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### Basic Study

Quest for the best endoscopic imaging modality for computer-assisted colonic polyp staging

Wimmer G *et al.* Quest for the best imaging modality

<sup>1</sup> Georg Wimmer, Michael Gadermayr, Gernot Wolkersdörfer, Roland Kwitt, Toru Tamaki, Jens Tischendorf, Michael Häfner, Shigeto Yoshida, Shinji Tanaka, Dorit Merhof, Andreas Uhl

### Abstract

#### BACKGROUND

It was shown in previous studies that high definition endoscopy, high magnification endoscopy and image enhancement technologies, such as chromoendoscopy and digital chromoendoscopy [narrow-band imaging (NBI), i-Scan] facilitate the detection and classification of colonic polyps during endoscopic sessions. However, there are no comprehensive studies so far that analyze which endoscopic imaging modalities facilitate the automated classification of colonic polyps. In this work, we <sup>2</sup> investigate the impact of endoscopic imaging modalities on the results of computer-assisted diagnosis systems for colonic polyp staging.

### Match Overview

1	<b>Crossref</b> 126 words Georg Wimmer, Michael Gadermayr, Roland Kwitt, Michael Häfner et al. "Training of polyp staging systems using mixed ..."	3%
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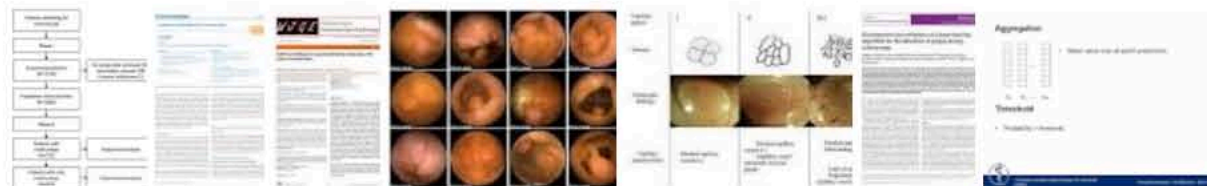
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## Quest for the Best Endoscopic Imaging ...的图片搜索结果



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举报图片

## NICE Classification for differential diagnosis of colon polyps

<https://www.endoscopy-campus.com/.../nice-klassifikation-zur-colonpolypen...> ▼ 翻译此页

The NICE (NBI International Colorectal **Endoscopic**) Classification is **based** on ... **endoscopic** diagnosis of small **colorectal polyps** using narrow-band **imaging**.

缺少字词: quest best modality computer staging

## Virtual colonoscopy vs optical colonoscopy - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2869208/> ▼ 翻译此页

作者: Z Liang - 2010 - 被引用次数: 18 - 相关文章

Keywords: **Colonic polyp** screening, colorectal cancer prevention, early ... **endoscopic** views (human observer) or **computer-aided** detection (computer observer). ... projections and requires a **good** deal of patient positioning and cooperation .... Compared to other **imaging modalities**, low-dose CT and high performance MRI ...

缺少字词: quest staging

## Colonography by CT, MRI and PET/CT combined with conventional ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2687052/> ▼ 翻译此页

作者: L Sun - 2008 - 被引用次数: 58 - 相关文章

**Staging** and re-**staging** with conventional colonoscopy (CC), **computer** tomography .... Improved radiographic **imaging** techniques **based** on CT **imaging** allow ... In summary, whether or not the survival of **endoscopy** is under debate, MRI .... MRC is a promising **modality** with high accuracy for



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### Diagnostic Modalities in Colorectal Cancer –Endoscopy, Ct and Pet ...

<https://www.intechopen.com/.../colorectal.../diagnostic-modalities-in-colorect...> ▾ [翻译此页](#)

作者: V Ignatov - 2014 - 被引用次数: 1 - 相关文章

The **polyps** vary in size and **polyps** under 5 mm are not detected **endoscopic**. ... **Computer-aided** detection (CAD) can minimize the variation among readers' ... **Staging** of **rectal** cancer is of great importance before the surgical treatment, because ..... There is no firm statement which is the **best imaging modality**, further more ...

### Introduction - Imaging Tests for the Staging of Colorectal Cancer ...

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It has been estimated to be the cancer site with the second-highest ... **Search** term ... The crypt foci may progress to adenomatous **polyps**, some of which (an .... or **endoscopic rectal** ultrasound) entered into clinical practice for **staging rectal** cancer ... **Computer-assisted imaging** devices may reduce subjectivity and decrease ...

### The impact of new technology on surgery for colorectal cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4695561/> - [翻译此页](#)

作者: GB Makin - 2001 - 被引用次数: 48 - 相关文章

The magnetic **imaging endoscope** can also be used to indicate the extent of the ... Currently **colonic polyps** are biopsied or removed for histological diagnosis to .... The importance of accurate pre operative **staging** of rectal cancer has grown with ..... **Computer assisted** colonoscopy, using a miniature self propelled robotic ...

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### Role of endoscopy in the staging and management of colorectal cancer

<https://www.asge.org/.../doc-role-of-endoscopy-in-the-staging-and-manage...> ▾ [翻译此页](#)

Guidelines for appropriate use of **endoscopy** are **based** on a critical review of the ... different among the 3 **imaging modalities**.10,11 MRI may also have a role in ...

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