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(54) Title (EN): DETERMINING THE RISING LEVELS OF CIRCULATING KETONE BODIES IN A PHYSIOLOGICAL FLUID

(54) Title (FR): DÉTERMINATION DES TAUX D'ÉLÉVATION DES CORPS CÉTONIQUES CIRCULANTS DANS UN FLUIDE PHYSIOLOGIQUE

(57) Abstract:

(EN): Ketoacidosis is a medical emergency that requires swift intervention to avert life-threatening sequel. A body-worn sensor (50) configured to measure the levels of a ketone compound circulating in a physiological fluid of a wearer and capable of generating an alert to the wearer if the level of the circulating ketone compound exceeds a pre-defined level or rate of change is disclosed herein. The sensor (50) preferably includes at least one of an electrochemical sensor, an optical sensor, a galvanic sensor, a voltammetric sensor, an amperometric sensor, a potentiometric sensor, an impedimetric sensor, a resistive sensor, a capacitive sensor, an ultrasonic sensor, a radio-frequency sensor, or a microwave sensor.

(FR): La cétoacidose est une urgence médicale qui nécessite une intervention rapide afin d'éviter des séquelles mettant la vie du patient en danger. Un capteur porté sur le corps (50) est configuré pour mesurer les taux d'un composé cétonique circulant dans un fluide physiologique d'un porteur et capable de générer une alerte au porteur si le taux du composé cétonique circulant dépasse un niveau ou un taux de changement prédéfini. Le capteur (50) comprend de préférence au moins l'un parmi un capteur électrochimique, un capteur optique, un capteur galvanique, un capteur voltamétrique, un capteur ampérométrique, un capteur potentiométrique, un capteur d'impédance, un capteur résistif, un capteur capacitif, un capteur ultrasonore, un capteur de radiofréquence, et un capteur de micro-ondes.

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