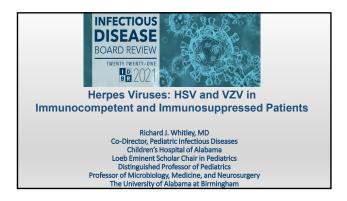
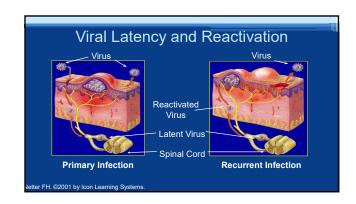
Speaker: Richard Whitley, MD

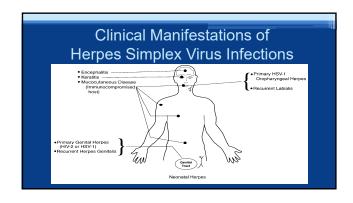


Disclosures of Financial Relationships with **Relevant Commercial Interests**

- Member, Board of Directors at Gilead Sciences, rotated off in May of 2021
- Chairperson: NIAID COVID-19 Vaccine DSMB
 Chairperson: Merck Letermovir DMC and GSK IDMC for Zoster
 Scientific Advisory Board: Treovir, LLC
- Member, Board of Directors at Evrys Bio Member, Board of Directors at Virios Therapeutics

Herpes Viruses: The Family • Herpes simplex virus, type 1 (HSV-1) • Herpes simplex virus, type 2 (HSV-2) Varicella zoster virus (VZV) Cytomegalovirus (CMV) • Epstein Barr virus (EBV) Human herpesvirus 6 (HHV 6 A and B) Human herpesvirus 7 (HHV 7) Human herpesvirus 8 (HHV 8)

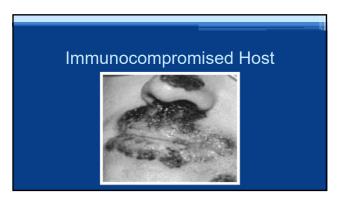






Speaker: Richard Whitley, MD





Most Widely Used Systemic
Anti-HSV and VZV Drugs

• Acyclovir (ACV, Zovirax)

• Famciclovir (FCV, Famvir)

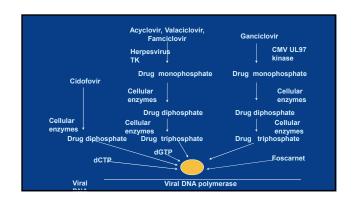
• Valacyclovir (VACV, Valtrex)

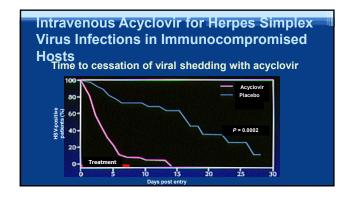
• Foscarnet (PFA, Foscavir)

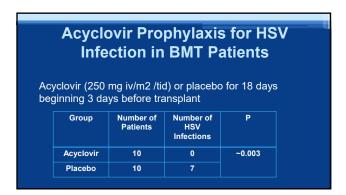
• Ganciclovir (GCV, Cytovene)

• Val-Ganciclovir (Valcyte)

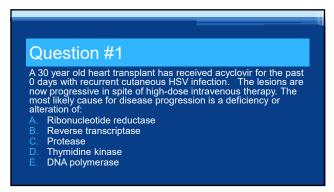
• Others:

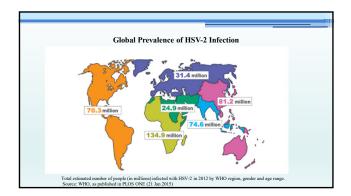






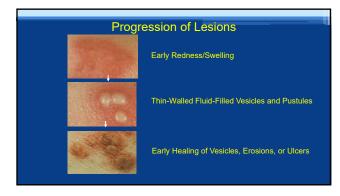




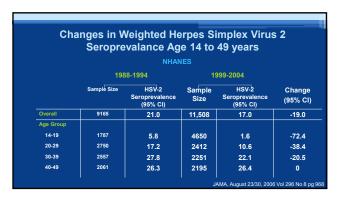


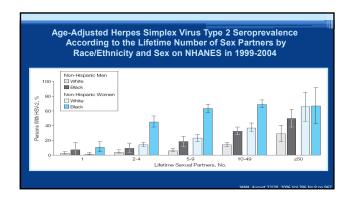


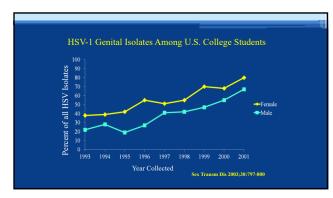


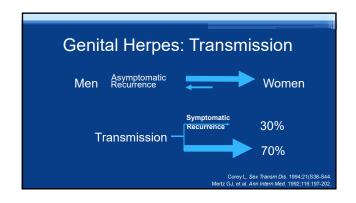




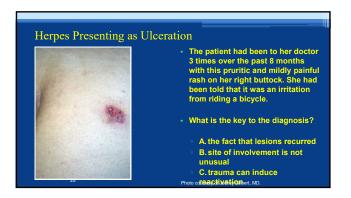


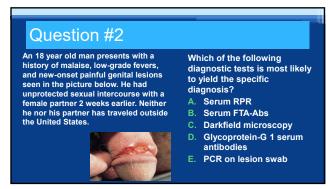




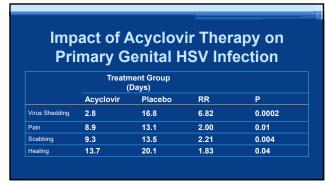


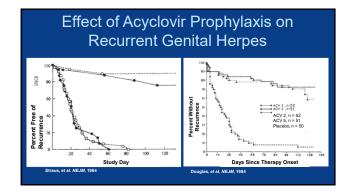






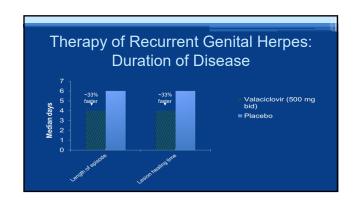


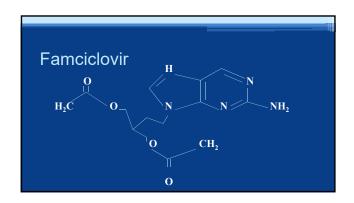


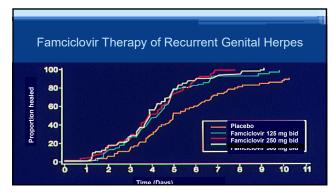




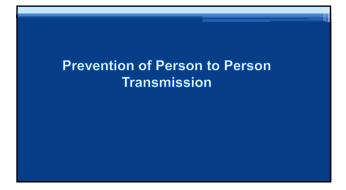
Acyclovir/Valacyclovir Kinetics			
C _{max} (μg/mL)	Daily AUC (μg/mL•h)		
VALTREX	1 g 3x/d	5.0	47
Oral ZOVIRAX	800 mg 5x/d	1.6	24
IV ZOVIRAX	5 mg/kg 3x/d	9.8	54
	10 mg/kg 3x/d	20.7	107

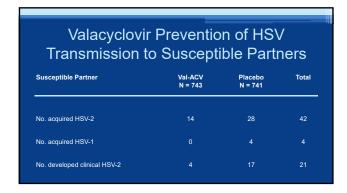


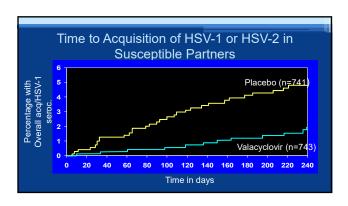


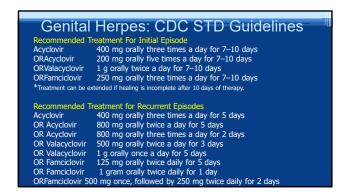




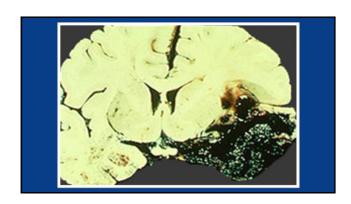


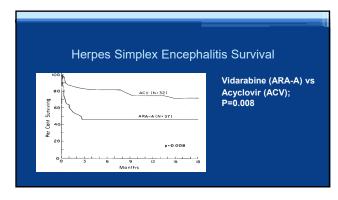


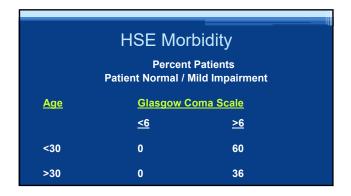


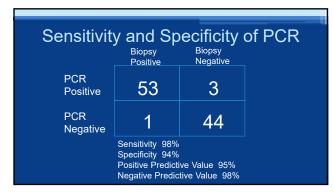


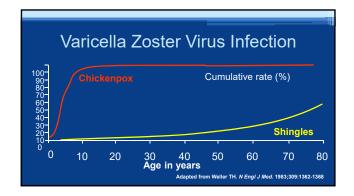




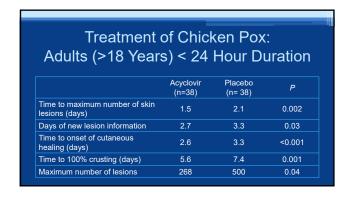


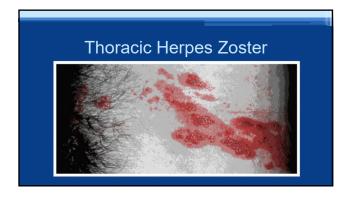










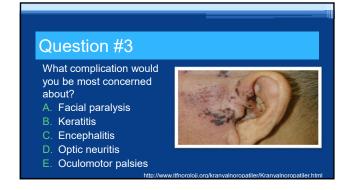


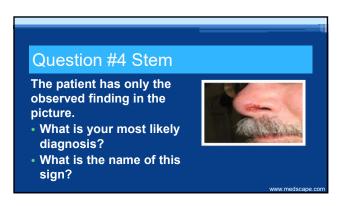
Speaker: Richard Whitley, MD

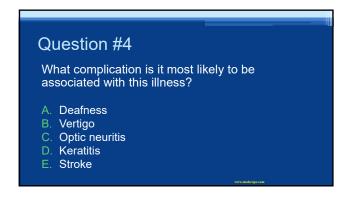


Answer

- · Clinically this is herpes zoster
- The lesion shown is Tzank prep positive on skin scraping. The sensitivity of this test is only ~60% and, therefore, is not recommended
- Immunofluorescence is positive for VZV, having a sensitivity of ~80%.
- Preferably, PCR can be performed even when lesions are scabbed and has the highest sensitivity.

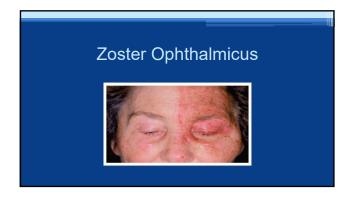






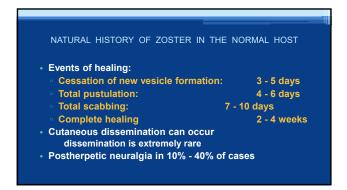


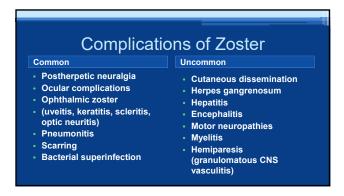
Speaker: Richard Whitley, MD

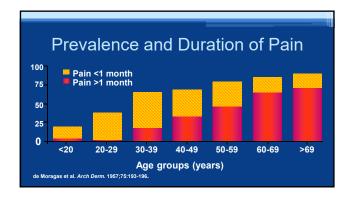


NATURAL HISTORY OF ZOSTER IN THE NORMAL HOST

- Acute neuritis may precede rash by 48 72 hours
- Maculopapular eruption, followed by clusters of vesicles
- Unilateral dermatomal distribution

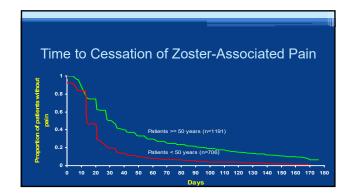


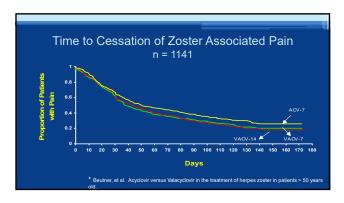


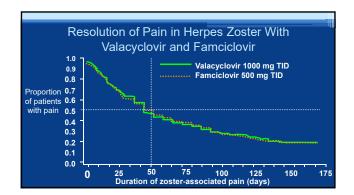


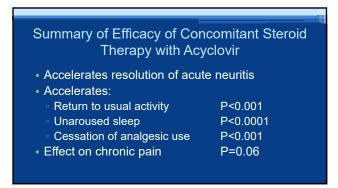


Speaker: Richard Whitley, MD





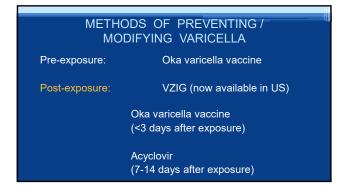


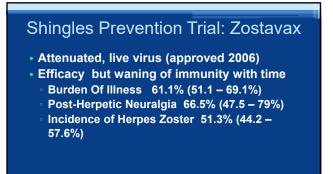




Question 6 A 32 year previously healthy female is referred by an ophthalmologist for treatment of acute retinal necrosis, diagnosed in her office earlier that day. You recommend which of the following as initial therapy: • A. sulfadiazine and pyrimethamine • B. ganciclovir IV • C. acylovir PO • D. acyclovir IV • E. foscarnet IV

Speaker: Richard Whitley, MD





Second Generation Vaccine: Shingrix

Recombinant adjuvanted vaccine
Two shots
Solvers of age
Efficacy
Both PHN and incidence of shingles
Solvers of a years
Adverse events
Local reactogenicity: redness and pain ~ 50-70%
Systemic malaise/fever: ~30%

Thank You rwhitley@uab.edu