

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 41736

Manuscript Type: MINIREVIEWS

Learning curves in minimally invasive esophagectomy

van Workum F *et al.* Learning curves in MIE

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Abstract

Surgical innovation and pioneering are important for improving patient outcome, but can be associated with learning curves. Although learning curves in surgery are a recognized problem, the impact of surgical learning curves is increasing, due to increasing complexity of innovative surgical procedures, the rapid rate at which new interventions are implemented and a decrease in relative effectiveness of new interventions compared to old interventions. For minimally invasive esophagectomy (MIE), there is now robust evidence that implementation can lead to significant learning associated morbidity (morbidity during a learning curve, that could have been avoided if patients were operated by surgeons that have completed the learning curve). This article provides an overview of the evidence of the impact of learning curves after implementation of MIE. In addition, caveats for implementation and available evidence regarding factors that are important for safe implementation and safe pioneering of MIE are discussed.

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2018年3月19日 - On the other hand, epigenetic changes interact **with** inherited **risk** factors to ... **Nonalcoholic fatty liver disease** (NAFLD) comprises a progressive ... **non-alcoholic fatty liver diseases** (NAFLD) patients and **clinical** Besides PNPLA3 and MBOAT, other **genetic** variants have been described to **promote** NAFLD ...

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缺少字词: **promoting**

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