

Summary of Testing for Infectious Diseases

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Summary of Testing for Infectious Diseases

Negative Results

2/07 Study criteria for inclusion:

Negative for TB, HIV, Hepatitis B and C

7/2 Synovial fluid culture for bacteria

7/2 Synovial fluid <150 cells/ul

7/7 Blood culture

7/7 Urine culture

Negative Data for Infectious Diseases

**7/13 - 7/17 Parvovirus Ig, CMV IgM, RPR for Syphilis,
Ehrlichia Ig, Anaplasma Ig**

7/17 Blood culture

7/17 Urine culture

7/18 VZV PCR

7/18 Blood culture for adenovirus

7/19 Blood culture at 6 days ***

7/19 Blood CMV PCR

7/19 Liver biopsy viral culture

**7/19 IgM serologies negative for CMV, EBV, Hepatitis A,
HepB core**

7/19 HIV1/HIV2 EIA nonreactive

Positive Data for Infection

- 7/17 Tracheal Aspirate - positive few *Candida***
- 7/19 Urine culture positive for *Candida albicans*
10,000 to 100,000 /ml**
- 7/21 Yeast seen on peripheral blood smear in Heme Lab**

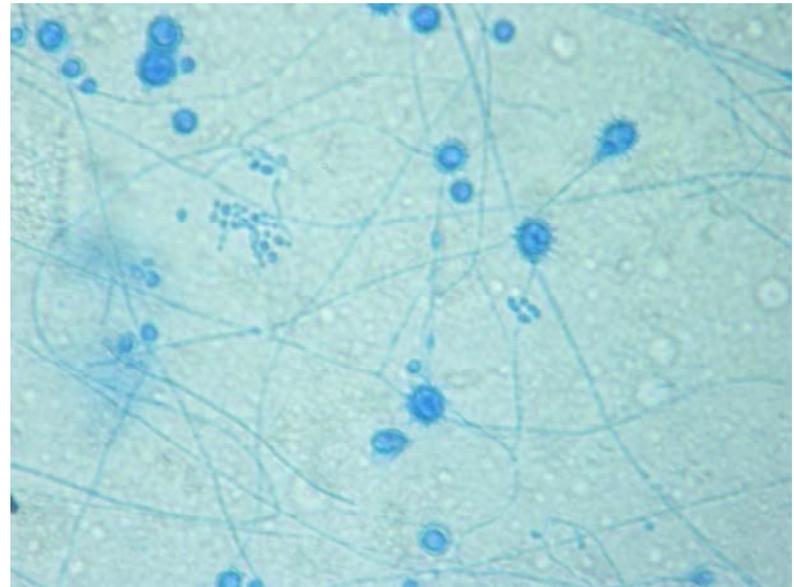
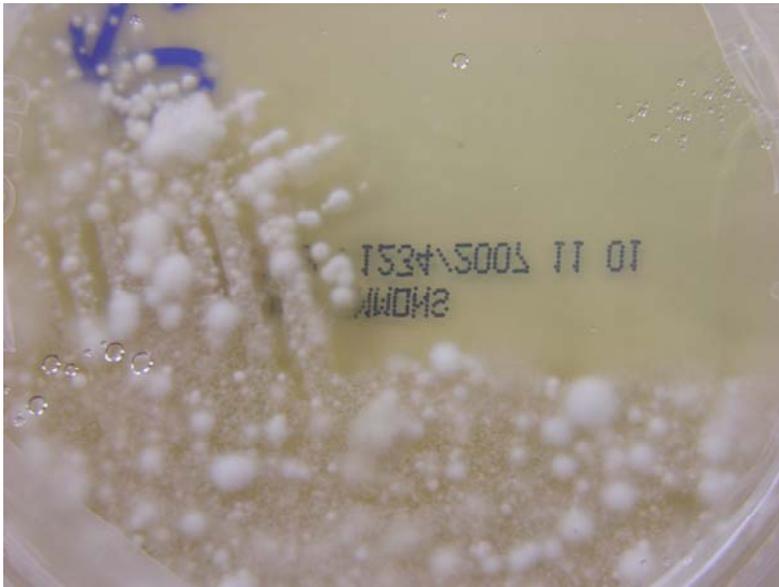
Evidence of *Histoplasma capsulatum* Infection

7/24 Antemortem blood culture positive on 7/26

7/25 Postmortem blood culture positive

7/25 Postmortem lung culture positive

Yeast on smear from positive bottle, mold examined after growth on plate



Antemortem Evidence of HSV1 Infection

**6/22 Prescription for Valacyclovir for
presumed recurrent Herpes infection**

7/18 HSV (1&2) 300 copies/ml (Viracor Laboratories)

**(Range of results reported by Viracor in 2007:
100 copies/ml to 450,000,000 copies/ml)**

7/19 Nasopharyngeal aspirate culture HSV1 +

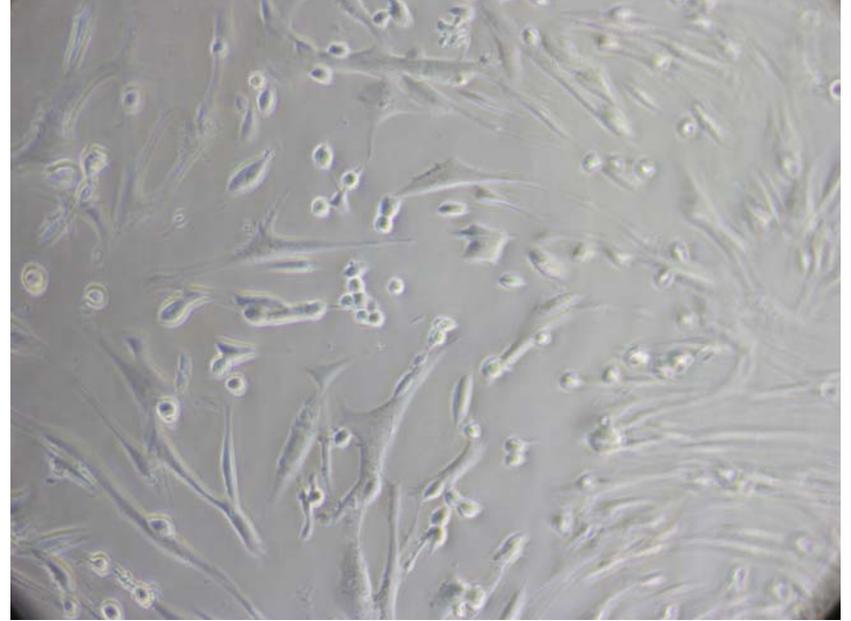
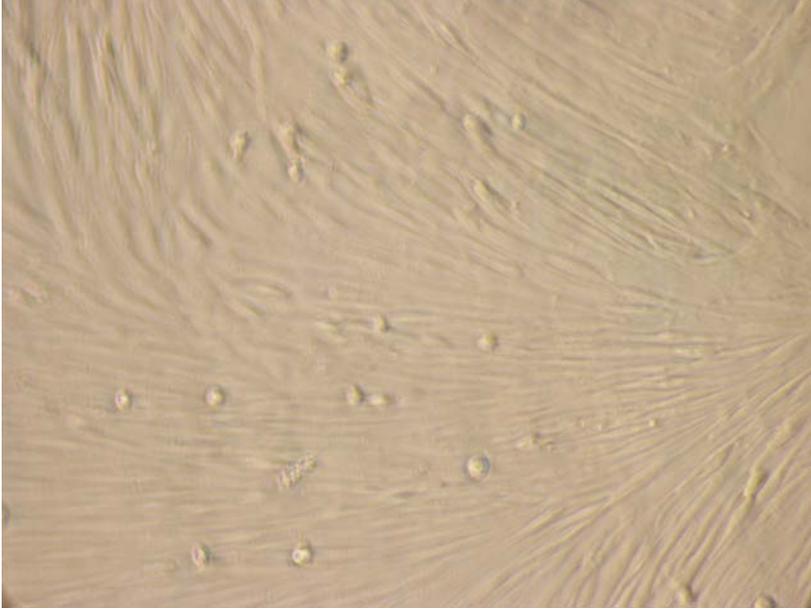
**7/19 HSV IgG Type 1 +
Type 2 -**

Postmortem Evidence of HSV1 Infection

Tissue	A549	HF	CV1	HEp-2	PMK
Sm Intestine			C	C	
Heart		C		C	C
Costal Muscle					
Kidney					
Lung					
Adrenal					
Spleen					
Trachea		7/31	7/30		
Brain		7/27	7/30	7/30	8/7
Lt Knee		7/30			
Rt Knee			7/30		8/8

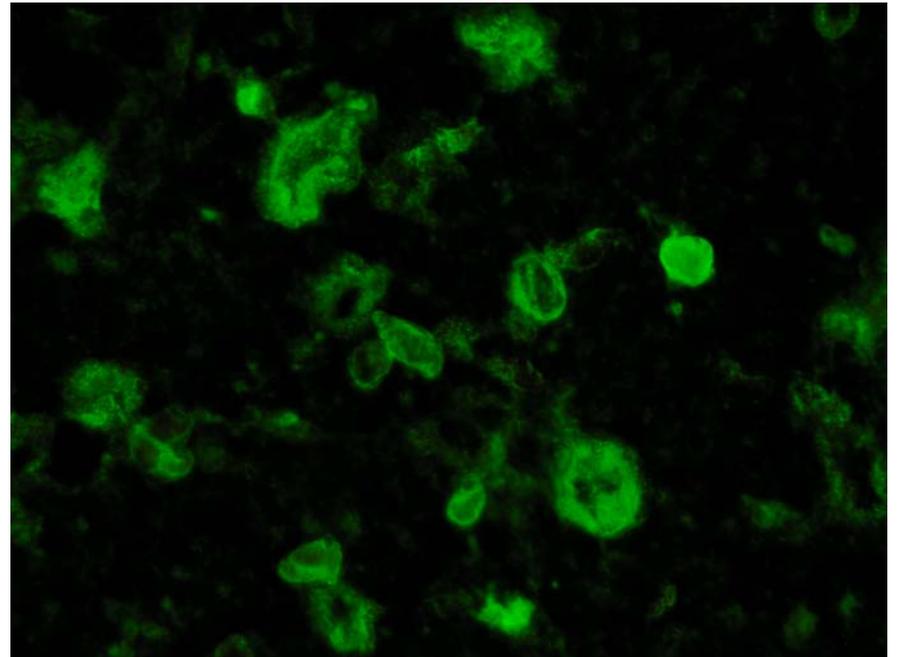
Negative for Adenovirus, CMV, Respiratory viruses

C, Bacterial contamination, filtered and recultured



HSV1 Cytopathic Effect in cell culture

**HSV1+ Staining
with monoclonal Ab**



Additional HSV Testing

- **Low Level of Circulating Virus vs. Clinically Significant Disseminated HSV Infection**
- **Relevance to viral vector used for gene therapy?**

Negative Results for Following Studies:

- **Histologic examination for intranuclear inclusions**
- **HSV Immunohistochemistry: brain**
- **PCR for HSV:
Cerebellum, Cerebral Cortex,
Liver left lobe, Liver right lobe** (Mayo Labs)

Additional Autopsy Studies

(1) PCR assays relevant to gene therapy

Preliminary results on three tissues completed

(2) PCR of blood and other tissues pending

(3) Priority of other tests on remaining specimens to be decided following RAC meeting.