ANSWER TO PHOTO QUIZ (PAGE 299)

PERIORBITAL OEDEMA AND MUSCLE WEAKNESS

DIAGNOSIS

Based on his symptoms we suspected dermatomyositis. Diagnosis was based on skin and muscle signs and laboratory results, using Bohan and Peter's criteria (table r). Muscle weakness is the most common feature, and distribution is characteristically symmetric and proximal. The periorbital erythema with oedema is called a heliotrope rash and it is one of the hallmark features of dermatomyositis. Another hallmark feature, absent in our patient, is Gottron's sign, which refers to erythematous lesions over the hand joints. Periungual abnormalities are characteristic, although not specific, for dermatomyositis as well. Organ involvement is possible, although in our patient, a general work-up (e.g., kidney function test, urine sediment, chest X-ray) showed no signs of organ involvement.

First choice treatment for dermatomyositis is prednisone, however despite this, swallowing difficulties persisted in our patient. High-dose methylprednisolone was given and a duodenal tube for tube feeding was placed. During endoscopy, a mucosal swelling of the distal oesophagus was seen and biopsy revealed an adenocarcinoma.

The diagnosis was specified to cancer-associated-dermatomyositis. Additionally, laboratory testing revealed a positive anti-TIF1- γ -antibody, which has a strong correlation with cancer-associated dermatomyositis. In dermatomyositis, the prevalence of malignant disease is 14.8% and the relative risk for an underlying malignancy is 4.66. These numbers justify further diagnostics to screen for a malignancy in every patient diagnosed with dermatomyositis regardless of the presence or absence of specific autoantibodies associated with cancer.

Table 1. Bohan and Peter's criteria1

The diagnosis of dermatomyositis is considered definite, probable, and possible when skin rash is associated with 3, 2 or 1 muscular criteria, respectively*:

- Symmetric proximal muscle weakness determined by physical examination
- Elevation of serum skeletal muscle enzymes, including creatine kinase, aldolase, serum glutamate oxaloacetate and pyruvate transaminases, lactate dehydrogenase
- 3. The electromyographic triad of short, small, polyphasic motor unit potentials; fibrillations, positive sharp waves, and insertional irritability; and bizarre, high-frequency repetitive discharges
- Muscle biopsy abnormalities of degeneration, regeneration, necrosis, phagocytosis, and an interstitial mononuclear infiltrate
- 5. Typical skin rash of dermatomyositis, including a heliotrope rash and Gottron's sign/papules
- * Exclusion criteria: central or peripheral neurologic diseases, muscular dystrophies, granulomatous and infectious myositis, metabolic and endocrine myopathies, and myasthenia gravis.

Despite therapy, our patient rapidly deteriorated. He chose to stop treatment and passed away two days later.

REFERENCES

- Bohan A, Peter JB. Polymyositis and dermatomyositis. N Engl J Med. 1975;292:344-7.
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- Qiang JK, Kim WB, Baibergenova A, Alhusayen R. Risk of Malignancy in Dermatomyositis and Polymyositis. J Cutan Med Surg. 2017;21:131-6.