Introduction: Hydatid cyst or echinococcosis is caused by the metastasis stage (the larval stage) of a worm, called Echinococcus granulosus. This insidious disease is common between animals and human beings and humans are random intervening hosts in the life cycle of the parasite. Canidae and other carnivorous creatures are known as the final hosts of this parasite, and they are infected when they feed on the organs of herbivorous creatures which are polluted with this parasite. The egg of this parasite finds its way into the environment through the faeces of Canidae and human eat these parasite eggs accidentally and become intervening hosts. Parasites hatch inside the digestive tract and the resulting larvae that passes from the intestinal wall into the portal bloodstream and the liver; if they cross the liver, they reach other organs of the body and become hydatid cysts. Liver is the most commonly infected organ; other organs are infected less, and the incidence rate of hydatid cyst in the brain is about 0.2%. Echinococcus granulosus, which mostly causes single-hole cystic lesions, is mainly common in contexts which involve animal husbandry with the simultaneous presence of dogs. This disease is common endemically in different countries, including Middle East, Mediterranean countries, South America, North Africa and Australia. Although brain hydatid cyst is seen in 0.2% of all cases of infection by the Echinococcus granulosus parasite, the incidence rate might be higher in some Mediterranean regions, such as Turkey. Iran is, also, considered an endemic area for the incidence of hydatid cyst.

Methods: In this review article, the databases Medline, Cochrane, Science Direct, and Google Scholar were thoroughly searched to identify the studies Breast hydatid cyst. In this review, the papers published until early January 2017 that were conducted to study the Breast hydatid cyst were selected.

Presenting the patient: The patient is a 32-year-old married lady who referred to hospital and had a mass in the left breast in 2016. Following the referral to a doctor and clinical examination, and according to the age of the patient, an ultrasound diagnosis was requested for the patient at the first step. The image of a cystic lesion with a specific area of 22 mm*29 mm in the left upper quadrant is indicated.

Conclusion: Considering that hydatid cyst is often seen in the liver and lungs, it requires precise examination when it is found in an unusual organ, and these cysts must be differentiated from cysts of the origin of neoplasm and other lesions that are more prevalent, because proper diagnosis is necessary for the treatment and prevention of ill-treatment.

Keywords: Breast, hydatid, cyst
serum. Diagnosis of the disease is also possible through Serologic tests against Echinococcus antigen using Eliza method; the rate of liver involvement is 80-100%, lung involvement is 50-56%, and in rare organs, such as the spleen, the incidence rate is less than 1%. Hydatid cyst has the potential of infecting all organs; however, liver is the most commonly, 65-70%, infected organ, lungs occupy the next position, and bone structure and rare organs are the least infected areas, with an incidence rate of less than 2%. Based on the findings of a research which was conducted in Iran, 1759 patients suffering from hydatid cysts turned out to have infected rheumatoid arthritis, lymph nodes, tonsils, pancreas, skin, sweat glands, ovaries, uterus, and salivary glands. Based on a 15-year study conducted in Tehran, the incidence rate of this disease in different organs of the body was like the following: liver 46%, lungs 44%, brain 2%, kidneys 1.5%, testicles, spleen, breast, gallbladder, and uterus and heart less than 1%. Because of the risk of spontaneous or traumatic ruptures, hydatid cysts are usually surgically removed. Due to the very low prevalence of hydatid cysts, pre-operative diagnosis has to be carried out with utmost precision. Considering that hydatid cyst is often seen in the liver and lungs, it requires precise examination when it is found in an unusual organ, and these cysts must be differentiated from cysts of the origin of neoplasm and other lesions that are more prevalent, because proper diagnosis is necessary for the treatment and prevention of ill-treatment.

REFERENCE: