Freehand SPECT for the daVinci System

Julian Sprung
Outline

➢ Short Reminder: SPECT
➢ Introduction SurgicEye, Munich, Germany
➢ What is freehand SPECT (SurgicEye Declipse®)?
➢ Laparoscopic freehand SPECT
➢ DaVinici freehand SPECT
Single-Photon Emission Computed Tomography (SPECT)
SurgiEye, Munich, Germany

Prof. Dr. Nassir Navab
(Co-Founder, CSO, Advisory Board Member)

Dr. Joerg Traub
(CEO)

Dr. Thomas Wendler
(CTO)
SuricEye, Munich, Germany

2004

2008
SurgicEye founded by Dr. Traub and Dr. Wendler. The company developed the same year the first prototype of the declineSPECT followed by its first use in the operating room.

2009
Certification process started achieving the same year ISO & CE certification. Partnership with strong investors and establishment of a renowned advisory board.

2010
decliseSPECT introduction in clinical studies in two leading European centers. Clinical studies concluded than the image quality is comparable to preoperative scintigraphy.

2011
Clinical introduction started in EU and first distribution partners throughout Europe. FDA clearance received expanding our global sales efforts.

2012
Beginning of 2012, declineSPECT present in more than 20 countries and used for SLNB in breast, melanoma and head & neck malignancies as well as for primary breast tumors. Initial indications in urology and gynecology.
Declipse fhSPECT
Declipse SPECT

Acquisition  Visualization  Export

CPS: 1505  Distance: 20mm

Acquisition  Visualization  Export

CPS: 70  10 sec sample: 25 CPS

CPS: 1505  10 sec sample: 1247 CPS
Declipse: Clinical Application
Laparaoscopic fhSPECT
DaVinci fhSPECT: drop-in probe
DaVinci fhSPECT: Probe Position
DaVinci fhSPECT: Image Overlay
DaVinci fhSPECT: Outlook

- create working daVinci fhSPECT prototype
- clinical applications and studies
- automated scanning / ideal trajectories
- ultra sound fusion
- image overlay of preoperative data (CT/MRI)
- drop-in gamma camera
fhSPECT for daVinci

questions?