AIRMOD

Artificial Intelligence Respiratory Monitor Device

World's first
AI-powered continuous breathing sound monitoring device

An innovative stethoscope transcending limits of time and space

AIRMOD ameliorates patient safety by providing continuous respiratory monitoring, transforming acoustic signals into visualized spectrogram, as well as sending timely alerts upon detection of adventitious sounds powered by deep-learning algorithm.

Respiratory monitoring in

- Procedures taken under un-intubated anesthesia / sedation
  including but not limited to colonoscopy, upper GI endoscopic examinations,
  cystoscopy, dental procedures, plastic surgeries, obstetric procedures…
- Intensive care unit and isolation unit for highly contagious diseases
  (ex. COVID-19)
- Emergency medical care
  particularly in ambulance car or helicopter with elevated noise level

AccurSound Electronic Stethoscope / AS-101

HMS Managed IT Services

801 Brickell Avenue, Suite 800, Miami, Florida 33131
Fax: +1-786-955-2211 Phone: +1-786-743-7936 support@healthmit.services

Airmod

Artificial intelligence respiratory monitor device

Respiratory Spectrogram Identification

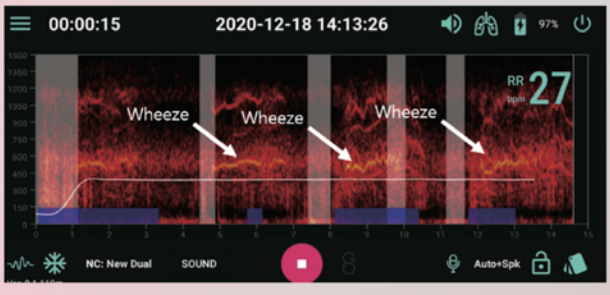
Normal Breathing

Under normal inhalation and exhalation conditions, the spectrogram shows a red sign, and the white frame is for inhalation identification.

Apnea

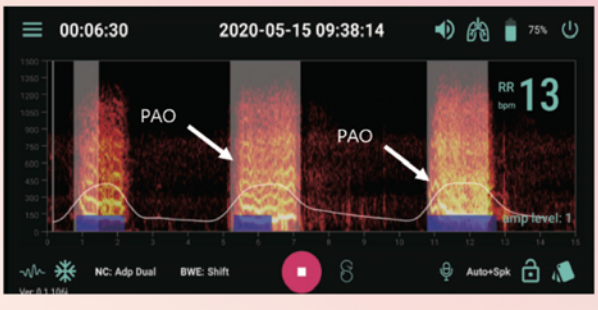
Apnea means that there is no sound energy, the spectrogram is completely black

Wheeze



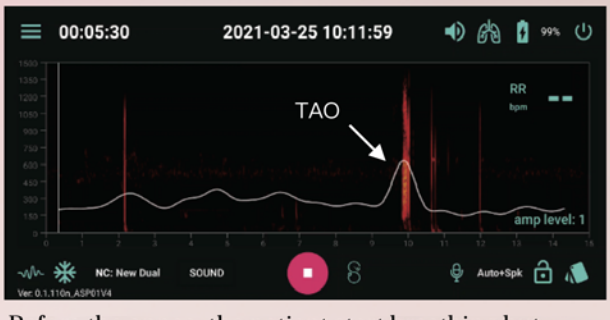
The stridor is characterized by high frequency and continuous, most often the end of exhalation, with horizontal bars in the frequency spectrogram.

Partial Airway Obstruction



Due to partial airway obstruction, the patient needs to use a large amount of energy to breathe, so it appears yellow, the frequency spectrogram has a long duration

Total Airway Obstruction



Before the apnea, the patient start breathing but cannot effectively drive a complete breath, an incomplete breathing cycle, and the duration of the spectrogram is short.

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