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高频超声检测2型糖尿病周围神经病变患者足部肌肉萎缩

Detecting foot muscles atrophy in patients of type 2 diabetes mellitus with diabetic peripheral neuropathy by using high-frequency ultrasonography

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中文摘要:

目的 探讨高频超声技术对2型糖尿病(T2DM)及合并周围神经病变(DPN)患者足部肌肉萎缩的诊断价值。方法 收集106例T2DM患者,分为两组:A组56例,为T2DM伴DPN患者,B组50例,为T2DM不伴DPN患者;另选同期50名健康志愿者作为对照(C组)。应用高频超声观察受试者非优势足趾短伸肌(EDB)和第一、二跖趾间肌群(MIL),测量EDB横径、厚度和横截面积以及MIL厚度。结果 A组EDB横径、厚度和横截面积及MIL厚度均显著小于B组和C组(P 均 <0.01);B组EDB横径和横截面积及MIL厚度显著小于C组(P 均 <0.01)。结论 高频超声技术能够客观评价T2DM及合并DPN患者足部肌肉萎缩。

英文摘要:

Objective To explore the value of high-frequency ultrasonography in detecting foot muscles atrophy in patients of type 2 diabetes (T2DM) with or without diabetic peripheral neuropathy (DPN). **Methods** One hundred and six T2DM patients were collected and divided into group A (T2DM with DPN, $n=56$) and B (T2DM without DPN, $n=50$), and 50 healthy subjects were enrolled as control (group C). The non-dominant foot were examined with high-frequency ultrasonography. The transverse diameter, thickness and cross-sectional area of the extensor digitorum brevis (EDB) muscle and thickness of muscles between the first and second metatarsal bone (MIL) were measured. **Results** The transverse diameter, thickness and cross-sectional area of EDB and thickness of MIL in group A were significantly smaller than those in group B and C (all $P<0.01$). The transverse diameter and cross-sectional area of EDB and thickness of MIL in group B were significantly smaller than those in group C (all $P<0.01$). **Conclusion** The foot muscles atrophy of T2DM patients with or without DPN can be detected with high-frequency ultrasonography objectively.

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