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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 57161

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Artificial intelligence based real-time microcirculation analysis system for laparoscopic colorectal surgery

AI based microcirculation analysis system

Abstract

BACKGROUND

Colonic perfusion status can be assessed easily by Indocyanine green (ICG) angiography to predict ischemia related anastomotic complications during laparoscopic colorectal surgery. Recently, various parameter-based perfusion analysis have been studied for quantitative evaluation, but the analysis results differ depending on the use of quantitative parameters due to differences in vascular anatomical structure



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