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(54) Title: METHOD AND SYSTEM FOR GENERATING A SOFTWARE-IMPLEMENTED MODULE FOR DETERMINING AN ANALYTE VALUE, COMPUTER PROGRAM PRODUCT, AND METHOD AND SYSTEM FOR DETERMINING AN ANALYTE VALUE

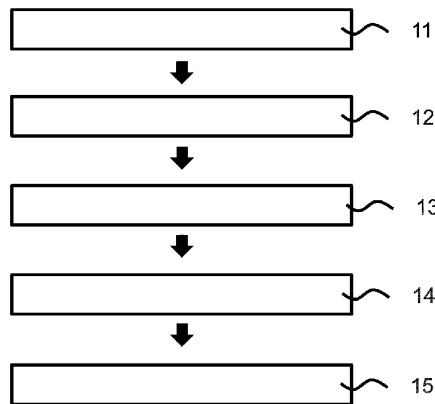


Fig. 1

(57) Abstract: A method is disclosed for generating a software-implemented module for determining an analyte value, comprising, in an arrangement of one or more data processors: providing a first set of input data indicative of first values measured for a plurality of input parameters, the input parameters comprising a first and a second input parameter; and providing a second set of input data indicative of second values for the plurality of input parameters, the second values comprising an augmented value for at least one input parameter from the plurality of input parameters, the augmented value being different from the first value measured for the at least one input parameter and determined by augmenting the first value; and the first value for at least one remaining input parameter from the plurality of input parameters. The method further comprises: determining first analyte data indicative of a first plurality of analyte values for an analyte by processing the first set of input data by a physiological model; determining second analyte data indicative of a second

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plurality of analyte values for the analyte by processing the second set of input data by the physiological model; determining a set of training data from both the first analyte data and the second analyte data; determining a set of test data, the set test data being different from the set training data; providing a software-implemented machine learning model configured to determine an analyte value for the analyte; training the software-implemented machine learning model by the set of training data; and testing the software-implemented machine learning model by the set of test data. Furthermore, a system for generating a software-implemented module for determining an analyte value, a computer program product for generating a software-implemented module for determining an analyte value, a method for determining an analyte value, and a system for determining an analyte value are provided.