Images in...

Dramatic heliotrope dermatitis and uncommon pulmonary involvement in juvenile dermatomyositis

Yang Jiao, Xuejun Zeng

Department of General Internal Medicine, Peking Union Medical College Hospital and Chinese Academy of Medical Sciences, Beijing, China

Correspondence to Dr Yang Jiao, peterpumc@hotmail.com

DESCRIPTION

Juvenile dermatomyositis (JDM) is a systemic autoimmune myopathy of childhood. It is characterised by pathognomonic skin rashes and proximal muscle weakness, which are the most useful diagnostic clues.¹ Pulmonary involvement in JDM has been less reported than in adult patients² and interstitial lung disease is frequently identified abnormality by CT.³ Here we present a JDM case with severe heliotrope rash and uncommon manifestation in CT image of the lung. A 15-year-old girl presented with a 3-month history of progressive periorbital swelling and a reddishpurple rash on the upper and lower eyelids (figure 1A). Her vision acuity decreased and MRI showed only thickening of soft tissue in bilateral eyelids. Three weeks before admission, she started to present with middle grade fever, leukocytopenia, anorexia, polyarthralgia and mild symmetrical proximal muscle weakness. She had a skin rash in the V neck region and periungual vascular dilatation, but neither Gottron's papules or the shoulder shawl cutaneous signs were identified. Her lung fields were clear to auscultation. Laboratory findings demonstrated that serum levels of muscle enzymes were mildly elevated. Antinuclear antibodies and anti–Jo–1 were negative. Electromyography demonstrated myopathic changes. Histologic findings of quadriceps biopsy were compatible with JDM. CT of the chest showed multiple patchy opacities (figure 1C). The patient underwent CT-guided needle biopsy. Pathological analysis showed no signs of lung malignancy. Cultures for



Figure 1 (A) Severe reddish-purple rash around eyelids. (B) The heliotrope rash was resolved significantly 1 month after prednisone treatment. (C) Pulmonary involvement shown in CT of the chest. (D) Repeated CT scan result showed improvement after 1 month treatment.

BMJ Case Reports

bacterium, fungus and acid-fast bacillus were negative. She received prednisone therapy (1 mg/kg per day) and intravenous cyclophosphamide. One month later, the patient was free of symptoms. Her periorbital rash was significantly resolved. A repeated CT scan displayed demonstrable improvement of the pulmonary involvement.

Acknowledgements This study was funded by Beijing Nova Program (No 2008B49).

Competing interests None.

Patient consent Obtained.

This pdf has been created automatically from the final edited text and images.

Copyright 2012 BMJ Publishing Group. All rights reserved. For permission to reuse any of this content visit http://group.bmj.com/group/rights-licensing/permissions. BMJ Case Report Fellows may re-use this article for personal use and teaching without any further permission.

Please cite this article as follows (you will need to access the article online to obtain the date of publication).

Jiao Y, Zeng X. Dramatic heliotrope dermatitis and uncommon pulmonary involvement in juvenile dermatomyositis. *BMJ Case Reports* 2012; 10.1136/bcr.10.2011.5021, Published XXX

Become a Fellow of BMJ Case Reports today and you can:

- ► Submit as many cases as you like
- ► Enjoy fast sympathetic peer review and rapid publication of accepted articles
- Access all the published articles
- ► Re-use any of the published material for personal use and teaching without further permission

For information on Institutional Fellowships contact consortiasales@bmjgroup.com

Visit casereports.bmj.com for more articles like this and to become a Fellow

REFERENCES

- . Brown VE, Pilkington CA, Feldman BM, et al. Network for juvenile dermatomyositis, Paediatric Rheumatology European Society (PReS). An international consensus survey of the diagnostic criteria for juvenile dermatomyositis (JDM). *Rheumatology (Oxford)* 2006;45:990–3.
- Sanner H, Aalokken TM, Gran JT, et al. Pulmonary outcome in juvenile dermatomyositis: a case-control study. Ann Rheum Dis 2011;70:86–91.
- Tosun A, Serdaro lu G, Aslan MT, et al. Severe juvenile dermatomyositis: two patients complicated with extra musculocutaneous involvement. *Rheumatol Int* 2006;26:1040–3.