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## Intranasal covid vaccine

The latest threat to global health is the ongoing outbreak of the respiratory disease that was recently given the name Coronavirus Disease 2019 (COVID- 19). It was rapidly shown to be caused by a novel coronavirus that is structurally related to the virus that causes severe acute respiratory syndrome (SARS). An intranasal vaccine stimulates a broad immune response – neutralizing IgG, mucosal IgA, and T cell responses. Immune responses at the site of infection (in the nasal mucosa) – essential for blocking both infection and transmission of COVID-19. Invading the mucosal surface by inducing local microbial-specific immune responses, nasal delivery of vaccines functions as a “first entry block,” i.e., block the pathogen entry, increasing the overall efficacy of the vaccine. Intranasal administration is a non-invasive route for drug delivery, which is widely used for the local treatment. The development of additional vaccine administration methods, including intranasal, oral, topical, pulmonary, vaginal, and rectal, is currently gaining traction in the vaccine market. The **nasal route** presents the most promising opportunity for vaccine administration. **Convenience** and safety can be improved, and it can also trigger both local and systemic immune responses, which could possibly offer protection from pathogens at the point of entry. The development of nasal vaccines presents both possibilities and difficulties.

Keywords- Nasal Vaccines, Sars-CoV-2, iNCOVACC, Nasal Anatomy

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