Prevention of COVID-19 in children and neonates: A review

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Background: The novel coronavirus, called COVID-19, first originated in China and spread to many other countries. Due to the weakness of their immune system, especially in lower ages (infants) and also to prevent and control infection in this age group, special measures should be considered to prevent their infection with SARS-COV-2. The aim of this study is to invest ...

Comparative analysis of Hemagglutinin of 2013 H3N2 Influenza A virus Indicates its Evolution from 1968 H3N2 Pandemic Influenza A virus

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Emergence of influenza A H3N2 is alarming. Strain 2013 H3N2 has H1 subtype Haemagglutinin (HA) gene segment replaced with a H3 HA gene segment. The vulnerability of the humans to H3 may be directly proportional to the HA alterations. Therefore, we studied this strain and analyzed its sequence and structural divergence and compared it with 2009 H3N1, 2009 H1N1 and its ...
Monoclonal antibodies for rabies post-exposure prophylaxis: A paradigm shift in passive immunization

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An estimated 59000 people die of rabies every year in the world. Passive immunization forms an important component of rabies Post-Exposure Prophylaxis (PEP), in Category III exposures, and sometimes in Category II exposures. Presently Rabies Immunoglobulins (RIGs) of human and equine origin are being used in most part of the world, for passive immunization. However, ov ...

The British ‘U-turn’ - yetis Herd Immunity still the solution to COVID 19?

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Herd immunity defines the level of protection from infectious diseases within a given population. It occurs naturally from exposure to a particular pathogen or, from vaccination against it. Against our understandings of this fundamental concept, the British Medical Journal reports on work published last month suggesting over half the UK population might already have b ...

Analysis of current and future technologies of capsule endoscopy: A mini review

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Many existing methods of endoscopy can be very uncomfortable and potentially even painful for a patient. Using a conventional endoscope is also limited in its usable range, unable to access a majority of the small bowel. Recent
advancements in LEDs, optical design, and MEMS (microelectromechanical systems) technologies have provided the ability to create a wireless en ...