

Ultrasonography of the Skin (Literature Review)

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Abstract

In recent years there has been increasing the value of ultrasonography in non-invasive assessment of different conditions of the skin and subcutaneous tissue. For this purpose the modern digital ultrasound systems utilizing high-resolution transducers at frequencies to 12–17 MHz are used. Such equipment can provide the definition of all the skin layers and different conditions of subcutaneous tissue. It enables to determine the location, size and echo structure of the investigated lesion. The analysis of the most superficial skin structures and small size formations is informative using specialized high-frequency probes at frequencies from 20 MHz. The sonographic characteristics of different pathological skin conditions and subcutaneous tissue were analyzed. High-resolution high-frequency sonography at frequencies from 12 MHz may be one of the main methods in the diagnoses and management of dermatovenerological, dermatocosmetological and oncological diseases.

Key words: Ultrasonography, Skin, Subcutaneous Tissue, Dermatology, Cosmetology.

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