

School of Medicine

Introduction

The global strategy to eliminate tuberculosis (TB) disease is based on the prevention of progression of latent TB (LTBI) to active disease (1). The risk of LTBI progression and TB transmission increases in the presence of coinfection with human immunodeficiency virus (HIV) (2-4). Reproducibility of T-Spot. TB test results vary and impact the diagnosis and treatment of LTBI among the HIVinfected population (5-6).

Objectives

A cohort of HIV/LTBI co-infected patients were followed from January 2012 to September 2015 to |identify independent risk factors other than treatment | of LTBI which may play a part on preventing progression of LTBI to TB disease. The methodology of LTBI screening, diagnosis, and treatment of LTBI was investigated.

Methods

Data of HIV infected cases receiving medical care in an inner city clinic was reviewed to identify those subjects coinfected with Mycobacterium tuberculosis diagnosed by Interferon Gamma Release Assay (T-Spot. TB test) with borderline or positive results. Demographics and clinical characteristics of patients, medication, and medical care were abstracted from providers' notes. Repeated T-Spot. TB test results were abstracted to estimate rates of conversion, reversion, and concordance of test results. Univariate and multivariate statistical analysis of data was used to describe the study population and assess the association of clinical factors with the progression of LTBI to TB disease. Study was approved by the Inst. Rev Board.

Characteristics of HIV/LTBI Co-Infected Patients with Data of T-Spot. TB Testing and follow up of Practice Patterns in an HIV-inner City Clinic in New Orleans, LA 2012-2015

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Results

LTBI to TB disease was 20%.

There were no reversions after a second positive test. Two and poor attendance to medical care appointments were independently associated with LTBI progression to TB. T-Spot. TB test results did not correlate with patients' previous diagnosis and treatment for LTBI (Graph 2).

Characteristic	Count	%
Gender		
Male	49	72
Female	19	28
Race		
AA	52	75
W	12	19
Other	4	6
Age (Y)		
(median, range)	51	28-72
Country of Birth		
US	66	97
Not US	2	3





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GRAPH 2. Treatment of LTBI: Practice Pattern

11/42 had

1 treated

No

