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1	<b>Crossref</b> 66 words Jaya Kanduri, Luis Alberto More, Anuradha Godishala, Aarti ... snani. "Fluoropyrimidine-Associated Cardiotoxicity", <i>Cardiolog</i>	2%
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**Name of Journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 57424

**Manuscript Type:** MINIREVIEWS

### Fluoropyrimidine-induced cardiotoxicity

Deac AL *et al.* Fluoropyrimidine-induced cardiotoxicity

#### Abstract

Cardio-oncology is a discipline based on early screening, monitoring, and treating chemotherapy cardiotoxicity. There are many chemotherapeutics known for their cardiac toxic effects, including fluoropyrimidines. Fluoropyrimidine represents the cornerstone of many types of cancer and each year almost two million cancer patients undergo this treatment. Fluoropyrimidines cardiotoxicity can be manifested in several forms, from angina pectoris to sudden death. This paper is a review of how the cardiotoxicity of fluoropyrimidines is presented, the mechanisms of its occurrence, its diagnosis and management.



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## Fluoropyrimidine Cardiotoxicity - American College of ...

<https://www.acc.org/.../articles/2019/04/05/07/34/fluoropyrimidine-cardiotoxicity> ▼

Apr 05, 2019 · Although **fluoropyrimidine-associated cardiotoxicity** was first observed as early as the 1960s, there have been few clinical trials focused specifically on defining the **incidence** of **cardiotoxicity**, which is thought to range from 1% to 19%. 14 In general, reported **incidence** data have been based largely on retrospective studies that lack consistent definitions of **cardiotoxicity** and have variable reporting ...

## Fluoropyrimidine-induced cardiotoxicity - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1040842817302652>

Apr 01, 2018 · **Fluoropyrimidines-induced coronary vasospasm** and subsequent myocardial ischemia have historically been pointed out as the main pathogenic mechanism of **cardiotoxicity** based on several case reports and small preclinical trials (Karakulak et al., 2016, Kim et al., 2012, Mosseri et al., 1993).

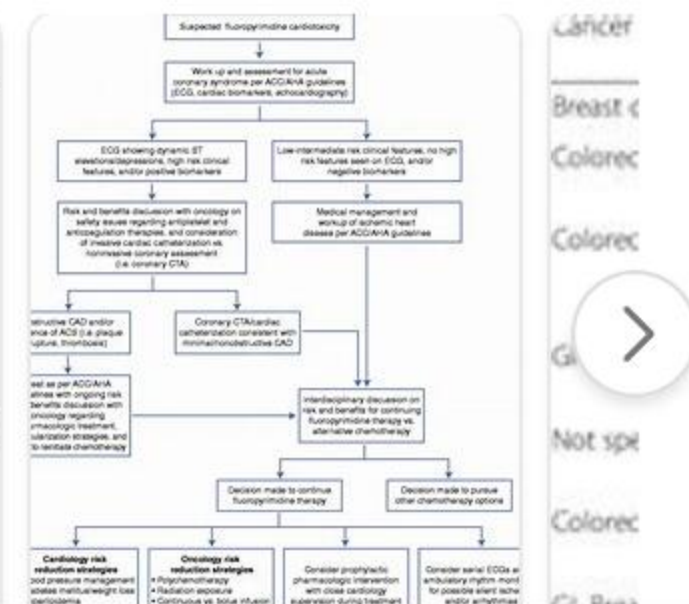
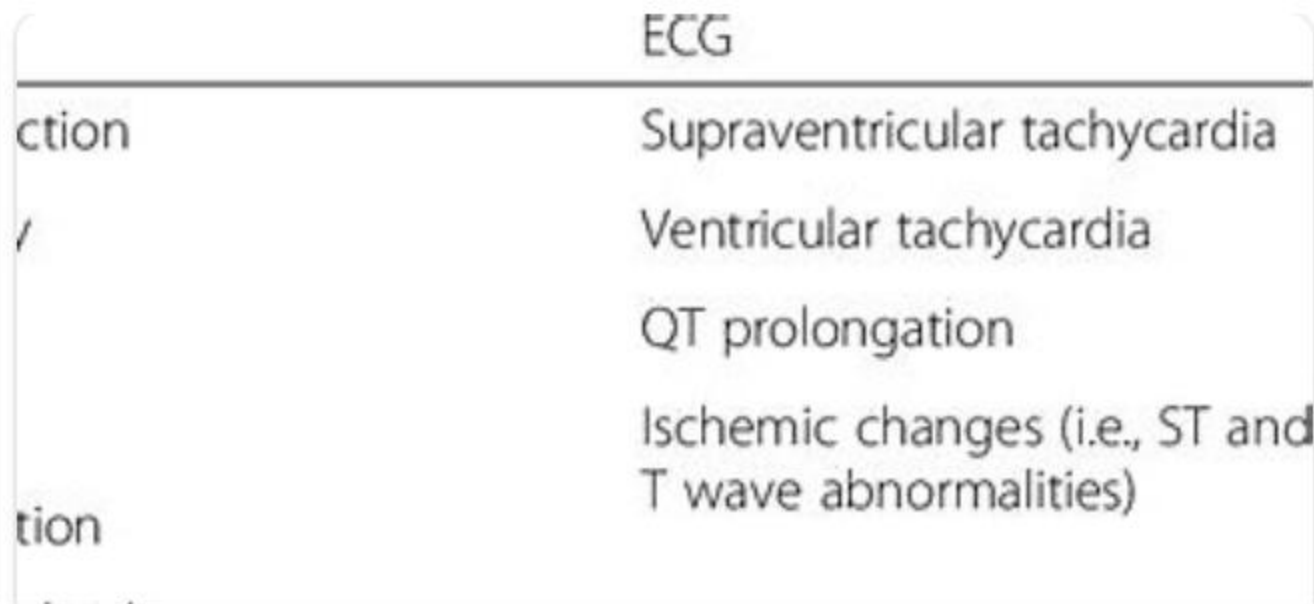
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Author: Ilaria Depetris, Donatella Marino, Alessandr...

Publish Year: 2018

## Images of Fluoropyrimidine-Induced Cardiotoxicity

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## Fluoropyrimidine Cardiotoxicity - American College of ...

Although fluoropyrimidine-associated cardiotoxicity was first observed as early as the 1960s, there have been few clinical trials focused specifically on defining the incidence of cardiotoxicity, which is thought to range from 1% to 19%. 14 In general, reported incidence data have been based largely on retrospective studies that lack consistent definitions of cardiotoxicity and have variable reporting of cardiac events.

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Medicine  
Rechallenge capecitabine after fluoropyrimidine-induced cardiotoxicity in rectal cancer: A case report

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/

tion

death


ECG

Supraventricular tachycardia

Ventricular tachycardia

QT prolongation

Ischemic changes (i.e., ST and T wave abnormalities)



Flowchart illustrating the management of fluoropyrimidine-induced cardiotoxicity, detailing clinical presentation, diagnosis, and treatment steps.

Lancet

Breast c

Colorec

Colorec

GI

Heart spe

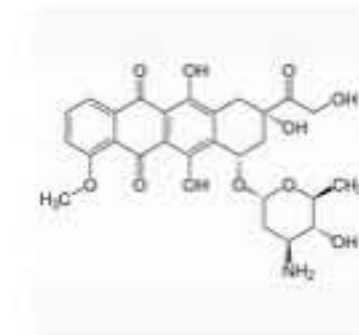
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## Cardiotoxicity



Cardiotoxicity is the occurrence of heart electrophysiology dysfunction or muscle damage. The heart becomes weaker and is not as efficient in pumping and therefore circulating blood. Cardiotoxicity may be caused by chemotherapy (a usual example is the class of anthracyclines)

treatment; complications from anorexia nervosa; adverse effects of heavy metals intake; the long-term abuse of or ingestion at high doses of certain strong stimulants such as cocaine; or an incorrectly administered drug such as bupivacaine.

Wikipedia

Data from: Wikipedia

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## Fluoropyrimidine-induced cardiotoxicity - ScienceDirect

<https://www.sciencedirect.com/science/article/abs/pii/S1040842817302652>

Fluoropyrimidines (5-fluorouracil and capecitabine) are antimetabolite drugs, widely used for the