Objective: Today clinical laboratories is one of the most important centers in the world healthy system. assisted reproductive laboratory that kind of laboratory which widely used in treatment of infertility of men and women. There are major risks and complications from assisted reproductive technology, one of them is infection that can happen by health workers, samples from patients(that collected in infectious conditions), the laboratory atmosphere, contaminated equipment and storage vessels, as well as materials and supplies utilized during procedures and they are cause of various complications such as vaginal infection, Pelvic infection, endometriosis(leads to infertility in many women who may eventually seek In Vitro Fertilization(IVF)), peritonitis with acute abdomen (associated with abscess rupture should be handled swiftly and surgically and may require oophorectomy), systemic candida infection and colonic inflammatory. Microorganisms like Actinomycetes, Aspergillus species, Bacillus pumilus, Bacillus sphaericus, Bacillus subtilis, Corynebacterium, Escherichia coli, Micrococcus luteus, Micrococcus lylae, Staphylococcus aureus, Staphylococcus cohnii, Staphylococcus epidermidis, and Staphylococcus warneri were found in assisted reproductive laboratories and they can grow if the condition is proper. Environmental health is one of the branch in health science that studied and control all of the factors influencing human physical environment, including physical, chemical and biological agents which may cause human disease, disability and discomfort. In this study we want to approach a holistic standard in health environmental of assisted reproductive laboratories to create uniformity in this places to reduce infection and its complication.

Methods: Evaluation information and data related about assisted reproductive laboratory and obtain guide line of Laboratory disinfection from Workplace health center of the Ministry of Health in Iran and other valid references. Examining that which places have the potential of causing infection or supporting growth of microorganism infection in the laboratory and find the proper and scientific solution. Design timetable that includes information such as what and how to do, when and who must be do it, to implementation a particular way to reduce infection in assisted reproductive laboratories.

Results: bring out human cells outside of the body will take away from the body's immune system, can be infected easily by various methods. Control the proper use of methods that designing for each section of laboratory, record the results and monitoring them can help to reduce the incidence of infections Laboratory and its complication.

Conclusion: Given that most of these infertile patients are otherwise young, healthy women, infection can be very troubling for both the patient and physician involved. Avoid these complication is very important. Furthermore, staying up to date on different techniques in environmental health can help to minimize the risks of infection. With the establishment of environmental health standards for prevention of infection, we can minimized The spread and consequences of infection and integrated the methods will used in assisted reproductive laboratories in country.

Key words: IVF and IUI, Disinfection Laboratory, Environmental Health, assisted reproductive laboratory