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Recent advances in photodynamic diagnosis of gastric cancer using 5-aminolevulinic acid

Koizumi N *et al.* Advances in 5-ALA-PDD of gastric cancer

Noriaki Koizumi, Yoshinori Harada, Takeo Minamikawa, Hideo Tanaka, Eigo Otsuji, Tetsuro Takamatsu

#### Abstract

Photodynamic diagnosis based on 5-aminolevulinic acid-induced protoporphyrin IX has been clinically applied in many fields based upon its evidenced efficacy and adequate safety. In order to establish a personalized medicine approach for treating gastric cancer patients, rapid intraoperative detection of malignant lesions has become important. Feasibility of photodynamic diagnosis using 5-aminolevulinic acid for gastric cancer patients has been investigated, especially for the detection of peritoneal dissemination and lymph node metastasis. This method enables intraoperative real-time fluorescence detection of peritoneal dissemination, exhibiting higher sensitivity than white light observation without histopathological examination. The method also enables detection of metastatic foci within excised lymph nodes, exhibiting a diagnostic accuracy comparable to that of a current molecular diagnostics technique. Although several complicating issues still need to be resolved, such as the effect of tissue autofluorescence and the insufficient depth penetration of excitation light, this simple and rapid method


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[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - [翻译此页](#)

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