

# A Case of Erythema Elevatum Diutinum Associated with IgA Monoclonal Gammopathy and Multiple Myeloma

Shadi Jarjous MD

*Lehigh Valley Health Network, Shadi.Jarjous@lvhn.org*

Cheryl Bloomfield MD

*Lehigh Valley Health Network, Cheryl\_A.Bloomfield@lvhn.org*

James Ross MD, FACP

*Lehigh Valley Health Network, James.Ross@lvhn.org*

Follow this and additional works at: <http://scholarlyworks.lvhn.org/medicine>



Part of the [Medical Sciences Commons](#)

---

## Published In/Presented At

Jarjous, S., Bloomfield, C., & Ross, J. (2010). A Case of Erythema Elevatum Diutinum Associated with IgA Monoclonal Gammopathy and Multiple Myeloma. *LVHN Scholarly Works*. Retrieved from <http://scholarlyworks.lvhn.org/medicine/2>

This Poster is brought to you for free and open access by LVHN Scholarly Works. It has been accepted for inclusion in LVHN Scholarly Works by an authorized administrator. For more information, please contact [LibraryServices@lvhn.org](mailto:LibraryServices@lvhn.org).

# A Case of Erythema Elevatum Diutinum Associated with IgA Monoclonal Gammopathy and Multiple Myeloma

Shadi Jarjous M.D., Cheryl Bloomfield M.D., and James Ross M.D., F.A.C.P.; Lehigh Valley Health Network, Allentown, Pennsylvania

## Introduction

- Erythema Elevatum Diutinum (EED) is a rare type of chronic leukocytoclastic vasculitis characterized by symmetric violaceous, red, or yellowish papules, plaques, or nodules.
- These are typically seen on the extensor surfaces of the body, mostly involving the extremities, without any systemic vasculopathy.
- Usually, it presents at middle age and is associated with arthralgia, peripheral ulcerative keratitis, and pulmonary infiltrates.
- EED has been reportedly associated with multiple systemic diseases:
  - Recurrent bacterial infections (streptococcal) and viral infections (HBV, HHV-6, and HIV).
  - Myelodysplastic syndrome, lymphoma, IgA monoclonal gammopathy, multiple myeloma.
  - Rheumatoid arthritis, systemic lupus erythematosus, Wegener's granulomatosis, and cryoglobulinemia.
  - Celiac disease, ulcerative colitis, Crohn's disease.
  - Pyoderma gangrenosum.
  - Hyperimmunoglobulinemia D syndrome.
  - Relapsing polychondritis.
  - POEMS syndrome (polyneuropathy, organomegaly, endocrinopathy, monoclonal gammopathy, and skin lesions).
- EED is usually treated with dapsons and corticosteroids.

## Case Description

### History

- C.C. is now a 41 years old Hispanic female who initially presented to the emergency department in 2006 after she developed an itchy, burning, purple rash (papules, plaques, and nodules) on her elbows, knees and posterior thighs.
- Appearance of these lesions was preceded by months of widespread joints pain.
- Patient was referred to a dermatologist who suspected EED and placed the patient on dapsons.
- The diagnosis was confirmed with a biopsy of the skin lesions.
- Patient responded dramatically to the dapsons with rapid resolution of existing rash. However, she had multiple relapses every time she stopped taking the medication.

## Physical Exam

### Investigational studies

- Given the potential association of EED with multiple systemic diseases, the patient had an extensive work up.
- All serologic testing were negative, including ANA, RF, CCP, tTG IgA Ab, C- and P-ANCA, and complement levels.
- Other negative work up includes TSH, G6PD, ASO, HIV, and hepatitis panel.
- Iron studies were consistent with iron deficiency anemia.
- Serum protein electrophoresis and immunofixation were initially negative. However, a repeated SPEP couple years later showed evidence of IgA kappa monoclonal protein (monoclonal gammopathy).
- Bone marrow biopsy showed normocellular marrow involved by a clonal plasma cell disorder.
- Skeletal survey showed no suspicious lesions.

### Patient Progress

- The hematologist diagnosed the patient with asymptomatic smoldering myeloma and continues to follow her closely.
- No treatment at this time



## Discussion

- We report the development of IgA monoclonal gammopathy and later multiple myeloma in a patient with chronic EED on dapsons therapy.
- EED is an uncommon disease and its association with systemic disorders, including neoplastic diseases, is exceedingly rare.
- This case emphasizes the need for extensive work up and close surveillance of patients with EED to diagnose life-threatening systemic diseases early enough to have a chance to successfully treat the associated morbidities.