



Article Name **Buffy Coat in Diagnosis of Pulmonary Tuberculosis**

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Specialization

Introduction

Material & Method

Result

In this research 50 patients (27 female, 23 male) having a mean age of 49.5±19.7 yrs. were evaluated. The sputum smear was positive for AFB in 32 patients (64%) while it was negative in 18 (36%). Also a positive sputum culture for M.tuberculosis was found in 22 (44%), and a negative sputum culture was seen in 28 patients (56%). Buffy coat examination was positive in 4(8%) patients and was negative in 46 (92%) patients. Sensitivity, specificity, positive and negative predictive values, as well as efficiency of buffy coat in comparison with sputum smear and culture are shown in Tables 1 and 2 respectively.

Discussion

References

1. David W. Hass. Mycobacterium tuberculosis in: Mandell et al. Principles and Practical of Infectious Diseases. Fifth edition Vol 2 Philadelphia Churchill living stone; 2000: 2576-2607.
2. Mario C, Ravinglone, Richard J. 6 Bnien. Tuberculosis in: Harrison et al. Principles of Internal Medicine. 14th ed. Vol 1. Newyork: McGraw-Hill 1998: 1004-14.
3. Sen R, Singh S, Singh HP, Sen J, Yadav MS, Arora BR. Demonstration of acid-fast bacilli in buffy coat and bone marrow smear- a diagnostic tool in pulmonary tuberculosis. J Indian Med Assoc 1996; 94(10): 379-80, 390.
4. Richter C, Kox LF, Van Leeuwen JV, Mtoni I, Kolk AH. PCR detection of mycobacteremia in tanzanian patients with extrapulmonary tuberculosis. Eur J Clin Microbiol Infect Dis 1996; 15 (10): 813-7.
5. Ruf B, Schurmann D, Brehmer W, Mauch H, Pohle HD. Mycobacteremia in AIDS patients. Results of a prospective study. Klin Wochenschr 1989; 67 (14): 717-22.
6. Eng RH, Bishburg E, Smith SM, Mangia A. Diagnosis of mycobacterium bacteremia in patients with acquired immunodeficiency syndrome by direct examination of blood films. J Clin Microbiol 1989; 27(4): 768-9.
7. Damsker B, Bottone EJ. Mycobacteria and cryptococci cultured from the buffy coat of AIDS patients prior to symptomatology: a rationale for early therapy. AIDS Res 1986; 2(4): 343-8.
8. Boyum A. Separation of leukocytes from blood and bone marrow. Introduction. Scand J Clin Lab Invest Suppl 1968; 97: 7.

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Conclusion

Images of Article

[table 1.JPG](#) , [table 2.JPG](#)

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