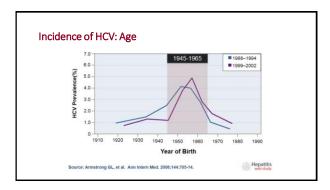
Viva La Revolución: Options to Combat Hepatitis C

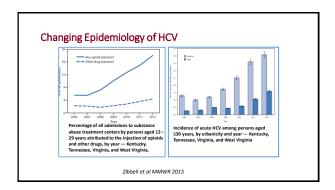
Andrew I. Aronsohn, MD
Associate Professor of Medicine
The University of Chicago Medicine
Chicago, Illinois

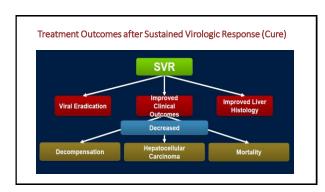
Learning Objectives

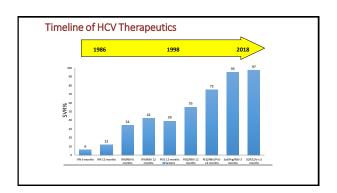
After attending this presentation, learners will be able to:

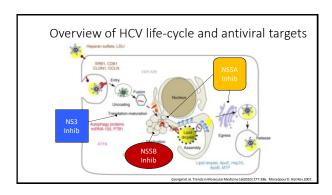
- List the available drugs and regimens for treating hepatitis
 C and their viral targets
- Describe the efficacy of treatments, by virus genotype, for initial therapy and retreatment

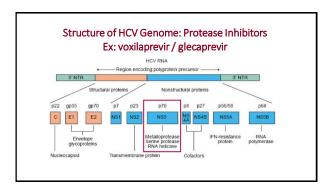


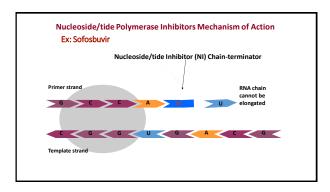












Lots of Words

- previr = protease inhibitor
 - Grazoprevir, Simeprevir
- asvir = NS5A inhibitorDaclatasvir, Ledipasvir
- - buvir = polymerase
- inhibitor
- Sofosbuvir



Currently Available DAA's								
DAA Class	Sofosbuvir/ Velpatasvir	Sofosbuvir/ Ledipasvir	Sofosbuvir/ Velpastasvir/ Voxilaprevir	Elbasvir/ Grazoprevir	Glecaprevir/ Pibrentasvir			
Protease Inhibitor			х	х	Х			
NS5A inhibitor	х	х	х	х	Х			
Nucleoside Polymerase Inhibitor	x	x	x					

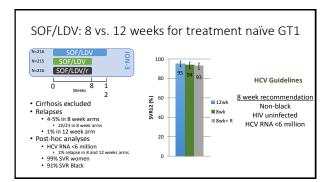
1)Genotype 2)Treatment Experienced? 3)Cirrhotic? **Weeting of the control of the

ARS Question 1: Eight weeks of LDV/SOF is not recommended for which patient population with GT1 and an HCV RNA <6 million? (AASLD/IDSA Guidelines)

- 1. Patients without cirrhosis
- 2. Black patients
- 3. Female patients
- 4. Male patients
- 5. Genotype 1a subtype

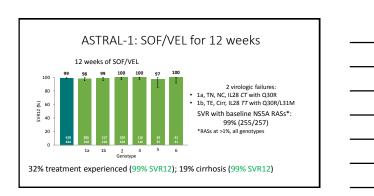
Sofosbuvir / Ledipasvir

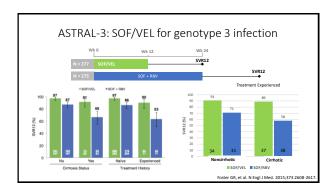
- Genotype 1, 4, 5,6
- Effective in cirrhosis (including decompensation)
- GFR >30
- 8 weeks for some
- Amiodarone contraindicated



Sofosbuvir / Velpatasvir

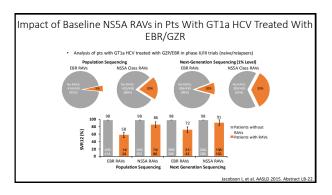
- Pangenotypic
- · Safe / Effective in Cirrhosis (including decompensation)
- GFR > 30
- · Amiodarone contraindicated

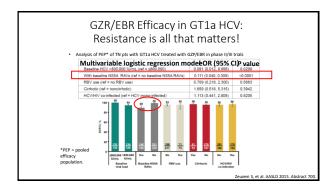




Elbasvir / Grazoprevir

- Genotype 1 and 4
- Safe / Effective in cirrhosis (NOT for CTP B and C)
- Safe / Effective CKD including dialysis
- Need to watch for RAS in GT 1a

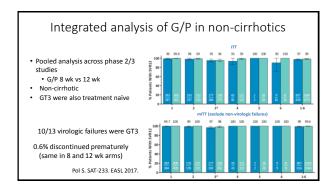


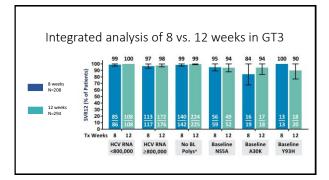


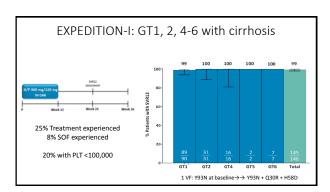


Glecaprevir / Pibrentasvir

- Pangenotypic
- Safe / Effective in cirrhosis (Not to be used in CTP B and C)
- Safe / Effective for CKD including dialysis
- 8 weeks for some (noncirrhotics)
- Efficacy in DAA Experienced

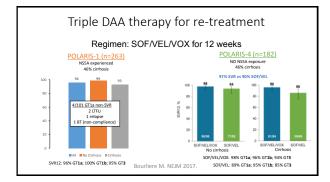




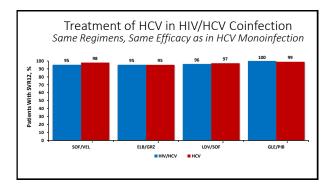


Sofosbuvir / Velpatasvir / Voxilaprevir

- Pangenotypic
- · High SVR in DAA Failures
- Effective in cirrhosis (Not to be used with CTP B and C)
- · Amiodarone contraindicated
- GFR >30



DAA experienced: What do the labels say? Prior treatment SOF/VEL/VOX GLE/PIB GT1 NS5A (+/- SOF) 12 (also 2-6) 16 GT1 NS3 (+/- SOF) 12 (1a only) 12 GT1-6 NS3+NS5A 12 NR SOF (no NS5A) 16 AASLD/IDSA Guidelines: GT3 NS5A-experienced with compensated cirrhosis RECOMMENDED DURATION RATING 6 12 weeks I, A Reminder: HCV PIs (including VOX and GLE) are either not recommended or contraindicated in CTP B/C cirrhosis



Cliffs notes for DAA therapy

- Use hcvguidlines.org
- Check for HIV and HBV
- OK to use EBV/ GRZ and G/P in Renal disease
- Don't use protease inhibitors (previrs) in decompensated cirrhosis
- Never use amiodarone with sofosbuvir
- G/P, SOF/VEL/VOX for DAA experienced
- (almost) never need RBV or resistance testing
- HIV same as monoinfected

Take home points

- Tremendous advances in antiviral treatment of HCV have been realized in the last 5 years
- SVR >95% is attainable in all populations with 8-12 weeks of therapy
- From a treatment efficacy standpoint there are no more "special populations"
- There is a very limited role for resistance testing or the use of ribavirin
- Diagnosis, access and coverage limitations are now the most significant barriers to HCV cure

Question-and-Answer Remember to raise your hand and wait until you have the microphone before you ask your question—we are recording!