ABSTRACT BOOK ABSTRACTS



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INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

PILOT STUDY TO ASSESS THE ACCURACY AND PRECISION OF PHENOLIC GLYCOLIPID-I OF MYCOBACTERIUM LEPRAE TEST KIT IN DIAGNOSING NEW LEPROSY CASES AMONG PATIENTS AT THE JOSE R. REYES MEMORIAL MEDICAL CENTER

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Introduction: Leprosy is a chronic disease with great psychologic and socioeconomic burden leading to serious debilitating consequences.

Objectives: To assess the accuracy and precision of PGL-I antigen test in diagnosing new leprosy cases and to identify possible significant predictors that may affect the result such as participant's age, gender, level of bacillary index at the time of diagnosis, leprosy spectrum and treatment with multi-drug therapy.

Materials and Methods: This is an analytical cross-sectional study design. Subject's serum were tested for the presence or absence of PGL-I antibodies using ML ICA flow test kit. Visual readings on three kits were performed based on the recommended value assigned by subjective readings of 2 independent readers. Standard diagnostic tests such as acid fast smear and skin punch biopsy were likewise done.

Results: A total of 46 newly diagnosed leprosy patients were recruited as study participants. The study concludes that there is a significant linear relationship between (sex and leprosy spectrum) and (bacillary index and leprosy spectrum). ML-ICA flow test kit and independent readers are not a significant predictor of readings and that the only significant predictor of readings is leprosy spectrum.

Conclusion: The ML ICA flow test kit is both an accurate and precise screening diagnostic tool to rapidly identify cases of leprosy, most especially if there is a high index of clinical suspicion.





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