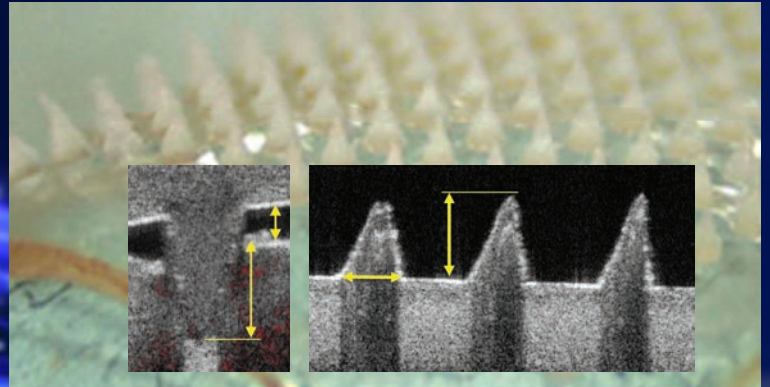








## Microneedle Array Patch (MAP) Commercialization



**VivoSight Dx Pro enables you to visualize the complex interaction between microneedle arrays and the patients' skin, speeding and informing your MAP development and regulatory pathways.**

Optical Coherence Tomography (OCT) imaging provides rapid, non-invasive and repeatable quantification of microneedle Puncture Performance and critical MAP-skin-interface parameters.



-  **Visualize and measure microneedle insertion depth, in real-time**
-  **Device cleared for use in clinical settings**
-  **In vivo and ex vivo visualization of microneedle Puncture Performance**
-  **Comprehensive analysis suite, enabling full quantification**
  - Insertion depth, in real time
  - Monitoring of needle dissolution and swelling
  - Skin recovery, post-MAP removal
  - Kinetics of device created skin defects
-  **Non-invasive**
-  **Cost effective - significantly reduces time and costs compared with ex vivo sectioning and analysis**

**“VivoSight is an indispensable tool to advance and optimize MAP research and product development”**

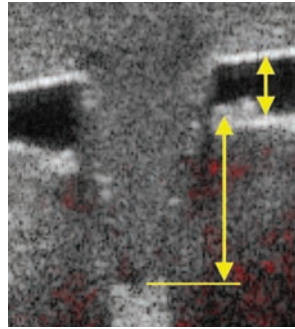
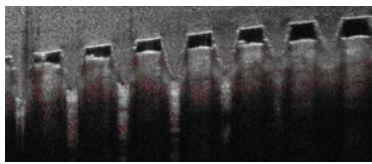
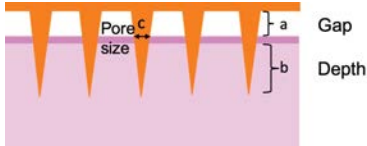
Professor Ryan Donnelly, Queen's University, Belfast, UK

# VivoSight Dx Pro - Optical Coherence Tomography

Visualize your microneedle array Puncture Performance in vivo!

VivoSight Dx Pro will transform your MAP research and development, providing you with unparalleled real time in vivo visualization of needle insertion, their dynamics over time, and associated effects on skin. Gone are the days of time-consuming and costly tissue sectioning & analysis to prove needle insertion. VivoSight gives you the whole picture, and in-vivo!

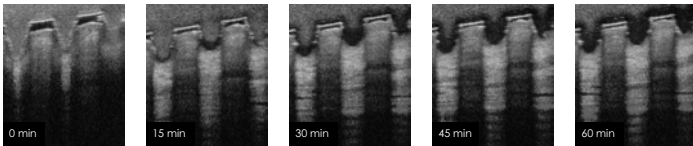
## Visualize Microneedles in vivo



## VivoSight Measures:

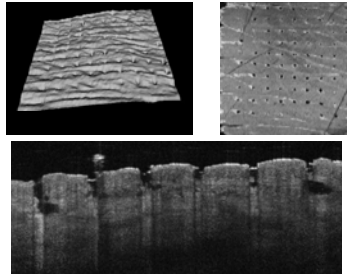
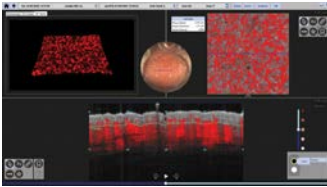
- Needle dimensions
- Penetration depth
- Dissolution and swelling
- Pore diameter
- Air gap

## Monitor Needle Dynamics



VivoSight imaging and measurement of microneedle changes over 60 minutes in-vivo

## Monitor the inflammatory response and skin recovery after MAP removal



Visualize and measure vascular changes due to MAP insertion

Hole closure and MAP effects on skin can be monitored and documented

## Perform fast, HD, ex vivo visualization of skin samples



For imaging ex vivo samples, the precision 3-axis Probe Stand converts the handheld Probe into a laboratory OCT microscope

VivoSight Dx Pro is a Class 1 Laser Product



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