

1

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 56222

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Risk prediction platform for pancreatic fistula after pancreatoduodenectomy using artificial intelligence

Abstract

BACKGROUND

Despite advancements in operative technique and improvements in postoperative

Match Overview

1	Crossref 313 words In Woong Han, Kyeongwon Cho, Youngju Ryu, Myung Jin Chung, Sang Hyun Shin, Jin Seok Heo, Dong Wook Choi, Baek H	7%
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[PDF] [Development of Risk Prediction Platform for Pancreatic ...](#)

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Artificial intelligence technology is receiving a lot of attention and is actively being distributed in medical field. However, no studies have been reported on the application of this technique to outcomes **after pancreatic surgery**. As a result, this study aimed to **develop risk prediction platform for POPF using artificial intelligence** model.

[PDF] [Prediction of clinically relevant pancreatico enteric ...](#)

https://www.thno.org/ms/doc/2596/pubfile/thno_49671k2_1.pdf

Rationale: Clinically relevant **postoperative pancreatic fistula** (CR-POPF) is among the most formidable **complications after pancreatoduodenectomy (PD)**, heightening morbidity/mortality rates. **Fistula Risk Score (FRS)** is a well-developed **predictor**, but it is an **intraoperative predictor** and quantifies >50% patients as intermediate **risk**.

[International Journal of Surgery | Abstracts of the 3rd ...](#)

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Development and validation of **risk prediction platform for pancreatic fistula after pancreatoduodenectomy using artificial intelligence** In Woong Han, Kyeongwon Cho, Youngju Ryu, Myung Jin Chung, ... Baek Hwan Cho

[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: 4 **Author:** Wazir Muhammad, Gregory R. Hart, Brad...

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



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

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Development of a prediction model for pancreatic cancer in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6267763>

It is the most commonly used "model" of artificial intelligence and can be used for prediction, forecasting, diagnosis, and decision making.^{33,34} By using the NHIRD, researchers have revealed that ANN is a suitable model to predict some diseases.^{34,35} However, our results indicated that the area under the ROC curve across all data for the ...

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