

УДК 615.89

**HASSAN NAZIMUL, EVA FARZANA AKTHER** students (Bangladesh)  
Scientific adviser **Kuntsevich Z. S.** d.p.s., as professor  
Vitebsk State Order of Peoples' Friendship Medical University, Vitebsk, Belarus

## **THE USE OF MEDICINAL PLANTS FOR THE TREATMENT OF TUBERCULOSIS IN BANGLADESH**

Bangladesh has the highest rate of Tuberculosis affecting many regions according to the research there are around 1.6% cases of Multi Drug Resistance Tuberculosis (MDR-TB) and previously treated 29% of cases and is responsible for 70000 deaths every year. Tuberculosis is highly contagious disease caused by Mycobacterium which belongs to the family Mycobacteriaceae and order Actinomycetales, the other forms of Mycobacterium called as Mycobacterium leprae which cause leprosy. The way of spreading of Tuberculosis is through inhaled droplets from the infected person. Overall we see that tuberculosis is an ubiquitous diseases affecting birds, human beings and animals therefore it remains as a social disease and it occurs in socioeconomic conditions where there is inaccessibility to medical devices, poverty, unhygienic and also Mycobacterium Tuberculosis is an HIV-AIDS Indicator disease seen in immunocompromised patients. Most commonly Tuberculosis affects the lungs and the symptoms that arises are Hemoptysis, Fever, Intoxication, Productive cough in X-ray findings we can see that there is pleural effusion, mediastinal lymphadenopathy and consolidation. A positive TB skin test or blood test ensues that the person have Tuberculosis and the common finding in blood test are increase in Leukocytes and Erythrocyte sedimentation rate.

There are currently Medicinal plants that have been isolated in some areas of Bangladesh from the Bogra district which are treated by kavirajis, they are traditional medical practioners which have been known to cure deadliest diseases of all time. The plants were collected by from them and were collected by the Bangladesh National Herbarium(BNH)The plants that belong to the family parenthesis were known to treat Tuberculosis these plants are *Eucalyptus Globules* the essential oils extracted was investigated against selected Mycobacterium strains, *Adhatoda vasica* and their chemical compounds like bromhexine and ambroxol inhibit the infection, *Calendula officinalis* extract is also beneficial for inhibiting the infection, *Ricinus communis* the leaves are collected washed and dried and made into powder which was beneficial for the inhibition of their reproduction. These medicinal plants are being used mostly in tropical areas therefore, it is important that the modern scientific studies should be conducted on other plants towards isolation and

identification of various compounds through which Multi resistance drug Tuberculosis can be effectively treated which is safer option for human kind.

Therefore, herbal medicinal plant extracts can be used for the prevention of wide variety of diseases and it's safer and effective than synthetic drugs.