Fluid Loss Measurement Device

Often resulting from high exertion activities or humid environments, dehydration leads to discomfort, low endurance, muscle fatigue, cognitive impairment, heat exhaustion, heat stroke and even death. Proper hydration is a critical challenge for both warfighters and support staff, and the existing tools for estimating fluid loss rely on generalized predictions rather than quantitative data. To ensure healthy hydration levels in soldiers, Hydrosis has invented a wearable device for the regional measure of fluid loss due to sweating, providing personalized guidance to the user. By deriving input directly from the user’s physiological response, the guidance is specific to both the body and the environment. The sweat rate measurement device is unobtrusive, lightweight, conforming, and fits comfortably under clothing. In addition to its DoD applications, this technology is being developed for use by individual athletes.

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