



Casestudy # 5 Effects of other Diseases on the Cardiovascular System

Effects of other Diseases on the Cardiovascular System

Diabetes, kidney and thyroid disease as well as a number of other diseases are also manifested in cardiac parameter changes, in particular heart rate variability changes.

With **clue medical**, all of the aforementioned groups can be easily tested and monitored in the course of disease.



The 65 year old patient M.B., was suspected of having diabetes mellitus.

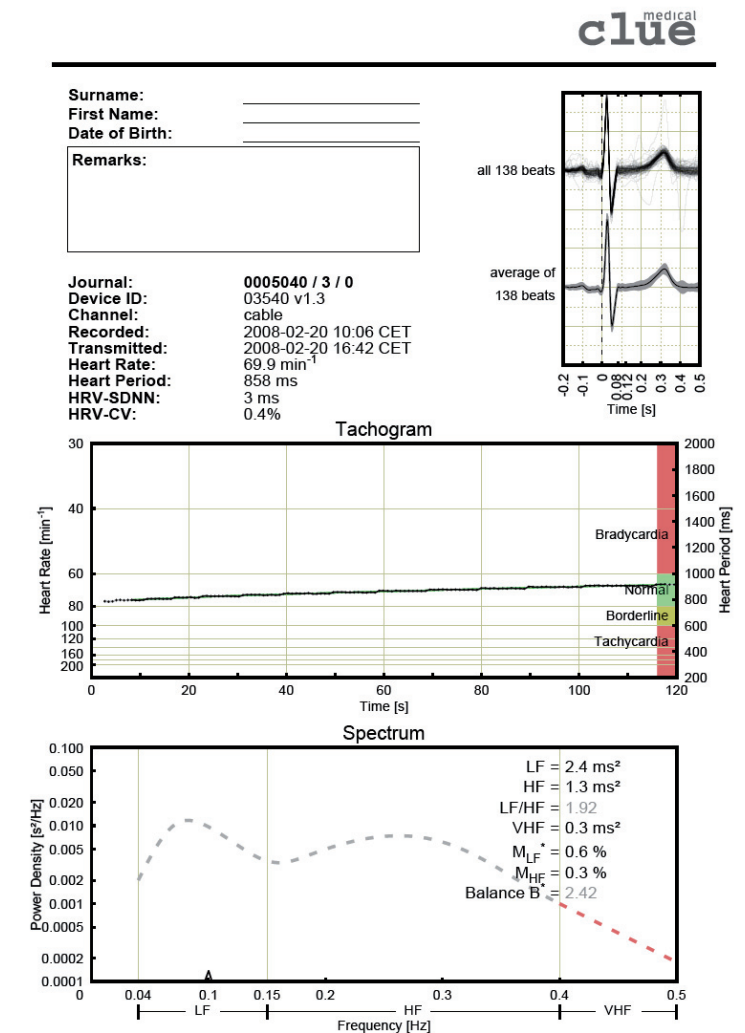
A test with **clue medical** showed a considerably reduced heart rate variability.

This strengthened the suspicion that the patient was suffering from long-standing untreated diabetes.

In the HbA1C test ultimately performed, a value of over 10 (normal: up to 6) was found and the diagnosis was confirmed. The patient was started on insulin therapy.

Since then, the patient has been well controlled and properly treated.

Casestudy # 5





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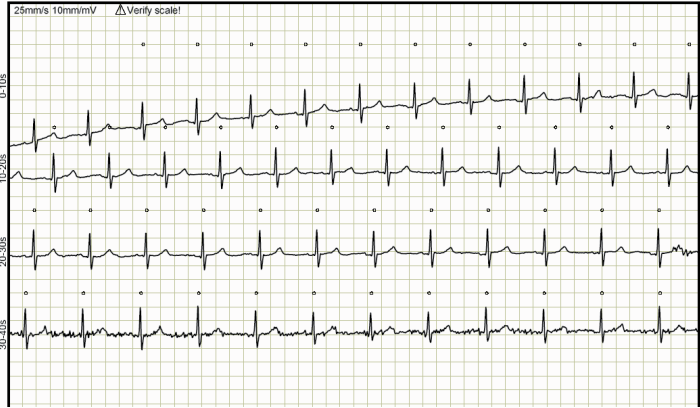
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Channel: cable

Recorded: 2008-02-20 10:06 CET

Transmitted: 2008-02-20 16:42 CET



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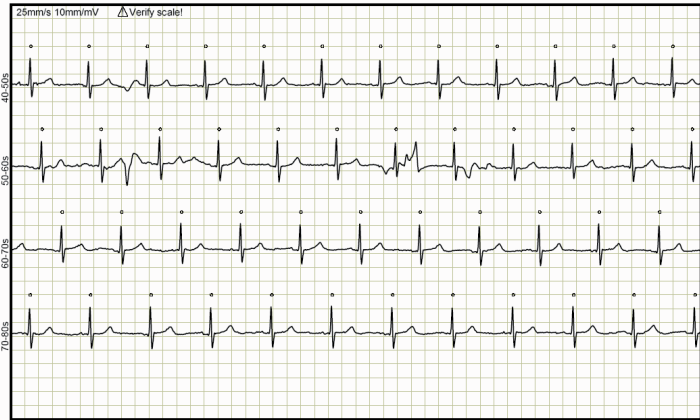
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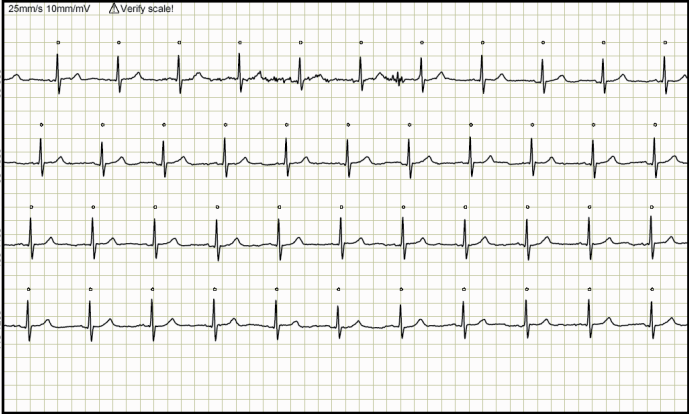
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Use of clue medical

Even with non-cardiac diseases such as diabetes, kidney and thyroid disease, measurement of heart rate variability using **clue medical** can provide interesting additional information with prognostic significance.

Literature

Heart rate variability (HRV) in kidney failure: measurement and consequences of reduced HRV

Reena Ranpuria¹,
Martica Hall², Chris T. Chan³
and Mark Unruh¹ Nephrol
Dial Transplant (2008)
23: 444–449

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Rep. 2006 Dec;6(6):424–30.

Diabetic Autonomic Neuropathy

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Raelene E. Maser, PHD,
Braxton D. Mitchell,
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1553–1579, 2003