The World Renowned Nose Pdf 16 ##HOT##

1. enose-tb will be used to measure the breath pattern of tb patients who are diagnosed by chest radiology and sputum smear test. the total number of subjects will be 100. each subject will be randomly selected from an outpatient clinic and from the tb endemic area to ensure that all subjects are representative of the general population. data collection will be done by a researcher who is proficient in bahasa indonesia. the researcher will be trained by the principal investigator before the data collection. only information obtained from the participants will be recorded and stored. participants can leave the hospital without informing the researcher if they do not wish to participate in this study. a written informed consent form will be obtained from the participants or their legal guardians. the informed consent form can be accessed in the s1 appendix. informed consent will be obtained from participants before data collection. on the consent form, the participants will be asked whether they accept to participate in this study. if they agree, they will be asked to sign the form. the participant or their legal guardian will be asked for their contact information to contact the researcher in case the participant wants to withdraw from the study. participants will be interviewed using the interview guide. the researcher will fill out the questionnaire and the medical record in detail. participants will breathe into the enose-tb for 15 seconds, which is the minimum time required for an accurate and complete measurement. the enose-tb is connected to the data acquisition system. the system will save data and record the final value of the sensor array (air sensor) as the output, which will be displayed on the computer screen. the researcher will collect data from the system and record it. the collected data will be stored in the data base. the researcher will have the ability to access the data base at any time. the researcher will also send the data to the department of physics, faculty of mathematics and natural sciences, universitas gadjah mada, indonesia, for further analysis. data obtained from the study will be used to calculate the sensitivity, specificity, ppv, npv, and positive and negative agreement.

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data will be collected using an enose-tb (yamaguchi keiko co., ltd., kyoto, japan). this is a simple-to-use electronic nose device with a one-sided cylinder-shaped breath chamber. the device consists of a sensor array with 32 carbon-fiber electrodes (yamaguchi keiko co.), an integrated circuit (ic) chip that processes data from the electrodes and transforms these data into a form recognizable by the user, and a 3.6 inch tft display. the sensor array comprises four types of electrodes: metal oxide semiconductor (mos) sensors, affinity sensors, carbon nanotubes (cnt) sensors, and piezoelectric sensors. the enose-tb uses a mos sensor array, which is the standard sensing element in enose devices. the enose-tb has two types of mos sensors, called type i and type ii. after training and validating enose-tb, we tested its ability to recognize the breath pattern of tb patients and healthy controls. the study was conducted from may to august 2019, and the patients and healthy controls were recruited from respira lung hospital. in the study protocol, we wrote that the tb patients were recruited consecutively from tb patients neighborhood. in reality, the recruitment was not consecutive as we recruited the first patient at the time of recruitment of the second patient. in this manuscript, we included the data from the 27 tb patients and 24 healthy controls. after that, we excluded two patients from the healthy controls and 12 patients from the tb patients because the results from the enose-tb test of these patients were not validated by the reference examination. we defined the tb patients as patients with 1+ on the who scale at least in one out of two samples examined for microscopy, or culture

(identification of m. tuberculosis). healthy controls were defined as people that were in contact with the tb patients at least for one year, and had no signs nor symptoms of tb. 5ec8ef588b

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