

Detection of respiratory pathogens in lower respiratory tract infections by multiplex real time PCR in Kocaeli/Istanbul region in 2015-2017

2015-2017 yıllarında Kocaeli/İstanbul illerinde alt solunum yolu enfeksiyonları etkenlerinin multipleks real time PCR ile belirlenmesi

Melika ÖZDAMAR , Salih TÜRKÖZLÜ 

ABSTRACT

Aim: As very important causes of morbidity and mortality, lower respiratory tract infections lead the way among important problematic issues of medicine. Data gathered using modern diagnostic tools have promoted us to rapidly understand and control these infections, revealing the variety and frequency of the disease-causing microorganisms will make us head toward a different direction from previous years in diagnosis, treatment and control measures.

Method: Twenty-one viral respiratory pathogens were identified from the 283 nasopharyngeal aspirates of the patients who had lower respiratory tract infection using Fast Track FTD-Respiratory 21 kit (Fast Track Diagnosis, Luxembourg) between the years 2015-2017.

Results: One or more than one pathogen were discovered in 236 of 283 specimens (83.45%). The most frequent pathogens were Rhinovirus, Adenovirus, Influenza A and B, Respiratory Syncytial Virus A/B, Human metapneumovirus A/B and Parainfluenza 1.

Conclusion: Accurate, and effective treatment of the patients was provided using the tests yielding results within 16-24 hours. Thanks to "improvement" in hospital stay, initiation of an appropriate antimicrobial therapy in time, and taking infection control measures in association with identification of the causative agent, significant contribution to economy, and more importantly a big advancement was made in correct clinical and epidemiological practice. Providing more comprehensive, easily affordable, user-friendly tests yielding rapid and correct results, is the next step ahead us. Incorporation of these tests by health insurance and social security institutions should be on the agenda as a complementary step and should facilitate to health professionals' work in improving patients' health level.

Keyword: Multiplex real time-PCR, virus, respiratory tract infections, respiratory pathogens

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ÖZ

Amaç: Alt solunum yolu enfeksiyonları çok önemli bir hastalık ve ölüme nedeni olarak bizzat önemli sorunları arasında başta gelmektedirler. Güncel tıbbi yöntemlerini kullanarak elde edilen veriler bu enfeksiyonların kontrol ve tedavide çok hızlı yol alınması ya da açmaktadır. Hastalık etkeni mikroorganizmalarının çeşitliliği ve sıklığının doğru bir şekilde ortaya çıkarılması, tanı, tedavi ve kontrolde önceki yıllar ve uygulamalardan farklı bir yöne doğru gidilememesi sağlayacaktır.

Yöntem: Hastaların nasofaringeal aspirasyonlarında 2015-2017 yıllarında 283 örnekte 21 viral solunum patojeni, Fast Track FTD-Respiratory pathogens 21 (Fast Track Diagnosis, Luxembourg) ile araştırılmıştır. Hastaların tamamı alt solunum yolu enfeksiyonu tanısı ile takip edilmiştir.

Bulgular: Toplam 282 örneğin 236'sında bir ya da daha fazla etkeni ortaya çıkmıştır (%83,45). En sık etkenler, Rhinovirus, Adenovirus, Influenza A ve B, Respiratory syncytial virus A/B, Human metapneumovirus A/B ve Parainfluenza 1 olmuştur.

Sonuç: Hastaların doğru ve etkili tedavisi 16-24 saat arasında sonuçlanan testler ile sağlanmıştır. Genek hastanelerde yatış sürelerinde "dönüşüm", genellikle uygun antimikrobiyal tedavilerin zamanında başlaması ve etkenin bilinmesi ile bağlantılı kontrol önlemlerinin alınması sayesinde ciddi ekonoimik katkılar yanında, daha önemlisi, doğru klinik ve epidemiyolojik uygulama ile ilgili önemli yol alınmıştır. Hızlı ve doğru sonuç veren daha kapsamlı testlerin ortaya çıkması, uygun maliyetle sağlanması ve başta sağlıkla ilgili olarak bir sonraki adım olarak ekonoimik durumla ilgili olarak sağlık otoriteleri ve sosyal güvenlik kurumlarının bu testleri kapsamlı olarak kullanmaları tamamlanması bir adım olarak görülmektedir ve hastaların sağlığını üst düzeyde tutmada sağlık profesyonellerinin önemli katkıları olacaktır.

Anahtar kelimeler: Multiplex real time-PCR, virus, solunum yolu enfeksiyonu, solunum patojeni

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