Jan Bakker MD PhD FCCM FCCP

Editor in Chief Journal of Critical Care

Clinical professor
NYU School o f Medicine
Dept. Pulmonology & Critical Care
New York, USA

Adjunct professor
Columbia University
College of Physicians & Surgeons
Dept Pulmonology & Critical Care
New York, USA

Tenured professor
Erasmus MC University Medical Center
Dept Intensive Care Adults
Rotterdam, Netherlands

Adjunct professor
Pontificia Universidad Católica de Chile
Dept of Intensive Care
Santiago, Chile

Email:
jan.bakker@nyulangone.org
jb3387@cumc.columbia.edu
jan.bakker@erasmusmc.nl

Phone
+1 917-208-7648
+31 628 617 233
+56 946 716 865

To whom it may concern,

May 3rd, 2024

I recently discussed the development of a new monitoring device targeting peripheral circulation (Sepsiscan). The technology uses a multimodal assessment of the skin microcirculation enabling the assessment of both flow and oxygenation. This non-invasive, user-friendly device would enable real-time assessment and quantitative analysis of skin microcirculation.

As the field of using peripheral circulation is rapidly progressing to a clinical standard, an objective, and reproducible measurement with limited bias could be of important clinical benefit. Current methods in clinical studies only focus on flow, so this device could add to current methods/devices.

In addition, the Sepsiscan would be able to detect changes in skin color that are very difficult to quantify visually. In the extremes, abnormal skin color (mottling) is easy to detect and quantify. However, this assessment is not very granular, which limits the possible benefit for the individual patient without overt skin color changes.

Further development of this device could thus result in a monitor that would benefit patient care in diagnosis and treatment.

Kind regards,

Jan Bakker