response to determining that the concentration of hydroxybutyrate is above a predetermined value. In a further embodiment of this form, a quantitative indication representative of the measured glucose concentration is automatically provided regardless of the value of the measured glucose concentration. In a yet further embodiment, each measured concentration of hydroxybutyrate is stored or otherwise retained regardless of whether that measured concentration is above a predetermined value in order to permit trending analysis to be conducted with respect to all measured concentrations of hydroxybutyrate. There is also provided a system includes a meter configured to interact with a test element to assess first and second analytes in a sample. In another aspect, there is provided a system, comprising: a test element configured for analyzing first and second analytes in a sample, wherein the first analyte is hydroxybutyrate and the second analyte is glucose; and a meter configured to interact with the test element and including a controller structured to: determine concentration of the first analyte in the sample and, if the concentration of the first analyte is above a range of 0.5 mM to 3.0 mM~~predetermined value~~, provide a first signal for providing an indication related thereto; and determine concentration of the second analyte in the sample and provide a second signal for outputting information related to the concentration of the second analyte. Other aspects and embodiments of the subject application are directed to unique techniques for analyzing analytes in a sample. Further embodiments, forms, objects, features, advantages, aspects, and benefits shall become apparent from the description and drawings.

In an additional embodiment, a method includes providing a test element configured for analyzing first and second analytes in a sample; contacting the test element with the sample; determining concentration of the first analyte in the sample and providing an indication in response to determining the first analyte concentration is above a predetermined

a test element configured for analyzing first and second analytes in a sample, wherein the first analyte is hydroxybutyrate and the second analyte is glucose; and

a meter configured to interact with the test element and including a controller structured to:

determine concentration of the first analyte in the sample and, if the concentration of the first analyte is above a range of 0.5 mM to 3.0 mM~~predetermined value~~, provide a first signal for providing an indication related thereto; and

determine concentration of the second analyte in the sample and provide a second signal for outputting information related to the concentration of the second analyte.

11. The system of claim 10, wherein the indication includes at least one of outputting information corresponding to the concentration of the first analyte, providing a warning, providing a list of actions to take in response to the first analyte concentration being above the range of 0.5 mM to 3.0 mM~~predetermined value~~, and transmitting information related to the concentration of the first analyte to at least one of a user of the system, healthcare provider, caregiver and parent or guardian.

~~12. The system of any of the claims 10 to 11, wherein the first analyte is hydroxybutyrate and the second analyte is glucose.~~

~~13. The system of any of the claims 10 to 12, wherein the predetermined value is in the range of 0.5 mM to 3.0 mM.~~

~~14~~12. The system of ~~any of the~~ claims 10 ~~to 13~~or 11, wherein the meter further includes a display responsive to the first signal to display the indication related to the concentration of the first analyte.

~~15~~13. The system of any of the claims 10 to ~~14~~12, wherein the display is responsive to the first signal to provide an icon related to the concentration of the first analyte.

~~16~~14. The system of any of the claims 10 to ~~15~~13, wherein at least a portion of the display is configured to change color in response to the first signal.

~~17~~15. The system of any of the claims 10 to ~~16~~14, wherein the display is configured to provide an information icon in response to the first signal.

~~18~~16. The system of any of the claims 10 to ~~17~~15, wherein the display is further configured to provide a message in response to a selection of the information icon, the message including at least one of a description of the first analyte concentration, a list of actions to take in response to the first analyte concentration being above the predetermined level, and contact information of a healthcare provider.

~~19~~17. The system of any of the claims 10 to ~~17~~15, wherein the meter further includes a communication module configured to transmit a message to a mobile device or computer in response to the first signal.

~~20~~18. The system of any of the claims 10 to ~~18~~16, wherein the controller is further structured to provide a third signal for providing an approval indication if the concentration of the first analyte is below the range of 0.5 mM to 3.0 mM~~predetermined value~~.

~~21~~19. The method of claim 1 further comprising:

performing a plurality of tests to determine concentrations of first and second analytes in a sample, wherein each of the tests includes applying the sample to the test element configured for analyzing the first and second analytes in the sample;

storing the first analyte concentration determined from each test performed;

analyzing the stored concentrations of the first analyte to monitor for an existence of an upwardly increasing trend in the stored concentrations toward a predetermined value; and

providing a first indication in response to detecting the existence of the trend.

~~22~~20. The method of claim ~~21~~19, which further includes providing a second indication in response to determining the first analyte concentration is above the predetermined value in any one or more of the plurality of tests.

~~23~~21. The method of claim ~~21~~19 or ~~22~~20, which further includes automatically providing a third indication related to the concentration of the second analyte after performing each of the tests.

~~24~~22. The method of any of claims ~~21~~19 to ~~23~~21, wherein the first analyte is hydroxybutyrate and the second analyte is glucose.

~~25~~23. The method of any of claims ~~21~~19 to ~~24~~22, wherein the first indication includes one of a graphical illustration of the trend and an information icon.

~~26~~24. The method of any of claims ~~21~~19 to ~~25~~23, wherein providing the first indication includes displaying an information icon on a meter display.

~~27~~25. The method of any of claims ~~21~~19 to ~~26~~24, which further includes providing a graphical illustration of the trend in response to a selection of the information icon.

~~28~~26. The method of any of claims 1 to 9 and ~~21~~19 to ~~27~~25, further, comprising:

providing a hand held device comprising a display, a processor and a storage memory, the device being operative to engage one or more test elements and to determine concentration of at least first and second analytes in a fluid sample provided on said one or more test elements;

using the device, recording in the storage memory the value of the determined concentration of each of the at least first and second analytes;

using the device, determining whether the determined concentration for the first analyte is above a first predetermined value;

using the device, determining whether the determined concentration for the second analyte is above a second predetermined value; and

using the device, activating a watch mode when the determined concentration for either of the first and second analytes is above the respective first and second predetermined values.

~~29~~27. The method of claim ~~28~~26, wherein the storage memory comprises a plurality of recorded values of determined concentrations for each of the first and second analytes, the method further comprising:

selecting at least one of the first and second analytes for monitoring trending information;

using the device, determining whether the trending information for the analyte selected for monitoring generally matches predetermined criteria for recommending an increased frequency for determining the concentration for the analyte selected; and

using the device, activating the watch mode regardless of the determined concentration for either of the first and second analytes being above the respective first and second predetermined values when the trending information generally matches the predetermined criteria.

~~30~~28. The method of claim ~~28~~26 or ~~29~~27 wherein the first analyte is hydroxybutyrate and the second analyte is glucose, and the analyte selected for monitoring comprises hydroxybutyrate.

~~31~~29. The method of any of claims ~~28~~26 to ~~30~~28, wherein the watch mode comprises the device providing at least one recommendation for an increased frequency for determining the concentration for at least one of the first and second analytes.

~~32~~30. The method of any of claims ~~29~~ 27 to ~~31~~29, further comprising when the watch mode is activated, displaying a visual indication on the display, the visual indication configured to indicate the activation of the watch mode.

~~33~~31. The method of any of claims ~~28~~ 26 to ~~32~~30, wherein the first analyte is hydroxybutyrate and the second analyte is glucose.