

# SUPPLEMENTARY MATERIAL 1

*Dermatology Reports*

**Title: Successful treatment of idiopathic Knuckle Pads with a combination of high-dose Salicylic acid and Urea topical keratolytics: a case report**

Davide Sogliani<sup>1,\*</sup>, Chiara Mura<sup>1</sup>, Giorgio Tamborrini<sup>2</sup>

<sup>1</sup>Department of Biology and Biotechnology, University of Pavia, Via A. Ferrata, 9 - 27100 Pavia, Italy. Davide Sogliani, ORCID ID: 0000-0002-6455-7823; Chiara Mura, ORCID ID: 0000-0001-9323-046X

<sup>2</sup>UZR, Ultrasound Center Basel, Switzerland.

\*Corresponding author [davide.sogliani@gmail.com](mailto:davide.sogliani@gmail.com)

In the following slides, a series of ultrasonographic images acquired at 13 MHz from the refractory KP of the right big toe (cf. manuscript; Fig.2) of the *case report* patient is presented.

Supplementary figures 3 and 4 (i.e., Fig.S3/4) were taken at Doppler analysis.

In Supplementary figures 3, 4, 5, 6 (i.e., Fig.S3-6) the US image of the right big toe PIP joint is compared with the one of the left big toe PIP joint, in which the KP completely disappeared after the treatment with high-dose urea and salicylic acid keratolytics.

Through this series, it can be observed how, after the resolutive treatment (cf. *Resolutive therapy* section of the manuscript), the KP of the left hallux (here, *alluce sinistro*; Italian) has completely disappeared without leaving visible signs on ultrasound analysis. On the contrary, the right hallux (here, *alluce destro*; Italian) KP was only reduced in diameter and thickness by the keratolytic treatment and appears as a dome-shaped, well-delimited, hypoechoic mass. Doppler analysis (cf. Fig.S3/4) revealed no internal flow signals.

Fig.S1

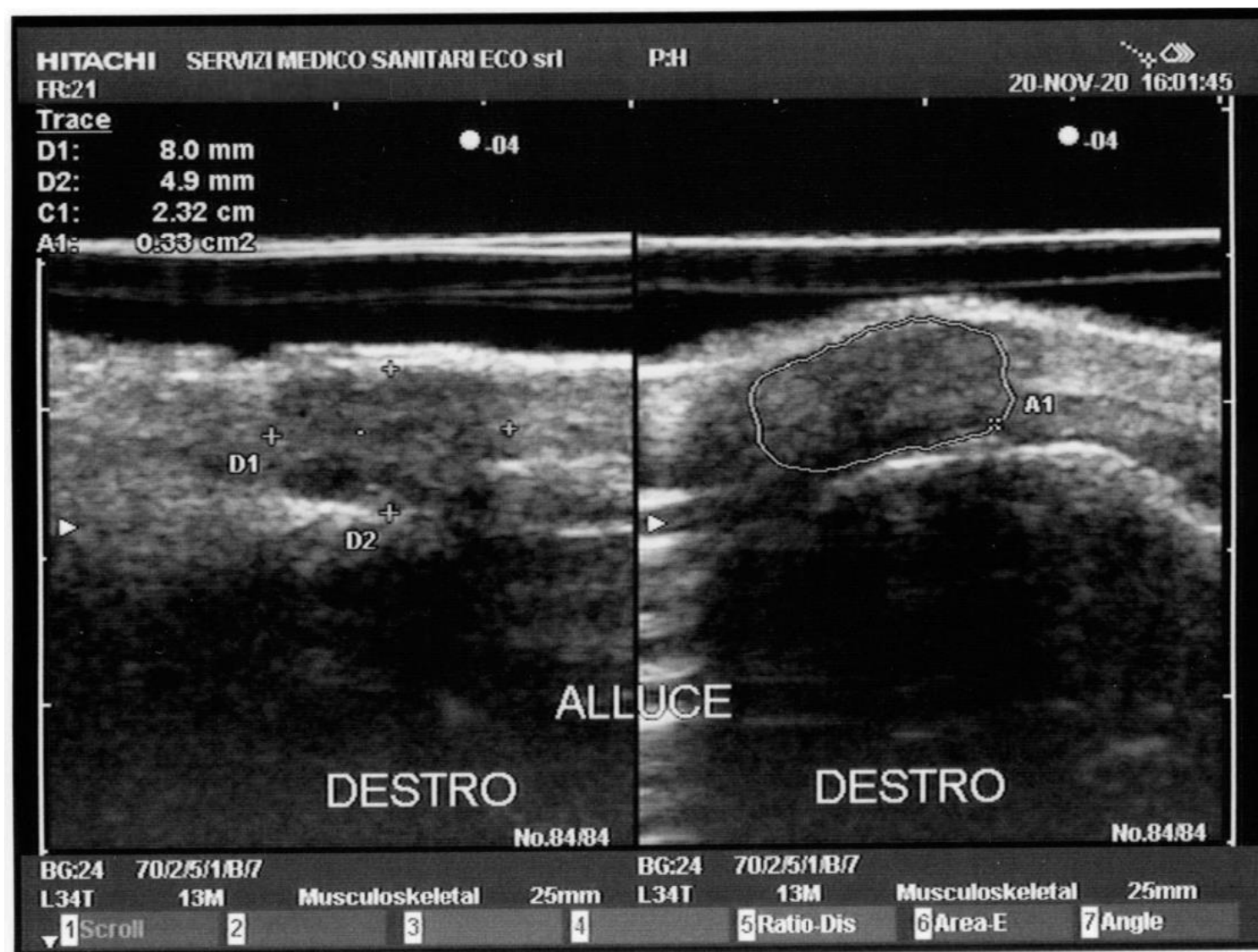


Fig.S2

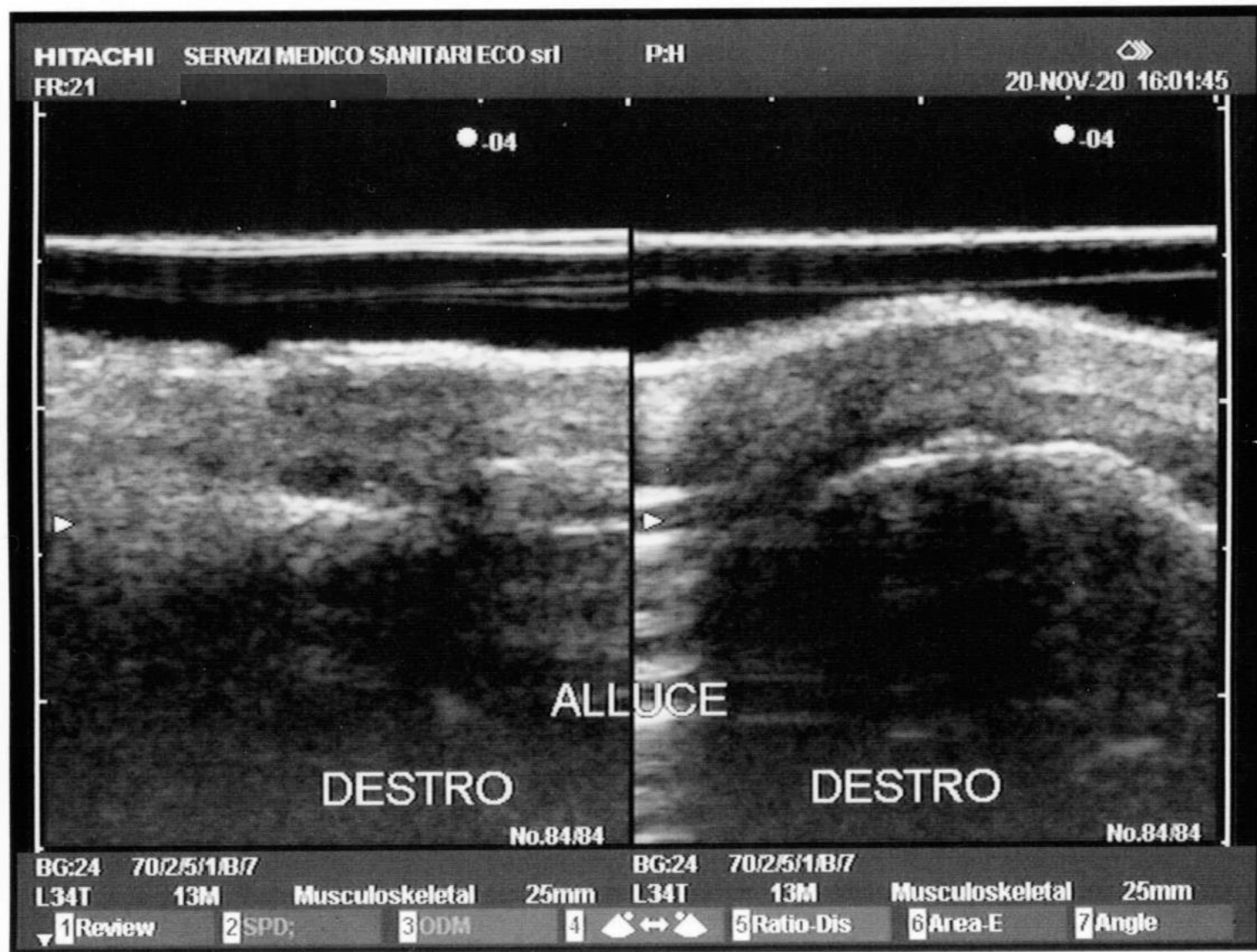


Fig.S3

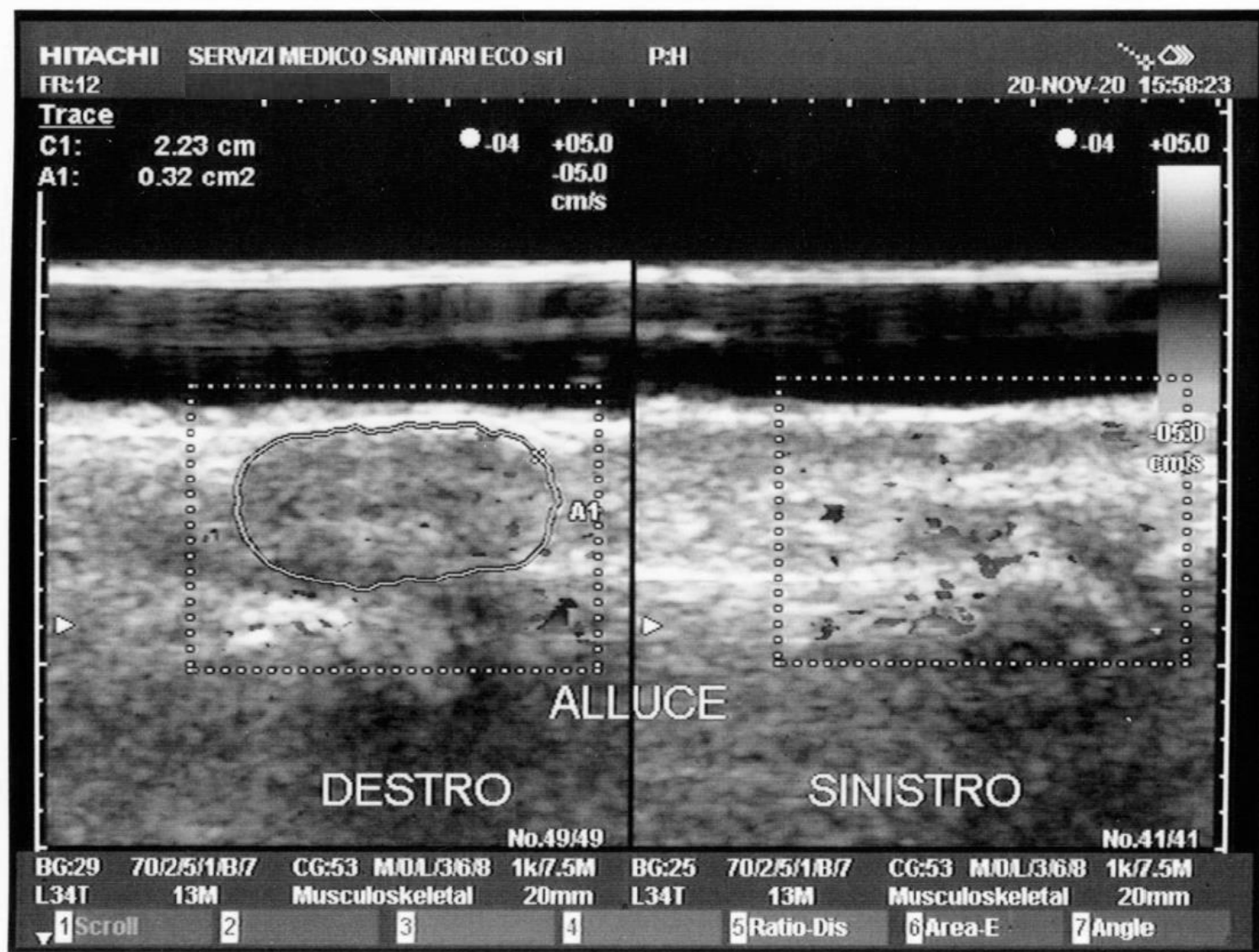


Fig.S4

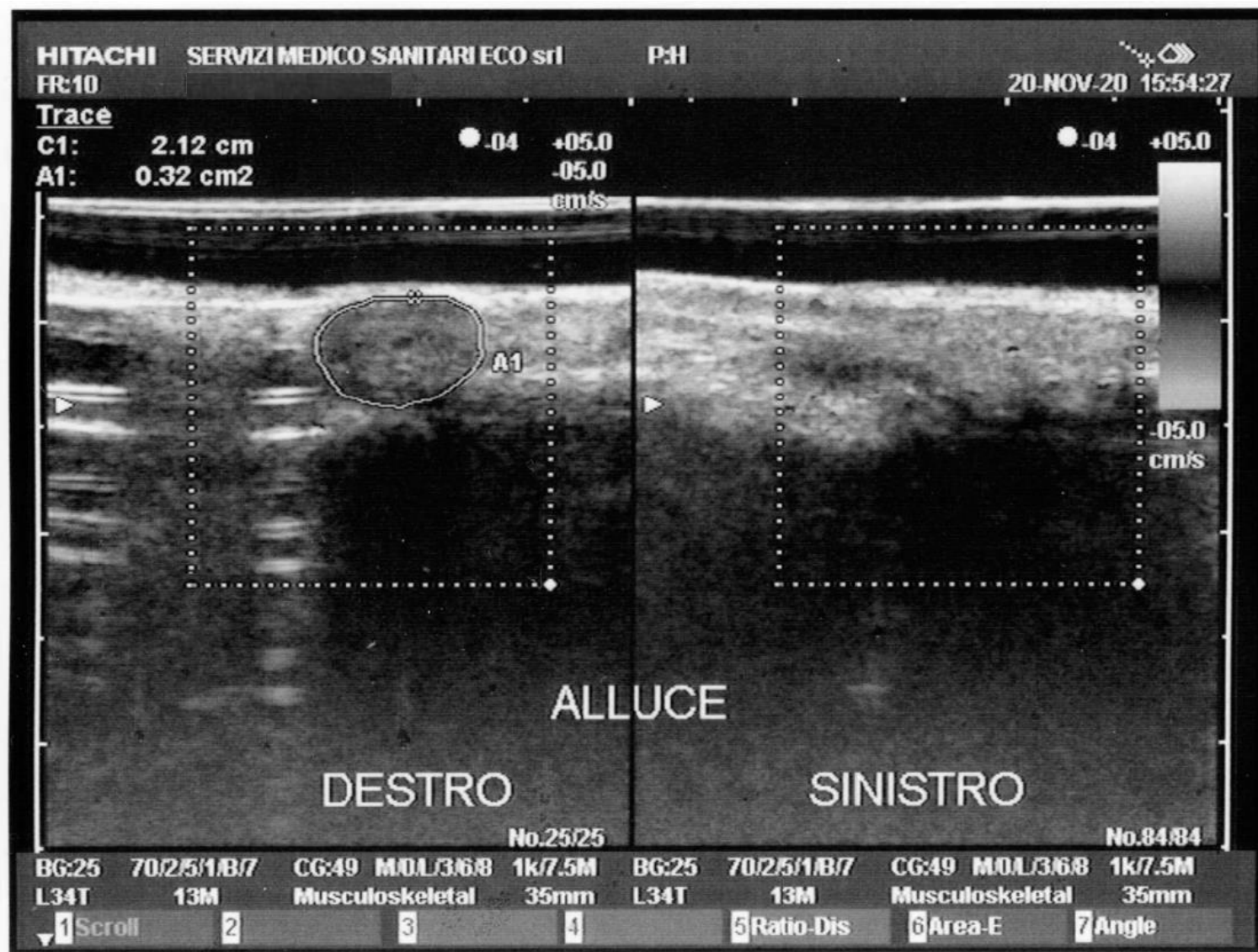




Fig.S5

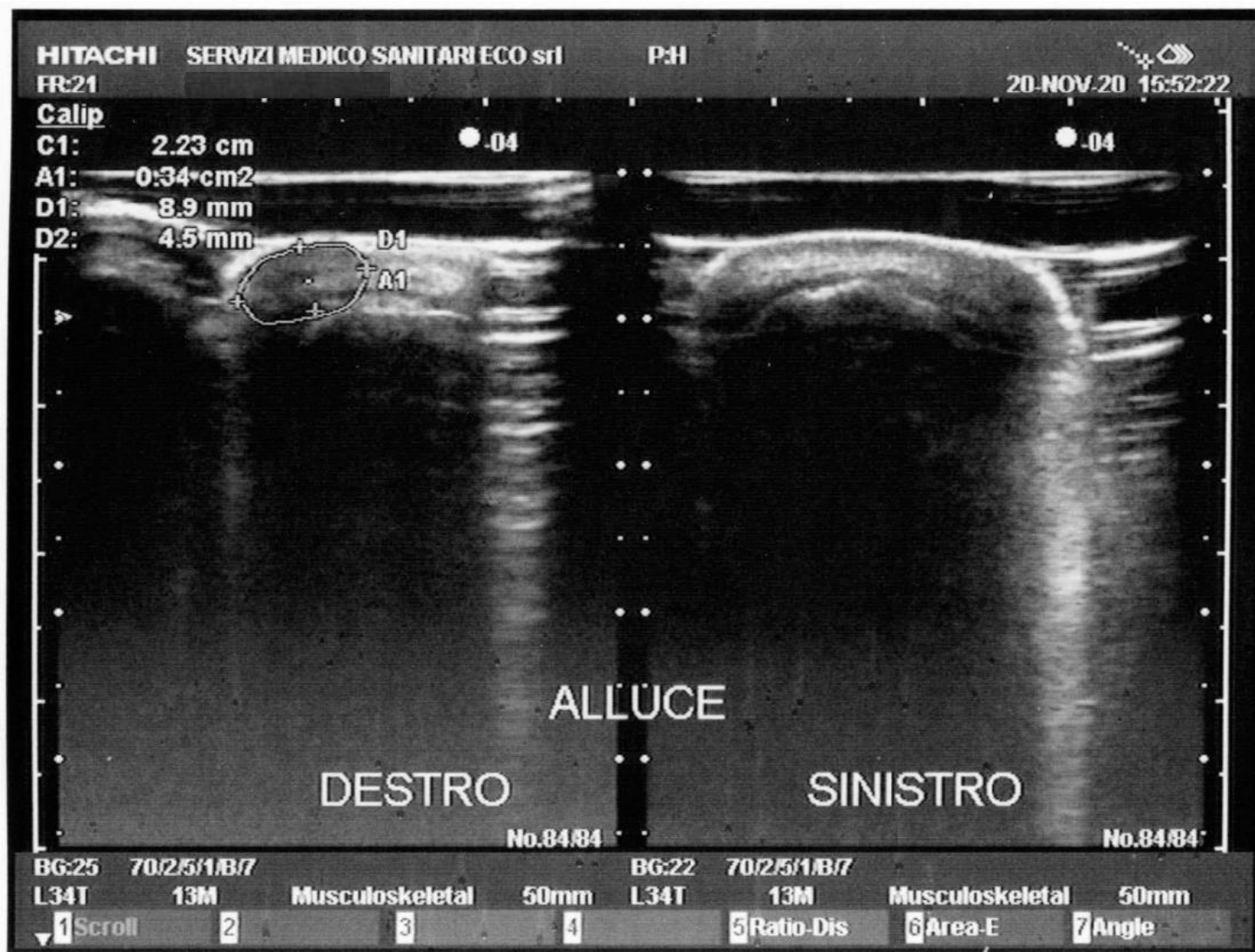


Fig.S6

