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Manuscript Type: MINIREVIEWS

Application of artificial intelligence for the diagnosis, treatment, and prognosis of pancreatic cancer

Lin HM *et al.* AI in pancreatic cancer

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Abstract

Pancreatic cancer is a complex cancer of the digestive tract. Diagnosis and treatment can be very difficult because of unclear early symptoms, the deep

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Pancreatic Cancer Prediction Through an Artificial Neural ...

<https://www.frontiersin.org/articles/10.3389/frai.2019.00002> ▾

Early detection of **pancreatic cancer** is challenging because **cancer-specific symptoms** occur only at an advanced stage, and a reliable screening tool to identify high-risk patients is lacking. To address this challenge, an **artificial neural network (ANN)** was developed, trained, and tested using the health data of 800,114 respondents captured in the National Health Interview Survey (NHIS) and ...

Cited by: 2

Author: Wazir Muhammad, Gregory R. Hart, Brad...

Publish Year: 2019

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A first in **artificial intelligence**. **Artificial intelligence** is increasingly used to assist in image analysis. But the Mayo Clinic-University of Central Florida work is the first to address **pancreatic cancer**. Recent studies have found that **pancreatic cancer** often starts with a precancerous cyst known as an intraductal papillary mucinous neoplasm ...

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AI's Role in Treatment and Research. Because of the computer program's speed and accuracy, the research team suggested the tool could be used during **surgery**, for example, to help verify that a biopsy is of sufficient quality to make a **diagnosis** or to inform a surgeon that another sample is needed.

Applications of Artificial Intelligence in Cancer ...

<https://mesowatch.com/applications-of-artificial...> ▾

Sep 16, 2019 · Cancer is the deadliest disease of all, no matter what type of malignancy it is. Only in 2018, about 9.6 million people have died due to **cancer** worldwide. Though the cancer death rate has



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At that point, it is too late to carry out a successful treatment. The likely outcome of **pancreatic cancer**, therefore, tends to be very poor. Only 5 out of 100 patients with **pancreatic cancer** survive longer than 5 years after their **diagnosis**. In the United States, **pancreatic cancer** ranks as the 4th most common cancer for men and 5th for women.

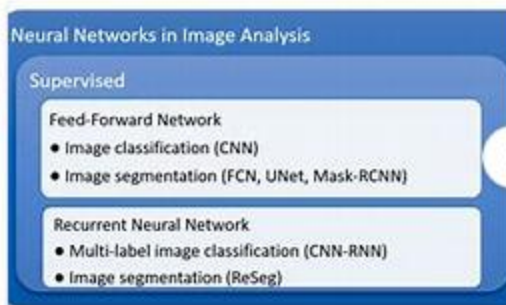
Artificial intelligence brings pancreatic cancer screening ...

<https://medicalxpress.com/news/2020-07-artificial...> ▾

Jul 02, 2020 - **Artificial intelligence (AI)** holds promise for enabling earlier detection of **pancreatic cancer**, which is crucial to saving lives. The potential of AI ...

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[Artificial intelligence in cancer diagnosis and prognosis ...](https://www.sciencedirect.com/science/article/pii/S0304383519306135)

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Artificial intelligence (AI) has reached new heights in **clinical cancer research** in recent years. • **AI** is applied to **assist cancer diagnosis and prognosis**, given its unprecedented accuracy level, which is even higher than that of general statistical expert. •

Cited by: 1

Author: Shigao Huang, Jie Yang, Simon Fong, Si...

Publish Year: 2020