

Name of Journal: *Artificial Intelligence in Gastroenterology*

Manuscript NO: 63061

Manuscript Type: REVIEW

Artificial intelligence in rectal cancer

Yakar M *et al.* AI in rectal cancer

Melek Yakar, Durmus Etiz

abstract

Accurate and rapid diagnosis is essential for correct treatment in rectal cancer. Determining the optimal treatment plan for a patient with rectal cancer is a complex process and the oncological results and toxicity are not the same in every patient with the same treatment at the same stage. In recent years, the increasing interest in artificial

Match Overview

Rank	Source	Words	Similarity
1	Internet crawled on 29-Oct-2020 www.frontiersin.org	122	2%
2	Crossref Liming Shi, Yang Zhang, Ke Nie, Xiaonan Sun et al. "Machine learning for prediction of chemoradiation therapy resp	119	1%
3	Crossref Yanfen Cui, Huanhuan Liu, Jialiang Ren, Xiaosong Du, Lei Xin, Dandan Li, Xiaotang Yang, Dengbin Wang. "Developm	118	1%
4	Internet crawled on 17-Nov-2020 bmcm imaging.biomedcentral.com	102	1%
5	Crossref Melek Akcay, Durmus Etiz, Ozer Celik. "PREDICTION OF SURVIVAL AND RECURRENCE PATTERNS BY MACHIN	87	1%
6	Internet crawled on 22-May-2020 escholarship.org	83	1%
7	Internet crawled on 24-Nov-2020 doctorpenguin.com	72	1%
8	Internet crawled on 18-Mar-2020 worldwidescience.org	67	1%
9	Internet crawled on 20-Feb-2020 www.researchsquare.com	56	1%
10	Internet crawled on 23-Nov-2020 arxiv.org	44	1%

Artificial intelligence in rectal cancer



ALL

IMAGES

VIDEOS

26,600,000 Results

Any time ▾

Colorectal cancer is the cancer of the colon or the rectum. Researchers claim that artificial intelligence can **locate colorectal cancer in less than a second to advance patient diagnosis**. The artificial intelligence system may identify potentially menacing cancers from endoscopy images with high

Artificial Intelligence and Colorectal Cancer - DiseaseFix

www.diseasefix.com/page/can-artificial-intelligence-be-used-fight-colorectal-can...

Was this helpful?

Scope of Artificial Intelligence in Screening and ...

<https://pubmed.ncbi.nlm.nih.gov/33076511>

Integrating artificial intelligence (AI) and computer-aided detection (CAD) with screening methods has shown promising colorectal cancer screening results. AI could provide a "second look" for endoscopist. †

Cited by: 2

Author: Hemant Goyal, Rupinder Mann, Zainab G...

Publish Year: 2020

Frontiers | An Artificial Intelligence-Based Full-Process ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.616721> ▾

Background and Purpose: To develop an artificial intelligence-based full-process solution for rectal cancer radiotherapy. Materials and Methods: A full-process solution that integrates autosegmentation and... †

Author: Xiang Xia, Jiazhou Wang, Yujiao Li, Ji... Publish Year: 2021

Establishment and Clinical Application of an Artificial ...

<https://www.frontiersin.org/articles/10.3389/fonc.2021.626626> ▾

To improve the accuracy of postoperative pathological diagnosis of rectal cancer patients and reduce the workload of pathologists, we established an automated diagnostic system for rectal cancer tumor... †

RadioPathomics Artificial Intelligence Model to Predict ...

<https://clinicaltrials.gov/ct2/show/NCT04273451> ▾

Brief Summary: In this study, investigators apply a radiopathomics artificial intelligence (AI) supportive model to predict neoadjuvant chemoradiotherapy (nCRT) response before the nCRT is delivered for †

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

26,600,000 Results

Any time ▾

Open links in new tab



Colorectal cancer is the cancer of the colon or the rectum. Researchers claim that artificial intelligence can **locate colorectal cancer in less than a second to advance patient diagnosis**. The artificial intelligence system may identify potentially menacing cancers from endoscopy images with high

Artificial Intelligence and Colorectal Cancer - DiseaseFix

www.diseasefix.com/page/can-artificial-intelligence-be-used-fight-colorectal-ca...

Was this helpful?  

Scope of Artificial Intelligence in Screening and ...

<https://pubmed.ncbi.nlm.nih.gov/33076511>

Integrating artificial intelligence (AI) and computer-aided detection (CAD) with screening methods has shown promising colorectal cancer screening results. AI could provide a "second look" for endoscopists to decrease the rate of missed polyps during a colonoscopy.

Cited by: 2

Author: Hemant Goyal, Rupinder Mann, Zainab Gan...

Publish Year: 2020

Frontiers | An Artificial Intelligence-Based Full-Process ...

<https://www.frontiersin.org/articles/10.3389/fonc.2020.616721> ▾

Background and Purpose: To develop an artificial intelligence-based full-process solution for rectal cancer radiotherapy. Materials and Methods: A full-process solution that integrates autosegmentation and automatic treatment planning was developed under a single deep-learning framework. A convolutional neural network (CNN) was used to generate segmentations of the target and the organs ...

Author: Xiang Xia, Jiazhou Wang, Jiazhou Wan...

Publish Year: 2021

Establishment and Clinical Application of an Artificial ...

<https://www.frontiersin.org/articles/10.3389/fonc.2021.626626> ▾

To improve the accuracy of postoperative pathological diagnosis of **rectal cancer** patients and reduce the workload of pathologists, we established an automated diagnostic system for **rectal cancer tumor** budding by training an AI on a large number of images from HE-stained **pathological** sections with **rectal cancer tumor** budding through the deep learning technique.

Radiotherapeutic Artificial Intelligence Model to Predict