

Special Issue

Indocyanine Green Fluorescence in Gynecology

Message from the Guest Editors

Indocyanine green (ICG) is a water-soluble fluorescent dye that was approved by the FDA for biomedical applications in 1956. Initially, the fluorescent properties of ICG in the near-infrared (NIR) spectrum were utilized to assess cardiocirculatory and hepatic functions. Subsequently, it found applications in ophthalmic angiography and neurosurgery as an angiographic tool. Due to its superior tissue penetration in the NIR spectrum compared to other FDA-approved fluorophores, ICG has been employed across a broad range of medical fields. In gynecology, ICG has been adopted in several subdisciplines, including sentinel lymph node detection in cervical and endometrial cancer during minimally invasive surgery, visualization of vascularity in peritoneal carcinomatosis associated with ovarian cancer, highlighting neovascularization in peritoneal endometriosis during surgery, and visualization of the bladder and ureters during deep infiltrating endometriosis surgery. This Special Issue aims to highlight and examine the current applications of ICG in various gynecological pathologies.

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