



# DOSING AND TIMING CHART ON HOW TO USE INDOCYANINE GREEN (ICG) BY PROCEDURE

PROCEDURE	PURPOSE	INJECTION TYPE	USUAL DOSAGE	INJECTION TIME	FIRST ICG DETECTION	ICG DURATION	CAMERA REQUIREMENTS	NOTES
Liver Cancer	Visualization of primary & metastatic liver tumors	Intravenous	0.5 mg/kg	14 days preoperatively	Real time during hepatectomy	Remains stable during surgery	Laparoscope or handheld NIR camera	Hepatocellular carcinoma shows cancerous fluorescence signals Metastatic tumors show rim fluorescence signals
Lymphedema	Lymph vessel evaluation	Subcutaneous into bilateral interdigit hand or foot	0.1 -0.2 mL (2.5 mg/mL)	At time of lymph vessel evaluation	Min after	Hrs	Handheld or on free arm NIR camera	
Cervical/ Endometrial Cancer	Visualize lymphatic drainage & SLN	Cervical submucosa and deep into stroma (1cc each)	1mL at quadrants 3 and 9 (2.5 mg/mL)	Prior to dissection & insertion of uterine manipulator	At start of procedure	Stable during surgery. Slowly diffuses through lymphatics	Laparoscope or handheld NIR camera	Total 4cc
Vulvar Cancer	Visualize lymphatic drainage & SLN	Peritumoral	1 mL	At start of procedure	Min after injection	Remains stable during surgery. Slowly diffuses through lymphatics	Handheld NIR camera	

Breast Cancer	Visualization of lymphatic drainage & SLN	Subcutaneous into periareolar region in each quadrant	1 mL (2.5mg/mL)	At start of procedure	5-10 min after injection	Remains stable during surgery. Slowly diffuses through lymphatics	Laparoscope or handheld NIR camera	
Immediate Breast Reconstruction	Mastectomy skin perfusion assessment	Intravenous	3 mL (2.5 mg/mL) + 10 cc saline flush	Before, during & after reconstruction	45 sec after injection	Arterial & venous phase, mins	Handheld or on free arm NIR camera	Adjunct to clinical assessment
Melanoma	Identification of SLN	Intradermal	0.1 -0.2 mL (2.5 mg/mL)	5 min prior to manipulation of skin site	Skin: immediate Node: 5 -10 min	Hrs	Handheld or on free arm NIR camera	Inject ICG prior to local anesthetic injection

**NIR, near infrared; ICG, indocyanine green; LN, lymph node; SLN, sentinel lymph node; Min, minutes; Sec, seconds; Hrs, hours** **DISCLAIMERS:**

- The above dosage and timing information have been collated from worldwide surgeons expert in these procedures and is based on their recommendations and is not evidence-based.
- All dosages have been adjusted to the U.S. recommended dilution of 25mg of ICG in 10mL of sterile water.
- Doses are device-dependent.
- Approval for listed indications may vary according to country.

**FOR ANY QUESTIONS ABOUT THE DOSING CHART, PLEASE CONTACT ISFGS AT [ADMIN@ISFGS.ORG](mailto:ADMIN@ISFGS.ORG)**