

## Nasal vaccine drug delivery

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Intramuscular and oral administrations have been the most widely used methods of delivery of vaccines so far. However, to overcome the challenges of needle injuries and to avoid any threat of disease transmission, drug delivery companies are looking for alternative approaches to deliver vaccine through the nasal drug delivery system instead of traditional methods. Multiple approaches are being taken in laboratories. In 2009, Pune-based Serum Institute of India launched Nasovac, a vaccine for swine flu which is administered through intranasal spray. US-based OptiNose has been doing research in vaccine administration through the nasal system and the company suggests that nasal vaccination has the advantage that elicits both local and systemic immune responses.