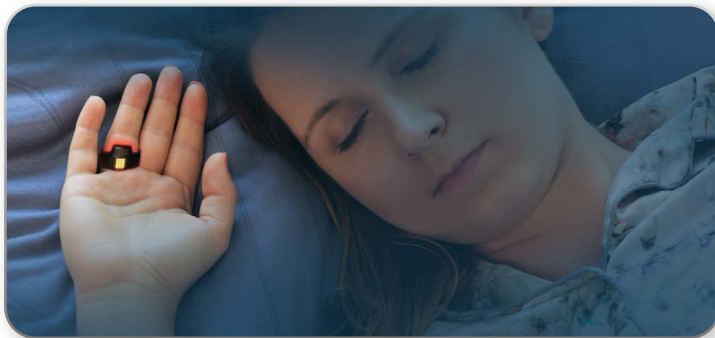


# Otwo Fellow

## OXYMETRY PAR EXCELLENCE



### Screening



- ✓ Oxymetry / ODI
- ✓ Heart rate
- ✓ Snore
- ✓ Position
- ✓ Pleth signal – autonomic arousal
- ✓ Activity

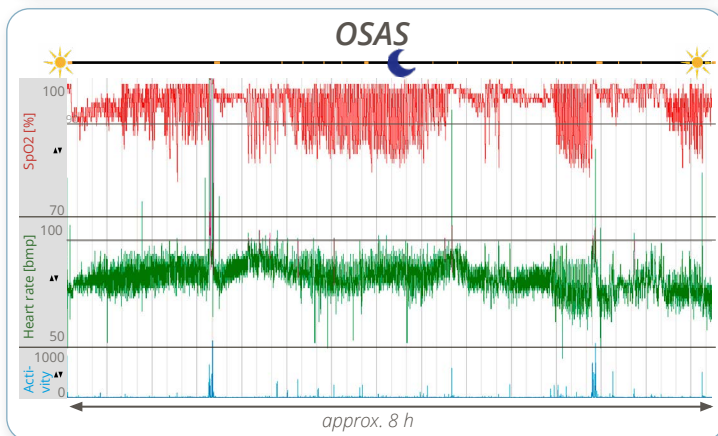
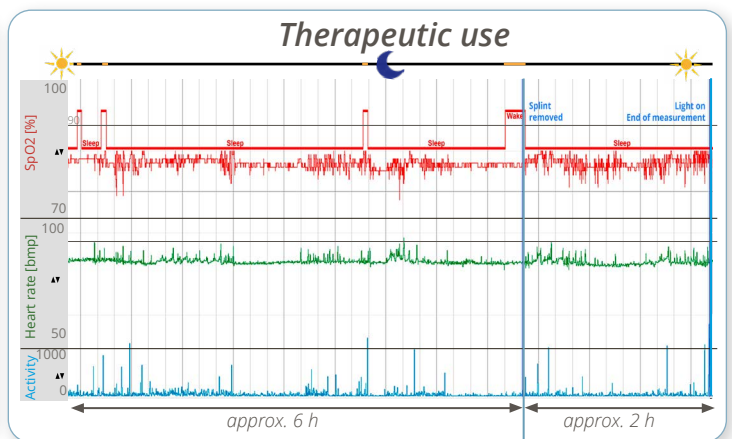
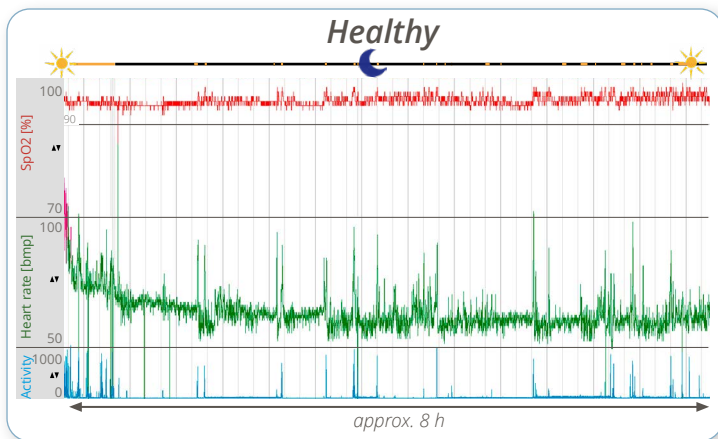
### Therapy control



- ✓ Regular recording of oximetry for improved compliance, especially in the adjustment period
- ✓ Recording of the entire night of sleep, even beyond therapy use time
- ✓ Additional control of basal SpO<sub>2</sub> and ODI

PAP therapy

Mandibular protrusion splint (MPS)



With MPS:  
ODI: 7,1 /h

MPS removed:  
ODI: 17,8 /h

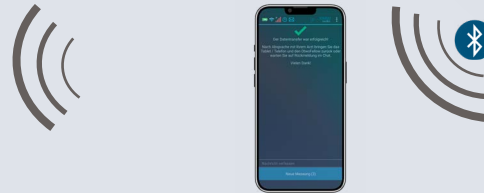
- ◆ **Oxygen saturation (SpO<sub>2</sub>, %):**
  - Desaturations: drops in oxygen  $\geq 4\%$ , duration  $\geq 8\text{ s}$  (adjustable parameters)  $\Rightarrow$  ODI
  - Basal SpO<sub>2</sub>: diffusion disorder / alveolar hypoventilation
- ◆ **Heart rate (HR, bpm):**
  - Heart rate beat to beat
  - Nocturnal HR Fluctuation (NHRF):  $\geq 8\text{ bpm}$ , duration 3-30 s
  - Dipping: drop in HR during sleep  $> 10\%$  (analog to blood pressure)
  - Brady- / tachycardia
- ◆ **Plethysmography:**
  - Autonomic arousal: sleep fragmentation
  - Cardiac circulation time: detection of cardiac dysfunction
- ◆ **Position:**
  - Upright / reclined – supine or side
- ◆ **Actigraphy:**
  - Sleep-wake detection: the relationship of events to sleep
  - Time in bed (TIB)
- ◆ **Snore:**
  - Episodic snoring, in % Total Sleep Time (TST)

## Measurement process

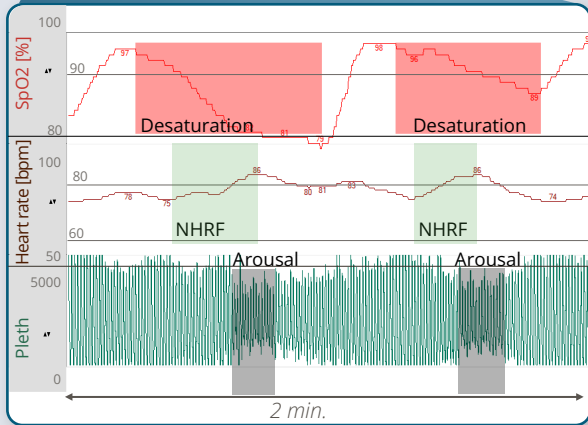


② Data available in the cloud immediately after the end of measurement

① Continuous recording of measurement data, transfer to smartphone via Bluetooth



③ Measurement data



④ Summary report

<b>Oxygen saturation (SpO<sub>2</sub>)</b>		
Basal SpO <sub>2</sub> [%]	97	
Time < 90 % [min]	0,1	
ODI [1/h]	8	
Min. SpO <sub>2</sub> [%]	88	
Circulation time [1/sec]	23,3	
Hypoxic Burden [% min/h]	29,7	
<b>Heart rate</b>		
Mean value [bpm]	58	
Min/Max [bpm]	49/86	
Tachycardia [min]	0,0	
Bradycardia [min] with hypoxia [min]	0,0	
Dipping [%]	-12	
NHRF [h]	11	
<b>Autonomic Arousals</b>		
Arousal [1/h]	7,3	
Arousal with desaturation [1/h]	0,0	
Sleep fragmentation [% TST]	15	
<b>Snoring analysis</b>		
Snore epis. [% TST]	2,0	

Detailed report



## TECHNICAL DATA

Sizes	S, L, XL. Integrated spring for optimum fit
Weight	10 g
Data transfer	via Bluetooth to smartphone; from smartphone via WLAN / 5G to the cloud
Power supply	Li-Ion battery, charging via USB adapter or charging box with built-in battery (optional)
Duration	11 hrs., charging duration < 2 hrs.

## SCOPE OF DELIVERY

