

## Smart Mask data collection checklist

### Demography

ID	Age	Height	Meal*	Ailment <sup>#</sup>	Athlete

\* Meal: Did the participant take a heavy meal in the last 15 minutes?

# Does the participant have any prior history of apnea, sleep paralysis or any lung ailment?

### Make sure to collect the baseline CO<sub>2</sub> values throughout the experiment

### Inside the Lab

Time Lapse	Activity
0-2 minutes	<input type="checkbox"/> Is the participant sitting idle? <input type="checkbox"/> Did you preheat the sensor? <input type="checkbox"/> Has 20 minutes elapsed after the sensor was switched ON? <input type="checkbox"/> Is the participant resting and watching video ? <input type="checkbox"/> Is the mask tightly fit? <input type="checkbox"/> Are you in a noisy environment? Is the HVAC making a lot of noise? <input type="checkbox"/> Is the CO <sub>2</sub> sensor well covered to avoid skin irritation and data fault?
2-5 Minute	<input type="checkbox"/> Are you using 30 BPM as ground truth? <input type="checkbox"/> Was data collected successfully? <input type="checkbox"/> Is the mask tightly fit?
5-7 Minutes	<input type="checkbox"/> Did you now stop the metronome? <input type="checkbox"/> Was data collected successfully? <input type="checkbox"/> Is the mask tightly fit?
7-9 Minutes	<input type="checkbox"/> Ask the participant to do forceful breathing. <input type="checkbox"/> Is the mask tightly fit?
9-11 Minutes	<input type="checkbox"/> Was data collected successfully? <input type="checkbox"/> Is the mask tightly fit?

## Outside the Lab

**\*Investigator should walk along the side of the participant so that there is no interference to the wireless signal**

Time Lapse	Activity
0-2 minute	<input type="checkbox"/> Did you preheat the sensor? <input type="checkbox"/> Has 20 minutes elapsed after the sensor was switched ON? <input type="checkbox"/> Is the sensor collecting data while the mask is donned? <input type="checkbox"/> Is the person standing and ready to walk?
2-8 Minutes	<input type="checkbox"/> Did you collect data when the person was walking (6MT)?
8-11 Minutes	<input type="checkbox"/> Did you collect data when the person is resting on a chair after walking?
11-13 Minutes	<input type="checkbox"/> Did you collect data while the person was asked to read out text?
13-15 Minutes	<input type="checkbox"/> Did you collect data when the person is resting ?