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"Dermatopathology"

Note: Please fill out the answer sheet on our web site (www.cttr.org), or fax a copy of the included answer sheet to 909-558-0188. In approximately 4-6 weeks, diagnoses will be posted at www.cttr.org. They will also be on the next months DVD.

Case 1

Donation:
Dr. Fred Soeprono, MD

History:
This is a 54 year old male with 6 months of blisters. Erythematous papules and plaques seen mid chest, upper back and scalp. Several 3 mm vesicles noted on the dorsal left foot with an erythematous base. A few painful superficial erosions seen in the buccal mucosa and hard palate. Direct immunofluorescence shows intercellular staining of the epidermis for IgG, IgA and C3-complement.

Gross:
Chest skin, punch biopsy.

Diagnosis:
Pemphigus vulgaris

Sugiyama H; Matsue H; Nagasaka A; Nakamura Y; Tsukamoto K; Shibagaki N; Kawamura T; Kitamura R; Ando N; Shimada S. CD4+CD25 high regulatory T cells are markedly decreased in blood of patients with pemphigus vulgaris. Dermatol 2007;214(3): p210-20

Mittmann N; Chan B; Knowles S; Mydlarski PR; Cosentino L; Shear N. Effect of intravenous immunoglobulin on prednisone dose in patients with pemphigus vulgaris. J Cutan Med Surg 2006 Sep-Oct;10(5): p222-7

V'lckova-Laskoska MT; Laskoski DS; Kamberova S; Caca-Biljanovska N; Volckova N. Epidemiology of pemphigus in Macedonia: a 15-year retrospective study (1990-2004). Int J Dermatol 2007 Mar;46(3): p253-8

Dick SE; Werth VP. Pemphigus: a treatment update. Comment In: RefSource:Autoimmunity. 2006 Nov; 39(7):521-30/PMID:17135055. Autoimmunity 2006 Nov;39(7): p591-9

Arnaout MS; Dimasi A; Harb R; Alam S. Unusual thrombotic cardiac complications of Pemphigus vulgaris: a new link? J Thromb Thrombolysis 2007 Jun;23(3): p237-40

Case 2

Donation:
Dr. Ken Cantos, MD

History:
This is a 54 year old female with blisters on the right hand.

Gross:
Right hand, shave biopsy.

Diagnosis:
Porphyria cutanea tarda

Lambrecht RW; Thapar M; Bonkovsky HL. Genetic aspects of porphyria cutanea tarda. Semin Liver Dis 2007 Feb;27(1): p99-108

Peitsch WK; Lorentz K; Goebeler M; Goerdt S. Subacute cutaneous lupus erythematosus with bullae associated with porphyria cutanea tarda. J Dtsch Dermatol Ges 2007 Mar;5(3): p220-2

Yachimski P; Shah N; Chung RT. Porphyria cutanea tarda. Clin Gastroenterol Hepatol 2007 Feb;5(2): pg6

Badminton MN; Elder GH. Management of acute and cutaneous porphyrias. Int J Clin Pract 2002 May;56(4): p272-8

Vasil KE; Magro CM. Cutaneous vascular deposition of C5b-9 and its role as a diagnostic adjunct in the setting of diabetes mellitus and porphyria cutanea tarda. J Am Acad Dermatol 2007 Jan;56(1): p96-104

Kushner JP; Lee GR; Nacht S. The role of iron in the pathogenesis of porphyria cutanea tarda. An in vitro model. J Clin Invest 1972 Dec;51(12): p3044-51

Case 3

Donation:
Dr. Fred Soeprono, MD

History:
This is a 58 year old female with pruritic vesicles on the exterior knees and elbows. DIF shows focal IgA staining of the epidermal basement membrane.

Gross:
Right elbow, punch biopsy.

Diagnosis:
Photoallergic dermatitis

Darvay A; White IR; Rycroft RJ; Jones AB; Hawk JL; McFadden JP. Photoallergic contact dermatitis is uncommon. Br J Dermatol 2001 Oct;145(4): p597-601

Mark KA; Brancaccio RR; Soter NA; Cohen DE. Allergic contact and photoallergic contact dermatitis to plant and pesticide allergens. Arch Dermatol 1999 Jan;135(1): p67-70

Murata Y; Kumano K; Ueda T; Araki N; Nakamura T; Tani M. Photosensitive dermatitis caused by pyridoxine hydrochloride. J Am Acad Dermatol 1998 Aug;39(2 Pt 2): p314-7

Ramirez A; Perez-Perez L; Fernandez-Redondo V; Toribio J. Photoallergic dermatitis induced by diltiazem. Contact Dermatitis 2007 Feb;56(2): p118-9

Zeeli T; David M; Trattner A. Photopatch tests: any news under the sun? Contact Dermatitis 2006 Nov;55(5): p305-7

Ota T; Oiso N; Iba Y; Narita T; Kawara S; Kawada A. Concomitant development of photoallergic contact dermatitis from ketoprofen and allergic contact dermatitis from menthol and rosin (colophony) in a compress. Contact Dermatitis 2007 Jan;56(1): p47-8

Perez-Perez L; Cabanillas M; Pereiro Ferreiros MM; Peteiro C; Toribio J. Photosensitive lichenoid eruption and inhaled tiotropium bromide. Dermatology 2007;214(1): p97-8

Vilanova B; Adrover M; Munoz F; Donoso J. Photo-induced processes in vitamin B6 compounds. Chem Biodivers 2004 Jul;1(7): p1073-90

Case 4

Donation:
Dr. William Saukel, MD

History:
This is a 29 year old male with painful violaceous, indurated nodules on the plantar and lateral surfaces of the left foot.

Gross:
Left foot skin, punch biopsy.

Diagnosis:
Kaposi's sarcoma

Mantina H; Kankasa C; Klaskala W; Brayfield B; Campbell J; Du Q; Bhat G; Kasolo F; Mitchell C; Wood C. Vertical transmission of Kaposi's sarcoma-associated herpesvirus. Int J Cancer 2001 Dec 1;94(5): p749-52

Monini P; Sirianni MC; Franco M; Vincenzi L; Topino S; Goletti D; Leone P; Leone P; Chiozzini C; Nicastri E; Andreoni M; Borduagni O; Sgadari C;

Rezza G; Sturzl M; Ensoli B. Clearance of human herpesvirus 8 from blood and regression of leukopenia-associated aggressive classic Kaposi's sarcoma during interferon-alpha therapy: a case report. Clin Infect Dis 2001 Nov 15;33(10): p1782-5

Woodle ES; Hanaway M; Buell J; Gross T; First MR; Trofe J; Beebe T. Kaposi sarcoma: an analysis of the US and international experiences from the Israel Penn International Transplant Tumor Registry. Transplant Proc 2001 Nov-Dec;33(7-8): p3660-1

Sato-Matsumura KC; Matsumura T; Nabeshima M; Katano H; Sata T; Koizumi H. Serological and immunohistochemical detection of human herpesvirus 8 in Kaposi's sarcoma after immunosuppressive therapy for bullous pemphigoid. Br J Dermatol 2001 Oct;145(4): p633-7

Gwack Y; Hwang S; Byun H; Lim C; Kim JW; Choi EJ; Choe J. Kaposi's sarcoma-associated herpesvirus open reading frame 50 represses p53-induced transcriptional activity and apoptosis. J Virol 2001 Jul;75(13): p6245-8

Nuovo M; Nuovo G. Utility of HHV8 RNA detection for differentiating Kaposi's sarcoma from its mimics. J Cutan Pathol 2001 May;28(5): p248-55

Case 5

Donation:
Dr. Wilson Chick

History:
This is a 2 year old male with a "rash" on the right buttock since a few months of age. 10.0 x 6.0 cm irregular pigmented plaque with firm subcutanteous painful nodules on the right buttock.

Gross:
Right buttock, 0.4 cm punch biopsy.

Diagnosis:
Infantile kaposiform hemangioendothelioma

Vin-Christian K; McCalmont TH; Frieden IJ. Kaposiform hemangioendothelioma. An aggressive, locally invasive vascular tumor that can mimic hemangioma of infancy. Arch Dermatol 1997 Dec;133(12): p1573-8

Gianotti R; Gelmetti C; Alessi E. Congenital cutaneous multifocal kaposiform hemangioendothelioma. Am J Dermatopathol 1999 Dec;21(6): p557-61

Beaubien ER; Ball NJ; Storwick GS. Kaposiform hemangioendothelioma: a locally aggressive vascular tumor. J Am Acad Dermatol 1998 May;38(5 Pt 2): p799-802

Hisaoka M; Hashimoto H; Iwamasa T. Diagnostic implication of Kaposi's sarcoma-associated herpesvirus with special reference to the distinction

between spindle cell hemangioendothelioma and Kaposi's sarcoma. Arch Pathol Lab Med 1998 Jan;122(1): p72-6

Garzon MC; Enjolras O; Frieden IJ. Vascular tumors and vascular malformations: evidence for an association. J Am Acad Dermatol 2000 Feb;42(2 Pt 1): p275-9

Case 6

Donation:
Dr. Craig Zuppan

History:
This is a 7 month old female with 2-3 cm red-orange papules on the scalp, neck, chest, groin and lower extremities.

Gross:
Left lateral superior and inferior chest skin biopsies.

Diagnosis:
Langerhans histiocytosis

Zelger B; Burgdorf WH. The cutaneous "histiocytoses". Adv Dermatol 2001;17:77-114

Colon-Fontanez F; Eichenfield LE; Krous HF; Friedlander SF. Congenital Langerhans cell histiocytosis: the utility of the Tzanck test as a diagnostic screening tool. Arch Dermatol 1998 Aug;134(8): p1039-40

Steen AE; Steen KH; Bauer R; Bieber T. Successful treatment of cutaneous Langerhans cell histiocytosis with low-dose methotrexate. Br J Dermatol 2001 Jul;145(1): p137-40

Caldemeyer KS; Parks ET; Mirowski GW. Langerhans cell histiocytosis. J Am Acad Dermatol 2001 Mar;44(3): p509-11

Gottlober P; Weber L; Behnisch W; Bezold G; Peter RU; Kerscher M. Langerhans cell histiocytosis in a child presenting as a pustular eruption. Br J Dermatol 2000 Jun;142(6): p1234-5

Herzog KM; Tubbs RR. Langerhans cell histiocytosis. Adv Anat Pathol 1998 Nov;5(6): p347-58

Case 7

Donation:
Dr. Craig Zuppan

History:
This is a 5 month old male with multiple brown papules on the upper back.

Gross:
Right upper back skin, punch biopsy.

Diagnosis:
Urticaria pigmentosa

Topar G; Staudacher C; Geisen F; Gabl C; Fend F; Herold M; Greil R; Fritsch P; Sepp N. Urticaria pigmentosa: a clinical, hematopathologic, and serologic study of 30 adults. Am J Clin Pathol 1998 Mar;109(3): p279-85

Allison MA; Schmidt CP. Urticaria pigmentosa. Int J Dermatol 1997 May;36(5): p321-5

Rosbotham JL; Malik NM; Syrris P; Jeffery S; Bedlow A; Gharraie S; Murday VA; Holden CA; Carter ND. Lack of c-kit mutation in familial urticaria pigmentosa. Br J Dermatol 1999 May;140(5): p849-52

Brzezinska-Blaszczyk E; Zalewska A. In vitro reactivity of mast cells in urticaria pigmentosa skin. Arch Dermatol Res 1998 Jan-Feb;290(1-2): p14-7

Wolff K; Komar M; Petzelbauer P. Clinical and histopathological aspects of cutaneous mastocytosis. Leuk Res 2001 Jul;25(7): p519-28

Case 8

Donation:
Dr. Craig Zuppan, MD

History:
This is a 12 year old female with an upper lip mass. The case was seen by Dr. Juan Rosai.

Gross:
Skin, upper lip, excision.

Diagnosis:
Neurothekeoma

Alkhalidi H; Ghazarian D. Cellular neurothekeoma with a plexiform morphology: a case report with a discussion of the plexiform lesions of the skin. J Cutan Pathol 2007 Mar;34(3): p264-9

Hornick JL; Fletcher CD. Cellular neurothekeoma: detailed characterization in a series of 133 cases. Am J Surg Pathol 2007 Mar;31(3): p329-40

Watanabe K; Kusakabe T; Hoshi N; Suzuki T. Subcutaneous cellular neurothekeoma: a pseudosarcomatous tumour. Br J Dermatol 2001 Jun;144(6): p1273-4

Laskin WB; Fetsch JF; Miettinen M. The "neurothekeoma": immunohistochemical analysis distinguishes the true nerve sheath myxoma from its mimics. Hum Pathol 2000 Oct;31(10): p1230-41

Busam KJ; Mentzel T; Colpaert C; Barnhill RL; Fletcher CD. Atypical or worrisome features in cellular neurothekeoma: a study of 10 cases. Am J Surg Pathol 1998 Sep;22(9): p1067-72

Case 9

Donation:
Dr. Resa Chase

History:
This is a 59 year old male with 3.0 cm left upper thigh mass.

Gross:
Skin excision, left inner thigh.

Diagnosis:
Benign intravascular papillary endothelial hyperplasia

Novak JA; Ferguson DJ; Komorowski RA. Fine needle aspiration cytology of papillary endothelial hyperplasia. A case report. Acta Cytol 1999 Jul-Aug;43(4): p663-6

Duarte IG; Chang HJ; Kennedy JC; Miller JI. Papillary endothelial hyperplasia presenting as a chest wall neoplasm. Ann Thorac Surg 1999 Jan;67(1): p238-40

Requena L; Sangueza OP. Cutaneous vascular proliferation. Part II. Hyperplasias and benign neoplasms. J Am Acad Dermatol 1997 Dec;37(6): p887-919; quiz 920-2

Kim D; Israel H; Friedman M; Kuhel W; Langevin CJ; Plansky T. Intravascular papillary endothelial hyperplasia manifesting as a submandibular mass: an unusual presentation in an uncommon location. J Oral Maxillofac Surg 2007 Apr;65(4): p786-90

Van Genechten M; Schelfout K; Wojciechowski M; Van Schil P. Intravascular papillary endothelial hyperplasia (Masson's tumor) on the anterior chest wall in a 3-year-old boy. Eur J Cardiothorac Surg 2006 Dec;30(6): p938

Case 10

Donation:
Dr. Donald Rankin

History:

This is an 11 year old female, HIV positive with no CD4 count. Numerous violaceous plaques with an erythematous border.

Gross:
Skin right flank, punch biopsy.

Diagnosis:
Fixed drug eruption

Alvarez Santullano CV; Tover Flores V; De Barrio Fernandez M; Tornero Molina P; Prieto Garcia A. Fixed drug eruption due to ibuprofen. Allergol Immunopathol (Madr 2006 Nov-Dec;34(6): p280-1

Shimanovich I; Rose C; Zillikens D; Grabbe J. Erythema and blistering of the left leg. Fixed drug eruption (FDE). Arch Dermatol 2007 Apr;143(4): p535-40

Turk JL. Immunological mechanisms in the reaction between drugs and the skin. J Clin Pathol Suppl (R Coll Pathol 1975;9:58-61

Morelli JG; Tay YK; Rogers M; Halbert A; Krafchik B; Weston WL. Fixed drug eruptions in children. Comment In: Comment In: RefSource:J Pediatr. 2000 Apr; 136(4):565-6/PMID:10753268. J Pediatr 1999 Mar;134(3): p365-7

Savin JA. Current causes of fixed drug eruption in the UK. Br J Dermatol 2001 Oct;145(4): p667-8

Romagosa R; Kapoor S; Sanders J; Berman B. Inpatient adverse cutaneous drug eruptions and eosinophilia. Arch Dermatol 2001 Apr;137(4): p511-2

Crowson AN; Magro CM. Recent advances in the pathology of cutaneous drug eruptions. Dermatol Clin 1999 Jul;17(3): p537-60, viii