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Role of contrast enhanced ultrasound guidance in core needle biopsy for diagnosis of cervical tuberculous mycobacterial lymphadenitis

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To investigate the role of core-needle biopsy (CNB) guided by contrast-enhanced ultrasound (CEUS) played in the diagnosis for cervical tuberculous mycobacterial lymphadenitis (TML). One hundred and seventy one lymph nodes in 171 patients with pathological confirmation of TML were retrospectively enrolled. All had undergone CNB before the final surgery. The patients were assigned to either conventional ultrasound guided CNB group (n=87) or CEUS guided CNB group (n=84). The comparison of two groups on diagnostic efficacy in terms of sensitivity was statistically made. Subgroup analyses on lymph node size were performed furthermore. Among the 171 patients, one hundred and forty one patients were directly diagnosed to be TML in CNB, which were consisted by 77 patients in CEUS- guided CNB group and 64 patients in conventional ultrasound guided CNB group. The sensitivities were 91.7% (77/84) and 73.6% (64/87), respectively ($p<0.05$). As to subgroup analyses, differences among sensitivities caused by the two guiding methods were significant in medium size group (i.e. diameter was 2.0-3.0 cm) and large size group (i.e. diameter was larger than 3.0 cm), 93.1% for CEUS group vs. 74.2% for conventional ultrasound group ($p<0.05$) and 85.7% for CEUS group vs. 57.1% for conventional ultrasound group ($p<0.05$), respectively. However, no significant difference was found in small size group (i.e. diameter was smaller than 2.0 cm) (96.3% for CEUS group vs. 92.9% for conventional ultrasound group, $p=0.57$). Comparing with conventional ultrasound guided CNB, further benefits could be gained through CEUS guided CNB in TML diagnosis, especially for those whose diameter was larger than 2.0 cm.

Biography

Dan Zhao has completed his Bachelor's degree from Zhejiang University School of Medicine in 2005. And then he has been working as an Ultrasound Physician in Hangzhou Red Cross Hospital. Now, he is a graduate student of Zhejiang University School of Medicine and will complete his Master's degree in June 2019. He is major in Medical Imaging and Nuclear Medicine.

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