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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 54644

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Chronic atrophic gastritis detection with a convolutional neural network
considering stomach regions

Misaki Kanai, Ren Togo, Takahiro Ogawa, Miki Haseyama

Abstract

BACKGROUND

The risk of gastric cancer increases in patients with *Helicobacter pylori*-associated chronic atrophic gastritis (CAG). X-ray examination can evaluate the condition of the stomach, and it can be used for gastric cancer mass

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<https://link.springer.com/article/10.1007/s00535-018-1514-7> ▾

Oct 03, 2018 · We developed an automated **gastritis detection** system using double-contrast upper gastrointestinal barium **X-ray** radiography. A total of 6520 **gastric X-ray images** obtained from 815 subjects were analyzed. We designed a deep **convolutional neural network** (DCNN)-based **gastritis detection** scheme and evaluated the effectiveness of our method.

Cited by: 1

Author: Ren Togo, Nobutake Yamamichi, Katsuhir...

Publish Year: 2019

Diagnosing chronic atrophic gastritis by gastroscopy using ...

<https://www.sciencedirect.com/science/article/pii/S1590865820300037>

The **diagnostic** accuracy, sensitivity, and specificity of the **convolutional neural network-chronic atrophic gastritis** model in **diagnosing atrophic gastritis** were 0.942, 0.945, and 0.940, respectively, which were higher than those of the experts. The **detection rates** of mild, moderate, and severe atrophic **gastritis** were 93%, 95%, and 99%, respectively.

Detection of gastritis by a deep convolutional neural ...

https://www.researchgate.net/publication/328050261_Detection_of_gastritis_by_a_deep...

Detection of gastritis by a **deep convolutional neural network** from **double-contrast upper gastrointestinal barium X-ray radiography** Article (PDF Available) in Journal of **Gastroenterology** ...

Detection of gastritis by a deep convolutional neural ...

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We developed an automated **gastritis detection** system using double-contrast upper gastrointestinal barium **X-ray** radiography. MethodsA total of 6520 **gastric X-ray images** obtained from 815 subjects were

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Author: Yaqiong Zhang, Fengxia Li, Fuqiang Y... Publish Year: 2020

The diagnostic accuracy, sensitivity, and specificity of the convolutional neural network-chronic atrophic gastritis model in diagnosing atrophic gastritis were 0.942, 0.945, and 0.940, respectively, which were higher than those of the experts. The detection rates of mild, moderate, and severe atrophic gastritis were 93%, 95%, and 99% ...

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[A Lesion-Based Convolutional Neural Network ...](#) 翻译此页

Cited by: 1 Author: Hong Jin Yoon, Seunghyup Kim, Jie-Hyun ...

Publish Year: 2019 位置: 8600 Rockville Pike, Bethesda, MD

2019-8-26 · A Lesion-Based Convolutional Neural Network Improves Endoscopic Detection and Depth Prediction of Early Gastric Cancer Hong Jin Yoon , 1 Seunghyup Kim , 1 Jie-Hyun Kim , 1, * Ji-Soo Keum , 2 Sang-Il Oh , 2 Junik Jo , 2 Jaeyoung Chun , 1 Young Hoon Youn , 1 Hyojin Park , 1 In Gyu Kwon , 3 Seung Ho Choi , 3 and Sung Hoon Noh 3

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[Diagnosing chronic atrophic gastritis by gastroscopy using ...](#)

<https://www.sciencedirect.com/science/article/pii/S1590865820300037>

Chronic atrophic gastritis could be diagnosed by gastroscopic images using the **convolutional neural network-chronic atrophic gastritis model**. This may greatly reduce the **burden on endoscopy physicians**, **simplify diagnostic routines**, and **reduce costs for doctors and patients**.

Author: Yaqiong Zhang, Fengxia Li, Fuqiang Y... Publish Year: 2020

[\(PDF\) Diagnosing chronic atrophic gastritis by gastroscopy ...](#)

<https://www.researchgate.net/publication/339231177...>

Results: The diagnostic accuracy, sensitivity, and specificity of the **convolutional neural network-chronic atrophic gastritis** model in diagnosing **atrophic gastritis** were 0.942, 0.945, and 0.940 ...

[Clinical manifestations of chronic atrophic gastritis](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6502219>

Chronic atrophic gastritis (**CAG**) is the final consequence of an **inflammatory process** that ultimately leads to loss of appropriate **mucosal glands**. This **histological alteration** may be due to an **autoimmune-mediated reaction** directed towards parietal cells or their components, or may be associated to infection with **Helicobacter pylori** .

Cited by: 2 Author: Isabel Rodriguez-Castro Kryssia, France...

Publish Year: 2018

[Prevalence of Chronic Atrophic Gastritis in Different ...](#)

<https://cebp.aacrjournals.org/content/15/6/1083>

Jun 01, 2006 · **Chronic atrophic gastritis** (CAG) is a well-established precursor of intestinal gastric cancer, but epidemiologic data about its occurrence are sparse. We provide an overview on studies that examined the prevalence of CAG in different parts of the world. Articles containing data about the prevalence of **chronic atrophic gastritis** in unselected population samples and published until ...

Cited by: 132 Author: Melanie Nicole Weck, Hermann Brenner

Publish Year: 2006