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Associations of β -Cell Function and Insulin Resistance ...

<https://www.liebertpub.com/doi/10.1089/dia.2012.0259>

Apr 08, 2013 · Aim: This study examined β -cell function and insulin resistance (homeostasis model assessment-insulin resistance [HOMA-IR]) in Asian Indian youth with type 2 diabetes mellitus (T2DM...

Cited by: 37 Author: Viswanathan Mohan, Anandakumar Amul...

Publish Year: 2013

β -Cell function or insulin resistance was associated with ...

<https://drc.bmj.com/content/8/1/e001060>

Sep 01, 2020 · Postpartum β -cell dysfunction, insulin resistance (IR) and obesity are all associated with postpartum type 2 diabetes. However, very few studies have examined the joint association of...

Cited by: 1 Author: Yuxin Fan, Leishen Wang, Huikun Liu, Sh...

Publish Year: 2020 Estimated Reading Time: 10 mins

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Association of Insulin Resistance and β -cell Function With ...
https://www.frontiersin.org/articles/10.3389/fendo.2021.554604 -
Mar 25, 2021 Introduction: Bone metabolism and the blood glucose milieu are considered to be closely related (). It is well recognized that diabetes or impaired glucose metabolism could affect bone health, contributing to decreased bone formation, increased bone marrow adiposity and increased risk of fracture (2, 3). In addition, there is a tight connection between bone metabolism and insulin resistance ...
Author: Hui Guo, Chiyu Wang, Boren Jiang, Sha... Publish Year: 2021

β -Cell function or insulin resistance was associated with ...
https://pubmed.ncbi.nlm.nih.gov/32900701
Introduction: To evaluate the single association of postpartum β -cell dysfunction and insulin resistance (IR), as well as different combinations of postpartum β -cell dysfunction, IR, obesity, and a history of gestational diabetes mellitus (GDM) with postpartum type 2 diabetes risk. Research design and methods: The study included 1263 women with prior GDM and 705 women without GDM.
Cited by: 1 Author: Yuxin Fan, Leishen Wang, Huijun Liu, Shua...
Publish Year: 2020

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Is it common for children to have insulin resistance?

What kind of disease is caused by insulin resistance?

Is there a link between beta cell dysfunction and insulin resistance?

Is there an increase in type 2 diabetes in children?

Feedback

Association of insulin resistance and β -cell dysfunction ...
https://pubmed.ncbi.nlm.nih.gov/31879247
Background: National investigations on the interaction of insulin resistance, β -cell dysfunction, and obesity with the development of diabetes are scarce in China. We aimed to investigate the individual and joint associations of insulin resistance and β -cell dysfunction with incident diabetes, and to examine the modifying effect of BMI and waist circumference on these associations among ...
Cited by: 21 Author: Tiange Wang, Jie Li, Lixin Shi, Gang Chen,...
Publish Year: 2020

Beta Cell Dysfunction and Insulin Resistance
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3608918
Mar 27, 2013 Introduction: Both beta cell dysfunction and insulin resistance lead to persistent hyperglycemia which characterizes type 2 diabetes. Many of the susceptibility genes associated with type 2 diabetes by genome-wide investigations (GWAS) were identified as regulators of cell turnover or regeneration (McCarthy and Hattersley, 2008). Most risk variants for type 2 diabetes in healthy ...
Cited by: 469 Author: Marlon E. Cerf
Publish Year: 2013

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Insulin Resistance

Medical Condition

A condition where the body does not respond to the hormone called insulin and unable to convert the glucose into energy.

Very common (More than 3 million cases per year in US)

Requires lab test or imaging

Treatments can help manage condition, no known cure

Can last several years or be lifelong

The exact cause is not known, but contributing factors include obesity, sedentary lifestyle, and chronic stress. Insulin resistance is generally asymptomatic. Symptoms of high blood sugar include lethargy, difficulty concentrating, increased thirst and hunger. Treatment mainly includes self-care practices such as physical exercise and maintaining a healthy weight.

Symptoms

Insulin resistance does not present with symptoms until it leads to high blood sugar levels, which may cause:

- Darkening of armpits, neck, and groin
- Absence of menstruation
- Lethargy
- Brain fog
- Hunger
- Frequent urination
- Extreme thirst
- Abdominal Obesity

Treatments

Treatment mainly includes self-care practices such as physical exercise and maintaining a healthy weight.

Medication

- Thiazolidinediones: To treat type 2 diabetes associated with insulin resistance.
Pioglitazone
- Biguanide: To treat diabetes associated with the condition.
Metformin

Self care

- Weight loss to reduce complications
- Low carbohydrate diet
- Physical exercise for at least 30 minutes a day
- A balanced, healthy diet including fruits, vegetables and whole grains

Medical procedures: Bariatric surgery

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Manuscript NO: 60717

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Association of β -cell function and insulin resistance with pediatric type 2 diabetes among Chinese children

Xu ZR *et al.* β -cell function and pediatric T2DM

Zhen-Ran Xu, Hong-Wei Du, Lan-Wei Cui, Rong-Xiu Zheng, Gui-Mei Li, Hai-Yan Wei, Fei-Yu Lu, Li-Li Chen, Chu-Shan Wu, Shu-Xin Zhang, Shu-Le Zhang, Fang Liu, Miao-Ying Zhang, Zhou Pei, Cheng-Jun Sun, Jing Wu, Fei-Hong Luo

Abstract

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Different associations of diabetes with β -cell dysfunction ...

<https://pubmed.ncbi.nlm.nih.gov/24914241>

Objective: To examine the relative contributions of β -cell dysfunction and insulin resistance to postpartum diabetes risk among obese and nonobese women with prior gestational diabetes mellitus (GDM). Research design and methods: We performed a cross-sectional survey 1-5 years after 1,263 women who had GDM gave birth. Polytomous logistic regression models were used to assess the ...

Cited by: 67

Author: Weiqin Li, Shuang Zhang, Huikun Liu, Lei...

Publish Year: 2014

Frontiers | Insulin Resistance in Children | Endocrinology

<https://www.frontiersin.org/articles/10.3389/fendo.2019.00342> ▾

Jun 04, 2019 · Insulin resistance (IR) is a pathological condition strongly associated with obesity. However, corticosteroids or growth hormone therapy and genetic diseases may affect insulin sensitivity lifelong. In obese children and adolescents of any age there is an evident association between IR and an increased prevalence of type 2 diabetes (T2D) and other elements contributing to the metabolic ...

Cited by: 56

Author: Veronica Maria Tagi, Cosimo Giannini, Fr...

Publish Year: 2019

PEOPLE ALSO ASK

Is it common for children to have insulin resistance?



What kind of disease is caused by insulin resistance?



Is there an increase in type 2 diabetes in children?



How many children with Type 1 diabetes are obese?



Feedback

Different associations of diabetes with β -cell dysfunction ...

<https://www.ncbi.nlm.nih.gov/pubmed/24914241>

1. Diabetes Care. 2014 Sep;37(9):2533-9. doi: 10.2337/dc14-0573. Epub 2014 Jun 9. Different associations of diabetes with β -cell dysfunction and insulin resistance among obese and nonobese ...