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DIAGNOSTIC ROLE OF INTRA OPERATIVE OVARIAN CYST FLUID CYTOLOGY IN DETERMINING MALIGNANCY

Abstract

Malignancy of the ovarian cyst is a common neoplasms of female genital organs. Frozen section is an important and helpful method in intra operative diagnosis of suspiciously malignant ovarian cyst. But frozen section facilities are not available at many hospitals, especially in developing countries. The aim of this study is to determine the role of intra operative cytological diagnosis of ovarian cyst fluid. The present study was conducted in Pathology Department Dr. Soetomo hospital, Surabaya, Indonesia on November 1st 2012 until January 31st 2013. Thirty cases of ovarian cyst fluid by intra operative aspiration were collected. Cytological smear were prepared by centrifuging cyst fluid obtained by intra operative aspiration. Cytological result were compared with histopathological diagnosis as the gold standard. Overall the accuracy, sensitivity and specificity of intra operative cytological diagnosis of ovarian cyst fluid were 86.7%, 76.5% and 100%, respectively. The positive and negative predictive value were 100% and 76.5%. Cytological examination of ovarian cyst fluid obtained by aspiration intra operative demonstrated high specificity and positive predictive value. (FMJ 2013;49:119-123)

Keyword: ovarian, cyst, fluid, cytology, 

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