

**California Tumor Tissue Registry's  
Subscription "C" - Vol 2(3)  
November, 2008**

***"Pathology of Infectious Disease - part 2"  
part 1 was study set vol1(1), September, 2007***

**Case 1**

Donation: Dr. Boleslaw Liwnicz, Loma Linda University Medical Center

This is a cecal biopsy from a 77 year old male with rectal bleeding.

**Diagnosis:**

Trichuris Trichiura

Trichuris trichiura worm infection. Elsayed S; Yilmaz A; Hershfield N. Gastrointest Endosc 2004 Dec;60(6): p990-1.

Age and infection intensity-dependent cytokine and antibody production in human trichuriasis: the importance of IgE. Faulkner H; Turner J; Kamgno J; Pion SD; Boussinesq M; Bradley JE. J Infect Dis 2002 Mar 1;185(5): p665-72.

Immunotherapy. Can worms tame the immune system? Wickelgren I. Science 2004 Jul 9;305(5681): p170-1.

Caecal-caecal intussusception caused by Trichuris trichiura in a young healthy adult. To KK; Cheng VC; Hung IF; Tang BS; Wong SS; Yuen KY. Scand J Infect Dis 2006;38(9): p813-5.

Will worms really cure Crohn's disease? Radford-Smith GL. Comment On: RefSource:Gut. 2005 Jan; 54(1):87-90.

**Case 2**

Donation: Dr. Roland Lonser, Loma Linda University Medical Center

This is a colonic biopsy from a 71 year old male with diarrhea.

**Diagnosis:**

Amoebiasis

Amoebiasis. Stanley SL. Lancet 2003 Mar 22;361(9362): p1025-34.

Primary cutaneous amoebiasis: case report with review of the literature. Parshad S; Grover PS; Sharma A; Verma DK; Sharma A. Int J Dermatol 2002 Oct;41(10): p676-80.

Drug resistance in amoebiasis. Bansal D; Malla N; Mahajan RC. Indian J Med Res 2006 Feb;123(2): p115-8.

Cytokine mRNA expressions in symptomatic vs. asymptomatic amoebiasis patients. Bansal D; Sehgal R; Chawla Y; Malla N; Mahajan RC. Parasite Immunol 2005 Jan-Feb;27(1-2): p37-43.

Differentiation of entamoeba histolytica/entamoeba dispar by PCR and their correlation with humoral and cellular immunity in individuals with clinical variants of amoebiasis. Sanchez-Guillen Mdel C; Perez-Fuentes R; Salgado-Rosas H; Ruiz-Arguelles. Am J Trop Med Hyg 2002 Jun;66(6): p731-7.

### **Case 3**

Donation: Dr. Pam Wat, Loma Linda University Medical Center

This slide is from a 7 year old male with clinical "appendicitis" The removed appendix was 2 grams, 5.0 x 0.9 x 0.9 cm and pearly white. The serosa was pink-tan and smooth without perforation or exudate. The mucosa was focally hemorrhagic. The lumen at the proximal end was distended to 0.8 cm and was filled with fecal material intermixed with blood.

**Diagnosis:**  
**Enterobius vermicularis**

Unusual endoscopic and microscopic view of Enterobius vermicularis: a case report with a review of the literature. Petro M; Iavu K; Minocha A. South Med J 2005 Sep;98(9): p927-9.

Detection of Enterobius vermicularis eggs in the submucosa of the transverse colon of a man presenting with colon carcinoma. Lee SC; Hwang KP; Tsai WS; Lin CY; Lee N. Comment In: RefSource:Am J Trop Med Hyg. 2003 Sep; 69(3):233; author reply 233.

Images in clinical medicine. Enterobius vermicularis. Brown MD. N Engl J Med 2006 Mar 30;354(13): pg12.

Two cases of eosinophilic gastroenteritis and malabsorption due to Enterobius vermicularis. Tsibouris P; Galeas T; Moussia M; Sotiropoulou M; Michopoulos S; Kralios N. Dig Dis Sci 2005 Dec;50(12): p2389-92.

Pelvic inflammatory disease associated with Enterobius vermicularis. Tandan T; Pollard AJ; Money DM; Scheifele DW. Arch Dis Child 2002 Jun;86(6): p439-40.

### **Case 4**

Donation: Dr. Mark Janssen, Loma Linda University

The tissue is from a lymph node from a one year old girl with mediastinal lymphadenopathy.

**Diagnosis:**  
**Measles**

Measles - United States, 2005. MMWR Morb Mortal Wkly Rep 2006 Dec 22;55(50): p1348-51.

Measles in the United Kingdom: can we eradicate it by 2010? Asaria P; MacMahon E. Comment In: RefSource:BMJ. 2006 Nov 11; 333(7576):1021-2/PMID:17095790.

Global measles deaths plunge by 48% over past six years. Indian J Med Sci 2006 Mar;60(3): p127-9.

Measles vaccines and the potential for worldwide eradication of measles. Meissner HC; Strebel PM; Orenstein WA. Pediatrics 2004 Oct;114(4): p1065-9.

Measles elimination in the United States. Orenstein WA; Papania MJ; Wharton ME. J Infect Dis 2004 May 1;189 Suppl 1:S1-3.

WHO and UNICEF report good news on measles. Kapp C. Lancet 2004 May 8;363(9420): p1531.

## **Case 5**

Donation: Dr. Fred Soeprono, Loma Linda University

This is a skin biopsy from an elderly, immunosuppressed male with erythematous nodules.

### **Diagnosis:**

#### **Histoplasmosis**

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

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

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

Rapid PCR-based diagnosis of disseminated histoplasmosis in an AIDS patient. Rickerts V; Bialek R; Tintelnot K; Jacobi V; Just-Nubling G. Eur J Clin Microbiol Infect Dis 2002 Nov;21(11): p821-3.

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

Outbreak of histoplasmosis among industrial plant workers--Nebraska, 2004. MMWR Morb Mortal Wkly Rep 2004 Nov 5;53(43): p1020-2.

## **Case 6**

Donation: Dr. Anwar Raza, Loma Linda University

A 53 year old immunocompromised male with recent onset of constipation. A colon biopsy consisted of three pink-tan soft tissues ranging 0.3 to 0.4 cm. (Please note the silver stain).

**Diagnosis:**  
**Spirochaetosis**

Symptomatic colonic spirochaetosis in an immunocompetent patient. Lin RK; Miyai K; Carethers JM. J Clin Pathol 2006 Oct;59(10): p1100-1.

Intestinal spirochaetosis. Willen R; Wanders A; Engstrand L. Histopathology 2006 Dec;49(6): p658-9.

The first reported case of intestinal spirochaetosis in Japan. Nakamura S; Kuroda T; Sugai T; Ono S; Yoshida T; Akasaka I; Nakashima F; Sasou S. Pathol Int 1998 Jan;48(1): p58-62.

Appendiceal spirochetosis. Yang M; Lapham R. South Med J 1997 Jan;90(1): p30-2.

**Case 7**

Donation: Dr. Resa Chase, Loma Linda University

A 56 year old African American male presented with painful subcutaneous nodules of forearm and swelling of legs. (Please also look at the PAS and GMS stains)

**Diagnosis:**  
**Sporotrichosis**

Spook house sporotrichosis. A point-source outbreak of sporotrichosis associated with hay bale props in a Halloween haunted-house. Dooley DP; Bostic PS; Beckius ML. Arch Intern Med 1997 Sep 8;157(16): p1885-7.

Epidemic cutaneous sporotrichosis: report of 16 cases in Queensland due to mouldy hay. Conias S; Wilson P. Australas J Dermatol 1998 Feb;39(1): p34-7.

The asteroid bodies of sporotrichosis. Rodriguez G; Sarmiento L. Am J Dermatopathol 1998 Jun;20(3): p246-9.

Fine-needle aspiration cytologic diagnosis of lymphocutaneous sporotrichosis: a case report. Zaharopoulos P. Diagn Cytopathol 1999 Feb;20(2): p74-7.

Disseminated cutaneous sporotrichosis in an AIDS patient receiving maintenance therapy with fluconazole for previous cryptococcal meningitis. Goldani LZ; Aquino VR; Dargel AA. Clin Infect Dis 1999 Jun;28(6): p1337-8.

**Case 8**

Donation: Dr. Douglas Kahn, Consolidated Lab Services, Van Nuys, CA 91406

A 16 year old man presented with a 24 hour history of right sided abdominal pain, nausea, vomiting, fever and decreased appetite with an elevated WBC count. Surgical removal of the appendix showed the gland to be 7.0 x 0.5 cm and to have a fibrinous exudate covering the surface.

**Diagnosis:**

**Balantidium coli appendicitis**

Cytochemical identification of mucocysts in *Balantidium coli* trophozoites. Skotarczak B. *Folia Biol* (Krakow 1999;47(1-2): p61-5.

Flagellates and ciliates. Garcia LS. *Clin Lab Med* 1999 Sep;19(3): p621-38, vii.

Severe peritonitis due to *Balantidium coli* acquired in France. Ferry T; Bouhour D; De Monbrison F; Laurent F; Dumouchel-Champagne H; Picot S; Piens MA; Granier P. *Eur J Clin Microbiol Infect Dis* 2004 May;23(5): p393-5.

Pulmonary *Balantidium coli* infection in a leukemic patient. Anargyrou K; Petrikos GL; Suller MT; Skiada A; Siakantaris MP; Osuntuyinbo RT; Pangalis G; Vaiopoulos G. *Am J Hematol* 2003 Jul;73(3): p180-3.

*Balantidium coli* pneumonia in an immunocompromised patient. Vasilakopoulou A; Dimarongona K; Samakovli A; Papadimitris K; Avlami A. *Scand J Infect Dis* 2003;35(2): p144-6.

**Case 9**

Donation: Dr. Fred Soeprono, Loma Linda University

This is a skin biopsy from a middle aged male farmer with crusted plaques on his legs of several years duration.

**Diagnosis:**

**Chromoblastomycosis**

Chromoblastomycosis. Vijaya D; Kumar BH. *Mycoses* 2005 Jan;48(1): p82-4.

Antigen distribution and antigen-presenting cells in skin biopsies of human chromoblastomycosis. Sotto MN; De Brito T; Silva AM; Vidal M; Castro LG. *J Cutan Pathol* 2004 Jan;31(1): p14-8.

A case of chromoblastomycosis with an unusual clinical manifestation caused by *Phialophora verrucosa* on an unexposed area: treatment with a combination of amphotericin B and 5-flucytosine. Park SG; Oh SH; Suh SB; Lee KH; Chung KY. *Br J Dermatol* 2005 Mar;152(3): p560-4.

Images in clinical medicine. Chromoblastomycosis. Brown M; Pasvol G. *N Engl J Med* 2005 May 19;352(20): p19.

**Case 10**

Donation: Dr. Fred Soeprono, Loma Linda University

This is a skin biopsy from a middle-aged male with a travel history to the Middle East. He had crusted nodules with central depression on his trunk and extremities.

**Diagnosis:**

**Cutaneous Leishmaniasis**

Leishmania major cutaneous leishmaniasis in HIV-positive patients does not spread to extralesional sites. Foulet F; Cosnes A; Dellion S; Blum L; Bachmeyer C; Raguin G; Tourte-Schaeffer C; Deniau M; Bretagne S. Arch Dermatol 2006 Oct;142(10): p1368-9.

Leishmania: risk to the blood supply. Cardo LJ. Transfusion 2006 Sep;46(9): p1641-5.

Comparison of polymerase chain reaction with other laboratory methods for the diagnosis of American cutaneous leishmaniasis: diagnosis of cutaneous leishmaniasis by polymerase chain reaction. Marques MJ; Volpini AC; Machado-Coelho GL; Machado-Pinto J; da Costa CA; Mayrink W; Genaro O; Romanha AJ. Diagn Microbiol Infect Dis 2006 Jan;54(1): p37-43.

Advances in leishmaniasis. Murray HW; Berman JD; Davies CR; Saravia NG. Comment In: RefSource:Lancet. 2006 Jan 14; 367.

Disseminated cutaneous leishmaniasis on lymphedema following radiotherapy. Sadeghian G; Iraj F; Nilfroushzadeh MA. Int J Dermatol 2005 Jul;44(7): p610-1.

An unusual presentation of cutaneous leishmaniasis. Anton E; Lopez A; Marti J. Arch Dermatol 2005 Jan;141(1): p109-10.

Localized cutaneous leishmaniasis due to Leishmania donovani and Leishmania tropica: preliminary findings of the study of 161 new cases from a new endemic focus in himachal pradesh, India. Sharma NL; Mahajan VK; Kanga A; Sood A; Katoch VM; Mauricio I; Singh CD; Parwan UC; Sharma VK; Sharma RC. Am J Trop Med Hyg 2005 Jun;72(6): p819-24.