

3
Name of Journal: World Journal of Gastrointestinal Endoscopy

ESPS Manuscript NO: 20505

Manuscript Type: MINIREVIEWS

Role of virtual reality simulation in endoscopy training

Louis Harpham-Lockyer, Faidon-Marios Laskaratos, Pasquale Berlingieri, Owen Epstein

Abstract

Recent advancements in virtual reality graphics and models have allowed virtual reality simulators to be incorporated into a variety of endoscopic training programmes. Use of virtual reality simulators in training programmes is thought to improve skill acquisition amongst trainees which is reflected in improved patient comfort and safety. Several studies have already been carried out to ascertain the impact that usage of virtual reality simulators may have upon trainee learning curves and how this may translate to

Match Overview

1	CrossCheck 20 words M. Barthet. "EUS training in a live pig model: does it improve echo endoscope hands-on and trainee competence?", E	<1%
2	CrossCheck 11 words M. Cunningham. "The emerging role of screen based simulators in the training and assessment of colonoscopists", Fr	<1%
3	Internet 11 words crawled on 22-Jun-2015 www.wjgnet.com	<1%
4	Internet 10 words crawled on 07-Jul-2014 www.surgeons.org	<1%
5	CrossCheck 10 words Matthew B. Bloom. "Virtual Reality Applied to Procedural Training: The Next Era .:", Annals of Surgery, 03/2003	<1%
6	CrossCheck 9 words Dawe, S. R., G. N. Pena, J. A. Windsor, J. A. J. L. Broeder, P. C. Cregan, P. J. Hewett, and G. J. Maddern. "System	<1%
7	Internet 9 words crawled on 16-Jul-2012 medicine.journalfeeds.com	<1%
8	Internet 9 words crawled on 17-May-2012 www.yourcareourmission.org	<1%
	Internet 9 words	<1%

学术搜索

找到约 10,100 条结果 (用时0.10秒)

文章

我的图书馆

时间不限

2015以来

2014以来

2011以来

自定义范围...

按相关性排序

按日期排序

搜索所有网页

中文网页

英语网页

 包括专利 包含引用 创建快讯**Virtual bronchoscopy: relationships of virtual reality endobronchial simulations to actual bronchoscopic findings**

DJ Vining, K Liu, RH Choplin... - CHEST ... , 1996 - journal.publications.chestnet.org

... This technique may have a **role** in prebronchoscopy planning, endoscopy training, and/or ... The **importance** of coaching a patient with breathing instructions was underscored ... However, several complementary diagnostic and educational **roles** for **virtual** bronchoscopy can be ...

被引用次数: 343 相关文章 所有 6 个版本 引用 保存

Randomized clinical trial of virtual reality simulation for laparoscopic skills training

TP Grantcharov, VB Kristiansen, J Bendix... - British Journal of ... , 2004 - Wiley Online Library

... Reports of serious complications have highlighted the **importance** of adequate **training** and ... laparoscopic cholecystectomy in humans, providing strong evidence for the **role** of VR ... surgery: a preliminary assessment of minimally invasive surgical trainer **virtual reality** (MIST VR). ...

被引用次数: 821 相关文章 所有 7 个版本 引用 保存

royalcollege.ca 中的 [PDF]

Proving the effectiveness of virtual reality simulation for training in laparoscopic surgery

R Aggarwal, J Ward, I Balasundaram, P Sains... - Annals of ... , 2007 - journals.lww.com

... for technical skills **training** to commence in the skills laboratory on **simulated** tissues ... 1-3 These range from simple knot-tying boards through to high-fidelity **virtual reality** (VR) simulators for ... it should be possible to accurately chart the effects of integrating **simulation-based training** ...

被引用次数: 221 相关文章 所有 5 个版本 引用 保存

Objective assessment of gastrointestinal endoscopy skills using a virtual reality simulator

TP Grantcharov, L Carstensen... - JSLS, Journal of the ... , 2005 - ingentaconnect.com

... over the last decade, and **virtual reality** (VR) simulators are becoming more wide- spread as tools of teaching and assessment of surgical and **endoscopic** skills. 1,2 VR **simulation** has a ... Thus, the objective of this study was to validate the **role** of a **virtual reality** computer system ...

被引用次数: 71 相关文章 所有 8 个版本 引用 保存

psu.edu 中的 [PDF]

The role of medical simulation: an overview

K Kunkler - The International Journal of Medical Robotics and ... , 2006 - Wiley Online Library

... This was the first step in developing simulators that would accurately replicate human bodily **functions**. ... The **role** of **simulation** in certifying these professionals is also an important consideration for ... Evaluation and validation of a **virtual reality** based flexible sigmoidoscopy trainer. ...

被引用次数: 622 相关文章 所有 3 个版本 引用 保存

[HTML] **Virtual reality simulation for the operating room: proficiency-based training as a**

nih.gov 中的 [HTML]



Role of virtual reality simulation in endoscopy training



网页 视频 图片 新闻 更多 搜索工具

找到约 160,000 条结果 (用时 0.44 秒)

Google 学术: [Role of virtual reality simulation in endoscopy training](#)

- ... of virtual reality endobronchial simulations to actual ... - Vining - 被引用次数: 344
- ... virtual reality simulation for laparoscopic skills training - Grantcharov - 被引用次数: 840
- ... the effectiveness of virtual reality simulation for training ... - Aggarwal - 被引用次数: 233

[The Relationship of Endoscopic Proficiency to Educational ...](#)

www.ncbi.nlm.nih.gov/pubmed/26140898 - 翻译此页
 作者: J Raque - 2015
 ... Expense for Virtual Reality Simulator Training Amongst Surgical Trainees. ... With the introduction of Fundamentals of Endoscopic Surgery, training methods in ... The importance of simulation in endoscopy training will be predicated on more ...

[Virtual reality simulation training for health professions ...](#)

www.ncbi.nlm.nih.gov/pubmed/22696375 - 翻译此页
 作者: CM Walsh - 2012 - 被引用次数: 55 - 相关文章
 2012年6月13日 - Virtual reality simulation training for health professions trainees in gastrointestinal endoscopy. Walsh CM(1), Sherlock ME, Ling SC, Carnahan ...

[Objective Assessment of Gastrointestinal Endoscopy Skills ...](#)

www.ncbi.nlm.nih.gov > ... > Literature > PubMed Central (PMC) - 翻译此页
 作者: TP Grantcharov - 2005 - 被引用次数: 74 - 相关文章
 Assessment of endoscopic skills was performed during a simulated colonoscopy ...



[网页](#) [图片](#) [新闻](#) [视频](#) [更多](#) [搜索工具](#)

找到约 7,650 条结果 (用时 0.59 秒)

Google 学术: Pseudolymphoma (reactive lymphoid hyperplasia) of the liver: A clinical challenge

... lymphoid hyperplasia and cutaneous marginal zone ... - Baldassano - 被引用次数: 104

Hepatic pseudolymphoma: a clinicopathological study ... - Zen - 被引用次数: 25

Gastric pseudolymphoma. A challenging clinical ... - Orr - 被引用次数: 19

Modern Pathology - Hepatic pseudolymphoma: a ...

www.nature.com > [Journal home](#) > [Archive](#) > [Original Articles](#) - [翻译此页](#)

作者: Y Zen - 2010 - 被引用次数: 24 - [相关文章](#)

2009年11月13日 - In this study, we retrospectively examined clinical and pathological features of five patients ... The diagnosis of hepatic pseudolymphoma can be challenging especially with ... liver, lymphoma, reactive lymphoid hyperplasia.

Reactive Lymphoid Hyperplasia of the Liver: A ...

www.hindawi.com/journals/hpb/2012/357694/ - [翻译此页](#)

作者: L Yuan - 2012 - 被引用次数: 6 - [相关文章](#)

2012年6月22日 - Reactive lymphoid hyperplasia (RLH) of the liver is a benign focal liver mass ... also termed as nodular lymphoid lesion [1, 2] or pseudolymphoma [3-8], ... a detailed evaluation of its clinical features, radiologic characteristics, ...

Hepatic reactive lymphoid hyperplasia in a patient with ...

www.ncbi.nlm.nih.gov > ... > [PubMed Central \(PMC\)](#) - [翻译此页](#)

作者: M Ishida - 2010 - 被引用次数: 12 - [相关文章](#)

2010年10月27日 - Pre-operative diagnosis of hepatic RLH by clinical imaging is extremely difficult. ... Keywords: Reactive lymphoid hyperplasia, Pseudolymphoma, Liver, Primary from low-grade malignant lymphoma could be challenging.