I quadri clinici osservati dal dermatologo

Alessandro Pileri

Professore Associato

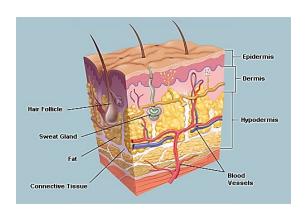
UO Dermatologia IRCCS Azienda Ospedaliero-Universitaria di Bologna-Dipartimento di Medicina e Chirurgia (DIMEC) Alma Mater Studiorum -Università di Bologna

Direttore: Prof.ssa Bianca Maria Piraccini



Anatomic involvement at the diagnosis

- **Skin** (60-100%)
- Bone marrow and peripheral blood (60-90%)
- Lymph node (40-50%)



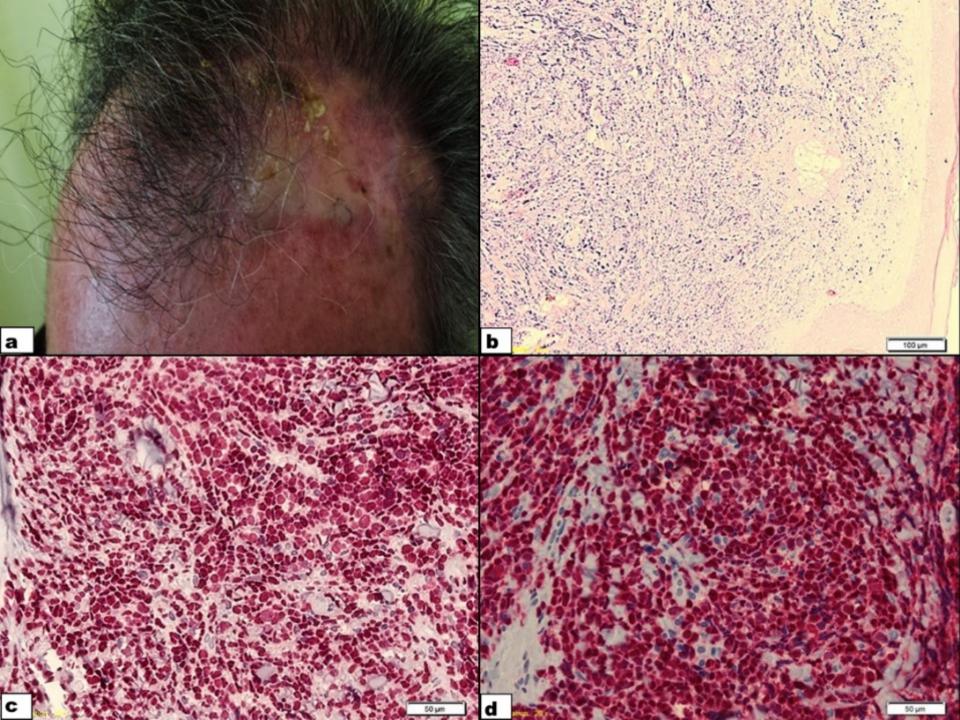
- Most cases have skin as VERY FIRST clinical manifestation (90%)
- To date case report or case series
- Lack of a defined pattern of clinical presentation
- Tricky and easy to misdiagnose

BPDCN: differential diagnosis

- Different clinical presentation
- Possible differential diagnosis
- Possible misdiagnosis
- Rare disease
- The eyes recognise what they know



- NO anatomic preferred site
- Two types of clinical appearance
- Single-lesion
- Multiple-lesion (eruptive presentation)







- Morphologically variable clinical presentation
- Macules
- Papules
- Papulo-nodular lesions
- Patches
- Plaques
- Nodules
- Size from some mm to 10 cm

- Isolated lesions
- Violaceous or purplish-like
- Bruise-like

- Multiple lesions
- Eruptive appearance
- Lesions asymptomatic
- Rare ulceration











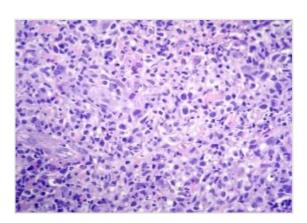






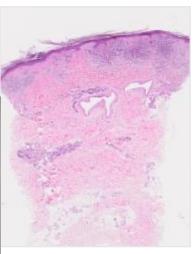




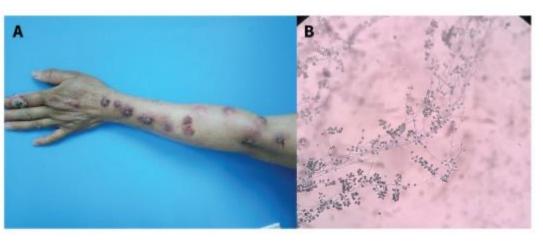


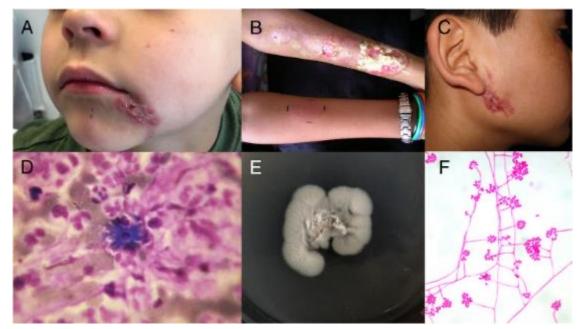








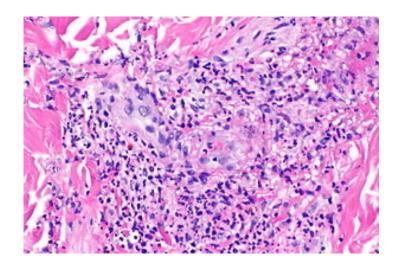














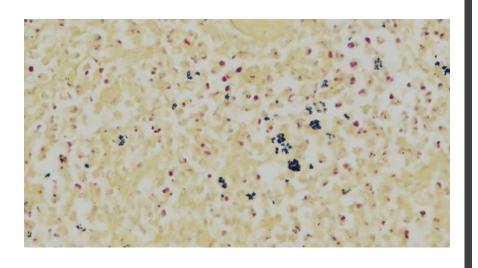














Actas Dermosifiliogr. 2011;102(2):142-145



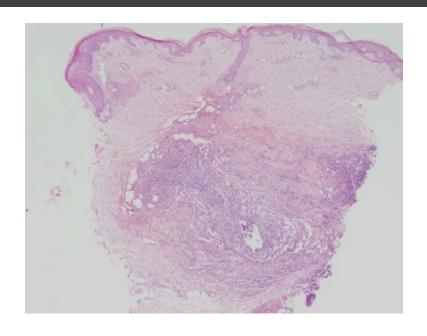
ACTAS Dermo-Sifiliográficas

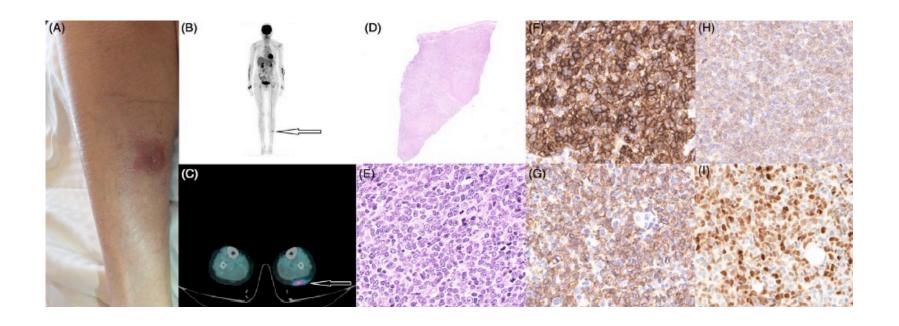
Full English text available at www.elsevier.es/ad

CASO CLÍNICO

Embolismos sépticos cutáneos tras angioplastia

L. Sanz-Canalejas a,*, U. Floristán-Muruzábal a, M. Feito-Rodríguez a, E. Sendagorta-Cudós a, M.J. Beato-Merino y P. Herranz-Pinto a





bite in Northern Italy



DOI: 10.1002/jha2.370

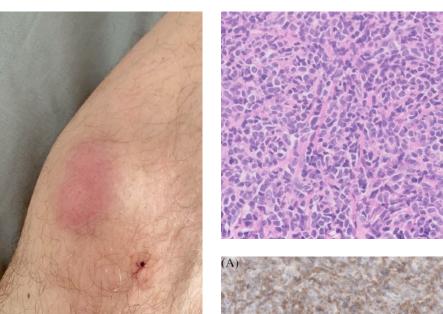
HAFMATOLOGY IMAGES

Report of cutaneous loxoscelism caused by violin spider

Isolated skin infiltration by a blastic plasmacytoid dendritic cell neoplasm

Grégoire Stalder^{1,#} Dina Milowich^{2,#} Sabine Blum¹ Jacqueline Schoumans³ Bettina Bisig⁴ Olivier Spertini¹



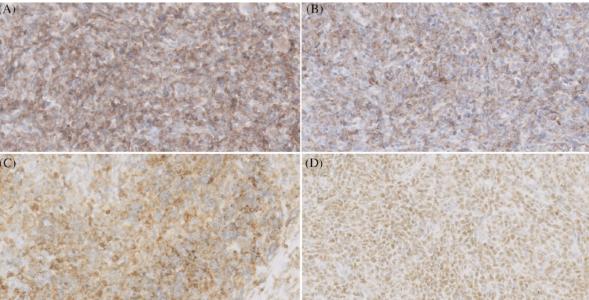


DOI: 10.1002/jha2.383

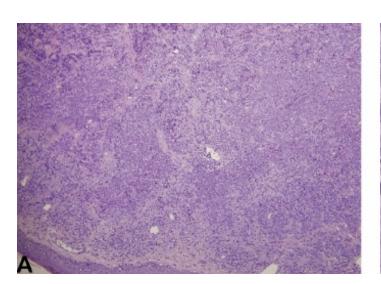
HAEMATOLOGY IMAGES

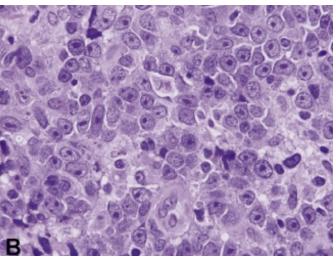


Localized skin-limited blastic plasmacytoid dendritic cell neoplasm











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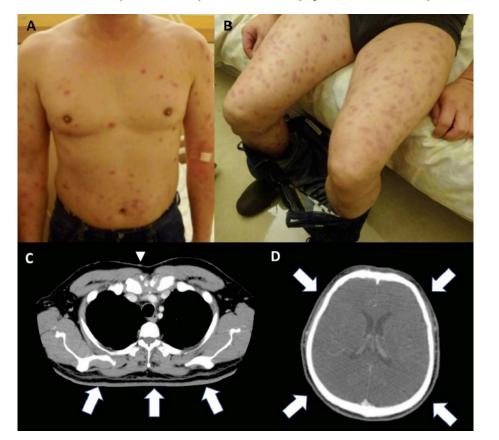
journal homepage: www.elsevier.com/locate/radcr

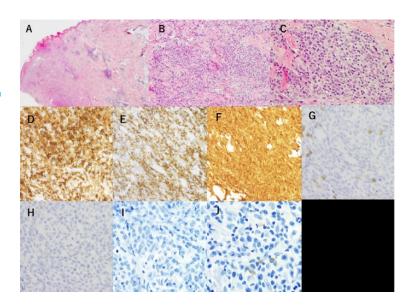


Case Report

Rapidly progressing blastic plasmacytoid dendritic cell neoplasm causing diffuse skin thickening: A case report with sequential computed tomography examinations

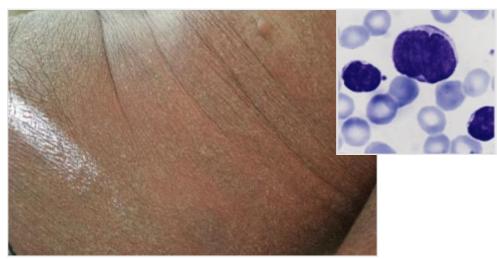
Kyohei Yoshioka^a, Ryo Kurokawa^{a,*}, Shiori Amemiya^a, Hiroaki Koyamaa^b, Kensuke Matsuda^b, Akira Honda^b, Mineo Kurokawa^b, Aya Shinozaki-Ushiku^c, Osamu Abe^a















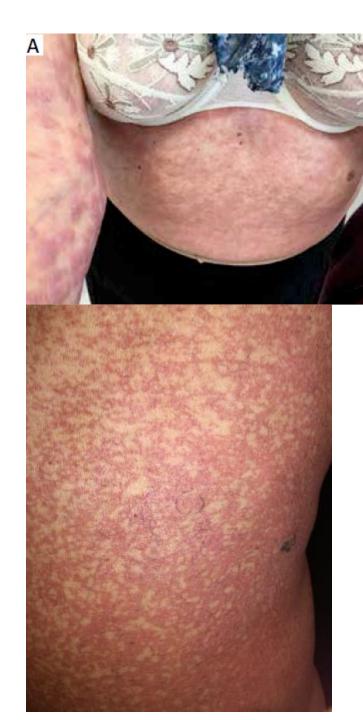


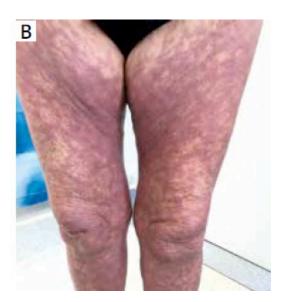
Articl

Sézary Syndrome: Different Erythroderma Morphological Features with Proposal for a Clinical Score System

Gabriele Roccuzzo ^{1, *, †}, Silvia Giordano ^{1, †}, Gianluca Avallone ¹, Marco Rubatto ¹, Silvia Canonico ¹, Ada Funaro ², Erika Ortolan ², Rebecca Senetta ³, Paolo Fava ¹, Maria Teresa Fierro ¹, Simone Ribero ¹ and Pietro Quaglino ¹







Clinicopathologic retrospective analysis of blastic plasmacytoid dendritic cell neoplasms

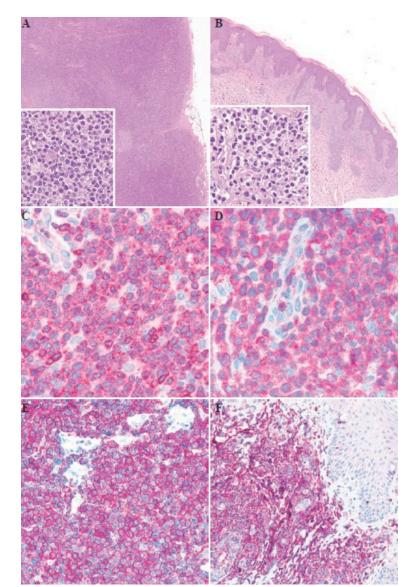
Agnieszka Owczarczyk-Saczonek¹, Małgorzata Sokołowska-Wojdyło², Berenika Olszewska², Marta Malek³, Aleksandra Znajewska-Pander¹, Anna Kowalczyk⁴, Wojciech Biernat⁵, Grażyna Poniatowska-Broniek⁶, Wanda Knopińska-Posłuszny², Zygmunt Kozielec⁶, Roman Nowicki², Waldemar Placek¹

Alessandro PILERI^{1,2}
Cinzia PELLEGRINI³
Claudio AGOSTINELLI⁴
Vieri GRANDI²
Annalisa PATRIZI¹
Pier Luigi ZINZANI³
Nicola PIMPINELLI²

Erythroderma and non-Hodgkin T-cell lymphoma: what else, apart from Mycosis Fungoides and Sézary syndrome?

Rackground: Peripheral T-cell lymphomas not otherwise specified









ICD-O code

Epidemiology

This is a rare disease, accounting for < 1% of all CTCLs {26,228,2832}. It occurs mainly in adults. There are no predisposing factors. **Localization**



Fig. 5877 Primary cutaneous CD8+ aggressive epidermotropic cytotoxic T-cell lymphoma. A large localized nodulotumoural lesion on the leg, showing ulceration and epidermal necrosis.



Fig. 6093 Primary cutaneous CD8+ aggressive epidermotropic cytotoxic T-cell lymphoma. Lesions are often haemorrhagic; they are diffuse and associated with epidermal ulceration.



Figure 1. A: Clinical features of case no. 6: widespread eruption of patches, plaques, and papulonodular vertucous and hemorrhagic lesions. B: Clinical features of case no. 2: typical hemorrhagic and necrotic evolution of some lesions. C: Histology (H&E; original magnification, ×2.5) of case no. 2: a perivascular and periadnexal, lichenoid, strongly epidermotropic infiltrate in an acanthotic and hyperplastic epidermis with spongiosis, blistering, and necrosis. D: Clinical features of case no. 5: particularly of the papulonodular and vertucous lesions. Note the central resolution of some lesions.

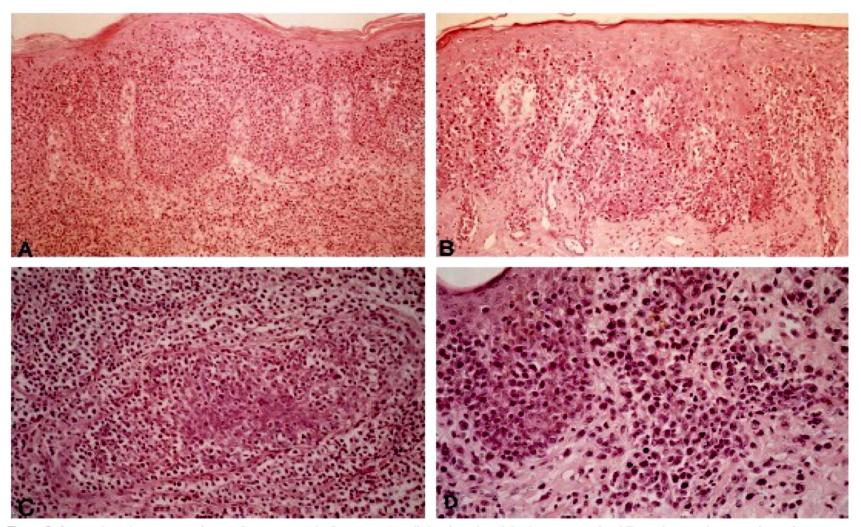


Figure 2. A: Histology (H&E; original magnification, ×100) of case no. 4: well developed nodular lesion. Note the diffuse pleomorphic strongly epidermotropic T cell infiltrate. B: Histology (H&E; original magnification, ×100) of case no. 1: early lesion. Note the intraepithelial pleomorphic atypical lymphoid infiltrate; the involved epidermis shows extensive keratinocyte necrosis. C: Histology (H&E; original magnification, ×200) of case no. 3: the strongly adnexotropic small- to medium-size pleomorphic lymphocytes show a lymphoepitheliod pattern. D: Histology (H&E; original magnification, ×200) of case no. 2: well developed tumoral lesion. High magnification of the infiltrate shows pertvascular, strongly epidermotropic immunoblasts in the superficial dermis.

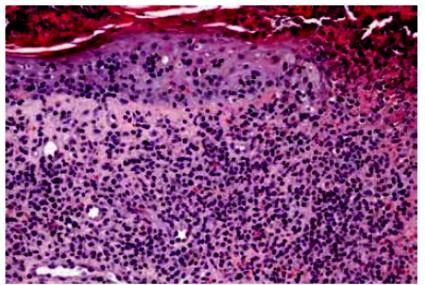


Fig. 6102 Primary cutaneous CD8+ aggressive epidermotropic cytotoxic T-cell lymphoma. The atypical pleomorphic medium to large cell lymphoid infiltrate occupies the superficial dermis, extending to the epidermis in a pagetoid fashion and leading to epidermal necrosis.

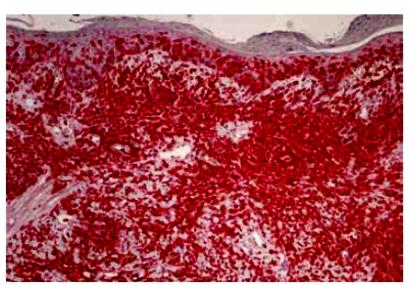


Fig. 6103 Primary cutaneous CD8+ aggressive epidermotropic cytotoxic T-cell lymphoma. CD8 staining highlights the epidermotropic neoplastic cells in a skin section.

Juvenile Blastic Plasmacytoid Dendritic Cell Neoplasm

Kinan M. HAYANI¹, Gabriele ESCHERICH², Karoline KOCH³, Lars E. FRENCH¹ and Hans H. WOLFF¹¹Department of Dermatology, University Hospital of Munich (LMU), Frauenlobstrasse 9–11, DE-80337, Munich, ²Clinic of Pediatric Hematology and Oncology, University Medical Centre, Hamburg-Eppendorf, Hamburg, and ³Department of Pathology, Hematopathology Section and Lymph Node Registry, University Hospital Schleswig-Holstein, Kiel, Germany. E-mail: Kinan.hayani@med.uni-muenchen.de Accepted Jul 9, 2020; Epub ahead of print Jul 29, 2020





Survival outcomes in blastic plasmacytoid dendritic cell neoplasm by first-line treatment and stem cell transplant

Seongseok Yun,¹ Onyee Chan,¹ Daniel Kerr,¹ Nicole D. Vincelette,¹ Afshan Idrees,² Qianxing Mo,³ Kendra Sweet,¹ Jeffrey E. Lancet,¹ Mohamed A. Kharfan-Dabaja,⁴ Ling Zhang,^{2,*} and Lubomir Sokol^{1,*}

Blastic plasmacytoid dendritic cell neoplasm (BPDCN) is a rare hematologic malignancy with dismal clinical outcomes. Conventional chemotherapies such cyclophosphamide, doxorubicin, vincristine, and prednisone (CHOP) and hyperfractionated cyclophosphamide, vincristine, doxorubicin, dexamethasone alternating with high-dose cytarabine and methotrexate (CVAD) have been commonly used for the BPDCN treatment until a recent study showed promising outcomes in patients treated with SL-401 (Tagraxofusp). In this single-institution retrospective study, we identified a total of 49 consecutive BPDCN patients. Among 42 patients who received treatment, hyper-CVAD regimen was associated with higher complete response rate compared with CHOP-based regimens or SL-401 (91% vs 50% vs 50%), although the difference did not achieve statistical significance. Furthermore, there was no significant overall survival (OS) difference between patients treated with SL-401 vs other chemotherapies as their first-line treatment (hazard ratio = 1.597; 95% CI, 0.460-5.548; P = .431). Of note, patients who received allogeneic stem cell transplant (allo-SCT) had significantly longer OS (hazard ratio = 0.160, 95% Ci, $0.0453 \cdot 0.56$; P = .041). Extent of disease (skin vs bone marrow vs both) or younger age (<60 years old) did not have significant prognostic impact on OS. Collectively, our study confirmed the survival benefit of allo-SCT and suggests that conventional and intensive chemotherapies such as CHOP and hyper-CVAD as well as SL-401 would be comparable first-line choice for the BPDCN patients.

Clinical presentation

- Jan 2022
- Erythematous patch
- No symptoms
- Punch biopsy

Clinical presentation

- Case tricky
- Innocent patch..
- ..aggressive disease
- The differential diagnosis is seborroic dermatitis









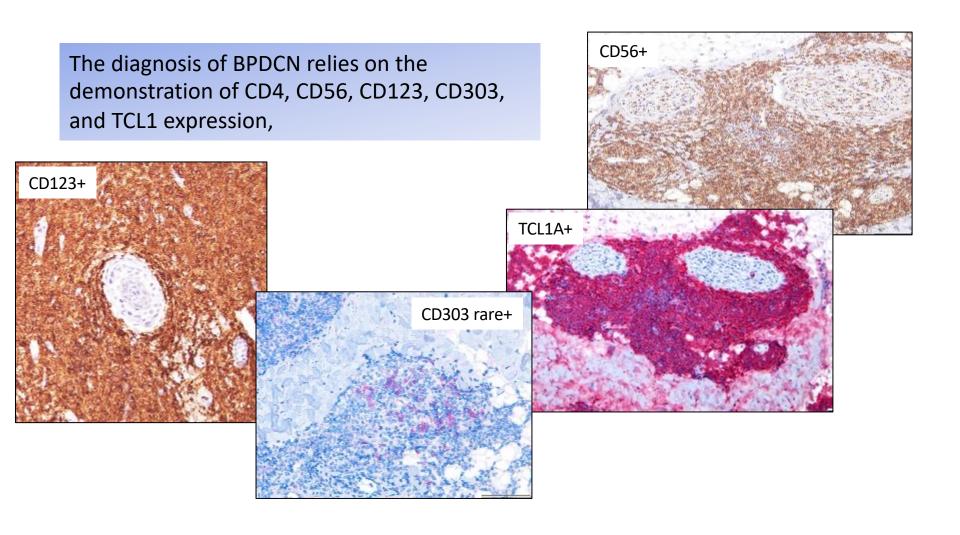
JCMS Case Report

SAGE Open Medical Case Reports

Upadacitinib-induced paradoxical face and scalp dermatitis: A case report of a novel sequela

SAGE Open Medical Case Reports
JCMS Case Reports
Volume I I: I-5
⑤ The Author(s) 2023
DOI: 10.1177/20503 13X23 1164271
journals.sagepub.com/home/sco

Elena Pastukhova¹, Alison Spurr^{1,2}, Quentin Nakonechny³ and Jennifer Lipson^{1,2}



however the expression of CD4 and CD56, singly or in association, can be observed in several other hematological diseases

AML with monocytic differentiation

CD68

CD14

CD163

CD4

CD56

CD123

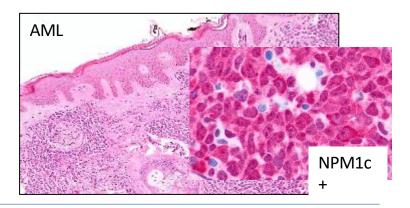
CD303

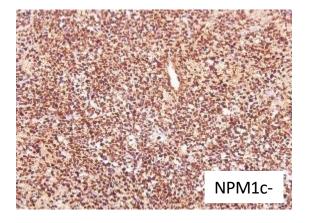
TCL1A

TCF4

BPDCN

Cytoplasmic expression of NPM1





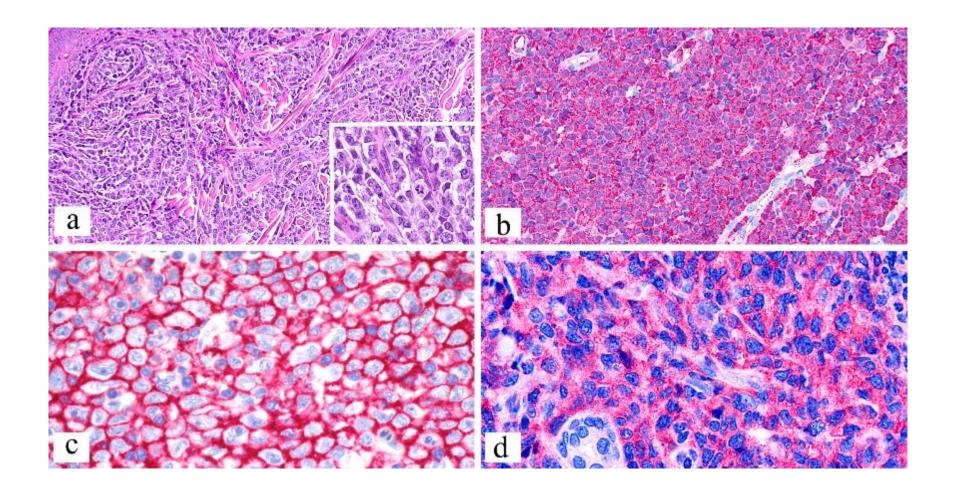
Lions for lambs

- Paziente di 86 anni
- Da sei mesi medicazioni sul territorio per un'ulcera
- Inviata per non risposta alle medicazioni
- Eseguita biopsia









- Diagnosi di BPDCN
- ...nel mente disseminazione leucemica
- Exitus
- Diagnosi post-mortem





Received: 2016.12.27 Accepted: 2017.03.09 Published: 2017.06.21 ISSN 1941-5923 © Am J Case Rep, 2017; 18: 692-695 DOI: 10.12659/AJCR.903059

Blastic Plasmacytoid Dendritic Cell Neoplasm with Pulmonary Involvement and Atypical Skin Lesion











Contents lists available at ScienceDirect

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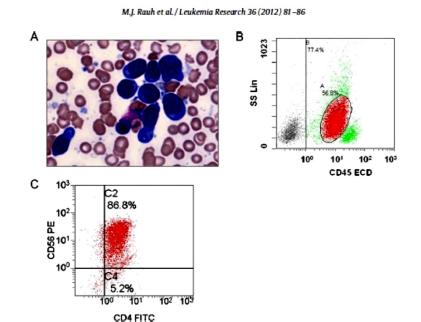
journal homepage: www.elsevier.com/locate/leukres



Blastic plasmacytoid dendritic cell neoplasm with leukemic presentation, lacking cutaneous involvement: Case series and literature review

Michael J. Rauh a, Fazlur Rahman b, David Good c, Jeffrey Silverman d, Michael K. Brennan e, Nikolay Dimov f, Jane Liesveld g, Daniel H. Ryan h, W. Richard Burack h, John M. Bennett g,h,*

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- ^c Department of Clinical Pathology, Division of Hematopathology, Sunnybrook Health Sciences Centre, Toronto, ON, Canada
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- 8 Department of Medicine, James P. Wilmot Cancer Center, Hematology Oncology, University of Rochester Medical Center, Rochester, NY, USA
- h Department of Pathology, Hematopathology Section, University of Rochester Medical Center, Rochester, NY, USA



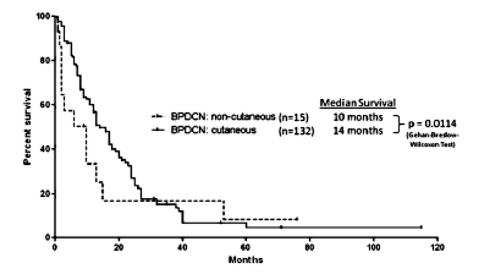
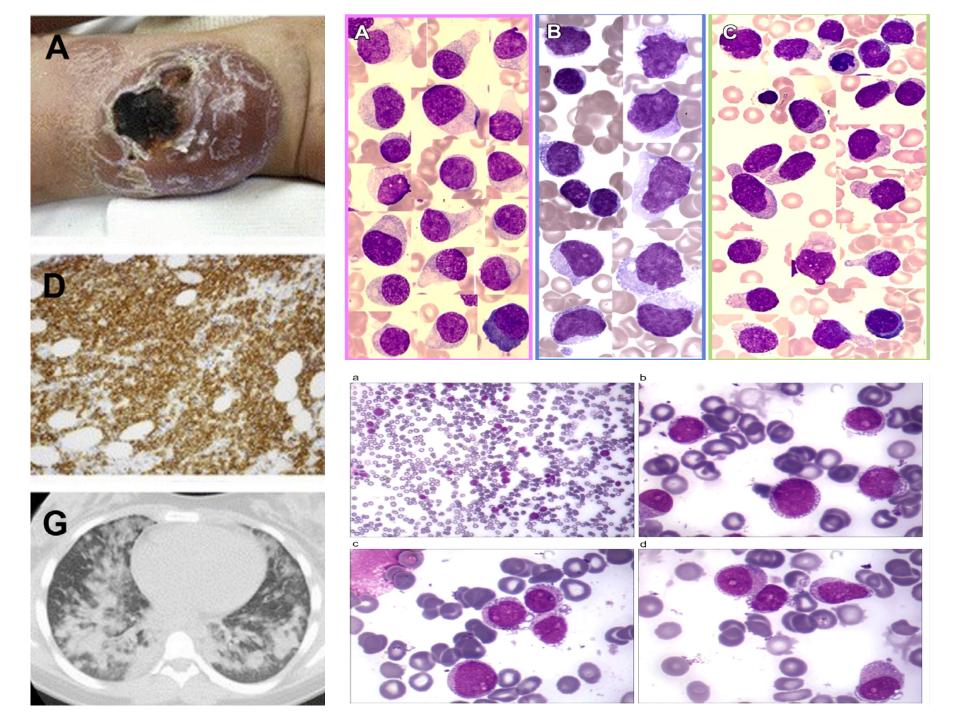


Fig. 2. Kaplan–Meier survival curves for BPDCN cases with and without cutaneous presentation. Percent survival is plotted over time (months) for non-cutaneous (i.e. leukemic presentation) BPDCN cases (n-15; dashed line) and those with skin involvement (n-132; solid line), using survival data (where available) for the cases presented in Tables 1 and 2.



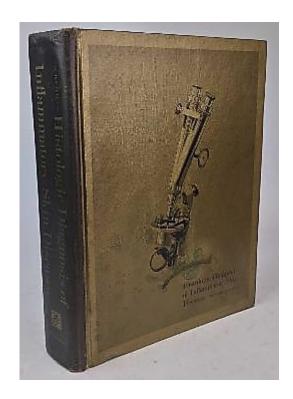
ORIGINAL ARTICLE

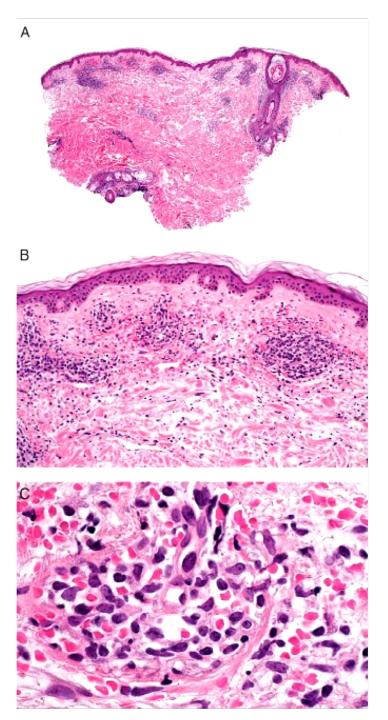
Cutaneous Manifestations of Blastic Plasmacytoid Dendritic Cell Neoplasm—Morphologic and Phenotypic Variability in a Series of 33 Patients

Carlo Cota, MD,*† Esmeralda Vale, MD,‡ Isabel Viana, MD,‡ Luis Requena, MD,§
Gerardo Ferrara, MD,|| Lucia Anemona, MD,¶ Dieter Metze, MD,# Regina Fink-Puches, MD,*
Thomas Wiesner, MD,* and Lorenzo Cerroni, MD*

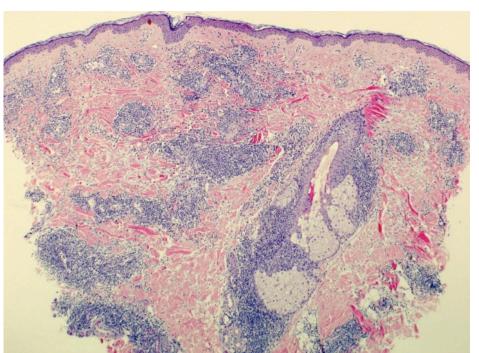
Abstract: Blastic plasmacytoid dendritic cell neoplasm (BPDCN) is a neoplasm derived from precursors of plasmacytoid dendritic cells. Cutaneous involvement represents often the first manifesta-

Key Words: Blastic plasmacytoid dendritic cell neoplasm, CD4⁺/CD56, hematodermic neoplasm, phenotype (Am J Surg Pathol 2010;34:75–87)









- Petechiae
- Insect bites
- Kaposi sarcoma
- Myeloid sarcoma
- T-ALL/LBL
- Extra nodal NK-lymphoma









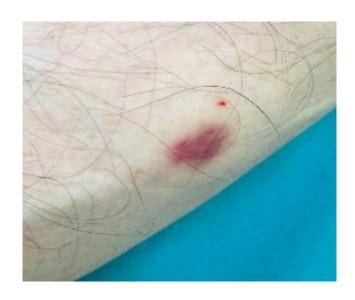
- Petechiae
- Insect bites
- Easy to differentiate...no resolution within some days







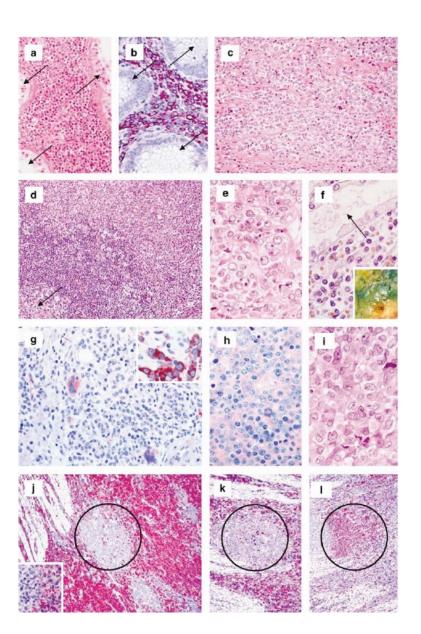
- Kaposi sarcoma
- No purpuric cherry-like nodules
- No history of immunosuppression
- No classical mucosal involvement





- Myeloid sarcoma
- RARE skin appearance
- AGGRESSIVE disease
- At histology MS can be CD43+ and CD68+
- Myelomonoblastic differentiation with expression of CD4, CD56, and CD123
- In MS morphologic evidence of mature or maturing granulocytes
- Expression of CD117, CD34, MPO (myeloperoxidase) and lysozyme





- Cutaneous involvement by T-acute lymphoblastic leukemia/lymphoma (T-ALL/LBL)
- T-ALL/LBL and BPDCN are CD4+ and TdT+
- T-ALL/LBL is positive for T-cell—specific ag (CD3, CD5, CD2, and CD7)
- TCR positive in T-ALL/LBL





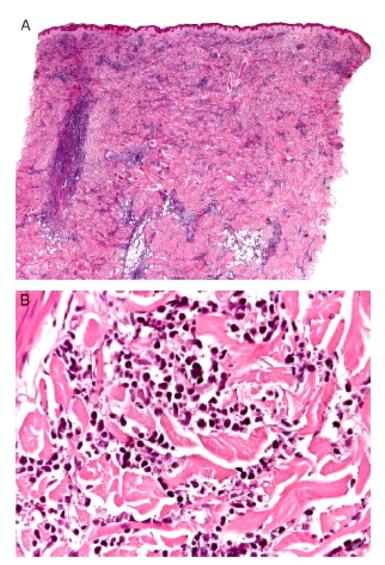
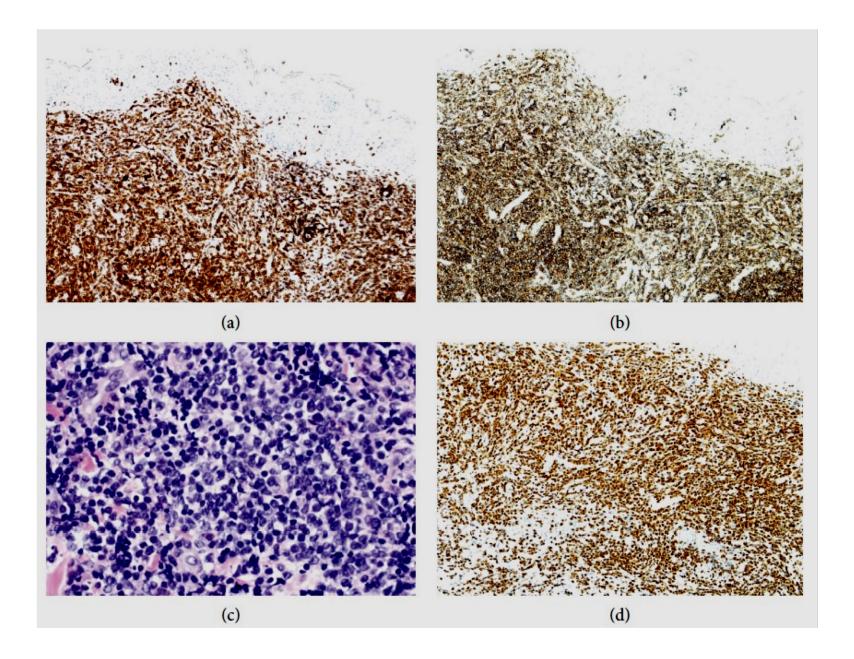


FIGURE 5. Histological patterns of blastic plasmacytoid dendritic cell neoplasm. A, Interstitial pattern resembling myeloid leukemia; (B) note indian filing.

- Positivity for T-cell antigens and CD56.
- Angiocentric and angio-destructive growth
- Positive for CD3 and cytotoxic markers
- EBER+ and EBV at in situ hybridization



Outline of diagnostic evaluation for BPDCN

Cutaneous and systemic evaluation



Violaceous → skin lesions on inspection

 Skin biopsy and baseline photography

Cytomorphological evaluation



 Bone marrow aspirate and biopsy

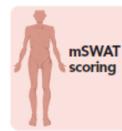


Adjunct tests

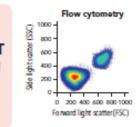


Cytogenetics





 PET-CT or CT scan for assessment of lymph nodes and/or other extra-medullary disease



- Flow cytometry evaluation
- 1. CD123, CD4, D56
- 2. CD303
- 3. TCL1
- 4. TCF4



 NGS for myeloid mutation assessment





 CSF evaluation for assessment of CNS disease

Prognostic factors, prognostic indices and staging in mycosis fungoides and Sézary syndrome: where are we now?

J.J. Scarisbrick, Y.H. Kim, S.J. Whittaker, G.S. Wood, M.H. Vermeer, H.M. Prince and P. Quaglino

What does this study add?

- This is a review of clinical, haematological, pathological and genotypic changes affecting survival in MF/SS.
- The development of an international prognostic index to be adopted alongside staging may aid the management of patients.

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³Department of Dermatology, Guy's and St Thomas' NHS Trust, London, U.K.

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⁶Peter MacCallum Cancer Centre and University of Melbourne, Melbourne, VIC, Australia

⁷Department of Medical Sciences, Dermatologic Clinic, University of Torino, Turin, Italy

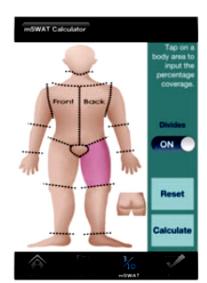
Skin scoring

Skin tumour burden is not accounted for within TNMB staging. Several studies have found that multiple skin tumours have a worse disease-specific survival and overall survival than solitary lesions. 10,12,18 A tumour burden index (TBI) was developed as a prognostic tool.26 TBI was defined as equal to 1 + (patches \times 2) + (plaques \times 2) + (tumour \times 1·3), where patches > 30% of BSA were equal to 1 and presence of plaques or tumours was equal to 1. In a validation involving 116 patients both TNM and TBI provided prognostic information but discrimination of survival curves was better for TBI. The TBI has not been further validated in CTCL.

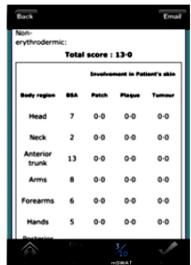
How big is your hand and should you use it to score skin in cutaneous T-cell lymphoma?

I.I. Scarisbrick1 and S. Morris2

So, when considering 'How big is your hand and should you use it to score skin?', we suggest that a palmar surface of 0.5% BSA should be used as the measurement tool to score skin, as this is relatively constant with age, stature and race. Our training day highlighted that even with a constant training method there is significant interuser variability. Where possible the same scorer should score any individual.



The scored area is highlighted in pink and further areas may be scored similarly



When scoring completed press calculate, which will weight scores and produce an mSWAT score/ 400

¹Department of Dermatology, University Hospital Birmingham, Birmingham, B15 2TH, U.K.

²Guy's and St Thomas' NHS Trust, London, U.K.



- X 1
- X 2
- X4
- Score 0→ 400

BPDCN

- Aggressive disease
- Median survival 14 months
- Prompt and accurate diagnosis required
- Start staging procedures
- Proper treatment of patients

BPDCN

- Role of dermatologist is important
- Guide pathologist
- Send patient to hematologist
- AVOID to waste time with unproper treatment (i.e. steroids → transient vanishing of lesions)



Thank you!!!

