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"Pathology of Infectious & Parasitic Disease"

Case 1

This 70 year old female complained of abdominal pain in the right upper quadrant. Ultrasound showed cholelithiasis.

Dx: Schistosomiasis

Nguyen LQ; Estrella J; Jett EA; Grunvald EL; Nicholson L; Levin DL. Acute schistosomiasis in nonimmune travelers: chest CT findings in 10 patients. Am J Roentgenol 2006 May;186(5): p1300-3

Brown M; Miiro G; Nkurunziza P; Watera C; Quigley MA; Dunne DW; Whitworth JA; Elliott AM. Schistosoma mansoni, nematode infections, and progression to active tuberculosis among HIV-1-infected Ugandans. Am J Trop Med Hyg 2006 May;74(5): p819-25

Strickland GT. Liver disease in Egypt: hepatitis C superseded schistosomiasis as a result of iatrogenic and biological factors. Hepatology 2006 May;43(5): p915-22

Chenault C; Hoang MP. An unusual cervical finding. Female genital schistosomiasis with associated cervical severe squamous dysplasia (cervical intraepithelial neoplasia grade III). Arch Pathol Lab Med 2006 Mar;130(3): pe37-8

Case 2

This is a 14 year old girl with a right nasal mass.

Dx: Rhinosporidiosis

Mohanty RC; Khalkho J; Sahu A. Diagnosis of disseminated rhinosporidiosis by fine needle aspiration cytology. Acta Cytol 2006 Mar-Apr;50(2): p234

Harissi-Dagher M; Robillard N; Corriveau C; Mabon M; Allaire GS. Histopathologically confirmed ocular rhinosporidiosis in two Canadians. Can J Ophthalmol 2006 Apr;41(2): p226-9

Houreih MA; Eyden B; Lucas SB; Roy S; Banerjee SS. Rhinosporidium seeberi: a case clinically mimicking a soft tissue sarcoma. Histopathol 2006 Aug;49(2): p208-10

Pathak D; Neelaiah S. Disseminated cutaneous rhinosporidiosis: diagnosis by fine needle aspiration cytology. Acta Cytol 2006 Jan-Feb;50(1): p111-2

Case 3

This is a 45 year old Sudanese male with right lower abdominal pain. He had an appendectomy 10 years prior. Ultrasound showed multiple abscesses. and he had 3 white firm cecal nodules up to 1.3 cm.

Dx: Onchocerciasis

McLellan F. Jimmy Carter and life after the US presidency. Lancet 2003 Mar 29;361(9363): p1108-9

Amazigo U; Boatin B. The future of onchocerciasis control in Africa. Lancet 2006 Dec 2;368(9551): p1946-7

Okulicz JF; Stibich AS; Elston DM; Schwartz RA. Cutaneous onchocercoma. Int J Dermatol 2004 Mar;43(3): p170-2

Nguyen JC; Murphy ME; Nutman TB; Neafie RC; Maturo S; Burke DS; Turiansky GW. Cutaneous onchocerciasis in an American traveler. Int J Dermatol 2005 Feb;44(2): p125-8

Unnasch TR. River blindness. Lancet 2002 Jul 20;360(9328): p182-3

Kennedy D. Good news on a tropical disease. Science 2002 May 24;296(5572): p1365

Case 4

This is a 42 year old male with multiple masses in the abdomen. Gross: Hard nodules up to 9.0 cm with cystic walls lined with thin white gelatinous "membrane" and watery turbid fluid

Dx: Echinococcosis

Georges S; Villard O; Filisetti D; Mathis A; Marcellin L; Hansmann Y; Candolfi E. Usefulness of PCR analysis for diagnosis of alveolar echinococcosis with unusual localizations: two case studies. J Clin Microbiol 2004 Dec;42(12): p5954-6

Lawn SD; Bligh J; Craig PS; Chiodini PL. Human cystic echinococcosis: evaluation of post-treatment serologic follow-up by IgG subclass antibody detection. Am J Trop Med Hyg 2004 Mar;70(3): p329-35

Li J; Zhang WB; Wilson M; Ito A; McManus DP. A novel recombinant antigen for immunodiagnosis of human cystic echinococcosis. J Infect Dis 2003 Dec 15;188(12): p1951-60

Myjak P; Nahorski W; Pietkiewicz H; von Nickisch-Rosenegk M; Stolarczyk J; Kacprzak E; Felczak-Korzybska I; Szostakowska B; Lucius R. Molecular confirmation of human alveolar echinococcosis in Poland. Clin Infect Dis 2003 Oct 15;37(8): p121-5

Cabrera M; Canova S; Rosenzvit M; Guarnera E. Identification of Echinococcus granulosus eggs. Diagn Microbiol Infect Dis 2002 Sep;44(1): p29-34

Dzirlo L; Wasilewski M; Poeschl E; Hellmich B; Bach S; Hoffmann E; Kerstan E. Liver cyst of echinococcus granulosus with rupture into the biliary tree--successful endoscopic and pharmaceutical treatment. Am J Gastroenterol 2006 Jul;101(7): p1674-5

Case 5

This 27 year old male presented with abdominal pain and diarrhea for 1 month. Gross: Sigmoid colon biopsies. Three Bouin's fixed fragments 0.2-0.3 cm in greatest dimension.

Dx: Histoplasmosis

Heninger E; Hogan LH; Karman J; Macvilay S; Hill B; Woods JP; Sandor M. Characterization of the Histoplasma capsulatum-induced granuloma. J Immunol 2006 Sep 1;177(5): p3303-13

McCullough K; Damjanov I. Intestinal histoplasmosis mimicking Whipple's disease. Histopathology 2006 Feb;48(3): p306-7

Al-Agha OM; Mooty M; Salarieh A. A 43-year-old woman with acquired immunodeficiency syndrome and fever of undetermined origin. Disseminated histoplasmosis. Arch Pathol Lab Med 2006 Jan;130(1): p120-3

Tseng TC; Liaw SJ; Hsiao CH; Wang CY; Lee LN; Huang TS; Hsueh PR. Molecular evidence of recurrent histoplasmosis with 9-year latency in a patient with Addison's disease. J Clin Microbiol 2005 Sep;43(9): p4911-3

Allen HL; Deepe GS. Apoptosis modulates protective immunity to the pathogenic fungus Histoplasma capsulatum. J Clin Invest 2005 Oct;115(10): p2875-85

Thompson GR; La Valle CE; Everett ED Unusual manifestations of histoplasmosis. Diagn Microbiol Infect Dis 2004 Sep;50(1): p33-41

Antinori S; Magni C; Nebuloni M; Parravicini C; Corbellino M; Sollima S; Galimberti L; Ridolfo AL; Wheat LJ. Histoplasmosis among human immunodeficiency virus-infected people in Europe: report of 4 cases and review of the literature. Medicine (Baltimore 2006 Jan;85(1): p22-36

Case 6

This is a 14 year old female with a history of ALL now with lung masses. Gross: Left lung wedge biopsy. Sectioning showed a 1.0 cm firm, white-tan nodule.

Dx: Nocardia, culture proven

Alfaresi M; Elkosh A. Rapid identification of clinically relevant Nocardia species using real-time PCR with SYBR Green and melting-curve analysis. J Med Microbiol 2006 Dec;55(Pt 12): p1711-5

Rodriguez-Nava V; Couble A; Devulder G; Flandrois JP; Boiron P; Laurent F. Use of PCR-restriction enzyme pattern analysis and sequencing database for hsp65 gene-based identification of Nocardia species. Clin Microbiol 2006 Feb;44(2): p536-46

Matulionyte R; Rohner P; Uckay I; Lew D; Garbino J. Secular trends of nocardia infection over 15 years in a tertiary care hospital. J Clin Pathol 2004 Aug;57(8): p807-12

Corti ME; Villafane-Fioti MF. Nocardiosis: a review. Int J Infect Dis 2003 Dec;7(4): p243-50

Saubolle MA; Sussland D. Nocardiosis: review of clinical and laboratory experience. J Clin Microbiol 2003 Oct;41(10): p4497-501

Case 7

This is a 9 year old male with a history of chronic cough & GERD. Gross: Duodenum biopsy. Two fragments are less than 0.1 to 0.1 cm in greatest dimension.

Dx: Giardiasis

Fenollar F; Lepidi H; Gerolami R; Drancourt M; Raoult D. Whipple disease associated with giardiasis. J Infect Dis 2003 Sep 15;188(6): p828-34

Pu RT; Rosenthal DL. Incidental giardiasis diagnosed by fine-needle aspiration of a phantom cecal "mass". Diagn Cytopathol 2005 Oct;33(4): p287-8

Nakajima H; Koike M; Kamisawa T; Fujiwara T; Sanaka M. Giardia lamblia in colonic biopsy specimens. Gastrointest Endosc 2004 Jul;60(1): p104

D'Anchino M; Orlando D; De Feudis L. Giardia lamblia infections become clinically evident by eliciting symptoms of irritable bowel syndrome. J Infect 2002 Oct;45(3): p169-72

Lebwohl B; Deckelbaum RJ; Green PH. Giardiasis. Gastrointest Endosc 2003 Jun;57(7): p906-13

Knight J. Giardia: not so special, after all? Nature 2004 May 20;429(6989): p236-7

Smalheiser NR. Bath toys--a source of gastrointestinal infection. N Engl J Med 2004 Jan 29;350(5): p521

Case 8

This is a 52 year old female with a history of fever and chills, increased abdominal girth and skin lesions for 1 year. Gross: 0.8x0.7x0.2 cm skin shave, left lateral neck.

Dx: Coccidioidomycosis

Crum-Cianflone NF; Truett AA; Teneza-Mora N; Maves RC; Chun HM; Bavaro MF; Hale BR. Unusual presentations of coccidioidomycosis: a case series and review of the literature. Medicine (Baltimore 2006 Sep;85(5): p263-77

Crum NF; Potter M; Pappagianis D. Seroincidence of Coccidioidomycosis during military desert training exercises. J Clin Microbiol 2004 Oct;42(10): p4552-5

Crum NF; Lederman ER; Stafford CM; Parrish JS; Wallace MR. Coccidioidomycosis: a descriptive survey of a reemerging disease. Clinical characteristics and current controversies. Medicine 2004 May;83(3): p149-75

Tsukadaira A; Okubo Y; Sato E; Kubo K. Chronic coccidioidomycosis. Lancet 2002 Sep 28;360(9338): p977

Di Caudo DJ. Coccidioidomycosis: a review and update. J Am Acad Dermatol 2006 Dec;55(6): p929-42; quiz 943-5

Santelli AC; Blair JE; Roust LR. Coccidioidomycosis in patients with diabetes mellitus. Am J Med 2006 Nov;119(11): p964-9

Case 9

Autopsy on a 67 year old African American male. History of prostate cancer, chronic renal insufficiency, gout, hypertension and diabetes mellitus. Prior to death presented with abdominal pain, vomiting, shortness of breath, acute pancreatitis and acute renal failure. Gross: Section of lung.

Dx: Cryptococcosis

Al-Marzooq YM; Chopra R; Al-Mommatten MI; Younis M; Al-Mulhim AS; Al-Hussini H. Fine-needle aspiration diagnosis of primary cutaneous cryptococcosis in an immunocompetent patient: a case report. Diagn Cytopathol 2005 Apr;32(4): p219-21

Kumar S; Ferns S; Jatiya L. A rare case of cryptococcosis diagnosed by fine needle aspiration cytology. Acta Cytol 2003 May-Jun;47(3): p528-9

Chang WC; Tzao C; Hsu HH; Lee SC; Huang KL; Tung HJ; Chen CY. Pulmonary cryptococcosis: comparison of clinical and radiographic characteristics in immunocompetent and immunocompromised patients. Chest 2006 Feb;129(2): p333-40

Lagrou K; Van Eldere J; Keuleers S; Hagen F; Merckx R; Verhaegen J; Peetermans WE; Boekhout T. Zoonotic transmission of Cryptococcus neoformans from a magpie to an immunocompetent patient. J Intern Med 2005 Apr;257(4): p385-8

Case 10

This is a 56 year old male with productive cough and weight loss. Gross: Open lung wedge biopsy.

Dx: Blastomycosis

Kapur U; Yong SL; Wojcik EM. Blastomyces associated with granulomatous inflammation in a bronchial lavage. Diagn Cytopathol 2005 Dec;33(6): p399-400

Auger I; Gagne E; Alain J; Pelletier R. Cutaneous blastomycosis: A clue for reassessing the recent diagnosis of pulmonary sarcoidosis. Arch Dermatol 2006 Jun;142(6): p795-7

Wallace J. Pulmonary blastomycosis: a great masquerader. Chest 2002 Mar;121(3): p677-9

Lemos LB; Baliga M; Guo M. Blastomycosis: The great pretender can also be an opportunist. Initial clinical diagnosis and underlying diseases in 123 patients. Ann Diagn Pathol 2002 Jun;6(3): p194-203

Chu JH; Feudtner C; Heydon K; Walsh TJ; Zaoutis TE. Hospitalizations for endemic mycoses: a population-based national study. Clin Infect Dis 2006 Mar 15;42(6): p822-5

Gray NA; Baddour LM. Cutaneous inoculation blastomycosis. Clin Infect Dis 2002 May 15;34(10): p44-9