entine dihydrochloride in this interdisciplinary case. For the remaining lesions, we offered liquid nitrogen cryotherapy or ablative laser resurfacing to the patient. Unfortunately, the patient was subsequently lost to follow-up.

Simin Hellriegel, MD
Hans P. Bertsch, MD
Steffen Emmert, MD
Michael P. Schön, MD
Holger A. Haenssle, MD

Author Affiliations: Clinic of Dermatology, Venereology and Allergology, University Medical Center, Georg-August-University, Göttingen, Germany (Hellriegel, Bertsch, Emmert, Schön, Haenssle).

Corresponding Author: Holger A. Haenssle, MD, Clinic of Dermatology, Venereology and Allergology, University Medical Center, Georg-August-University, Göttingen, Robert-Koch Strasse 40, 37075 Göttingen, Germany (h.haenssle@med.uni-goettingen.de).


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Cutaneous Rosai-Dorfman Disease Successfully Treated With Low-Dose Methotrexate

In 1969, Rosai and Dorfman1 first described a series of patients with sinus histiocytosis with massive lymphadenopathy, characterized by histiocytic infiltration of lymph nodes and tissue. To our knowledge, as of 2006, there were a total of 86 reported cases of cutaneous Rosai-Dorfman disease (CRDD) in the literature,2-3 with several additional cases reported since then.

Report of a Case | An African American woman in her 50s reported a sudden eruption of dozens of facial papules and nodules 3 months previously and a 7-month history of a groin plaque. She had been treated with cefadroxil, topical clobetasol, oral prednisone, and a short course of oral isotretinoin without significant benefit.

Physical examination revealed approximately 75 pink-domed papules on the cheeks, upper lip, and chin (Figure 1) and dozens of red-brown papules becoming confluent on the right inguinal and suprapubic skin. Laboratory examination revealed a mildly elevated erythrocyte sedimentation rate (32 mm/h) and total triglyceride levels (145 mg/dL). Findings of complete and differential blood cell counts, a comprehensive metabolic panel, serum protein electrophoresis, and a light chains assay were within normal limits. Complete computed tomography of the chest, abdomen, and pelvis revealed no significant retroperitoneal, mesenteric, or pelvic lymphadenopathy. Biopsies from the groin revealed a dense infiltrate of lymphocytes and large histiocytes with abundant pale cytoplasm (Figure 2). The histiocytes showed emperiplois of lymphocytes and occasionally red blood cells. The histiocytes seen in CRDD stain positively for macrophage marker CD68. The histopathologic differential diagnosis also includes Langerhans cell histiocytosis. While S-100 may stain positively in both CRDD and Langerhans cell histiocytosis, findings of CD1a staining are characteristically negative in CRDD. In our case, cells did not stain with melanocyte markers Melan-A or HMB45 or with cytokeratin AE1/AE or CD34 as in epithelioid sarcoma. Findings of acid-fast bacilli and Grocott methenamine silver stainings were negative.

The patient’s prednisone dose was tapered, and she began treatment with oral methotrexate, 15 mg once weekly, and significant improvement was noted over the next 11 months. Subsequently, the methotrexate dose was tapered to 5 mg...
A dense infiltrate of lymphocytes, neutrophils, and large histocytes with abundant cytoplasm; histiocytes show emperipolesis of lymphocytes (hematoxylin-eosin, original magnification ×40).

weekly for the next 4 months, and patient showed a complete clinical response. During this time, she also received several intralesional Kenalog injections to the larger nodules of the face and groin.

**Discussion** | There have been a variety of treatment techniques used for CRDD, including cryotherapy, surgical excision, irradiation, oral corticosteroids, dapsone, thalidomide, and isotretinoin. To our knowledge, the use of methotrexate alone or in combination with other agents has been reported in 9 cases of systemic Rosai-Dorfman, and a complete to partial response was reported in most cases.4 By contrast, methotrexate therapy has been reported in only 3 cases of CRDD, and partial or no improvement was reported.3,5,6 However, in all of these cases, the eruption had already been present for well over a year. In our patient, a lack of response to prednisone, preexisting diabetes, and significant disease burden prompted the choice of low-dose methotrexate, to which a complete clinical response was seen over 11 months.

Though the exact cause of CRDD remains unknown, the presence of Epstein-Barr virus, human herpesvirus 6 by polymerase chain reaction, and reported eruption after vaccination7 with spontaneous remission over months to years suggests that CRDD is a benign reactive process involving a particular pattern of immune dysregulation. Early diagnosis remains a challenge in CRDD owing to its nonspecific clinical manifestations, including variable numbers of papules, nodules, plaques, or tumors. Timely diagnosis and initiation of methotrexate therapy may be key to effecting a rapid clinical remission while this disease remains in its active phase.

Natalie Z. Sun, MD
Jessica Galvin, DO
Kevin D. Cooper, MD

Author Affiliations: Department of Dermatology, University Hospitals Case Medical Center, Case Western Reserve University School of Medicine, Cleveland, Ohio.

**Paraproteinemia-Associated Scleredema Treated Successfully With Intravenous Immunoglobulin**

Scleredema is a fibromucinous connective tissue disease characterized by symmetric, nonpitting edema and induration of the face, neck, and trunk. Although the pathogenesis remains elusive, associations with infection, diabetes mellitus, and paraproteinemia have been established.1 Paraproteinemia-associated scleredema is typically characterized by a progressive course, for which no standard therapeutic protocol exists.2 To our knowledge, the patient described herein represents the first reported case of scleredema with paraproteinemia successfully treated with intravenous immunoglobulin (IVIG).

**Report of a Case** | A woman in her 40s presented with a 2-year history of progressive erythema and induration of the face, neck, and upper trunk. She denied a history of preceding infection or diabetes mellitus. Physical examination revealed erythema, brawny edema, and induration of the face, neck, upper trunk, and upper arms. There was significant limitation of neck flexion, extension, and lateral rotation as well as shoulder abduction and internal rotation (Figure, A). The patient denied difficulty swallowing or restricted breathing.

A skin biopsy from the upper back revealed dermal thickening with separation of enlarged collagen bundles by Alcian blue–positive mucin deposition, consistent with a diagnosis of scleredema. Findings from a complete metabolic panel, complete blood cell count, and assays for fasting glucose and glycosylated hemoglobin levels were within normal limits. Serum protein electrophoresis revealed an abnormal globulin peak. Immunofixation confirmed an IgA κ-band, and serum IgA level was elevated (933 mg/dL; normal range, 140-260 mg/dL). Investigation for multiple myeloma was negative, with normal findings on skeletal survey, bone marrow biopsy, and urine