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New technological solutions significantly increase ease-of-use and contribute to minimizing test errors

Latest development: Strip-free blood glucose monitoring

Healthcare professionals and people with diabetes alike have long demanded to make the monitoring of blood glucose as easy as possible. A study conducted by the Institute for Diabetes-Technology indicates that simplifying the monitoring process by reducing the number of handling steps, necessary to perform a blood glucose measurement, reduces the risk of errors.ⁱ The Accu-Chek Mobile system is a device which enables people with diabetes to test their blood glucose levels in ten handling steps, these include the following: Open the tip cover, obtain the blood sample, apply the sample to the test area and after five seconds read the result. As the system provides 50 tests on a continuous tape, stored in a test cassette, there is no need to handle single test strips. Additionally, six lancets in an integrated drum included in the lancet device supersede the handling of single lancets.

Significant reduction of handling steps proved in a study – up to 71%

The study “The Accu-Chek Mobile System - Handling step & potential handling error analysis” compared six blood glucose monitoring systems and the respective lancing devices. The purpose of the study was to determine which handling problems can occur during blood glucose monitoring and which consequences these problem potentially have. Another question raised was, whether a less complicated handling leads to a reduced number of errors. Compared to the other evaluated systemsⁱⁱ, the Accu-Chek Mobile system requires the lowest number of handling steps, reducing them by up to 71% for one measurement. Due to the fact that the system makes the handling of single strips obsolete and due to the

ⁱ Baumstark A, Ruhland K, Freckmann G, Haug C. Handhabungs-Schritt und Fehlerpotenzial-Analyse bei Blutzuckermesssystemen mit und ohne Blutzuckerteststreifen. Diabetologie und Stoffwechsel 2009, 4 (2): FV 28.

ⁱⁱ Accu-Chek Compact Plus, Accu-Chek Aviva, Ascensia Breeze 2, Bayer Contour, FreeStyle Lite, OneTouch Ultra 2

implementation of automatic coding, the Accu-Chek Mobile system reduces the frequency of possible errors by 8.57 %. By taking additional features like the lancet drum or the automatic expiry check into account, possible errors can be reduced by up to 19.33%.

The field test: People with diabetes on the Accu-Chek Mobile system

A recent field test conducted by Roche Diabetes Care among 970 users of the new device confirms the results obtained in the study. It furthermore shows that the system helps to overcome barriers regarding the non-adherence to SMBG.ⁱⁱⁱ Whether at home or on the go, people with diabetes using the device stated they find the system more convenient to use and are therefore able to maintain their SMBG routine. Katrin H. from Basel, Switzerland, says: “I love the sophisticated design. I can take the system everywhere and do not have to worry about single strips any longer.” By making the use of single strips and the handling of waste obsolete, the Accu-Chek Mobile system takes a new pioneering direction that has long been demanded by many people dealing with diabetes. The Accu-Chek Mobile system is the first monitoring system that actively helps to prevent numerous errors in measurements. The device not only contributes to patients testing their blood glucose regularly and properly, but also supports healthcare professionals in optimizing therapy and motivate patients to change their routines respectively.

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ⁱⁱⁱ Roche Diabetes Care, Data on file.