

Tracheal sound reliability for wheeze data collection method: a review

Abstract

The purpose of this review is to present the reliability of sound obtained from trachea for wheeze data collection method. Wheeze is the most common sign used in the detection of airway obstruction. Airway obstruction such as asthma and chronic obstructive pulmonary disease (COPD) are normally detected by the recognition of any wheezes present in lung auscultation method. The primary source of publication used is IEEE, Elsevier, Chest and others that may offered related papers to the review. Papers regarding on wheeze, and asthma had been gathered through and papers that uses tracheal as the placement of the sensor had been identified and tabulated. From all the success studies, further explanation on tracheal placement for wheeze data collection method will be discussed. Thus the reliability of the tracheal position for the sensor placement can be proved for a better automated system development for lung auscultation in the future.

Keywords — Adventitious sounds, lung auscultation, tracheal sounds, wheezes