5-year-old girl with bilateral lower leg pain

C. Kloth¹ · T. Wowra² · D. Vogele¹ · M. Beer¹ · S. A. Schmidt¹

Published online: 3 June 2020
© ISS 2020

History

Five year-old girl with bilateral pain of the lower legs and pelvis for 4 weeks. Further symptoms were eyelid edema, swollen lips and a butterfly erythema on the face. Further elevated values for creatine kinase, muscle enzymes, troponin and LDH were registered, suggesting autoimmune process (Figs. 1, 2, 3 and 4).

Compliance with ethical standards

Ethical approval All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards.

Conflict of interest The authors declare that they have no conflicts of interest.

Publisher's note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

C. Kloth and T. Wowra contributed equally to this work.

The diagnosis can be found at <https://doi.org/10.1007/s00256-020-03477-x>

✉ C. Kloth
christopher.kloth@uniklinik-ulm.de

¹ Department for Diagnostic and Interventional Radiology, University Hospital Ulm, Albert-Einstein-Allee 23, 89081 Ulm, Germany

² Department of Pediatrics and Adolescent Medicine, University Hospital Ulm, Eythstrasse 24, 89075 Ulm, Germany

Fig. 1 Axial T2w MRI image of the pelvis and the extremities without contrast agent. MRI imaging was performed 2 days after admission

Fig. 2 Coronal TIRM MRI image of the thighs

Fig. 3 **a** und **b**: • First Ultrasound imaging 6 days after admission with a high-resolution 12.5 MHz transducer of superficial musculus quariceps femoris • Ultrasound imaging after 5 weeks under therapy

Fig. 4 **a** Ultrasound with a high-resolution 12.5 MHz transducer of superficial M. gastrocnemius. **b** Ultrasound imaging after 5 weeks