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Observational Study

Preliminary prospective study of real-time post-gastrectomy glycemic fluctuations during dumping symptoms using continuous glucose monitoring

Ri M *et al.* Glycemic profiles during dumping symptoms

¹ Motonari Ri, Souya Nunobe, Satoshi Ida, Naoki Ishizuka, Shinichiro Atsumi, Rie Makuuchi, ¹ Koshi Kumagai, Manabu Ohashi, Takeshi Sano

Abstract

BACKGROUND

Although dumping symptoms constitute the most common post-gastrectomy syndromes impairing patient quality of life, the causes, including blood sugar

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Jan 08, 2020 · Glucose fluctuation after gastrectomy represented by **dumping** syndrome is a well-known post-gastrectomy syndrome that negatively impacts patient quality of life. However, the current methods of **post-gastrectomy glucose monitoring** do not comprehensively capture the postoperative blood **glucose fluctuations** that characterize this. We used a **continuous glucose monitoring (CGM)** ...

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Author: Takeshi Kubota, Katsutoshi Shoda, Emi ...

Publish Year: 2020

[Continuous Glucose Monitoring of Glycemic Variability ...](#)

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Jul 17, 2020 · The aim of our **study** was to investigate the safety of intermittent fasting by examining **fluctuations** in **glucose** levels in people with diabetes, with or without a history of sleeve gastrectomy, **during** fasting and non-fasting periods compared with healthy controls **using a continuous glucose monitoring system (CGMS)** .

Author: Ebaa Al-Ozairi, Abeer El Samad, Jum... Publish Year: 2020

[Hypoglycemia after Roux-En-Y gastric bypass: detection ...](#)

<https://www.sciencedirect.com/science/article/pii/S1550728914004262>

May 01, 2015 · The local Ethical Committee approved the **study**. All patients provided written informed consent. The **study** included a 5-day **continuous glucose monitoring (CGM)** and a Mixed Meal Tolerance test (MMT). A control group of 5 morbidly obese patients with BMI of 37–46 underwent only 5-day **continuous glucose monitoring**.

[Continuous Glucose Monitoring in Bariatric Patients ...](#)

<https://link.springer.com/article/10.1007/s11695-018-03684-5> ▾

Feb 08, 2019 · Few investigations have been conducted that compared blood **glucose** in patients with diabetes mellitus (DM2) and morbid obesity who had undergone laparoscopic sleeve gastrectomy (LSG) or gastric bypass (LRYGB). We aimed to compare the effects of these procedures **using continuous glucose monitoring (CGM)**. We prospectively studied patients that had qualified for LSG or LRYGB.

Cited by: 2

Author: Michał Wysocki, Magdalena Szopa, Tom...

Publish Year: 2019

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[PDF] POST-GASTRECTOMY SYNDROMES: A REVIEW

<https://gut.bmj.com/content/gutjnl/1/3/183.full.pdf>

radiological studies is that byDuthieandMcKellar (1960). They examined 29 cases after Polya gastrectomy, using a non-flocculating barium sulphate micro-suspension to which was added 75 g. **glucose**. They confirmed that the stomach remnant nearly always empties very rapidly. In 20 cases it was empty within 10 minutes. Small intestine hypermotility ...

Cited by: 13 Author: C. F. W. Illingworth
Publish Year: 1960

PEOPLE ALSO ASK

- What are the symptoms of post-gastrectomy syndrome? ▾
- What are the effects of preoperative glucose management? ▾
- Can continuous glucose monitoring detect hypoglycemia? ▾
- How long does hypoglycemia last after gastric bypass surgery? ▾

Feedback

Continuous Glucose Monitoring of Glycemic Variability ...

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Jul 17, 2020 · The aim of our study was to investigate the safety of intermittent fasting by examining fluctuations in **glucose** levels in people with diabetes, with or without a history of sleeve gastrectomy, during fasting and non-fasting periods compared with healthy controls using a **continuous glucose monitoring** system (CGMS).

Author: Ebaa Al-Ozairi, Abeer El Samad, Juman... Publish Year: 2020

Hypoglycemia After Gastric Bypass Surgery | Diabetes Spectrum

<https://spectrum.diabetesjournals.org/content/25/4/217> ▾

Nov 01, 2012 · In Brief Severe hypoglycemia characterized by neuroglycopenic symptoms is a recently described and relatively uncommon complication of gastric bypass surgery. It occurs several months to years after surgery and may be distinct from the more commonly encountered **dumping** syndrome that occurs early in the postoperative course and usually improves with time.

Cited by: 13 Author: Ekta Singh, Adrian Vella
Publish Year: 2012

Nutrition - Nutrition after gastrectomy

<https://www.inmo.ie/article/printarticle/2732> ▾

Dumping syndrome Early symptoms (30-60 minutes post meal) include hypotension and tachycardia, and are due to the rapid emptying of the gastric remnant into the jejunum. Late symptoms (90-180 minutes post meal) are attributed to reactive hypoglycaemia following overproduction of insulin in response to rapid absorption of **glucose**.

Perioperative Hyperglycemia Management | Anesthesiology ...

<https://pubs.asahq.org/anesthesiology/article/126/3/547/19751/Perioperative...> ▾

In general surgery patients, observational and prospective randomized studies have shown that hyperglycemia is associated with increased rates of morbidity and mortality. 1–3,6,24 Improved **glycemic** control reduces the rate of hospital complications. 3,6 In a cross-sectional study, patients with **glucose** levels between 110 and 200 mg/dl (6.1 to ...

[PDF] Nutrition Post Gastrectomy - Queensland Health

https://www.health.qld.gov.au/_data/assets/pdf...

vegetables (using milk, butter, oil or cheese) • Mashed or soft-cooked vegetables (using milk, butter, oil or cheese.) Fruit • Fruit juice • Add fruit to milkshakes and blend to a smooth fluid consistency • Pureed or mashed canned/ stewed fruit • Pureed or mashed soft fresh fruit e.g. banana, paw paw, pear • Fruit juice

Post-Gastrectomy Syndrome: Symptoms, Causes, Tests and ...

<https://my.clevelandclinic.org/health/diseases/...> ▾

< Post-Gastrectomy Syndrome Causes Symptoms Complications >

The primary function of the stomach is to act as a reservoir, initiate the digestive process, and release its contents gradually into the duodenum so that digestion in the small bowel is optimally performed.

See more on my.clevelandclinic.org

Dumping syndrome after esophageal, gastric or bariatric ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/obr.12467>

Oct 17, 2016 · Background. **Dumping** syndrome, a common complication of esophageal, gastric or bariatric surgery, includes early and late **dumping symptoms**. Early **dumping** occurs within 1 h after eating, when rapid emptying of food into the small intestine triggers rapid fluid shifts into the intestinal lumen and release of gastrointestinal hormones, resulting in gastrointestinal and vasomotor **symptoms**.

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Author: Ebaa Al-Ozairi, Abeer El Samad, Juman...

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Utility of continuous glucose monitoring following ...

<https://www.researchgate.net/publication/338458034...>

Request PDF | Utility of **continuous glucose monitoring** following gastrectomy | Background **Glucose** fluctuation after gastrectomy represented by **dumping** syndrome is a well-known post-gastrectomy ...

Prospective Study of Malabsorption and Malnutrition After ...

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In a **prospective study** of ... **Continuous glucose monitoring** of gastrectomy participants over two weeks of normal lifestyle identified an increased incidence of day and night time hypoglycaemia ...

Estimated Reading Time: 9 mins

Dumping syndrome after esophageal, gastric or bariatric ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/obr.12467>

Oct 17, 2016 · Several small **studies** demonstrated that acarbose improved **glucose** tolerance, reduced GI hormone release, reduced the incidence of hypoglycemia and improved **symptoms** in patients with **dumping** syndrome (Table 3) 8, 34, 53, 58-66. However, the use of acarbose as a treatment approach for