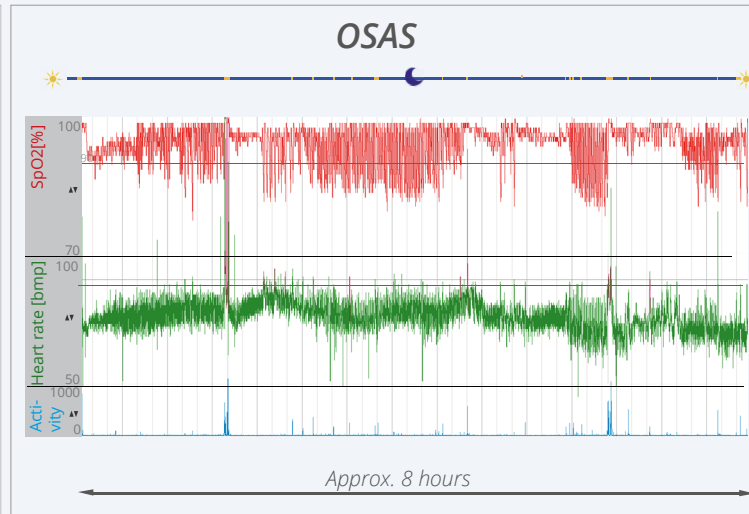
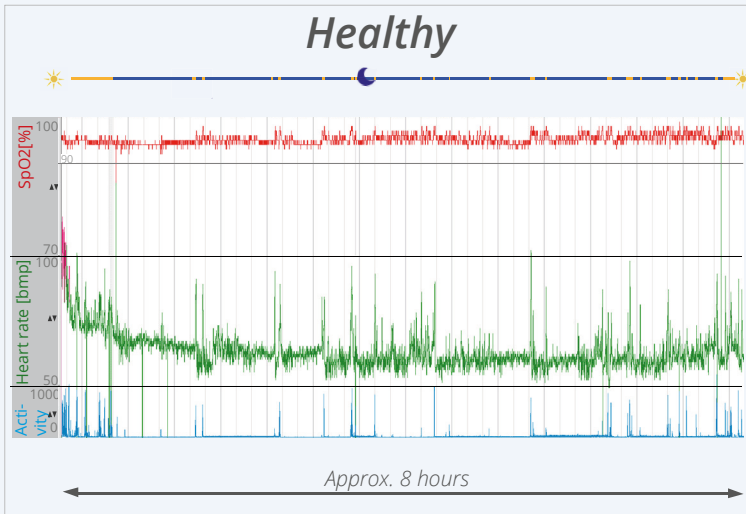
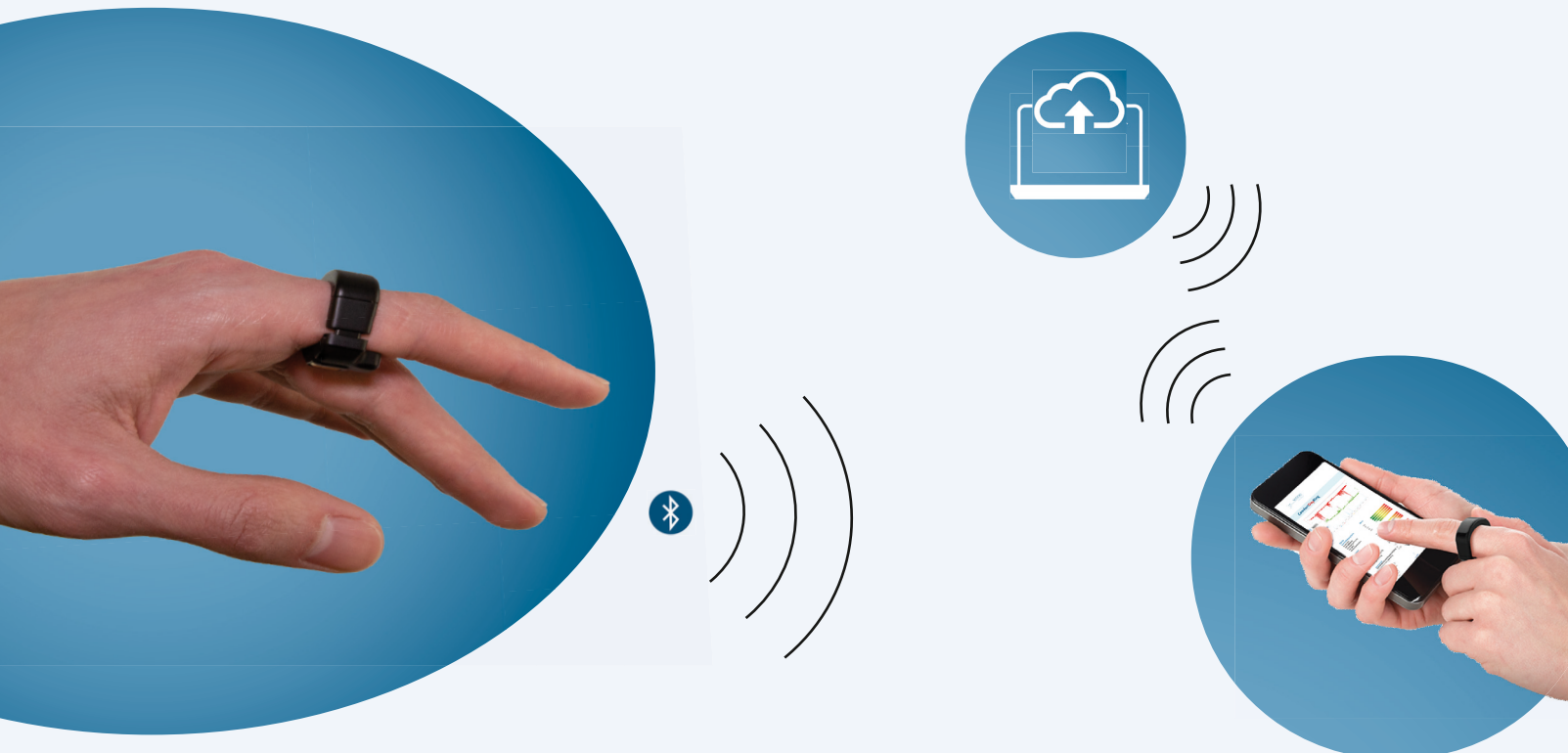


COMFORT  
OXYRING

# OXIMETRY PAR EXCELLENCE

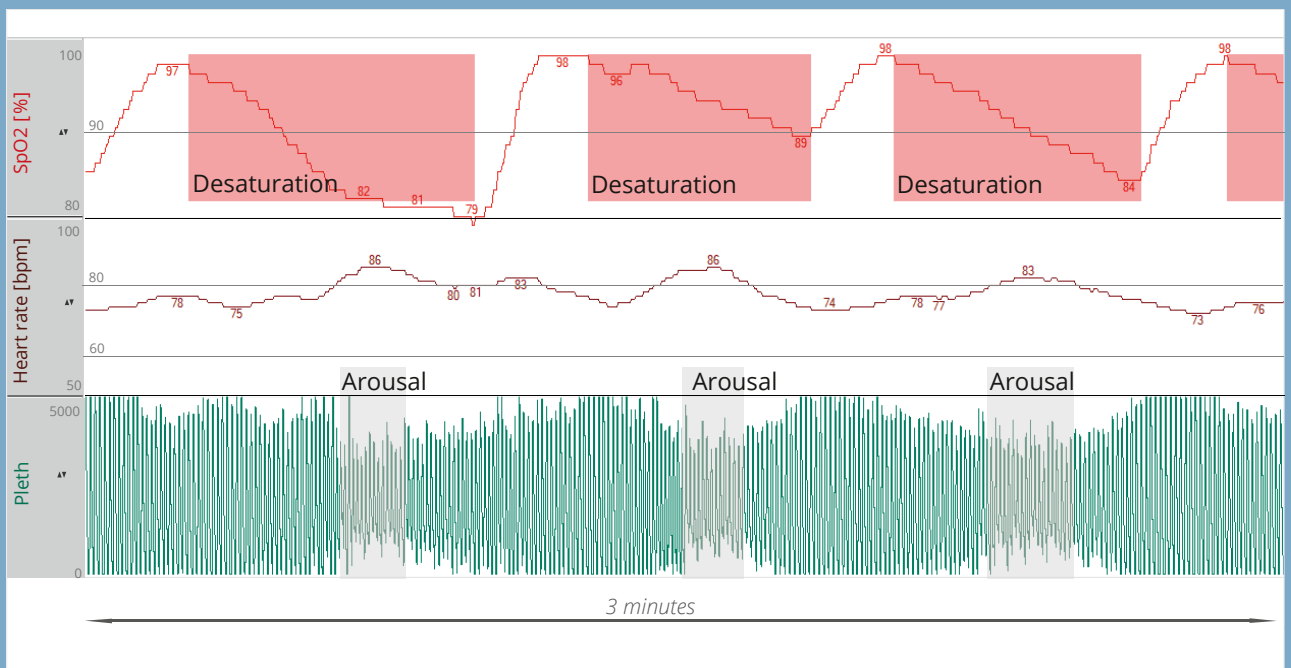


## ComfortOxyRing — Arterial oxygen saturation during sleep

Nocturnal breathing disorders can lead to a considerable lack of oxygen (hypoxia) and thus to serious organ damage (especially in the brain and heart).

### Signals :

- ◆ **Oxygen saturation (%)**
  - Basal: Chronically disturbed ventilation/diffusion
  - Desaturation: Fluctuating drops in oxygen >3% and lasting at least 8 seconds as a result of nocturnal breathing problem
  - Circulation time: detection of cardiac dysfunction
- ◆ **Heart rate (bpm)**
  - Brady-/ tachycardie
  - Heart rate fluctuation - cardiac stress
  - Dipping/non-dipping: drop in heart rate during sleep
- ◆ **Finger plethysmography:** Peripheral pulse pressure curve to detect autonomic arousals
- ◆ **Position:** Detection of upright and supine position
- ◆ **Actigraphy:** To estimate the sleep-wake cycle



### Signals

#### Oxygen saturation (SpO2)

Signal	Value
Basal SpO2 [%]	92
Time <90% [min]	47
Desaturation/ODI [1/h]	32,1
Min. SpO2	44
Circulation time [/sec]	23,3

#### Heart rate

Mean value [bpm]	79
Min / Max [bpm]	73 / 97
Tachycardia [min]	0
Bradycardia [min]	0
<i>Time x Hypoxia</i>	

#### Autonomic arousals

Arousal [1/h]	38
Arousal with desaturation [1/h]	29
Sleep fragmentation	

### Values

