

Fluorescent guided lymph node harvest in laparoscopic Wilms nephroureterectomy - a new technique

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June 23, 2021

Abstract

Lymph node harvest is an integral part of Wilms tumor surgery with both SIOP and COG protocols asking for more than 6 lymph nodes to best evaluate for nodal spread and a subsequent need for intensification of treatment. The majority of studies show that in both open and minimally invasive resections the median number of nodes removed is 4. Indocyanine green and near infrared fluorescence may be the key to solving this problem. In adult gynaecology, colorectal and breast cancers, ICG is used to identify sentinel nodes and facilitate nodal harvest. This report describes its use in Wilms tumor

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I have no conflict of interest to disclose

Abbreviations

ICG Indocyanine Green

NIR Near InfraRed

NIRF Near Infrared fluorescence

FGS Fluorescent Guided Surgery

MIS Minimally Invasive Surgery

WT Wilms Tumor

MHRA Medicines Healthcare Regulatory Authority

FDA Federal Drug Administration

SIOP – International Society of Paediatric Oncology

COG – Childrens Oncology Group

Abstract word count: 99

Text word count: 1148

Short running title: Fluorescent guided node harvest in Wilms tumor

Keywords: Fluorescent guided surgery, Indocyanine green, Wilms tumor, lymph node harvest

Number of tables: 0

Number of figures: 4

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