Value of CT combined with TM detection in diagnosis of non-small cell lung cancer

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View from specialist: It is creative, and of certain scientific and educational value.

[ABSTRACT] Objective: To explore the value of CT in combined with serum tumor marker (TM) in determining the diagnosis of non-small cell lung cancer. Methods: A total of 160 patients histopathologically diagnosed with non-small cell lung cancer who were admitted in our hospital were included in the study including 68 cases diagnosed with adenocarcinoma, and 92 patients suffered from squamous carcinoma. All patients underwent CT examination and the serum TM level was determined. The accuracy of CT in combined with TM detection in diagnosis of non-small cell lung cancer was analyzed. Results: The diagnostic coincidence rate of CT in diagnosing adenocarcinoma and squamous carcinoma was higher than that by TM detection, and the diagnostic coincidence rate by the combined examination was significantly higher than that by single examination ($P < 0.05$). The serum CYFRA21-1 and CEA mean values in the two types of non-small cell lung cancer patients were significantly higher than the positive standard values ($P < 0.05$). The serum CYFRA21-1 value in the squamous carcinoma patients was significantly higher than that in the adenocarcinoma patients ($P < 0.05$), while the serum CEA value in the adenocarcinoma patients was significantly higher than that in the squamous carcinoma patients ($P < 0.05$). Conclusions: It can be concluded that CT in combined with TM detection can enhance the accuracy of detecting non-small cell lung cancer, which provides a basis for developing a clinical therapeutic schedule.

[KEY WORDS] CT, TM, Non-small cell lung cancer, Diagnosis