stryker

Shaping the future of breast reconstruction

Though advances in breast reconstruction techniques have improved both functional and aesthetic outcomes following mastectomy, research has shown that skin necrosis may still occur in up to 31% of procedures.¹

Accurate and reliable methods for intraoperative perfusion assessment are critical in helping surgeons prevent complications.² In fact, recent studies have recommended the use of SPY technology, particularly in newer techniques, such as nipple sparing mastectomy and immediate prepectoral implant-based breast reconstruction.^{3, 4, 5, 6}

Stryker is proud to introduce the SPY Portable Handheld Imager. SPY-PHI utilizes SPY Fluorescence Imaging technology and provides surgeons with a convenient, compact solution for real-time perfusion assessment in breast reconstruction and other open surgeries.*







Visualization of perfusion to the incision after prepectoral implant placement

Prepectoral implant-based breast reconstruction. Images courtesy of Dr. Charles Kays, Wilmington, NC †

ischemic breast tissue

Brilliant image quality

breast tissue

The 1080p resolution at 60 fps is designed to provide realistic color reproduction and results in a sharp, highly detailed image

Flexible working distance and wide imaging field

SPY-PHI allows clinicians to assess perfusion using a wide range of viewing distances, allowing for versatility in the operating room

Multiple visualization modes

Combines enhanced fluorescence signal information with vivid white light images in real-time

Ambient light immunity

Ensures that the operator is able to work fluidly without disrupting activities around the surgical table

SPY Portable Handheld Imager (SPY-PHI)

SPYPHI

See more. Do more.

stryker

SPY Portable Handheld Imager (SPY-PHI)

Features and functions

Intuitive operator controls

- Comfortable single-handed operation
- Durable elastomer buttons



Indications for use

*The SPY-PHI Open Field Handheld Fluorescence Imaging System is an imaging system used in capturing and viewing fluorescence images for the visual assessment of blood flow as an adjunctive method for the evaluation of tissue perfusion, and related tissue-transfer circulation in tissue and free flaps used in plastic, micro– and reconstructive surgical procedures.

The SPY-PHI Portable Handheld Fluorescence Imaging System is intended to provide fluorescence images for the visual assessment of blood flow in vessels and related tissue perfusion during gastrointestinal surgical procedures.

Stryker Endoscopy 5900 Optical Court San Jose, CA 95138 t: 1 800 624 4422 www.stryker.com



PN: 1000902697, Rev A Copyright © Stryker 2018 Stryker Corporation or its affiliates own, use, or have applied for the following trademarks or service marks: Stryker, SPY and SPY-PHI

† Dr. Kays is a paid consultant of Stryker

Accession of Skin Necrosis after Mastectomy for Breast Cancer Using Indocyanine Green Angiography Imaging. Plast Reconstr Surg Glob Open. 2017; 5(4):1321. 2. Sood M "Potential of the SPY intraoperative perfusion assessment system to reduce ischemic complications in immediate postmastectomy" Annals of Surgical Innovation and Research 2013, 7:9 breast reconstruction 3. Venturi, M "SPY Elike's Ability to Predict Nipple Necrosis in Nipple-Sparing Mastectomy and Immediate Tissue Expander Reconstruction." PRS Go, No. 20000000324. 4. Shittarnity re 5 Nibmuscular Prostberk Reconstruction Prediction Nipple Necrosis in Nipple-Sparing Mastectomy and Immediate Tissue Expander Reconstruction. See Status 10:01097/PRS.000000000324. 5. Shittarnity re 5 Nibmuscular Prostberk Reconstruction." PRS Journal, Journal, Det. 2009. 6. Sigalove, S. "Prepectoral Implant-Based Breast Reconstruction and Postmastectomy Radiotherapy: Short-Turn Outcomes." PRS GO, No. 12. No. 2017.