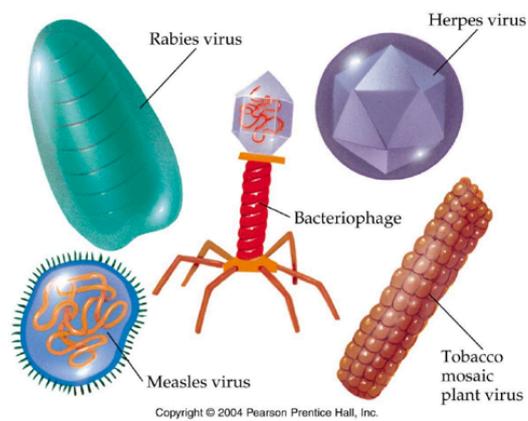


ANTIVIRAIS

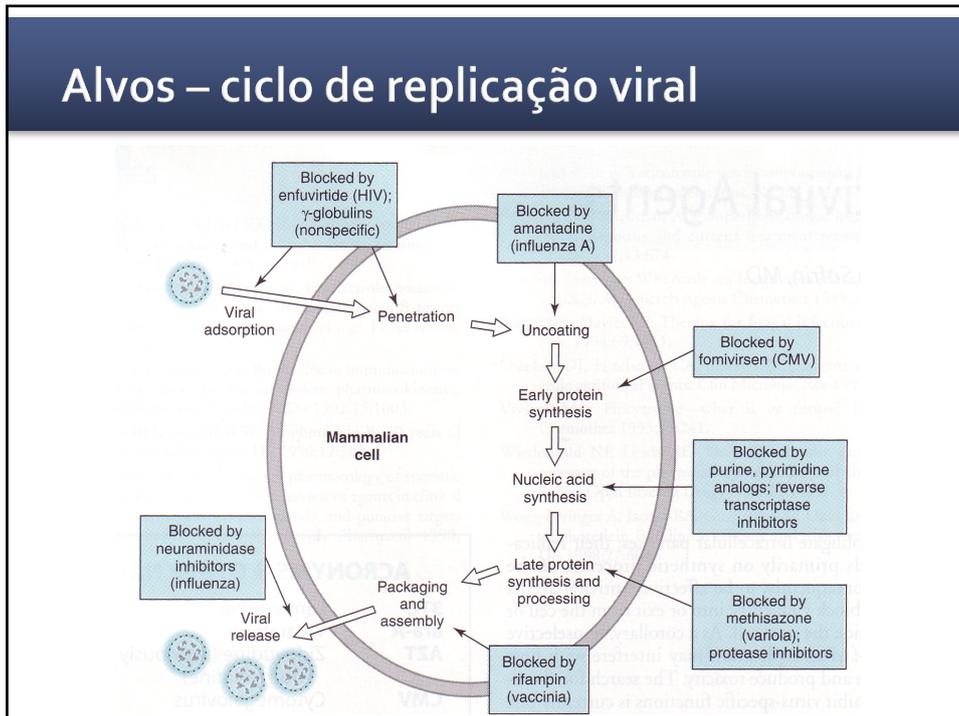
Aula TP



Antivirais



Alvos – ciclo de replicação viral



Herpesvírus

Herpesvírus

- Aciclovir / Valaciclovir
- Famciclovir / Penciclovir
- Ganciclovir / Cidofovir
- Foscarnet
- Trifluridine

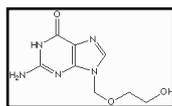
Formulation	Antiviral Agent	Available in the United States	FDA Approved for HSV-1 Infection	FDA Approved for HSV Keratitis	Limitations
Topical					
	Trifluridine Solution	Yes	Yes	Yes	
	Ganciclovir Gel	Yes	Yes	Yes	
	Acyclovir Ointment	No	Widely used in Europe		
	Idoxuridine	No longer manufactured			
	Vidarabine	No longer manufactured			
	Brivudine	No longer manufactured			
Oral					
	Acyclovir	Yes	Yes	No	
	Valaciclovir	Yes	Yes	No	
	Famciclovir	Yes	Yes	No	
	Brivudine	No	No	No	
	Valganciclovir	Yes	No	No	Safety*
Intravenous					
	Acyclovir	Yes	Yes	No	
	Foscarnet	Yes	Yes	No	Safety*
	Cidofovir	Yes	No	No	Safety*
	Ganciclovir	Yes	No	No	Safety*

* Please see manufacturers' prescribing information for details.

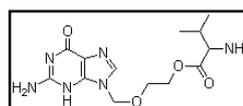
HSV-1 e HSV-2

■ Inibidores da síntese de ADN viral

- Aciclovir
- Valaciclovir
- Penciclovir
- Famciclovir
- Trifluridina

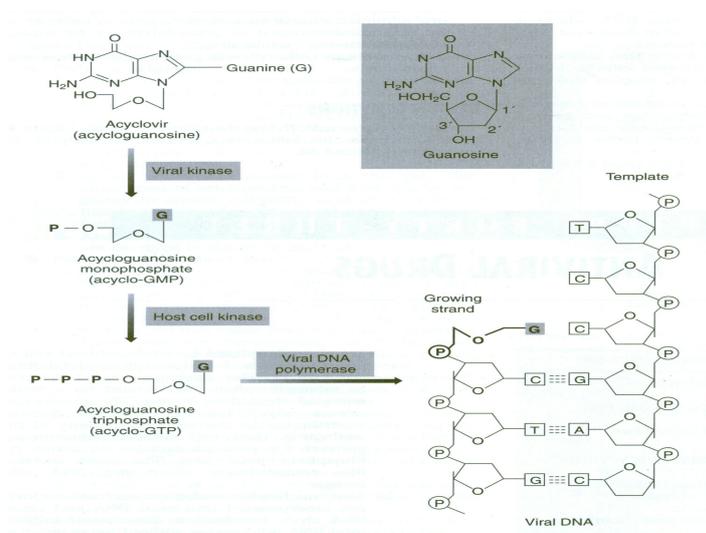


Aciclovir



Valaciclovir

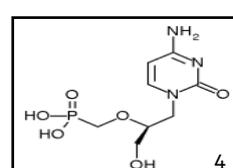
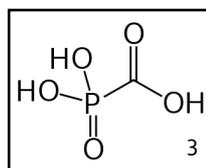
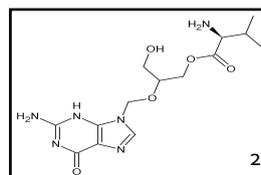
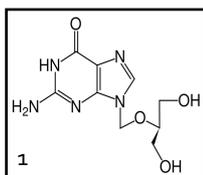
Mecanismo de ação do aciclovir



CMV

■ Inibidores da síntese de ADN viral

- Ganciclovir (1)
- Valganciclovir (2)
- Foscarnet (3)
- Cidofovir (4)
- Fomivirsen



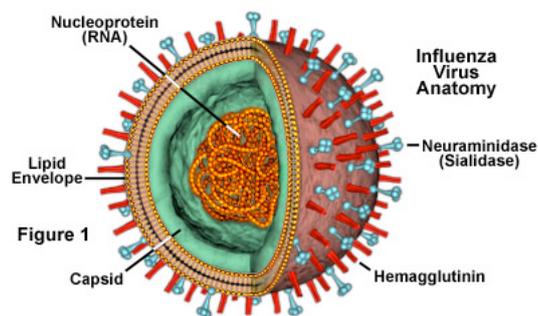
Resumo / Indicação

Ação antiviral:

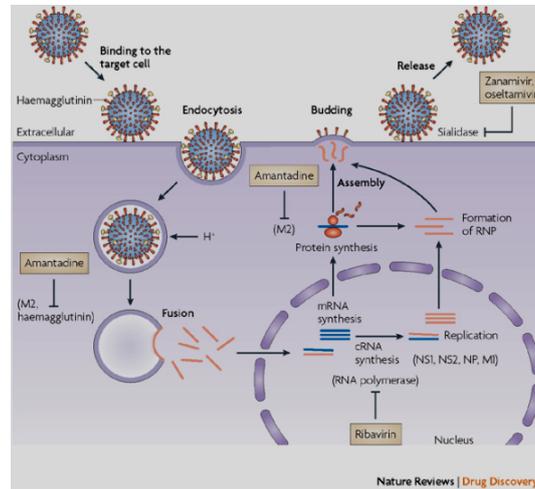
- Acyclovir: HSV-1, HSV-2, VZV, Zona.
- Ganciclovir / Cidofovir : CMV
- Famciclovir : Herpes genital e zona
- Foscarnet : HSV, VZV, CMV, HIV
- Penciclovir : Herpes labial
- Trifluridine : Queratoconjuntivite Herpética

Virus Influenza

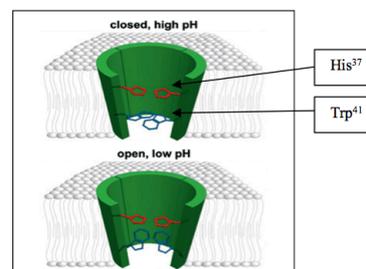
Influenza



Influenza

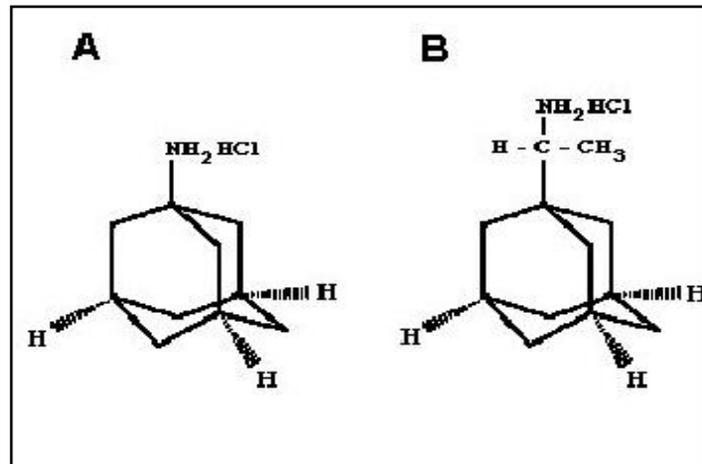


- Inibidores M2
 - Amantadina
 - Rimantadina

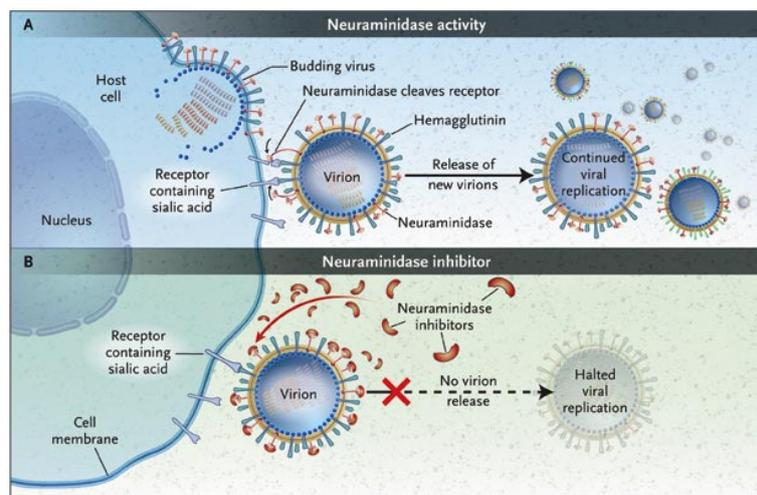


Modelo de transportador de prótons. Em cima, o canal está fechado – a His³⁷ não está carregada e a Trp⁴¹ está a obstruir o poro. Em baixo, o canal está aberto – a Trp⁴¹ move-se para uma posição paralela ao eixo do poro permitindo que haja influxo de iões H⁺.¹⁰⁰

Amantadina / Rimantadina

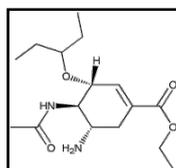


Atividade da neuraminidase

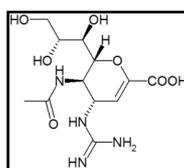


Inibidores da Neuraminidase

- Oseltamivir



- Zanamivir



Influenza

Approved Antivirals for Influenza

	Route	Approved Treatment	Approved Prophylaxis
M2 Ion Channel Inhibitors			
Amantadine	PO	≥1 year	>1 year
Rimantadine	PO	>13 years	>1 year
Neuraminidase Inhibitors			
Oseltamivir	PO	≥1 year	>1 year
Zanamivir	Inhaled	≥5 years	>7 years

Influenza

Medscape®

www.medscape.com

Drug	Route	Usual Adult Dosage	Threshold for Adjustment in Renal Insufficiency/Failure	Adjustment for Hepatic Failure
Influenza A and B viruses				
Oseltamivir	PO	75 mg bid for 5 days	CrCl \leq 50 mL/min/1.73 m ²	No adjustment
Zanamivir	Inhalation	10 mg bid by inhaler for 5 days	CrCl \leq 10 mL/min/1.73 m ²	100 mg daily
Influenza A				
Amantadine	PO	100 mg bid for 5 days	CrCl \leq 30 mL/min/1.73 m ²	No adjustment
Rimantadine	PO	100 mg bid for 5 days	No adjustment	No adjustment

PO, by mouth; bid, two times a day.

Source: Crit Care Med © 2008 Lippincott Williams & Wilkins

RSV

Broquiolite - RSV

- Ribavirina
- Palivizumab

