

Name of Journal: *World Journal of Diabetes*

Manuscript NO: 41868

Manuscript Type: REVIEW

Update on biomarkers of glycemic control

Krhač M *et al.* Biomarkers of glycemic control

Maja Krhač, Marijana Vučić Lovrenčić

Abstract

Attaining and maintaining good glycemic control is a cornerstone of diabetes care. The monitoring of glycemic control is currently based on the self-monitoring of blood glucose (SMBG) and laboratory testing for hemoglobin A1c (HbA1c), which is a surrogate biochemical marker of the average glycemia level over the previous 2-3 mo period. Although hyperglycemia is a key biochemical feature of diabetes, both the level of and exposure to high glucose, as well as glycemic variability, contribute to the pathogenesis of diabetic complications and follow different patterns in type 1 and type 2 diabetes. HbA1c provides a valuable, standardized and evidence-based parameter that is relevant for clinical decision making, but several biological and analytical confounders limit its accuracy in reflecting true glycemia. It has become apparent in recent years that other glycated proteins such as fructosamine, glycated albumin, and the nutritional monosaccharide 1,5-anhydroglucitol, as well as integrated measures from direct glucose

Match Overview

1	Crossref 43 words Chiara Bellia, Martina Zaninotto, Chiara Cosma, Luisa Agnello et al. "Clinical usefulness of Glycated Albumin in the ..."	1%
2	Internet 42 words crawled on 06-Jan-2018 citeseerx.ist.psu.edu	1%
3	Internet 32 words crawled on 27-Mar-2009 care.diabetesjournals.org	1%
4	Internet 21 words crawled on 11-Sep-2018 www.tandfonline.com	<1%
5	Internet 16 words crawled on 10-Oct-2012 www.ganzimmun.de	<1%
6	Internet 15 words crawled on 09-Jul-2018 mdpi.com	<1%
7	Crossref 15 words A H Berg. "Haemoglobin A1c analysis in the management ... of patients with diabetes: from chaos to harmony", <i>Journa</i>	<1%
8	Internet 15 words crawled on 25-Feb-2012 www.a1cnw.com	<1%

找到约 1,740,000 条结果 (用时 0.42 秒)

Google 学术 : Update on biomarkers of glyceimic control

... , obesity, and hepatic **biomarkers** in patients with type 2 ... - **Buse** - 被引用次数 : 303

... risk factors and hepatic **biomarkers** in patients with ... - **Klonoff** - 被引用次数 : 912

... on **glyceimic control** and inflammatory **biomarkers** ... - **Pradhan** - 被引用次数 : 109

Update on glyceimic control for the treatment of diabetic kidney disease.

<https://www.ncbi.nlm.nih.gov/pubmed/25971619> ▼ 翻译此页

作者 : GN Nadkarni - 2015 - 被引用次数 : 6 - 相关文章

Update on **glyceimic control** for the treatment of diabetic kidney disease. ... the future, a personalized approach using **biomarkers** might help identify patients most ...

Alternative biomarkers for assessing glyceimic control in diabetes ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4504993/> ▼ 翻译此页

作者 : JE Lee - 2015 - 被引用次数 : 38 - 相关文章

2015年6月30日 - Serum fructosamine and GA have been proposed useful tools for monitoring of short-term **glyceimic control**. These **biomarkers** not only reflect ...

Abstract · Introduction · Limitations of HbA1c · Alternative biomarkers

The Challenge of the Use of Glyceimic Biomarkers in Diabetes ...

spectrum.diabetesjournals.org/content/25/3/141 ▼ 翻译此页

作者 : LAC Wright - 2012 - 被引用次数 : 15 - 相关文章

Frequent evaluation, as well as precise measurement, of **glyceimic control** is ... One problem is that there is not a perfect serum **biomarker of glyceimic** variability.

Use of Biomarkers in Predicting the Onset, Monitoring the Progression ...

clinchem.aaccnls.org/content/63/1/186 ▼ 翻译此页

[全部](#)[新闻](#)[图片](#)[视频](#)[购物](#)[更多](#)[设置](#)[工具](#)

找到约 189,000 条结果 (用时 0.49 秒)

Google 学术: Update on Biomarkers of Glycaemic Control

Association between glycaemic control and serum lipid ... - VinodMahato - 被引用次数: 95

Biomarkers of oxidative stress in red blood cells. - Pandey - 被引用次数: 109

... cause of poor glycaemic control in obese diabetic ... - Leibowitz - 被引用次数: 217

Intensive glycaemic control and cardiovascular disease: an update.

<https://www.ncbi.nlm.nih.gov/pubmed/20404853> ▾ 翻译此页

作者: A Brown - 2010 - 被引用次数: 139 - 相关文章

2018年4月20日 - Intensive glycaemic control and cardiovascular disease: an update. ... Biomarkers/ blood; Blood Glucose/metabolism*; Cardiovascular Diseases/ ...

Assessment of markers of glycaemic control in diabetic patients with ...

<https://www.ncbi.nlm.nih.gov/pubmed/21883672> ▾ 翻译此页

作者: FE Vos - 2012 - 被引用次数: 68 - 相关文章

Nephrology (Carlton). 2012 Feb;17(2):182-8. doi: 10.1111/j.1440-1797.2011.01517.x. Assessment of markers of glycaemic control in diabetic patients with ...

Choosing markers of glycaemic control during clinical trial design

blog.profil.com/blog/markers-for-glycaemic-control-in-a-clinical-trial ▾ 翻译此页

2016年4月13日 - Due to its high specificity and reproducibility, HbA1c is an important diagnostic tool and serves as a gold standard biomarker for glucose control ...

Nontraditional Markers of Glycemia | Diabetes Care

care.diabetesjournals.org/content/34/4/960 ▾ 翻译此页

作者: E Selvin - 2011 - 被引用次数: 91 - 相关文章

These serum markers may be useful as adjuncts to HbA1c to provide information on short-term (e.g., 2–4 weeks) glycaemic control and glycemic excursions, ...

[全部](#)[新闻](#)[图片](#)[视频](#)[购物](#)[更多](#)[设置](#)[工具](#)

找到约 1,880,000 条结果 (用时 0.46 秒)

Google 学术: Update on biomarkers of glycemic control

... , obesity, and hepatic **biomarkers** in patients with type 2 ... - **Buse** - 被引用次数: 303

... risk factors and hepatic **biomarkers** in patients with ... - **Klonoff** - 被引用次数: 912

... on **glycemic control** and inflammatory **biomarkers** ... - **Pradhan** - 被引用次数: 109

Intensive glycemic control and cardiovascular disease: an update.

<https://www.ncbi.nlm.nih.gov/pubmed/20404853> ▾ 翻译此页

作者: A Brown - 2010 - 被引用次数: 142 - 相关文章

2018年4月20日 - Intensive **glycemic control** and cardiovascular disease: an **update**. ... **Biomarkers**/ blood; Blood Glucose/metabolism*; Cardiovascular Diseases/ ...

ACP Update: HbA1c Targets for Glycemic Control in Type 2 Diabetes ...

<https://www.renalandurologynews.com/diabetes/...diabetes...updates...glyce...> ▾ 翻译此页

2018年3月7日 - (HealthDay News) — Guidance has been developed for hemoglobin A1c (HbA1c) targets for **glycemic control** among nonpregnant adults with ...

Hemoglobin A 1c Targets for Glycemic Control With Pharmacologic ...

annals.org/.../hemoglobin-1c-targets-glycemic-control-pharmacologic-therap... - 翻译此页

作者: A Qaseem - 被引用次数: 43 - 相关文章

2018年3月6日 - Clinicians should personalize goals for **glycemic control** in patients with interpreting HbA1c, fructosamine and other glycemic **biomarker** results. of type 2 **diabetes** mellitus: a clinical practice guideline **update** from the ...

Predicting Type 1 Diabetes Using Biomarkers | Diabetes Care

care.diabetesjournals.org/content/38/6/989 ▾ 翻译此页

作者: E Bonifacio - 2015 - 被引用次数: 72 - 相关文章

This perspective proposes that there is now sufficient evidence to allow a broader use of islet autoantibodies as **biomarkers** to diagnose type 1 **diabetes** that is ...

Online Ahead of Print - Diabetes Care