

## Paraproteins and Paraneoplastic Syndromes

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Clinical Sign	Paraproteins
Disseminated xanthomasiderohistiocytosis	Variety of xanthoma disseminatum with keloidal consistency to lesions. Associated with multiple myeloma
Eosinophilic fasciitis	Polyclonal hypergammaglobulinemia
Erythema elevatum diutinum (EED)	IgA monoclonal gammopathy
Lichen myxedema	IgG I (lambda)
Necrobiotic xanthogranuloma	IgG k or l
Primary systemic amyloid	Multiple myeloma
POEMS	M-protein: monoclonal gammopathy
Pyoderma gangrenosum	IgA monoclonal gammopathy
Relapsing polychondritis	Myelodysplastic Syndromes
Rosai-Dorfman disease	Polyclonal hypergammaglobulinemia
Scleredema	IgG multiple myeloma
Schnitzler's syndrome	Monoclonal IgM k
Subcorneal pustular dermatosis	IgA monoclonal gammopathy
Xanthoma planum	Monoclonal gammopathy
Prominent hyperkeratosis on follicles of nose	Multiple myeloma

Paraneoplastic Syndromes	Internal Malignancy
Acanthosis nigricans	Gastric adenocarcinoma
Acquired angioedema	Low C1; lymphoma
Acquired ichthyosis	Hodgkin's lymphoma
Anti-epiligrin cicatricial pemphigoid	Any internal malignancy, Non-small cell lung cancer
Dermatomyositis-Polymyositis	Women: ovarian and breast Men: respiratory tract
Erythema gyratum repens	Lung cancer
Extramammary Paget's	In 50%, no malignancy found Adnexal adenocarcinoma GI or GU tract
Hypertrichosis lanuginosa acquisita	Lung and colon cancer
Multicentric reticulohistiocytosis	30% with malignancy; no predominant type
Sweet's syndrome	Hemoproliferative disorders. AML most common Solid: GU malignancy
Paget's disease of the breast	Always associated with intraductal breast carcinoma
Paraneoplastic Acrokeratosis of Bazex	Upper aerodigestive tract Metastatic carcinoma to the lymph nodes of neck
Paraneoplastic pemphigus	Lymphoproliferative malignancy: Non-Hodgkin's lymphoma, CLL, thymoma, Castleman's disease
Tripe palms without acanthosis nigricans	Lung cancer
Tripe palms with acanthosis nigricans	Gastric adenocarcinoma

### References

Bolognia J, Jorizzo J, Rapini R, et al. *Dermatology*. Mosby Publishing; 2003.  
Freedberg I, Eisen A, Wolff K, et al. *Fitzpatrick's Dermatology in General Medicine*. Sixth Edition. McGraw-Hill; 2003.