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Name of Journal: *World Journal of Gastrointestinal Surgery*

Manuscript NO: 64112

Manuscript Type: MINIREVIEWS

Multidisciplinary ¹² management of acute mesenteric ischemia: Surgery and endovascular ¹² intervention

Sakamoto T ¹² et al. Management of acute mesenteric ischemia

Takashi Sakamoto, Tadao Kubota, Hiraku Funakoshi, Alan Kawarai Lefor

⁶ Abstract

Acute mesenteric ischemia (AMI) is a rare cause of the "acute abdomen", characterized by impaired blood flow to the intestine. The principle of treatment is restoration of perfusion to ischemic bowel and resecting any necrotic intestine. Surgery and endovascular intervention are two complementary approaches to mesenteric ischemia. Endovascular intervention is not an alternative to the surgical approach, but it has the

Multidisciplinary management of acute mesenteric ischemia: surgeon



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Author: Sungho Lim, Pegge M Halandras, Carlos ...

Publish Year: 2019

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Initial management of acute mesenteric ischemia must focus on aggressive resuscitative measures. The aim is to improve systemic perfusion and prevent multisystem organ failure to the extent possible. The administration of crystalloid fluid initially, followed by blood as necessary, should start in ...

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Cited by: 15 **Author:** Sungho Lim, Pegge M Halandras, Carlos B...
Publish Year: 2019

Endovascular Therapy for Acute Mesenteric Ischemia: an ...

<https://pubmed.ncbi.nlm.nih.gov/26672589>

Abstract. **Acute mesenteric ischemia (AMI)** continues to carry high morbidity and mortality. **Endovascular** strategies have been increasingly used in the **management** of **AMI**. The purpose of this study was to evaluate the impact of **endovascular** therapy on outcomes of patients with **AMI**. The National **Surgical** Quality Improvement Program database was queried to identify all patients requiring emergency **surgical intervention** for **AMI**.

Cited by: 17 **Author:** Bernardino C Branco, Miguel F Montero-Ba...
Publish Year: 2015

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- Can a mesenteric ischemia lead to atherosclerosis? ▾
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Feedback

Revascularization of Acute Mesenteric Ischemia After ...

<https://pubmed.ncbi.nlm.nih.gov/26243208>

Objective: Arterial **acute mesenteric ischemia** (AAMI) is a vascular and gastroenterologic emergency, most often surgical, still associated with a poor prognosis and frequent short bowel syndrome in survivors. We report the results of revascularization in AAMI patients after the creation of an intestinal stroke center. Methods: Since July 2009, we developed a multimodal and **multidisciplinary** ...

Cited by: 34 **Author:** Amaud Roussel, Yves Castier, Alexandre N...
Publish Year: 2015

Acute mesenteric ischemia: guidelines of the World Society ...

<https://pubmed.ncbi.nlm.nih.gov/28794797>

Acute mesenteric ischemia (AMI) is typically defined as a group of diseases characterized by an interruption of the blood supply to varying portions of the small intestine, leading to **ischemia** and secondary inflammatory changes. If untreated, this process will eventuate in life threatening intestina ...

Cited by: 243 **Author:** Miklosh Bala, Jeffry Kashuk, Ernest E. Moo...
Publish Year: 2017

Diagnosis and Management of Acute Mesenteric Ischemia ...

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Initial management of acute mesenteric ischemia must focus on **aggressive resuscitative measures**. The aim is to improve systemic perfusion and prevent multisystem organ failure to the extent possible. The administration of crystalloid fluid initially, followed by blood as necessary, should start in the emergency department. Broad-spectrum antibiotics directed against normal gut flora should also be given prior to proceeding to the operating room. The permeability of the ischemic gut mucosa not only lends itself to l...

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Oct 25, 2018 · For **acute mesenteric** arterial occlusive disease, both **endovascular** and open revascularization techniques are viable options. Although there is lack of level 1 evidence, single-center retrospective studies and administrative database studies demonstrated that an **endovascular** first approach may have improved outcomes in the immediate postoperative period.

Contemporary Management of Acute Mesenteric Ischemia in ...

<https://journals.sagepub.com/doi/full/10.1177/1538574418805228>

Oct 25, 2018 · Although **endovascular repair** for **acute mesenteric ischemia** demonstrated improved

Mesenteric Ische

Medical Condition



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YES

A condition caused by inadequate blood supply to the small intestine that leads to permanent damage of the small intestine.

- Very rare (Fewer than 20,000 cases per year in US)
- Requires lab test or imaging
- Treatable by a medical professional
- Can last several days or weeks

Mesenteric ischemia is mainly caused by narrowing of the arteries that supply blood in the intestine. Sudden pain in the abdomen, stool with blood and pain experienced during meal times are the common symptoms. Treatment includes medication and surgical procedures.

Symptoms

The symptoms include:

Acute mesenteric ischemia:

- Sudden abdominal pain
- Blood in the stool
- Constipation

Chronic mesenteric ischemia:

- Vomiting
- Nausea
- Change in frequency of bowel movements
- Pain while eating
- Weight loss

Treatments

Treatment includes medication and surgical procedures.

Medication

- Anticoagulants: To prevent blood clots.
Heparin · Warfarin

Medical procedures: Angioplasty · Mesenteric artery bypass · Mesenteric endarterectomy

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Metabolomics of Diabetes in Pregnancy

https://pubmed.ncbi.nlm.nih.gov/28646358

Purpose of review: The purpose of this review is to describe ways in which **metabolomics** may enhance understanding of **gestational diabetes mellitus** (GDM) etiology and refine **current** diagnostic criteria. Recent findings: **Current** clinical recommendations suggest screening for GDM between 24 and 28 of **gestational** weeks using an oral glucose tolerance test.

Cited by: 18 Author: Carolyn F. McCabe, Wei Perng
Publish Year: 2017

Comprehensive analysis of serum metabolites in gestational ...

https://pubmed.ncbi.nlm.nih.gov/26677023

Gestational diabetes mellitus (GDM) refers to the first sign or onset of **diabetes mellitus** during pregnancy rather than progestation. In recent decades, more and more research has focused on the etiology and pathogenesis of GDM in order to further understand GDM **progress** and ...

Cited by: 31 Author: Tianhu Liu, Jiaxun Li, Fengcheng Xu, Meng...
Publish Year: 2016

PEOPLE ALSO ASK

- What is gestational diabetes mellitus (GDM) in pregnancy?
- Are there new insights into gestational glucose metabolism?
- How is serum metabonomics study of pregnant women with GDM?
- How does gestational diabetes affect women of all races?

Feedback

Metabolomic Biomarkers in Gestational Diabetes Mellitus: A ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8197243

Gestational diabetes mellitus (GDM) is a common pregnancy complication, characterised by carbohydrate intolerance with onset or first recognition during pregnancy. It develops during pregnancy in women whose pancreatic function is insufficient to overcome the insulin resistance associated with the pregnant state, resulting in hyperglycaemia.

Gestational Diabetes

Medical Condition



A condition in which women develop diabetes (high blood sugar) during pregnancy. Initially, it may not cause any symptoms. Excessive thirst, sweating and frequent urination may be noticed as it progresses.

- Common (More than 200,000 cases per year in US)
- Rarely requires lab test or imaging
- Treatable by a medical professional
- Can last several months or years

Hormonal variations during pregnancy is one of the major cause. Overweight and fatigue are a few early symptoms. It can be managed with nutritious diet and exercise. Medication is necessary only if sugar level is uncontrollable with diet and exercise.

Symptoms

This condition shows no or almost negligible symptoms in many women. For some the symptoms may include:

- Increased thirst
- Frequent urination