



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
Cholecystectomy	Bile duct visualization	Intravenous	0.4 mL - 2.5mL, equipment-dependent	Recommended: At least 45 min before procedure	After Calot triangle is exposed	Visible during surgery	Laparoscope or Handheld NIR camera	Reflux maneuver Visualize cystic duct
Liver Segmentation	Visualize liver segments	Positive staining technique: inject in portal branch	0.025 - 0.25 mg/body (0.25 - 2.5 mg/10mL)	Prior to hepatic dissection	Several seconds after injection	Remains stable during surgery	Laparoscope or handheld NIR camera	Ultrasound-guided Portal branch puncture
		Negative staining technique: Intravenous	2.5 mg per body	After portal pedicle closure	Several sec after injection	Remains stable during surgery	Laparoscope or handheld NIR camera	Clamp liver segment
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

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