

**VAX-ID® For customized standardized intradermal drug delivery**

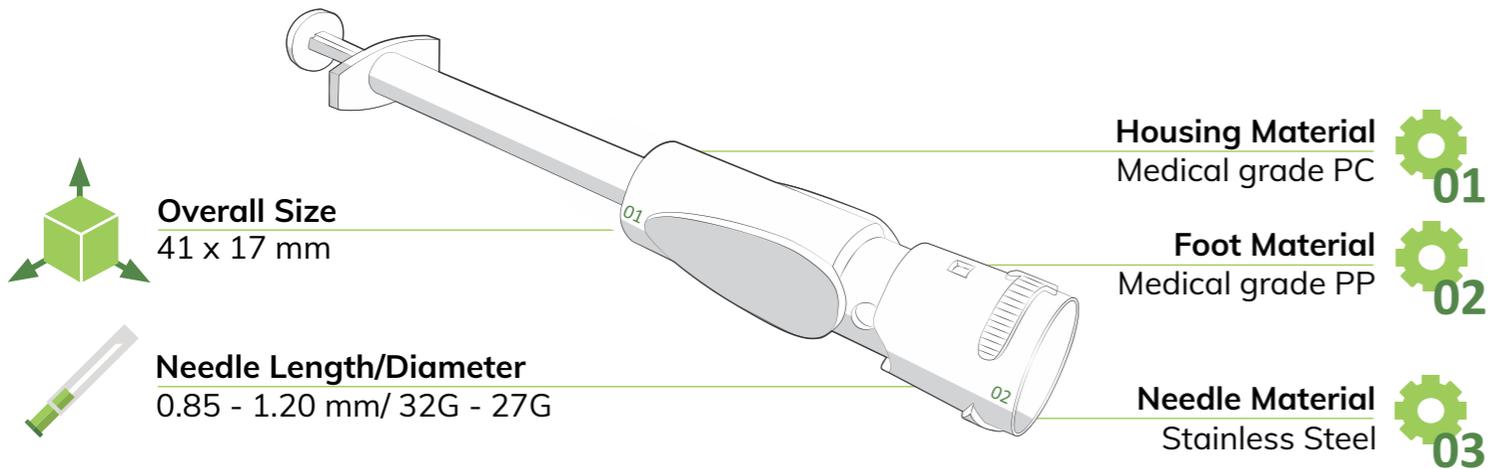
Idevax develops customized versions of VAX-ID® for more accurate drug delivery and patient comfort. The unique system allows various needle thicknesses and lengths to be used and permits injection of different volumes through a single or multishot device, offering a solution for a wide range of applications.



Successful intradermal drug delivery starts with standardized injection

**IDEVAX**

GAME-CHANGING DELIVERY DEVICES



**TOWARDS A WORLD WITHOUT INFECTIOUS DISEASES**

*“Infectious diseases remain a major cause of illness, disability and death and induce a high economic burden”*

Infectious diseases are caused by pathogens that can spread between individuals directly via bodily fluids, indirectly by coughing or sneezing or through vectors like mosquitos. A critical way to prevent or reduce the spread of infectious diseases is through vaccination. Several vaccines exist for infectious diseases like Rabies, Yellow Fever, Polio and Hepatitis B. Additionally, vaccination is one of the most cost-effective investments in health and economic development. While vaccines can protect individuals against diseases, the WHO (World Health Organization) estimates that yearly about 1.5 million children under the age of five die from vaccine-preventable diseases.

1. WHO. Immunization coverage (2018)  
2. Van Mulder et al. Immunogenicity and Safety of intradermal delivery of Hepatitis B vaccine using the novel drug delivery device VAX-ID™. (2018) (submitted)



VACCINATION AVERTS 2 TO 3 MILLION DEATHS PER YEAR<sup>1</sup>



19.5 MILLION INFANTS STILL MISSING BASIC VACCINES<sup>1</sup>



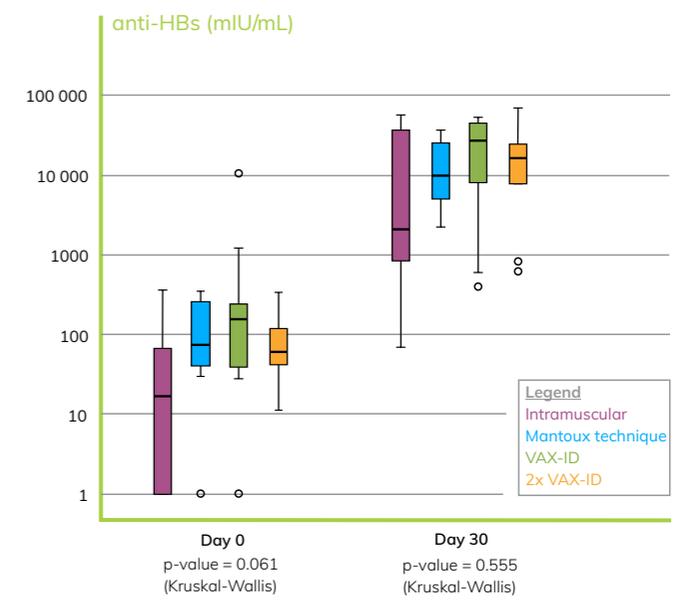
EFFICIENT VACCINATION BY INTRADERMAL INJECTION



**VAX-ID® An innovative intradermal drug delivery device, allowing accurate injection**

A clinical study by Van Mulder et al.<sup>2</sup>, compared immunogenicity and safety of intramuscular injection of Hepatitis B vaccine with intradermal injection by Mantoux technique and by VAX-ID®. For the IM injection 1.0cc was injected. The ID injection required a significantly smaller dose of vaccine, approximately 0.1cc. A total of 48 volunteers were included.

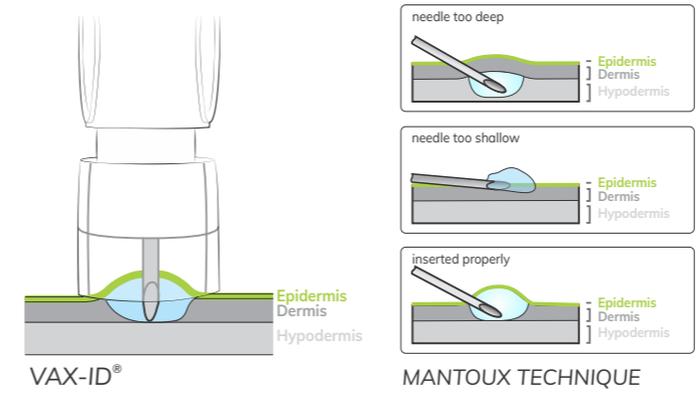
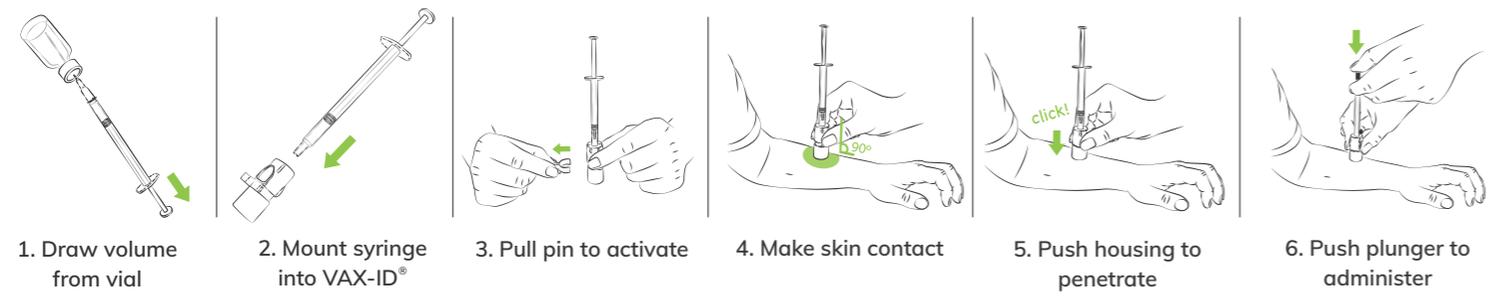
*“Intradermal administration of Hepatitis B vaccine using VAX-ID® resulted in a more efficient and standardized immune response compared to intramuscular administration and the Mantoux technique.”*



**VAX-ID® A safe and user-friendly approach to prevent and treat infectious diseases**

Vaccines are often delivered via intramuscular (IM) injections; however, intradermal (ID) delivery is gaining interest as it is more efficient, allows for a higher immune response and requires only 10 to 20% of the dose needed for IM injections. VAX-ID® offers a unique and user-friendly ID injection system that allows for improved delivery of both prophylactic and therapeutic vaccines.

- Accurate injection and dose delivery
- Dose sparing
- Activation protection and needle-stick injury prevention
- Low in pain and no needle phobia
- Easy to use, potentially leading to self-administration
- User-independent



VAX-ID® provides a solution to vaccine leakage and loss of expensive dose, which often occurs with the Mantoux technique. The device offers a highly accurate penetration depth and volume delivery. Furthermore, VAX-ID® is customizable and easy to use, decreasing the risk of user errors in clinical trials and having potential for self-administration.