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**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 61508

**Manuscript Type:** CASE REPORT

**Hb Fukuoka caused unexpected HbA<sub>1c</sub> results: A case report**

**Hb Fukuoka caused unexpected HbA<sub>1c</sub> results: A case report**

## Abstract

### BACKGROUND

Glycated hemoglobin (HbA<sub>1c</sub>) is an indicator that is used to diagnose and monitor the treatment of diabetes. Many factors can affect the detection of HbA<sub>1c</sub>. One of the most important of these factors is the hemoglobin(Hb) variant. Here, we report a rare Hb variant and evaluate its effect on HbA<sub>1c</sub>.

### CASE SUMMARY

A 35-year-old male was suspected of harboring a Hb variant following the measurement of HbA<sub>1c</sub> with the Variant II Turbo 2.0 hemoglobin detection system.



Hb Fukuoka caused unexpected HbA1c results: A case report



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<https://www.sciencedirect.com/science/article/pii/S1056872709000956>

Jan 01, 2011 · HbA1c measurement by immunoassay revealed an unusually low HbA1c of 3.9%. Hb electrophoresis revealed an aberrant Hb. The ESI mass spectrum of the **intact** Hb sample revealed a... +

Cited by: 12

Author: Nina Jain, Mehmet Kesimer, James D. H...

Publish Year: 2011

### Erroneous HbA1c results in a patient with elevated HbC and ...

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Nov 01, 2016 · We describe a case where HbA1c was not reliably measured by any available method. • Immunoassays yielded falsely low HbA1c. • HPLC and capillary electrophoresis suggested an unusual...

Author: Joy Adekanmbi, Trefor Higgins, Karina... Publish Year: 2016

#### PEOPLE ALSO ASK

When your HbA1c is bordering the cutoffs? ▾

What is the background of HbA1c? ▾

How are HbA1c levels related to haemoglobin levels? ▾

What is the difference between fasting glucose and HbA1c? ▾

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### (PDF) Heterozygote Hemoglobin G-Coushatta as the Cause ...

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Unexpected hemoglobin A1c results. Clin Chem 2011 ... gave aberrant HbA1c results. Hb variants can affect determination of HbA1c levels with some methods. ... we report the case of a 52-year-old ...

### [PDF] Visual inspection of chromatograms assist interpretation ...

<https://core.ac.uk/download/pdf/195314993.pdf>

HPLC is one of the common assays for HbA1c measurement (8), and abnormal HPLC chromatograms may inform clinicians and laboratory staff of potential interferences. In the presented case, the HPLC...





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## Spuriously high HbA1c due to the presence of haemoglobin ...

<https://www.researchgate.net/publication/49655413...>

Various assay methods are used to measure **HbA1c** and many factors may interfere with its measurement according to assay method used, causing falsely high or low **results**. To **report a case** of ...

## [PDF] CASE REPORT Immeasurable glycosylated haemoglobin: a ...

<https://casereports.bmj.com/content/casereports/2013/bcr-2013-200307.full.pdf>

tion of Hb was affected causing an immeasurable HbA1c. This case demonstrates that an immeasurable HbA1c may be an indicator of extremely severe and potentially fatal haemolysis. Learning points When interpreting the results of a glycosylated haemoglobin (HbA1c) level, factors affecting the life span of the red blood cells should be

### PEOPLE ALSO ASK

What is the background of HbA1c? ▼

How are HbA1c levels related to haemoglobin levels? ▼

What is the relationship between HbA1c and anaemic? ▼

What is the reference range for HbA1c? ▼

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## Error! Hemoglobin A1c Outside of Range | The Journal of ...

<https://academic.oup.com/jalm/advance-article/doi/...> ▼



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<https://www.researchgate.net/publication/49795698...>



The HbA1c levels were 2.9% and 4%. These **results** alerted us to a possible presence of hemoglobinopathy. In the **hemoglobin** variant analysis, HbA2 levels were detected as ...  
**Estimated Reading Time:** 9 mins

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[Led Astray by Hemoglobin A1c: A Case of Misdiagnosis of ...](#)

<https://journals.sagepub.com/doi/full/10.1177/2324709616628549>



Jan 29, 2016 · **Hemoglobin A1c (A1c)** is used frequently to diagnose and treat diabetes mellitus. Therefore, it is important be aware of factors that may interfere with the accuracy of **A1c** measurements. This is a **case** of a rare **hemoglobin** variant that falsely...  
**Cited by:** 1      **Author:** Jean Chen, Amy Diesburg-Stanwoo...  
**Publish Year:** 2016      **Estimated Reading Time:** 9 mins

PEOPLE ALSO ASK

- What is hemoglobin A1c? ▾
- What are the complications of hemoglobin A1c? ▾
- How are HbA1c levels related to haemoglobin levels? ▾
- Is the hemoglobin A1c test a diabetic truth detector? ▾

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<https://academic.oup.com/labmed/article/46/3/221/2657866> ▾

< **Abstract** Case Summary Discussion Laboratory Consultation For Th >

**Diabetes mellitus (DM)** is a syndrome of chronic hyperglycemia that can lead to complications as a result of macro- and microlevel vascular damage. The results of landmark clinical trials such as the Diabetes Control and Complications Trial (DCCT) and the United Kingdom Prospective Diabetes Study Group (UKPDS) have established HbA1c as the most reliable marker to monitor glycemic control over a set period. In 2009, the American Diabetes Association (ADA) recommended HbA1c testing for the diagnos...

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