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Name of Journal: *World Journal of Diabetes*

Manuscript NO: 57734

Manuscript Type: ORIGINAL ARTICLE

Clinical Trials Study

Factors Associated with Improvement in the Waist-to-height Ratio Among Newly Diagnosed Type 2 Diabetes Patients Treated with Acarbose or Metformin: A Randomized Clinical Trial Study

Lu-Lu Song, Xin Wang, Zhao-Jun Yang, Xiao-Mu Kong, Xiao-Ping Chen, Bo Zhang, Wen-Ying Yang

Abstract

BACKGROUND

The waist-to-height ratio (WHtR) is a promising anthropometric measure used to evaluate cardiovascular risk in diabetes and metabolic syndrome patients. The Metformin and AcaRbose in Chinese as the initial Hypoglycaemic treatment trial demonstrated that acarbose and metformin reduced the WHtR after 24 wk of treatment.

AIM



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Introduction. Since Ilkova et al. 1 first reported the use of short-term continuous subcutaneous insulin infusion (CSII) in patients with newly diagnosed type 2 diabetes mellitus in 1997, their idea of transient intensive insulin treatment inducing long-term drug-free glycemic remission has been put into clinical practice, and evidence has accumulated for its merit. 2–5 Although the idea ...

Cited by: 16 Author: Zhimin Huang, Xuesi Wan, Juan Liu, Wan...
Publish Year: 2013

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Type 2 Diabetes Can Be Prevented With Early ...

https://care.diabetesjournals.org/content/34/Supplement_2/S202

May 01, 2011 · In the U.S., ~21 × 10⁶ individuals have type 2 diabetes, and twice as many have impaired glucose tolerance (IGT). Approximately 40–50% of individuals with IGT will progress to type 2 diabetes over their lifetime. Therefore, treatment of high-risk individuals with IGT to prevent type 2 diabetes has important medical, economic, social, and human implications.

Cited by: 158 Author: Ralph A. DeFronzo, Muhammad Abdul-G...
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Feb 15, 2013 · After this **study**, the UKPDS, the largest **randomized clinical trial** in the **newly-diagnosed type 2** diabetic population largely free of prior major vascular events, randomly assigned treatment with **metformin** to a subgroup of overweight individuals (>120% of ideal body weight).

Cited by: 378

Author: Lilian Beatriz Aguayo Rojas, Marilia Brito ...

Publish Year: 2013

[Strategies for Optimizing Glycemic Control and ...](#)

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In contrast, in another arm of the UKPDS **trial** in which obese **patients** with **type 2 DM** were **randomized** to either **metformin** or conventional therapy (primarily diet), a lower all-cause mortality was found with **metformin** therapy. 7 A median HbA 1c value of 7.4% was achieved in the group assigned to **metformin** vs an HbA 1c value of 8.0% in the ...

Cited by: 67

Author: James H. O'Keefe, Mohammad Abuanna...

Publish Year: 2011

[Metformin may reduce oral cancer risk in patients with ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4811512>

Jan 12, 2016 · **Metformin** users in **patients** with **diabetes** were found to have a significantly 34% lower risk of head and neck cancer (adjusted hazard **ratio** 0.66, 95% confidence interval 0.55-0.79) and its use was **associated** with an **improvement** in the overall survival of **patients** with head and neck cancer [16, 17]. However, in the **study** conducted in Taiwan, when ...

Cited by: 15

Author: Chin-Hsiao Tseng



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Feb 15, 2013 · After this **study**, the UKPDS, the largest **randomized clinical trial** in the **newly-diagnosed type 2** diabetic population largely free of prior major vascular events, randomly assigned treatment with **metformin** to a subgroup of overweight individuals (>120% of ideal body weight).

Cited by: 378 **Author:** Lilian Beatriz Aguayo Rojas, Marilia Brito ...
Publish Year: 2013

[Type 2 Diabetes Therapies: A STEPS Approach - American ...](#)

<https://www.aafp.org/afp/2019/0215/p237.html>

May 15, 2020 · A concise way to evaluate pharmacotherapy options for **type 2 diabetes** mellitus is to use the five patient-oriented STEPS criteria: safety, tolerability, efficacy, price, and simplicity. The first ...

Author: Joshua Steinberg, Lyndsay Carlson **Publish Year:** 2019

[Post-meal β-cell function predicts the efficacy of ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4057801>

Methods. Fifty-one **patients** (M/F: 25/26, mean age: 53.7 ± 8.2 years, mean glycated hemoglobin [HbA_{1c}] 8.4 ± 1.2%) with T2DM inadequately controlled with **metformin** were **randomized** to add-on glibenclamide or **acarbose** for 16 weeks. Before and after combination therapy, the subjects underwent a 2-hour liquid mixed meal tolerance test to determine insulin secretion (HOMA-β, insulinogenic index ...

Cited by: 6 **Author:** Po-Hsun Chen, Yi-Ting Tsai, Jun-Sing Wa...
Publish Year: 2014

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