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Manuscript Type: ORIGINAL ARTICLE

Retrospective Study**Development of a prognostic model for one-year surgery risk in Crohn's disease patients: A retrospective study**

Jia-Yin Yao, Yi Jiang, Jia Ke, Yi Lu, Jun Hu, Min Zhi

Abstract**BACKGROUND**

Accelerated therapeutic treatment should be considered in patients with progressive Crohn's disease (CD) to prevent complications as well as surgery. Therefore, screening for risk factors and predicting the need for early surgery is of great importance in clinical practice.

AIM

To establish a model to predict CD-related early surgery.

METHODS

This was a retrospective study collecting data from CD patients diagnosed in our inflammatory bowel disease center from 1 January 2012 to 31 December 2016. All data were randomly stratified into a training set and a testing set at a ratio of 8:2. Multivariable logistic regression analysis was conducted with receiver operating characteristic curves constructed and areas under the curve calculated. This model was further validated with calibration and discrimination estimated. A nomogram was developed.

RESULTS**Match Overview**

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A risk score system to timely manage treatment in Crohn's ...

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Development and Validation of a Prognostic Model of ...

Crohn's Disease

Medical Condition

Severe abdominal pain and tender




A chronic inflammation of the digestive tract

 Rare (Fewer than 200,000 cases per year)

 Requires lab test or imaging

 Treatments can help manage condition

 Can be lifelong

The exact cause is unknown but heredity and immune system play a role. Common symptoms include abdominal pain, diarrhea, weight loss, malnutrition and fatigue. Anti-inflammatory drugs and immunosuppressors help in long term remission.

Symptoms

Symptoms range from mild to severe and include

- Abdominal pain and tenderness
- Feeling of a filled abdomen
- Tiredness



34,300 Results

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Prognostic models for outcome prediction in patients with ...

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Oct 04, 2019 · The B-AE-D index, and its update, the B-AE-D-C index, were developed for stable COPD patients at GOLD stage II to IV to predict the risk of two year all cause mortality.²⁷ The prognostic model developed by Bertens et al was the only prognostic model at low risk of bias that was developed to predict the risk of future exacerbations at two years in stable COPD patients.⁶⁸

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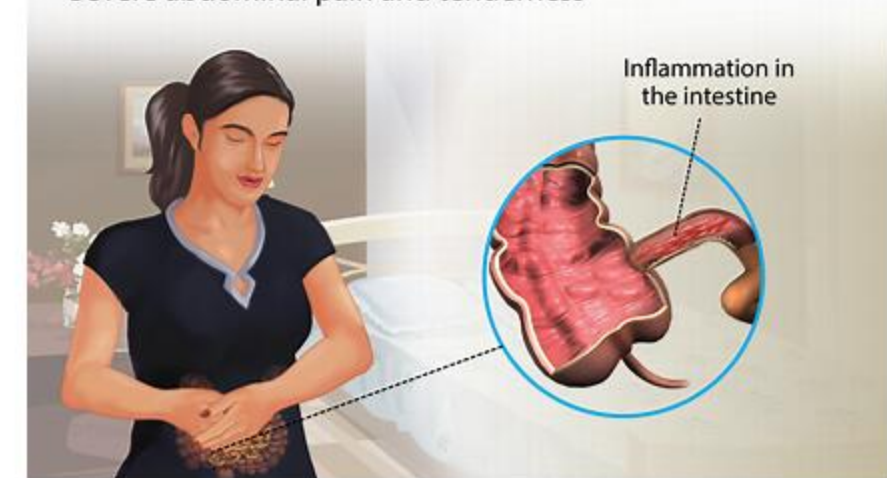
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Identifying Patients With Inflammatory Bowel Diseases at

Crohn's Disease

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A chronic inflammation of the digestive tract.

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Treatments can help manage condition, no known cure

Can be lifelong

The exact cause is unknown but heredity and malfunctioning immune system play a role. Common symptoms include abdominal pain, diarrhea, malnutrition and fatigue. Anti-inflammatory drugs and immune system suppressors help in long term remission.

Symptoms

Symptoms range from mild to severe and include:

- Abdominal pain and tenderness
- Feeling of a filled abdomen
- Tiredness
- Diarrhea, which can be mixed with blood, mucus or pus in severe cases
- Constipation
- Nausea