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Abstract
According to Department of Health, Executive Yuan, Taiwan, R.O.C. latest statistics, the annual average mortality of ovarian cancer were 248 from 1994 to 2000, and 297 women were died in 2001, even the death toll had risen to 308 women in 2002. Medical researches have reported that unobvious symptoms in the early stage of ovarian cancer result in the very low survival rate. It is often in the last stage of ovarian cancer when patients discover the illness. This indeterminate incubation threatens the women's life all the time. Sonography diagnostics has been recently proven as the one major and popular detection facility in the early stage. However, in clinical there is an issue about the shortage of the tumors color and the area of that color information. Furthermore, the individual-dependent judgment and clinical experience means to differentiate features of early stage's cancer cells as benign or malignant tumors is quite different from one doctor to another such that the diagnostic results are varied. In this paper we are not only adopting the Color Doppler Imaging to analyze and trace the varied situation of the ovarian tumors at the color and the area of that color, but the symptoms of tumor vague appearance is fully expressed by the statistic skewness and kurtosis. Finally we exploit MPEG-7 to develop standard feature descriptions of 2D sonography ovarian tumors based on the scoring system of ovarian cancer provided by female cancer researchers. Therefore, across the implementation SOTS, the diagnostician could search out the tumor characteristics, hyper access, and manipulate in different domain.

The result of the SOTS development can help to manage effectively and improve accurately diagnosis by characteristic of the ovary tumor and 2D Sonography. By means of the other SOTS functions, such as friendly user interface, objective scoring system, Color Doppler Imaging and multimedia content information database all provide the remarkable contribution to the medical diagnosis. To sum up, across the SOTS not merely accelerate the case diagnosis progress and elevate the doctor experience, but also help medical case' swap and raise the positive predictive value evidently.
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