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The importance of Qom province in new strains of *Mycobacterium bovis* distribution in Iran

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Background and Aims: In many countries, the cattle Bovine Tuberculosis (BTB) disease is caused by Mycobacterium bovis. In Iran for cattle BTB control, program of testing and slaughtering infected animals was implemented seriously since 1973, and the subsequent of this program, the disease prevalence has decreased from 5% to 0.14% in the country.

Materials and Methods: All samples were Culture under sterile condition at Lowenstein-Jensen medium and after growing of the Mycobacteria, then Ziehl-Neelsen and Fluorochrome Staining were applied. Subsequently genomic DNA was extracted from colonies and *Mycobacterium tuberculosis* complex identified by PCR at IS6110 segment. Twenty two isolates of *Mycobacterium tuberculosis* complex obtained out of 30 samples and PvuII-PGRS and PvuII-DR RFLP was conducted on all isolates.

Findings and Results: 21 acid-fast bacteria were observed in 30 samples of lymphatic nodes, that they were positive with Mycobacterium-specific primer. The enzymatic digestion of 21 samples was carried out with enzyme PVUII well and the results of PGRS and DR probes indicated the presence of three and four circulating strains in cattle bovine tuberculosis samples, respectively.

Conclusion: This study is a part of a national project that is being implemented throughout in Iran. Considering that Qom province is one of the main centers of livestock dealing in Iran, so identification and quarantine of suspected livestock in this province have particular importance in the control and eradication of cow tuberculosis disease in Iran.

Biography

Nader Mosavari is the Head of Tuberculosis and Glanders Department in Razi Vaccine & Serum Research Institute. His research interest belongs to Burkholderia mallei and Microbiology.

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