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Hb Fukuoka caused unexpected HbA_{1c} results: A case report

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Abstract

BACKGROUND

Glycated hemoglobin (HbA_{1c}) is an indicator that is used to diagnose and monitor the treatment of diabetes. Many factors can affect the detection of HbA_{1c}. 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_{1c}.

CASE SUMMARY

A 35-year-old male was suspected of harboring a Hb variant following the measurement of HbA_{1c} with the Variant II Turbo 2.0 hemoglobin detection system

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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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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 ...

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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

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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 ...

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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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