

# An innovative wearable medical device for objective sleep measurements

To date, there is no clinically validated option between the gold-standard polysomnography (hospital setting, time/cost consuming, stressful) and the actimeter.

We developed an alternative solution: Somno-Art is composed of a wearable medical device that captures physiological data and a software that generates medical grade sleep reports.



## SOMNO-ART DEVICE

Somno-Art Device records heart rate and body mobility of the adult patient during the night.



**Technology:**  
Plethysmography  
**Signal:**  
Pulse-pulse ratio



**Technology:**  
Actimeter  
**Signal:**  
Three spatial axes at 250Hz



**Battery:**  
40 hours

**Memory:**  
60 nights

## SOMNO-ART SOFTWARE

Our IT architecture has been developed in order to automate the sleep data analysis process, ensure secure data transfer throughout the whole process, and to be compliant with all the regulations.

### 1. RECORDING



Sleep data are recorded by Somno-Art Device and transferred to the PC

### 2. DATA TRANSMISSION



The night data is securely sent to the Somno-Art data center

### 3. SCORING



Once validated, the night data is scored by Somno-Art Software

### 4. REPORT CREATION



For each night a sleep report is created, containing all the information recommended by the AASM

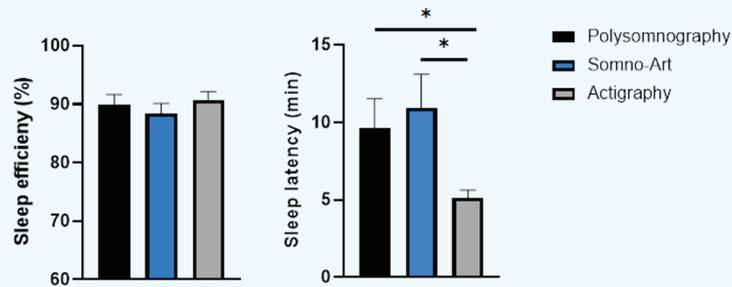
### 5. RESULTS TRANSMISSION



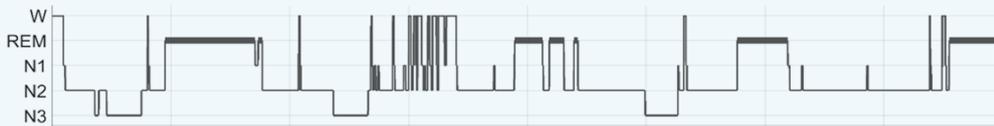
At the end of the study, all the reports and data are securely sent

# Somno-Art fills the gap in objective sleep measurements

Somno-Art Software's output is more accurate than actimetry in healthy subjects



## POLYSOMNOGRAPHY

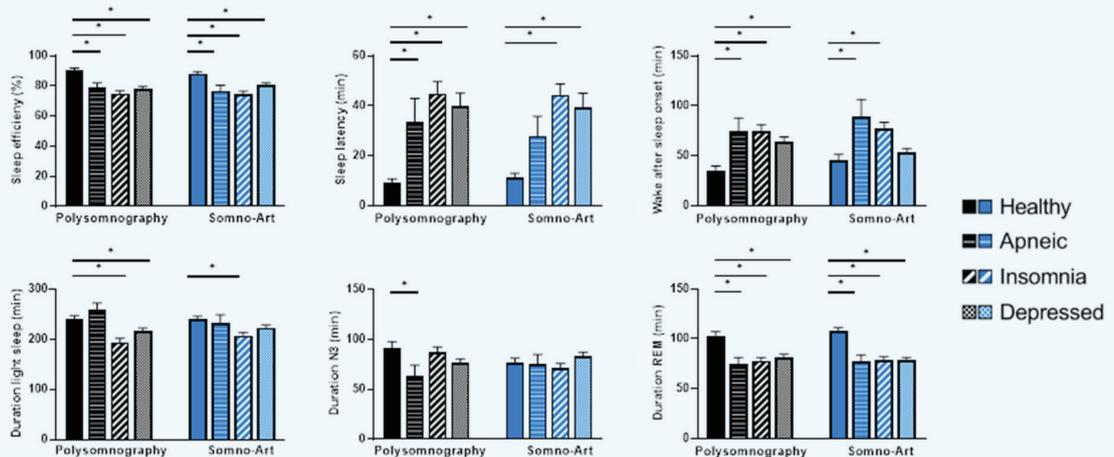


## SOMNO-ART



Somno-Art Software's output is similar to polysomnography visual scoring in healthy subjects

Somno-Art Software's output is accurate on various pathologies



Unpublished data

Somno-Art has been developed as an innovative tool to be used by clinicians for home sleep measurements. Somno-Art produces a full description of the sleep architecture, including sleep latency, time spent in the different sleep stages and sleep efficiency with results equivalent to those obtained by visual analysis of the polysomnography.

## R&D PARTNERS



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