



















- incidence of symptomatic and asymptomatic infections. *J Infect Dis.* 197(3): 382-389.
- [20] Flint S, Enquist L, Racaniello V., *et al.* (2000). Patterns of infection: a delicate balance, Principle of Virology: Molecular biology, pathogenesis and control. ASM publishing, New York, 518 – 550.
- [21] Kristina A S, and Thomas E M. 2011. Complement and viral pathogenesis. *Virology.* 411(2): 362- 373.
- [22] Green M and Sambrook J. (2012). Molecular cloning: A Laboratory Manual, 4<sup>th</sup>ed, Cold Spring Harbour Laboratory Press, Cold Spring Harbour, New York.
- [23] Hudson L and Hay F. (1989). Practical Immunology. 3<sup>rd</sup> ed. Blackwell Scientific Publications. Oxford.
- [24] Ranieri V M, Ruben Feld C D, Thompson B T., *et al.* 2012. " Acute respiratory distress syndrome: the Berlin Definition. ARDS Definition Task Force". *JAMA.* 307 (23): 2526 – 2533.
- [25] Creer D, Dilworth J P, Gillespie S H., *et al.* 2006. Aetiological role of viral and bacterial infections in acute adult lower respiratory tract infection (LRTI) in primary care. *Thorax.* 61 (1): 75 – 79.
- [26] Lieberman D, Shimoni A, Keren-Naus A., *et al.* 2009. Identification of respiratory viruses in adults: nasopharyngeal vs. oropharyngeal sampling. *J Clin Microbiol.* 47 (11): 3439 – 3443.
- [27] Ruuslanen O, Lahti E, Jennings L C., *et al.* 2011. Viral pneumonia. *Lancet.* 377 (9773): 1264 – 1275.
- [28] Mansuy J M, Mengelle C, Da Silva I., *et al.* 2012. Performance of a rapid molecular multiplex assay for the detection of influenza and picornaviruses. *Scand J Infect Dis.* 44: 963- 968.
- [29] Simoes E A, Patel C, Sung W K., *et al.* 2013. Pathogen chip for respiratory tract infections. *J Clin Microbiol.* 51: 945- 953.
- [30] Freymuth F, Vabret A, Cuvillon D., *et al.* 2006. Comparison of multiplex PCR assays and conventional techniques for the diagnostic of respiratory virus infection in children admitted to hospital with an acute respiratory illness. *J Med Virol.* 78: 1498-1504.
- [31] Bhat N, Tokarz R, Jain K., *et al.* 2013. A prospective study of agents associated with acute respiratory infection among young American Indian children. *Pediatric Infect Dis J.* 32: 324- 333.
- [32] Callendo A M. 2011. Multiplex PCR and emerging technologies for the detection of respiratory pathogens. *Clin Infect Dis.* 25(4): 5326- 5330.
- [33] Lessler J, Reich N G, Brookmeyer R., *et al.* 2009. " Incubation periods of acute respiratory viral infections: a symptomatic review" .*Lancet.* 9(5): 291- 300.
- [34] Sears M R and Johnston N W. 2007. Understanding the September asthma epidemic. *J. Allergy. Clin. Immunol.* 120: 326- 529.
- [35] Korppi M, Kotaniemi- Syrianen A, Waris M., *et al.* 2004. Rhinovirus-associated wheezing in infancy: comparison with respiratory syncytial virus bronchiolitis. *Pediatr Infect Dis J.* 23:995-999.
- [36] Manbach J M, Clark S, Christopher N C., *et al.* 2008. Prospective multicellular study of the viral etiology of bronchiolitis in the emergency department. *Pediatrics.* 121:680-688.
- [37] Martin E T, Kuypers J, Wald A., *et al.* 2012. Multiple versus single virus respiratory infections: viral load and clinical disease severity in hospitalized children. *Influenza Other Respir Viruses.* 6(1): 71- 77.
- [38] Zhang G, Hu Y, Wang h., *et al.* 2012. High incidence of multiple viral infections identified in upper respiratory tract infected children under three years of age in Shanghai, China. *Pol One. Pub Med.* 7(9):44568.
- [39] Racaniello V R. 2001. Picornaviridae: the viruses and their replication. In: knipe D M and Owley P M. *Fields Virology*, 4<sup>th</sup> edition. Philadelphia P A: Lippincott/ Raven. P: 685- 722.
- [40] Alvisi G, Rawlinson S M, Ghildyal R., *et al.* 2008. Regulated nucleocytoplasmic trafficking of viral gene products: a therapeutic target. *Biochim Biohyys. Acta.* 1784: 213- 227.
- [41] Ghildaly R, Jordan B, Dagher H., *et al.* 2009. Rhinovirus 3C protease can localize in the nucleus and later active and passive nucleocytoplasmic transport. *J Virol.* 83: 5353- 5362.
- [42] Erin J, Parisa Y, Alex J., *et al.* 2013. Rhinovirus 3C protease facilitates specific nucleoprotein cleavage and mis-localization of nuclear proteins in infected host cells. *Polis.* 8(8): 71316.
- [43] Tam J C, Bidgood S B, McEwan W A., *et al.* 2014. Intracellular sensing of complement C3 activates cell autonomous immunity. *Pub Med. US National Library of Medicine National Institutes of Health.* 5(345): 6201.
- [44] Mitchell T J, Naughton M, Norsworthy P., *et al.* 1996. IFN- gamma up- regulates expression of the complement components C3 and C4 by stabilization of mRNA. *Polis.* 156(11): 4429- 4434.
- [45] Robbins R A, Russ W D, Rasmussen J K., *et al.* 1987. Activation of the complement system in the adult respiratory distress syndrome. *Am. Rev. respire. Dis.* 135, 651.
- [46] Garred P, Hetland G, Mollens T E., 1990. Synthesis of C3, C5, C6, C7, C8 and C9 by human fibroblasts. *Scand. J. Immunol.* 32, 555.