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## Devices and rationale for intradermal injection of vaccines

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Interest in intradermal injection is growing due to interest in dose sparing and the immunogenicity of the dermal layer along with other factors. There are currently over 60 ongoing trials evaluating intradermal injection and the first intradermal vaccine for flu has been on the market for 3 years. Adoption of intradermal injection has been slow due to the difficulty in learning and mastering The Mantoux technique. Realizing the need for simpler, cost effective and more reliable intradermal injections, we developed an injection guide for minimizing the variability and complexity of the Mantoux technique, thereby providing predictable, reproducible bleb formation. The guide assures that the ideal angle and depth of needle insertion for successful intradermal injections. Results from West's clinical trials show the success of the novel injection guide while market research has shown a high level of nurse satisfaction with the technique and a preference for the guide over the standard needle and syringe. Developing an intradermal vaccine requires a reproducible technique, understanding of the dose response relationship of both IM and ID injection, and clinical trials to prove protection compared to the standard of care.

### Biography

Zach Marks joined West Pharmaceutical Services in 2002 as Business Development Manager. In 2007, with the acquisition of Medimop Medical Products, he was chosen for the position of Marketing and Business Development Manager for the group. During his tenure, his leadership and market knowledge helped expand the business into new accounts, products, therapeutic areas and geographies. In 2010, he was appointed Director, Strategic Marketing and Innovation within the Delivery Systems Business Unit where his combined experiences have been instrumental in establishing the marketing structure, function and resources that have resulted in consistent growth of revenue and profitability. He has prior experience including laboratory, sales, marketing and management roles with Johnson and Johnson and Waters Corporation. He is a registered pharmacist with a BS in Pharmacy and an MS in Pharmaceutical Science from Rutgers University.

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