

VAX-ID®: an easy-to use device making Tuberculin Skin Testing more convenient

Idevax BV, Belgium June 2024

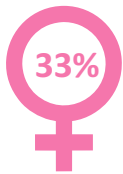
Tuberculosis (TB), caused by the bacillus *Mycobacterium tuberculosis*, is a preventable and usually curable disease.

Nevertheless, TB is still a substantial health issue and one of the leading causes of death worldwide.

Each year, 10.6 million people developed TB



1.3 million people die each year from TB



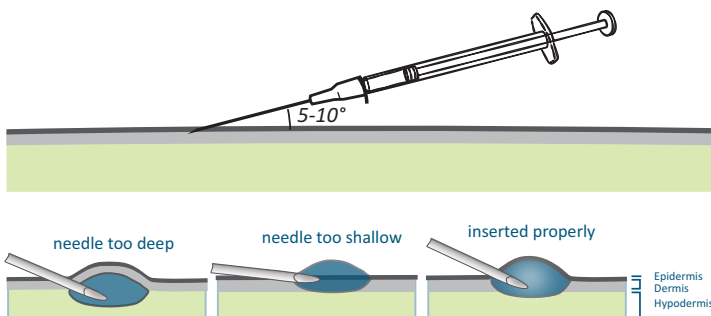
WHO Global Tuberculosis report

To achieve TB elimination, addressing the latent TB infection reservoir is crucial. For this reason, healthcare regulations recommend or even require testing of populations that are at increased risk for tuberculosis (TB) infection. [1]

Tuberculin Skin Test (TST), also known as the Mantoux test, relying on methods created over 100 years ago, is still a widely used tool for the diagnosis of latent TB. [2]

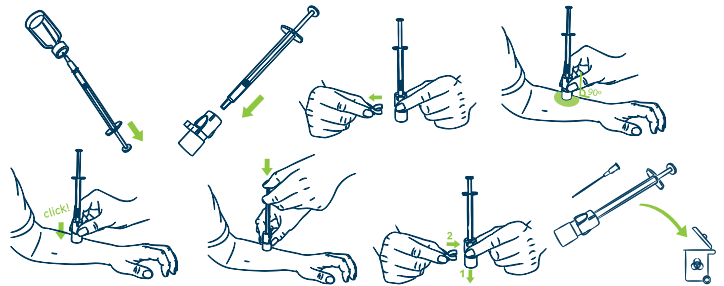
The current standard of care, the **Mantoux technique** uses a syringe and a needle whereby the needle needs to be inserted nearly parallel to the skin, at an angle of 5–15 degrees bevel up. The technique is challenging, requires extensively trained healthcare workers, and is perceived as painful by the recipients.

Also, the Mantoux technique is difficult to standardize. Injecting the needle too deep will lead to leakage to the subcutaneous layer (fat layer), while injecting the needle too shallow will cause leakage to the outside of the skin.



VAX-ID®, an intradermal drug delivery device to overcome the challenges seen with the Mantoux technique.

VAX-ID® is a single-use intradermal injection adaptor for reliable and accurate injection in the dermal layer of the skin. The device contains a short and thin microneedle and is applied perpendicular to the skin to allow for its controlled penetration depth.



Next to **User Independent Accuracy**, VAX-ID® offers many other advantages:

Acceptability studies show that healthy volunteers do not perceive intradermal injection using VAX-ID® as painful.



LOW IN PAIN

VAX-ID requires minimal training from a healthcare provider and is straightforward to use.



EASY TO USE

VAX-ID is configured with a safety pin which needs to be removed prior to use and placed back after use. After injection, VAX-ID is to be placed in the sharp's container.



NO NEEDLE STICK

Performing a TST using VAX-ID® takes a maximum of 8 seconds compared to around 20 seconds for the Mantoux technique.



TIME SAVING

[1] PMID: 38207124

[2] PMID: 35170334