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(57) Abstract :

A wearable health monitoring and alert device, comprising wearable band 1 equipped by user and integrated with telescopic needle 10 that actuates by pushing of first button 2 by user to inject within user's skin and discharge a drop of blood, image capturing unit 3 mounted over wearable band 1 and paired to microcontroller and via using image processing determines presence of blood over user's skin and sends signal to microcontroller, primary telescopic rod integrated within band 1 and equipped with sugar test strips 4 to take blood sample to determine blood sugar level within user's blood and a secondary telescopic rod installed within band 1 and equipped with food test strip 6, wherein upon pushing second button 7 microcontroller activates strip 6 and dips within a food sample to measure amount of sugar present within food and display over display screen 5. Ref. Figure 1

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