



CELOX, 1965 yılından itibaren sürdürülmemekte olan hemostatik ajanlar alanında, ölümcül arter/ven kanama modellerinde bilimsel olarak ispatlanmış ve fiyat etkinlik/ekonomik anlamında varılmış en son noktadır. Hemostatik biyopolimer granüller ürün, kitosan karbonhidrat (polysaccharide) yapısı içeren poly-n-glucosamine türevidir. Chitosan, ağırlıklı olarak yosun, deniz böceği, deniz mantarı, vb doğadan elde edilen karbonhidrat yapıları chitin'den moleküler saflaştırmaya üretilir. FDA tarafından 1990'lı yıllarda GRAS (Güvenilir Madde) olarak tanımlanmıştır. Bu etken madde üzerine yüzlerce bilimsel çalışma mevcuttur. Ülkemizde de birçok çalışma yapılmış ve yapılmaktadır.

Moleküler yapısı artı yüklü olan CELOX kanı yoğunlaştırır. Elektromanyetik alan yaratır ve eksü yüklü eritrositleri çapraz bağlayarak koagülasyonu sağlar. Doğal koagülasyon kaskadından bağımsız olarak gerçekleştirir. Plateletleri aktive eder, alfa ve çeşitli büyümeye faktörlerinin ortama salınmasını sağlar, diferansiyeli olmamış hücreleri hasarlanmış bölgeye çağırır ve onların mitozunu stimüle eder. Yarattığı aseptik ortamda eritrosit bariyeri ve trombosit jeller hemostatik dengeyi sağlar. Doğal otolog platelet konsantresini oluşturan tek hemostatik ajandır. CELOX bağımsız pıhtı mekanizması, vücut ısısının yukarı veya aşağı doğru uç değerlere ulaşmasından etkilenmez. Elektromanyetik etkisiyle aseptik ortam yaratır. Trombojenik değildir. Kan dolaşımına karışmayacak bir yapıdadır.

Antikoagülant (heparin, coumodin, vs) kullananların hafif ya da şiddetli arterial/venöz kanamalarında hızla koagülasyonun sağlanmasına yardımcı olur. Isı üretmez ve toksik değildir, hipoalerjik ve doğal antibakteriyel, anti fungal ve antimikrobiktir. Serum fizyolojik ve aspirasyon yardımıyla kolaylıkla temizlenir. Vücut içinde kalan bir kaç gram granül çok kısa sürede吸收 olur. Damarı takviye sıvılarının basıncı ikincil kanama yapmaz.

Ölümcül Femoral Arter/Ven Kanamasını Ortalama Durdurma Süresi:

Bütün hemorajinin koagülasyonu: 30,5 sn.
Anti koagulantlı kanın koagülasyonu: 22 sn.
Hipotermide (18,5 C) koagülasyon: 20 sn.
180 dakika süresince tekrar kanama: %0*
180 dakika sonrasında hayatı kalma: %100*



Resmi Onayları

FDA,
CE Sınıf III,
UBB Onaylı,
Sağlık Uygulama Tebliği - Ek 5A,
GATA Raporlu
NATO NSN (Stok Numaralı)

Referanslar

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DOI 10.1002/jps.20764 Preparation, Characterization, and Self-Assembled Properties of Biodegradable Chitosan-Poly(L-lactide) Hybrid Amphiphiles Hao Feng and Chang-Ming Dong* Department of Polymer Science & Engineering, School of Chemistry and Chemical Technology, Shanghai Jiao Tong University, Shanghai 200240, People's Republic of China Received June 14, 2006; Revised Manuscript Received August 23, 2006 Biomacromolecules 2006, 7, 3069–3075 Synthesis and Physicochemical and Dynamic Mechanical Properties of a Water-Soluble Chitosan Derivative as a Biomaterial Jaeyoung Cho,† Justin Grant,† Micheline Piquette-Miller,† and Christine Departments of Pharmaceutical Sciences and Chemistry, University of Toronto, 19 Russell Ontario, M5S 2Z2 Canada Received May 5, 2006; Revised Manuscript Received July 28, 2006 Biomacromolecules 2006, 7, 2845–2855 Antibacterial effects of Chitosan solution® against Legionella pneumophila, Escherichia coli, and Staphylococcus aureus Takatori Fujimoto a, Yasuo Tsuchiya a, Michinori Terao b, Kazutoshi Nakamura a, Masaharu Yamamoto a Department of Community Preventive Medicine, Niigata University Graduate School of Medical and Dental Sciences, Niigata 951-8510, Japan b Department of Medical Technology, School of Health Sciences Faculty of Medicine, Niigata University, Niigata 951-8518, Japan Received 15 October 2005; received in revised form 5 May 2006; accepted 6 June 2006 International Journal of Food Microbiology 112 (2006) 96101 Chitosan and Alginate Wound Dressings: A Short Review Willi Paul and Chandra P. 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AVANTAJLARI

Isı üretmez.

Hipotermik ortamda sonuç verir.

Antikoagülantlı kanda sonuç verir

Alerjik reaksiyon oluşturmaz (protein, mineral ve lipidler arındırılmıştır).

Yumuşak dokuları tahriş etmez.

Yerleştirme sorunu yoktur.

Serum fizyolojikle şekil verilebilir.

Antibakteriyeldir.

Antifungaldır.

Antimikrobiktir.

Özel saklama koşulu gerektirmez (-20c/+60c).

Uygulamada özel eğitim gerektirmez.

Nemli ortamlarda kullanılabilir.

Raf ömrü 3 yıldır.

Ambalajı su geçirmez, delinmez ve darbeye dayanıklıdır.

Sterildir.

Güvenli ve ekonomiktir.

Solunum ve yutulma durumlarında güvenlidir.

Tek elle bile uygulanabilir.

Aktif maddenin herhangi bir yan etkisi gözlemlenmemiştir.



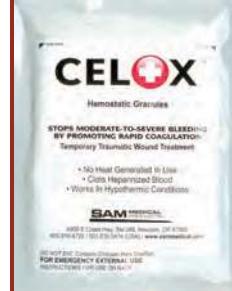
Ticari Takdim Şekilleri

Celox 15 gr

Celox 35 gr

Celox Aplikatör

Celox Bandaj



Uygulama

CELOX kanamalı bölgeye dökülür.

Steril gazlı bezle bölgeye yapılacak kompres ile koagülasyon sağlanır.

Jelleşmiş pihti serum fizyolojik ile rahatlıkla çıkartılır.

CELOX™

