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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 57208

Manuscript Type: MINIREVIEWS

New advances in radiomics of gastrointestinal stromal tumors

Roberto Cannella, Ludovico La Grutta, Massimo Midiri, Tommaso Vincenzo Bartolotta

Abstract

Gastrointestinal stromal tumors (GISTs) are uncommon neoplasms of the gastrointestinal tract with peculiar clinical, genetic, and imaging characteristics. Preoperative knowledge of risk stratification and mutational status is crucial to guide the appropriate patients' treatment. Predicting the clinical behavior and biological

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Cited by: 5**Author:** Florence Duffaud, Florence Duffaud, Ax...**Publish Year:** 2017

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Abstract Background. **Gastrointestinal stromal tumors** (GISTs) are rare mesenchymal **tumors** of the **gastrointestinal** (GI) tract. The size, the presence of a c-KIT gene mutation and the mitotic index are used to determine the prognosis and to direct systemic treatment choices.

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Constitutively activating mutations in the **KIT** and **platelet-derived growth factor receptor α** (PDGFRA) RTKs play a crucial role in the biology of gastrointestinal stromal tumors (GISTs), and this disease has served as an effective model for targeting gain-of-function kinase mutations in ...

Cited by: 64**Author:** César Serrano, Suzanne George**Publish Year:** 2014

Gastrointestinal stromal tumor: Recent advances in ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/pin.12230>

Gastrointestinal stromal tumor: Recent advances in pathology and genetics. Hidetaka Yamamoto. ... The discovery of KIT gene mutation in **gastrointestinal stromal tumor (GIST)** has provided a paradigm shift in the classification, diagnosis and molecular-targeted therapy **of gastrointestinal**



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New advances in radiomics of gastrointestinal stromal tumors



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The commonly used radiological examinations for **gastrointestinal stromal tumor (GIST)** include ultrasound, CT, magnetic resonance imaging and PET, which play important roles in the individualized treatment of **GIST** through the assistance of the detection, location, diagnose and differential diagnosis, biological behavior and risk evaluation, operation planning, therapeutic effects prediction and ...

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Gastrointestinal stromal tumors (GISTs) are rare mesenchymal tumors of the gastrointestinal (GI) tract. The size, the **presence of a c-KIT gene mutation and the mitotic index** are used to determine the prognosis and to direct systemic treatment choices. This study evaluated the use of radiomics, a **technique which uses algorithms for diagnosing and predicting the c-KIT mutational status and mitotic index of GISTs from medical imaging features**.

Recent advances in managing gastrointestinal stromal tumor

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5600003>

Gastrointestinal Stromal Tumor Meta-Analysis Group (MetaGIST): Comparison of two doses of imatinib for the treatment of unresectable or metastatic gastrointestinal stromal tumors: a meta-analysis of

Gastrointestinal Stromal Tumors (Gists)

Medical condition

A gastrointestinal stromal tumor (GIST) is a type of tumor that occurs in the gastrointestinal tract, most commonly in the stomach or small intestine.

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Symptoms

The symptoms depend on the size of the tumor and where it's located. Because of this, symptoms often vary in severity and from one person to another.

Some of the more common symptoms include:

- bloody stools
- pain or discomfort in the abdomen
- nausea and...



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[Recent advances in managing gastrointestinal stromal tumor](#)<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5600003>

Gastrointestinal Stromal Tumor Meta-Analysis Group (MetaGIST): Comparison of two doses of imatinib for the treatment of unresectable or metastatic **gastrointestinal stromal tumors**: a meta-analysis of 1,640 patients. J Clin Oncol. 2010; 28 (7):1247–53. 10.1200/JCO.2009.24.2099 [PMC free article] [Google Scholar] F1000 Recommendation

Cited by: 5**Author:** Florence Duffaud, Florence Duffaud, Axel...**Publish Year:** 2017[Advances in the Treatment of Gastrointestinal Stromal ...](#)https://www.cancercare.org/connect_workshops/818... ▾

May 29, 2020 · **Advances in the Treatment of Gastrointestinal Stromal Tumors (GIST)** Listen Now. play; pause / 1:01:47. Download MP3 View Webcast. Topics Covered. Overview of the Treatment of **Gastrointestinal Stromal Tumors (GIST)**, in the Context of COVID-19; Diagnosis and Staging; ... 275 Seventh Avenue **New York**, NY 10001 800-813-HOPE (4673) info ...

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Causes

There are only a few known risk factors for GISTs:

Age

The most common age to develop a GIST is between 50 and 80. While GISTs can happen in people younger than 40, they are extremely rare.

Genes

The majority of GISTs happen randomly and have no...

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Treatments

The primary treatment for GIST is surgery. During surgery, the tumor is removed completely in approximately 85% of cases.

More than half of all GIST tumors are small, not very aggressive, and