ENGINEERING & ENVIRONMENT   SCHEDA BREVETTO NUMERO 22

TITOLO

Sistema e metodo per prevenire l'ipoglicemia in un paziente diabetico di tipo 1 durante l'attività fisica

System and method for preventing hypoglycaemia in a human type 1 diabetic patient during physical activity

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DESCRIZIONE E SETTORI DI APPLICAZIONE

A method for estimating the amount of carbohydrates needed by a DP-1 during a specific session of physical activity, comprises the following steps: defining of working constants and standard parameters; introducing of patient and therapy specific parameters, calculating of patient specific reference curves for a percentage carbohydrates consumption (% CHO); scheduling a training session; estimating the amount of carbohydrates (CHO) to be eaten before said physical activity; updating in real time the residual carbohydrates still available during said physical activity; and estimating the amount of carbohydrates to be restored after said physical activity.

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VANTAGGI

Accordingly, a first object of the present invention is to provide a method for a reliable estimate, before an exercise session, of the carbohydrate need to prevent hypoglycaemia during and/or after a specific session of physical activity, i.e. exercises in physical training in DP-1.

Another object of the present invention is to provide a system suitable to implement the above mentioned method for an estimate of the carbohydrate need to prevent hypoglycaemia during and/or after a specific session of physical activity in DP-1, the system incorporating an apparatus which is easy to manage by the same diabetic subject.

A further object of the present invention is to provide a software for the above mentioned system and apparatus which specifically estimates the amount of carbohydrates a DP-1 needs before/during exercise to prevent hypoglycaemia.

STATUS

Concesso in Europa e USA

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