



# SPY Fluorescence Imaging Technology



## Changing the Way You See Your Patients

SPY-PHI utilizes SPY Fluorescence Imaging Technology to assist surgeons in the visual assessment of tissue perfusion during reconstruction.

### Brilliant Visualization

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

### Operate in the Light

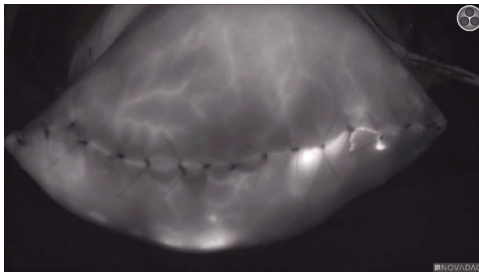
SPY-PHI's fluorescent signal is not affected by ambient room light, ensuring a fluid workflow.

### No Fixed Distance

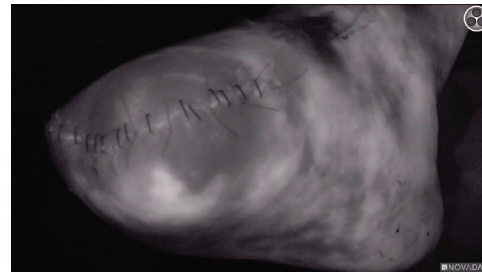
SPY-PHI allows clinicians to assess perfusion using a wide range of viewing distances without compromising the strength of signal.

### Multiple Visualization Modes

Combines enhanced fluorescence signal information to enable different viewing modes for use across multiple specialties.



Perfusion assessment across suture line following an above/knee amputation (AKA)



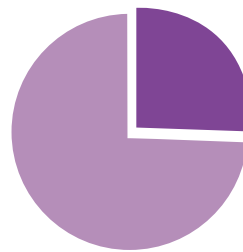
Perfusion assessment across suture line following Transmetatarsal amputation (TMA)

### A Single Institution's Experience

In a retrospective study from 2007-2014, a review of 811 patients undergoing above-knee (AKA) or below-knee (BKA) amputations revealed a 26.3% readmission rate. Roughly 1 in 4 readmissions were related to stump complications.<sup>2</sup>



Stump complications accounted for **25.8%** of readmissions<sup>2</sup>



**26.3%** readmission rate within 30 days of surgery<sup>2</sup>

See more. Do more.

# Visualizing Tissue Perfusion in Trauma Reconstruction



## Clinical Impact

Unplanned 30-day readmission rates can be a marker of quality of patient care:

- In a retrospective study, readmission rates following either an AKA or BKA were 26.3% within 30 days of surgery.<sup>2</sup>
- Stump-related complications accounted for 25.8% of all readmissions.<sup>2</sup>
- Surgical intervention was performed on 62% of stump complications.<sup>2</sup>
- BKA stump complications were converted to AKAs in 34% of cases.

## Economic Impact

According to HCUPnet data from 2017, stump-related readmissions results in:

- \$17,447 average cost for treatment.<sup>1</sup>
- 8.5 added bed days.<sup>1</sup>



# \$17,447

Average cost for readmission due to stump-related complications<sup>1</sup>

#### References:

1. HCUPnet, Healthcare Cost and Utilization Project. Agency for Healthcare Research and Quality, Rockville, MD. <https://hcupnet.ahrq.gov/>. For more information about HCUP data see <http://www.hcup-us.ahrq.gov/>
2. Phair J, DeCarlo C, Karan G, Lipsitz E. (2017) Risk Factors for Unplanned Readmission and Stump Complications following Major Lower Extremity Amputation. *Journal of Vascular Surgery*. 65 (1),10. DOI: <https://doi.org/10.1016/j.jvs.2016.10.027>