





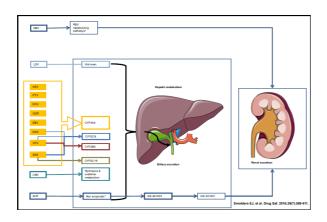
Clinical Challenges in HCV: 2 Easy Questions

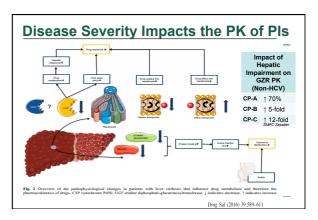
Are there any cases when treatment is unsafe?

Are there any cases when treatment efficacy is impaired?

Combination regimen	GT1	GT2	GT3	GT4	GT5-6
SOF + RBV	No	Suboptimal	Suboptimal	No	No
SOF/LDV ± RBV	Yes	No		Yes	Yes
SOF/VEL ± RBV	Yes	Yes	Yes	Yes	Yes
OBV/PTV/r + DSV (3D) ± RBV	Yes	No	No		No
OBV/PTV/r (2D) ± RBV	No	No	No	Yes	No
GZR/EBR ± RBV	Yes	No	No	Yes	No
SOF + DCV ± RBV	Yes	Yes	Yes	Yes	Yes
SOF + SIM ± RBV	Suboptimal	No	No	Yes	No

Combination regimen	GT1	GT2	GT3	GT4	GT5-6
SOF + RBV	No	Suboptimal	Suboptimal	No	No
SOF/LDV ± RBV	Yes	No	No	Yes	Yes
SOF/VEL ± RBV	Yes	Yes	Yes	Yes	Yes
OBV/PTV/r + DSV (3D) ± RBV	Yes	No	No		No
OBV/PTV/r (2D) ± RBV	No	No	No	Yes	No
GZR/EBR ± RBV	Yes	No	No	Yes	No
SOF + DCV ± RBV	Yes	Yes	Yes	Yes	Yes
SOF + SIM ± RBV	Suboptimal	No	No	Yes	No
*GLE + PIB	Yes	Yes	Yes	Yes	Yes
*SOF + VEL + VOX	Yes	Yes	Yes	Yes	Yes





FDA Warning on 3D Regimen

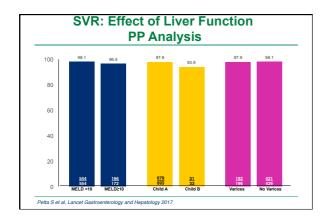
«FDA Drug Safety Communication: FDA warns of serious liver injury with hepatitis C treatments Viekira Pak and Technivie»

«The U.S. Food and Drug Administration (FDA) is warning that hepatitis C treatments with Viekira Pak and Technivie can cause serious liver injury mostly in patients with underlying advanced liver disease. As a result, we are requiring the manufacturer to add new information about the safety risk to the drug labels [...]. Some of these events resulted in liver transplantation or death. [...] at least 26 worldwide cases submitted to FAERS were considered to be possibly or probably related to Viekira Pak or Technivie. In most of the cases, liver injury occurred within 1 to 4 weeks of starting treatment. Some of the cases occurred in patients for whom these medicines were contraindicated or not recommended [...]»

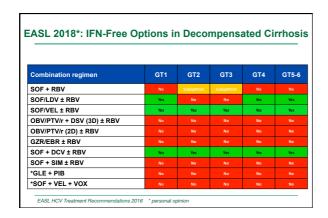
FDA Drug Safety Communication; 22 October 2015

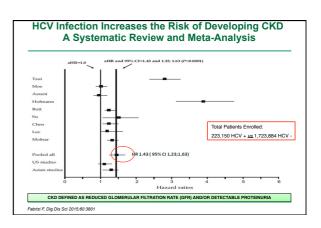
ABACUS Study Clinical features of the cirrhotic cohort

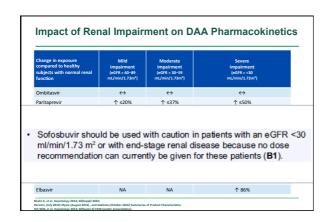
Variable	Cirrhosis N=762
Total bilirubin – mg/dl	1.1 ± 0.6
INR- %	1.0 ± 0.2
Albumin – g/dl	3.9 ± 0.4
Platelets - mmc	129 ± 74
Child Pugh B	5.1
MELD ≥10	24.3
Esophageal varices Absent/Present/Missing	58.4/27.6/14.0
Genotype 1/1a/1b/4/Unknown	2.1/19.9/75.3/2.2/0.4
HCVRNA >1,000,000 IU	52.5
Naïve to Antiviral Therapy	31

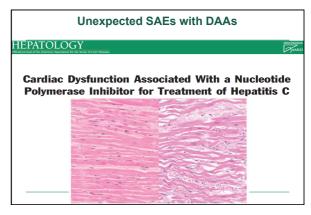


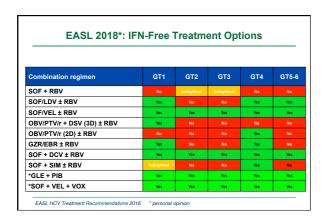
Gender	Age	Child	Meld	Varices	Ascites	PLT<10000	Albumin <3.5	Time of Death	Cause of death
Female	68	В	13	1	1	No	Si	11 week	Pneumonia-> Hepatopulmonary Syndrome
Female	58	В	11	1	1	Si	Si	3 week	Cholecystitis→sepsis→MOF
Male	46	A5	10	1	0	Si	No	8 week	Car accident
Male	61	A5	10	1	0	-	No	4 month after stop therapy	Stop therapy after 4 weeks for bradicardia→ pace-maker→ after 3 months surgical resection of HCC→ AKI→ MOF
Male	48	A5	8	1	0	Si	No	14 week	Sudden death of unknown etiology
Female	66	A5	6	0	0	Si	No	FU week 4	Progression of lymphoma



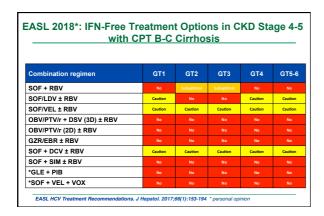


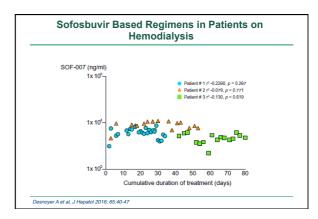


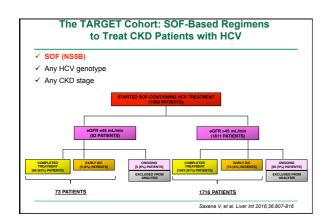


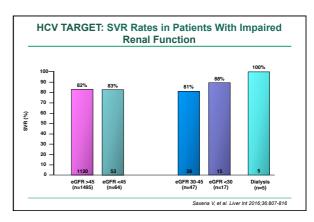


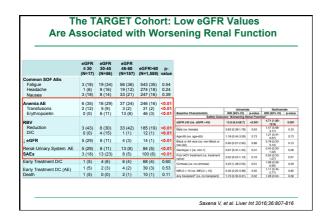
Combination regimen	GT1	GT2	GT3	GT4	GT5-6
SOF + RBV	No	Suboptimal	Suboptimal	No	No
SOF/LDV ± RBV	Caution	No		Caution	Caution
SOF/VEL ± RBV	Caution	Caution	Caution	Caution	Caution
OBV/PTV/r + DSV (3D) ± RBV	Yes	No	No		No
OBV/PTV/r (2D) ± RBV	No	No	No	Yes	No
GZR/EBR ± RBV	Yes	No	No	Yes	No
SOF + DCV ± RBV	Caution	Caution	Caution	Caution	Caution
SOF + SIM ± RBV	Suboptimal			Caution	No
*GLE + PIB	Yes	Yes	Yes	Yes	Yes
*SOF + VEL + VOX	Caution	Caution	Caution	Caution	Caution

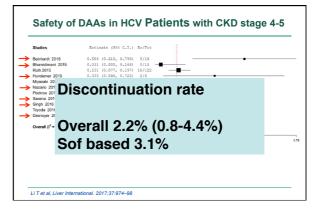


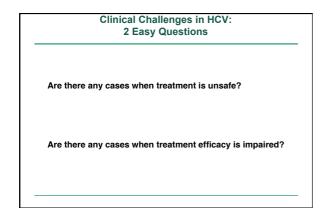




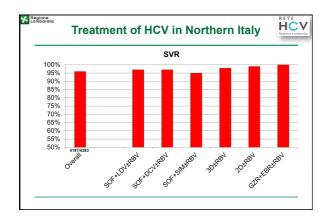


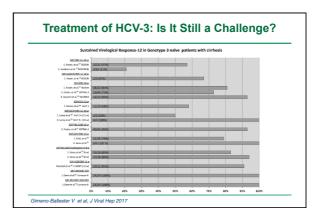


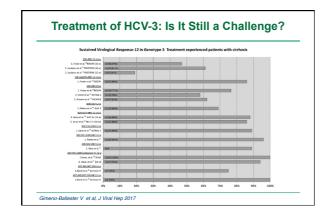


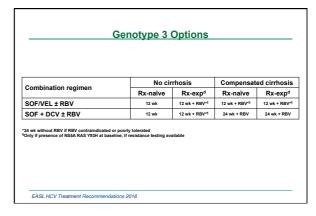


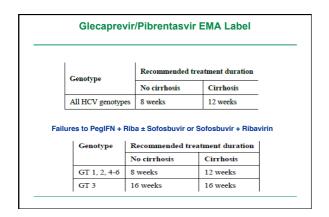












Patient population	Treatment duration
DAA naïve patients without cirrhosis	8 weeks
	12 weeks
DAA naïve patients with compensated cirrhosis	8 weeks may be considered in genotype 3 infected patients (see section 5.1)
DAA experienced patients* without cirrhosis or with compensated cirrhosis	12 weeks

