanılabilir. Doz ihtiyacı yaş bağlı olarak azalır. İdame dozu kişisel farklılıkların birlikte, nadiren 1.0 mg/gün değerinin üzerine çıkar. **Uyarılar/Onlemeler:** Tedavisi, her zaman bu konuda bilgi ve deneyimi olan uzman hekimler tarafından yapılmalıdır. Önerilen maksimum günlük doz asılmamalıdır. Turner Sendromlu hastalarda el ve ayaklarda büyümeye artışı gözlenirse, dozun, doz aralığındaki daha düşük bir doza düşürülmesi düşünülmeli. Kronik böbrek hastalığı olan hastalarda, böbrek fonksiyonları takip edilmelidir. Turner Sendromlu ve SGA'lı çocukların tedavide başlamadan önce ve daha sonra yilda bir kez açlık insülni ve kan glukoz değerlerinin ölçülmeli ve insülin tedavisi almaları için de dozun izlenmesi önerilir. Belirgin diyabet ortaya çıkarsa büyümeye tedavisi uygulanmamalıdır. Asır obezite, üs solunum yolu obstrüksiyonu, uykı apnesi öyküsü veya tanımlanamamış solunum enfeksiyonu gibi risk faktörlerinden biri ya da birden fazla olan Prader-Willi sendromlu hastalarda somatropin tedavisinin başlaması ile ani ölümler bildirilmiştir. İlerleyen hipofiz hastalığı olan hastalarda hipotiroizm gelişebilir. Siddetti ve tekrarlayıcı baş ağrısı, görme bozuklukları, bulanı varlığında hasta papill ödemci açısından incelenmelidir. Somatropin tedavisi gören yetişkinlerde veya cocuklarda yeni primer kanser riskinin arttığını dair bir kanıt yoktur. Malign hastalık tamamen remisyonda olan hastalarda, somatropin tedavisi, relaps oranının artması ile ilişkilik bulunmamıştır, ancak bu hastalar relaps açısından somatropin tedavisinin başlangıcından itibaren yakından izlenmelidir. **Gebelik kategorisi:** C. Gebelik döneminde somatropin tedavisinin güvenilirliği açısından yeterli kanıt bulunmamaktadır. Somatropinin insan sütüne geçip gecmediği bilinmemişinden emziren kadınlara verileceği zaman dikkat edilmelidir. **Yan Etkiler/Advers Etkiler:** Eriskinlerde periferik ödem, baş ağrısı, parestezi, artrali ejeklem serilliği ve miyial görüselliği. Cocuklarda doküntü, artrali, miyalji ve periferik ödem seyrek olarak ve baş ağrısı yaygın olmayan şekilde görülebilir. Lokal enjeksiyon yeri reaksiyonları olabilir. Bazi nadir vakalarda benign intrakranial hipertansiyon bildirilmiştir. Turner Sendromlu çocukların büyümeye hormonu tedavisi sırasında el ve ayaklarda büyümeyen artırtıcı bildirilmiştir. **Etkileşimler:** Glukokortikoidler ile birlikte kullanılması büyümeyi inhibe edebilir. Büyümeye, gonadotropin, anabolik steroidler, östrojen ve tiroïd hormonu gibi diğer tedavilerden de etkileşebilir. **Saklamaya Yönelik Özel Tedbirler:** Acıldıktan sonra: Buzdolabında (2°C-8°C) maksimum 4 hafta saklayınız. Isıtan koruyunuz. Dondurmayın. 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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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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.

Discussion

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.

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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.

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Tüm temel endikasyonlarda onaylı tek sıvı büyüme hormonu¹⁻⁵

AZİM

ADANMISLIK

- Kullanım kolaylığı⁶
 - Onaylı uzun dönem etkililik⁶
 - Uygunluk^{7,8}
 - Kullanıma hazır sıvı formülasyon⁶
 - Kanıtlanmış güvenilirlik⁶
 - Yılların biyoteknoloji deneyimi⁹

Referansları: 1. Omnitrope® KÜB. 2. Genotropin KÜB. 3. Norditropin KÜB. 4. Humatrop KÜB. 5. Saizen KÜB. 6. Romer T et al. Seven years of safety and efficacy of the recombinant human growth hormone Omnitrope® in the treatment of growth hormone deficient children: results of a phase III study. Horm Res 2009; 72: 359-369. 7. Rapaport R, et al. Med Devices [Auckl] 2013;6:141-146. 8. Patsch C, et al. Med Devices [Auckl] 2015;8:389-393. 9. Omnitrope® Resmi Websitesi. <https://www.sandoz.com/our-work/biopharmaceuticals/sandoz-biosimilars> Erişim tarihi: Mart 2019

Bu ilaç ek izlemeye tabidir. Bu üçgen yeni güvenlik bilgisini hızlı olarak belirlermesini sağlayacaktır. Sağlık mesleki mensuplarının şüpheli advers reaksiyonları TÜFAM'a bildirmeleri beklenmektedir. Raporlama yapılması, ilaçın yarar/risk değeriin sürekli olarak izlenmesine olanak sağlayacaktır. Herhangi bir şüpheli advers reaksiyonu Türkiye Farmakoviyans Merekezi [TÜFAM] ne (www.titck.gov.tr, e-posta: tufam@titck.gov.tr) ve/veya ilgili firma yetkililerine bildirilmek gerekmektedir.

çinko konservoli dehidro asizofaz, hipertansiyon ve beslenme durumu kontrolüne içeren) uygunlukları ve tedavi süresince sürdürülmeleridir. **Koraciğer yetmezliği:** Koraciğer fonksiyon bozukluğu olan hastalarda somatropin klerenin azalma görülebilirken, ancak bu durumdan etkilenmemektedir. **Pediatrik popülasyon:** Somatropin dozu ve uygulama hizi her hastaya göre bireysel olarak ayarlanmalıdır. Epizis fazında olumsuz etki devam edilemeyecektir. Büyüme hormonu tedavisi yantı zamana uzadıracak, ancaklığının gösterilmesi beklenir. **Kontrendikasyonlar:** Somatropin veya herhangi bir yardımcı maddeye karşı alerji duyarılıkları, Somatropin, kraliçe karp omuzfıt, abdominal cerrahi, multiple kazan travması, akut solunum yetmezliği veya benzer denizlere gibi okul kritik hastalıkları, olağan tehditlerde ya da tedavide boyamaları, ilaç kullanımları, Obezlik, kulanım restriksiyonları, Eğitici, serum İGT-1 seviyelerinden çok yüksek gürün aralıklarında somatropin tedavisi uygulanmamalıdır. Solunum spesifikleri, Eşlik eden hastalıklar, nüks belirtileri, dikkat bozukluğu, yineleme, serum T3 seviyesinde azalma ve serum T3 konstanterasyonlarında bir artıya sonuclanabilir. Malign hastalıklar tedavide son derecede güçlüklerin bir büyümeye koraciğer yetmezliği varsa maljenlik nüks belirtilerine dikkat etmeli ve tedavide onarılabilir. Nüks sinyallerinde, bu durumda gürme problemleri, mide ülserleri ve/veya kuşku durumlarında papillozili içinde fundoskopin kullanılmıştır. Eger papillozili varsa doğrulama, nüks haliyle deprem atışları, beşiklerde ve 3 yaşına kadar olan çocukların lokalsk redaksiyonlara sebebiyet vermektedir.

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