INTRODUCTION

Tuberculosis (TB) is the second leading cause of death worldwide amongst communicable diseases. It kills nearly 2 million people each year mostly in the developing countries. Tuberculosis still exists in India as a significant public health problem. An estimated 1 billion women are affected with TB worldwide. Tuberculosis kills approximately 1 million women every year and is responsible for more deaths in women in the reproductive age group. Aims and Objectives: The present study was aimed to delineate the burden of disease in women in rural area. Results: High incidence of TB is reported in females of reproductive age group. Conclusion: Routine TB screening should be incorporated into maternal and child health programs in countries where TB is endemic. Revised National Tuberculosis Control Program (RNTCP) should mobilize interventions at rural level to eliminate stigma and ultimately eliminate TB’s impact on women.

Key words: Tuberculosis, RNTCP, Women

MATERIALS AND METHODS

The study was conducted at Bhagat Phool Singh, Government Medical College for Women, Khanpur Kalan, Sonepat, which is a 500 bedded tertiary care facility located in rural belt of Haryana, India. The present study is a retrospective record based study carried out from September 2011 to January 2014. All the sputum samples, received in Microbiology Department, were processed by Ziehl Neelsen staining. Tuberculosis places pregnant women and their babies at risk. Moreover the confounding factor like associated HIV disease, poverty, nutritional deficiency, social stigma, lack of education and low socio-economic status cause significant delays in the diagnosis and treatment of TB in women. Although the incidence of TB in women is lower than that in men, it is the primary focus in this study because the burden of TB is higher in reproductive age group in women compared to other age groups.

RESULTS

A total of 8934 samples were received in the study period. Table 1 presents the age and sexwise distribution of patients. Out of these, the incidence of positivity was 11.74% for males and 9.01% for females. The highest prevalence was seen in the age group 21-30 years (Figure 1).
However, as the age advances, the positivity rate showed a decreased trend.

**DISCUSSION**

According to World Health Organisation, in 2012, globally more than half of the estimated number of female tuberculosis cases went undetected, compared with less than 40% in the total population. Many studies have reported a higher notification rates for males as compared to females. In the present study also, the number of females seeking care is almost half as that of the males. The possible explanation for this might be that, in rural areas, women have reduced access to economic resources, and fewer educational opportunities as compared to men. As a result, many women are unable to locate and reach qualified health services. Studies have also reported that women bear the highest burden of stigmatizing behaviors. In some communities, female TB patients and women who are suspected to have active TB are likely to be forced to get divorced, send back to their parents’ homes, and have fewer chances of getting married.

Gender inequality in this domain, has severe consequences in public health in terms of women’s poorer access to health care, delay in diagnosis & treatment of the disease. In developing countries, TB remains the third leading cause of death among women of reproductive age (15-44) years, disproportionately affecting pregnant women and the poor. The analysis of data in the present study reveals that number of females affected are more in age group 21-30 years followed by 11-20 years age group. This is in consistent with findings by Mukherjee et al. and various other authors. Once infected, women are more susceptible to develop disease than men of the same age. In developing countries, women of the reproductive age group often cook indoors in very confined spaces using biomass fuel such as wood or animal dung, which is again a confounding factor contributing to development of TB. The impact of TB in women is thus severe not only on their families but also on the development of society through loss of workforce, ruined families and orphaned children.

India’s Revised National Tuberculosis Control Programme (RNTCP), implemented since 1993, was the second largest DOTS programme in the world by mid-2001, covering more than 400 million people. This programme mainly relies on passive case detection but it is suggested that in rural areas, active case detection should be started to assure gender-equitable access. Routine TB screening should be incorporated into maternal and child health programs in countries where TB is endemic. RNTCP should mobilise interventions at rural level and promote more involvement of lady health workers to improve earlier identification of those who are ill.

Tuberculosis and infectious disease proponents and maternal and child health care workers must work better together on a common agenda to eliminate stigma and ultimately eliminate TB’s impact on women.

**REFERENCES**

Yadav, et al.: Prevalence of tuberculosis in females in rural area


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AA- Provided clinical data, SG- Compilation of the data.

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