

21

Name of Journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 60077

Manuscript Type: REVIEW

Carbohydrate antigen 19-9 – tumor marker: Past, present, and future

Tsinrong Lee, Thomas Zheng Jie Teng, Vishal G Shelat

Abstract

3

Carbohydrate antigen 19-9 (CA 19-9) is a cell surface glycoprotein complex most commonly associated with pancreatic ductal adenocarcinoma (PDAC). Koprowski first described it in 1979 using a mouse monoclonal antibody in a colorectal carcinoma cell line. Historically, it is one of the most commonly used tumor markers for diagnosing, managing, and prognosticating PDAC. Additionally, elevated CA 19-9 levels are used as an indication for surgery in suspected benign pancreatic conditions. Another common application of CA 19-9 in the biliary tract includes its use as an adjunct in diagnosing

Match Overview

1	Crossref 83 words Zineb Cherkaoui, Cristians González, Taiga Wakabayashi, Bastien Delattre et al. "A Standard Set of Value-Based Pa ..."	1%
2	Internet 43 words crawled on 30-Aug-2015 pancreas.imedpub.com	<1%
3	Internet 25 words crawled on 13-Oct-2015 www.ncbi.nlm.nih.gov	<1%
4	Internet 20 words crawled on 17-Jul-2020 conference.thoracic.org	<1%
5	Crossref 16 words Sunyoung Kim, Byung Kyu Park, Jeong Hun Seo, Jinyoung Choi et al. "Carbohydrate antigen 19-9 elevation without e ..."	<1%
6	Crossref 14 words Anand Bharathan, V. Sitaram. "Chapter 5 Tumor Markers ... GI and HPB Cancers", Springer Science and Business Med	<1%
7	Internet 14 words crawled on 05-Nov-2017 docplayer.net	<1%
8	Crossref 13 words Erin G. Brown, Robert J. Canter, Richard J. Bold. "Preopera tive CA 19-9 kinetics as a prognostic variable in resected ..."	<1%

CA 19-9, tumor marker. Past, present, and future.



Sign in



ALL

IMAGES

VIDEOS

689,000 Results

Any time ▾

CA 19-9: Biochemical and Clinical Aspects

<https://pubmed.ncbi.nlm.nih.gov/26530370>

CA19-9 (carbohydrate antigen **19-9**, also called **cancer antigen 19-9** or sialylated Lewis a antigen) is the most commonly used and best validated serum **tumor marker** for pancreatic **cancer** diagnosis in symptomatic patients and for monitoring therapy in patients with pancreatic adenocarcinoma. Normally sy ...

Cited by: 107**Author:** Salvatore Scarà, Patrizia Bottoni, Roberto S...**Publish Year:** 2015

Missing: future: | Must include: future.

CA 19-9 Tumor Marker | Stanford Health Care

<https://stanfordhealthcare.org/medical-tests/t/tumor-markers/types/ca-19-9.html> ▾

CA 19-9. The **CA 19-9 marker** is associated with cancers in the colon, stomach, and bile duct. Elevated levels of **CA 19-9** may indicate advanced **cancer** in the pancreas, but it is also associated with noncancerous conditions, including gallstones, pancreatitis, cirrhosis of the liver, and cholecystitis.

Missing: future: | Must include: future.

CA 19-9 – Pancreatic Cancer Action Network

<https://www.pancreasactionnetwork.org/facing-pancreatic-cancer/diagnosis/ca19-9>

Related searches

 ca 19 9 tumor marker **values** ca 19 9 tumor marker **ranges**

Search Tools

Turn off Hover Translation (关闭取词)

国内版

国际版

CA 19-9, tumor marker. Past, present, and future



ALL

IMAGES

VIDEOS

834,000 Results

Any time ▾

[CA 19-9: Biochemical and Clinical Aspects](https://pubmed.ncbi.nlm.nih.gov/26530370)

<https://pubmed.ncbi.nlm.nih.gov/26530370>

CA19-9 (carbohydrate antigen **19-9**, also called **cancer antigen 19-9** or sialylated Lewis a antigen) is the most commonly used and best validated serum **tumor marker** for pancreatic **cancer** diagnosis in symptomatic patients and for monitoring therapy in patients with pancreatic adenocarcinoma. Normally sy ...

Cited by: 113

Author: Salvatore Scarà, Patrizia Bottoni, Robert...

Publish Year: 2015

Missing: ~~future~~ | Must include: [future](#)

[Tumor Marker CA 19-9 for Assessing Pancreatic Cancer ...](https://www.cancertherapyadvisor.com/home/cancer...)

<https://www.cancertherapyadvisor.com/home/cancer...> ▾

Dec 19, 2013 - **CA 19-9** is an **important tumor marker** that can help guide the diagnosis and treatment of **pancreatic cancer**; however, it is always important ...

[CA 19-9 – Pancreatic Cancer Action Network](https://www.pancan.org/facing-pancreatic-cancer/diagnosis/ca19-9)

<https://www.pancan.org/facing-pancreatic-cancer/diagnosis/ca19-9> ▾

Dec 18, 2012 - **Carbohydrate antigen (CA) 19-9** is a type of antigen released by **pancreatic cancer cells**. It can also be referred to as a tumor marker. The CA 19-9 Radioimmunoassay (**RIA**) is a blood test that measures the CA 19-9 level in the blood. There is no blood test to find or diagnose **pancreatic cancer**.

When Is The CA 19-9 Test Performed?

Patients get the test after a

Why Is The CA 19-9 Test given?

Changes in CA 19-9 levels

How Is The CA 19-9 Test done?

A blood sample is taken from

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

166,000 Results

Any time ▾

Blood markers: past, present and future 5.1. CA 19-9. Carbohydrate antigen 19-9 (CA 19-9) is a modified Lewis (a) blood group antigen used as a tumor marker. CA 19-9 serum level does not fulfill the performance criteria required to be a reliable diagnostic marker .

Author: Aline Barhli, Jérôme Cros, Laurent Bartholin, Cindy Neuzillet, Cindy Neuzillet

Cited by: 13

Publish Year: 2018

[Prognostic stratification of resected pancreatic ductal ...](#)

www.sciencedirect.com/science/article/pii/S1590865818308892

Was this helpful?

[The Past, Present, and Future of Biomarkers: A Need for ...](#)

<https://clinicalgate.com/past-present-and-future...> ▾

The **carbohydrate antigen CA19-9** is a **tumor-associated antigen** released into the serum of patients with gastrointestinal (GI) cancers . **CA19-9** was originally identified and developed in the late 1970s and early 1980s, when researchers were in search of a better and more specific diagnostic tool than CEA levels for GI cancers [13 – 15] .

[Predictive value of carbohydrate antigen 19-9 in ...](#)

<https://www.sciencedirect.com/science/article/pii/S0360301603005248>

Sep 01, 2003 · Introduction. In recent years, **carbohydrate antigen (CA) 19-9** has been widely applied in clinical practice as a **tumor marker** for many malignancies, especially those of the digestive tract 1, 2, 3. The highest sensitivity of CA 19-9 for detection, therapy monitoring, and follow-up, with values up to 90%, can be achieved in carcinomas of the exocrine pancreas 4, 5.

Cited by: 97

Author: Oliver Micke, Frank Bruns, Rene Kurowski, ...

Publish Year: 2003