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INSULIN-INDUCED LIPOHYPERTROPHY DIAGNOSTICS IN DIABETIC PATIENTS: SUBCUTANEOUS FAT ULTRASONOGRAPHY

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Objectives:

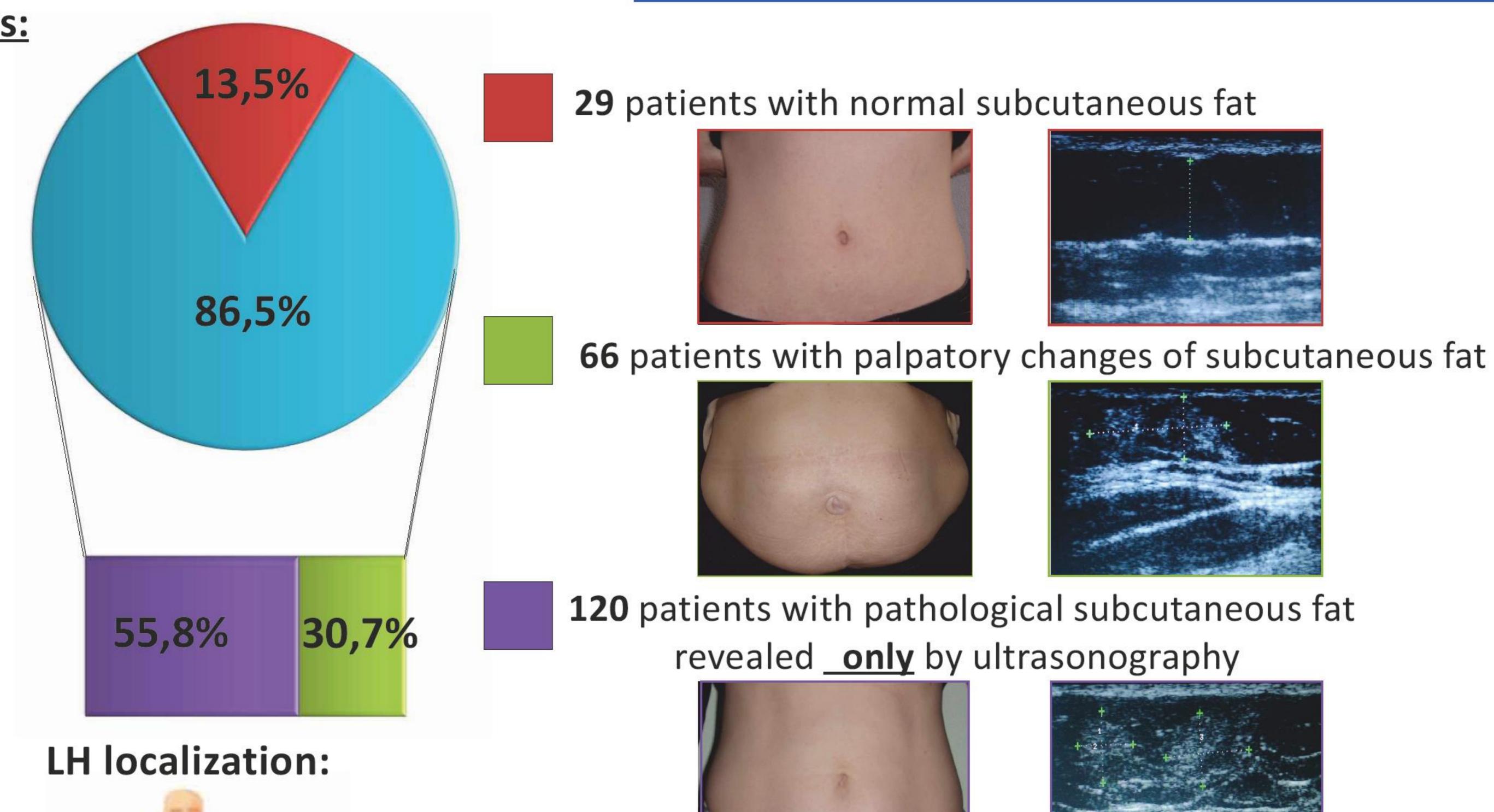
To compare the frequency of insulin induced lipohypertrophy (LH) revealed by ultrasonography of subcutaneous fat with those founded by palpatory method in diabetic patients.

Material and methods:

215 diabetic patients under the treatment with insulin a mean 10 years

Observation, palpation techniques, and ultrasonography of subcutaneous fat of injection sites









186 patients with LH revealed by ultrasonography

- 131 - paraumbilical regions (61%)

- 31 - paraumbilical regions and lateral surface of hips (15%)

- 24 - paraumbilical regions and lateral surface of shoulders (11%)

Conclusions:

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LH have been modified due to good quality modern insulin and expansion their concentration.

As a result, pathologic areas of subcutaneous fat have been revealed in 30,7% patients by palpation, while LH have been found in 86,5% subjects by ultrasonography.

Ultrasonography of subcutaneous fat of injection sites could be used to diagnose LH in diabetic patients in clinical daily practice







