HEPATITIS C VIRUS TREATMENTS (Part 1 of 2)

- Characteristics of Persons for Whom Therapy is Widely Accepted: Age ≥18yrs; Hepatitis C Virus (HCV)-RNA serum positive

interferon alfa-2b +

peginterferon alfa-2b :

ribavirin

+ ribavirin

+ ribavirin

simeprevir

sofosbuvir

boceprevir

ombitasvir/

ritonavir +

ombitasvir/

paritaprevir/

+/- ribavirin

ritonavir +

dasabuvir

ribavirin

paritaprevir/

Intron A +

Pegasys² + Copegus³

PegIntron² +

TRIPLE THERAPY Olysio^{4,6} +

peginterferon alfa

& ribavirin

Sovaldi +

& ribavirin

Victrelis4 +

& ribavirin

Technivie⁷ +

Viekira Pak⁸

+/- ribavirin

ribavirin

peginterferon alfa

COMBINATION THERAPY

peginterferon alfa

Rebetol³

Rebetol³

| 1500/mm ³ and | serum creatinine <1. | 5mg/dL | | - | · |
|--------------------------|----------------------|----------------------|------|---|---|
| Brand | Generic | Usual Initial Dosage | | | |
| DUAL THERAP | Y | | | | |
| | | | 1.00 | | |

| 1500/IIIII and Serdin Cleatinine < 1.5ing/dc | | | | | |
|--|---------------|---|--|--|--|
| Brand | Generic | Usual Initial Dosage | | | |
| DUAL THERAPY | | | | | |
| Daklinza1 + | daclatasvir + | Adults: ≥18yrs: 60mg once daily + Sovaldi 400mg once daily for 12wks. | | | |

Sovaldi sofosbuvir

Concomitant CYP3A substrates: Adjust Daklinza dose to 30mg once daily (strong inhibitors) or 90mg once daily (moderate inducers). Children: <18yrs: Not established.

peginterferon alfa-2a : Adults: ≥18yrs: Genotype 1,4: 180mcg SC once weekly + Copegus 1000mg

48wks (genotype 1) or 24wks (genotype 2, 3).

time of liver transplant, whichever occurs first. Children: <18vrs: Not established.

Children: <18yrs: Not established.

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Children: <18yrs: Not established.

(<75kg) or 1200mg (≥75kg) in 2 divided doses for 48wks.

Retreatment: 24wks.

(simeprevir + sofosbuvir). Children: <18yrs: Not established.

continue for 44wks.

for 12wks.

Adults: ≥18yrs: 3million IU SC three times weekly + Rebetol 1000mg (≤75kg) or

Children: ≥3yrs: 25–61kg: 3million IU/m² SC three times weekly + Rebetol 15mg/ kg/day in 2 divided doses for 48wks (genotype 1) or 24wks (genotype 2,3).

Genotype 2,3: 180mcg SC once weekly + Copegus 800mg in 2 divided doses for 24wks. Children: ≥5yrs: 180mcg/1.73m² × BSA SC once weekly + Copegus 15mg/kg/day divided in AM & PM for 48wks (genotype 1,4) or 24wks (genotype 2,3); see full labeling.

Adults: ≥18yrs: 1.5mcg/kg/wk SC + Rebetol 800mg (<66kg) or 1000mg (66–80kg)

or 1200mg (81–105kg) or 1400mg (>105kg) in 2 divided doses for 48wks (genotype 1) or 24wks (genotype 2,3). Retreatment: 48wks. Prior treatment failure: Add HCV NS3/4A Protease Inhibitor (unless contraindicated); treat for 48wks. Children: 3-17yrs: 60mcg/m²/wk SC + Rebetol 15mg/kg/day in 2 divided doses for

Adults: Take with food. 150mg once daily. Treatment-naive and prior relapsers,

including patients with or without cirrhosis: treat for 12wks (simeprevir + peginter-

feron + ribavirin), followed by additional 12wks of peginterferon + ribavirin (total treatment = 24wks). Prior non-responders (partial and null), including patients with or without cirrhosis: treat for 12wks (simeprevir + peginterferon + ribavirin), followed by additional 36wks of peginterferon + ribavirin (total treatment = 48wks). Treatment-naive or treatment-experienced without cirrhosis: treat for 12wks (simeprevir + sofosbuvir). Treatment-naive or treatment-experienced with cirrhosis: treat for 24wks

Adults: 400mg once daily. Genotype 1: treat for 12wks with PegIFN alfa + RBV or

24wks with RBV if interferon-based regimen ineligible. Genotype 2: treat for 12wks

with RBV. Genotype 3: treat for 24wks with RBV. Genotype 4: treat for 12wks with PegIFN alfa + RBV. Hepatocellular carcinoma: treat up to 48wks with RBV or until

Adults: Initiate peginterferon alfa + ribavirin for 4wks. Then add 800mg Victrelis

indicated by HCV-RNA levels at Weeks 8, 12, and 24 (see literature). With cirrhosis:

Adults: Take with food. ≥18yrs: 2 tabs once daily in the AM for 12wks with ribavirin.

Treatment-naive (or ribavirin intolerant): may consider administering without ribavirin

Adults: Take with food. Give 2 ombitasvir/paritaprevir/ritonavir tabs once daily (in

AM) and 1 dasabuvir tab twice daily (AM & PM). Genotype 1a without cirrhosis or

treat for 24wks with ribavirin (12wks may be considered for some). Genotype 1b

for 24wks with ribavirin In combination with ribavirin: see full labeling.

genotype 1b with cirrhosis: treat for 12wks with ribavirin. Genotype 1a with cirrhosis:

without cirrhosis: treat for 12wks. Liver transplant recipients (with mild fibrosis): treat

(continued)

three times daily to therapy. Patients without cirrhosis: continue treatment as

1200mg (>75kg) in 2 divided doses for 48wks (genotype 1) or 24wks (genotype 2,3);

| evidence of hepatic decompensation (hepatic encep | | |
|---|--|--|
| | | |
| | | |
| | | |
| Acceptable hematological and biochemical indices: H | | |
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| | | |
| | | |

Compensated liver disease (total serum bilirubin <1.5g/dL: INR 1.5: serum albumin >3.4: platelet count 75.000mm; and no

| MONOTHERAF | • | |
|--------------------------|-----------------------|---|
| | | Adults: 3 million IU SC or IM three times weekly for 16wks; if tolerated with normalization of ALT: continue 18–24mos (72–96wks). Children: Monotherapy not recommended. |
| Harvoni | | Adults: 1 tab once daily. Treatment-naive without cirrhosis with pre-treatment HCV RNA <6 million IU/mL: treat for 8wks. Treatment-naive with or without cirrhosis, or treatment-experienced without cirrhosis: treat for 12wks. Treatment-experienced with cirrhosis: treat for 24wks. Children: <18yrs: Not established. |
| Pegasys ^{2,5} | peginterferon alfa-2a | Adults: 180mcg SC once weekly for 48wks. Children: Not recommended. |
| PegIntron ^{2,5} | peginterferon alfa-2b | Adults: 1mcg/kg/wk SC for 1yr administered on same day of the week. Children: Not recommended. |
| NOTES | | |

HEPATITIS C VIRUS TREATMENTS (Part 2 of 2)

Usual Initial Dosage

Patients who fail to achieve a 2 log₁₀ drop at 12 weeks or undetectable HCV-RNA at Week 24 are highly unlikely to achieve SVR and

Kev: SVR = sustained virologic response

Brand

MONOTHERAPY

Generic

discontinuation of therapy should be considered. 3Ribavirin should be taken orally with food. Do not use with creatinine clearance < 50mL/min. Take in 2 divided doses (AM & PM): see literature.

¹Indicated for the treatment of chronic hepatitis C genotype 3 infection in combination with sofosbuvir only.

⁴Indicated for the treatment of chronic hepatitis C genotype 1 infection for combination therapy only.

reductions, please see drug monograph at www.eMPR.com and/or contact company for full drug labeling.

⁵Drug is not recommended as monotherapy unless patient cannot take ribavirin as combination treatment. 6Screen for HCV genotype 1a infection for NS3Q80K polymorphism prior to treatment initiation; consider alternative if Q80K polymorphism present. ⁷indicated for the treatment of chronic hepatitis C genotype 4 infection without cirrhosis. Contraindicated in severe hepatic impairment and

avoid in moderate hepatic impairment. ⁸Indicated for the treatment of chronic hepatitis C genotype 1 infection including those with compensated cirrhosis, with or without ribavirin. Contraindicated in severe hepatic impairment and avoid in decompensated liver disease. Dose modifications: Not an inclusive list of medications, official indications and/or dosing details. For dose adjustments or

REFERENCES

Ghany MG, Strader DB, Thomas DL, Seeff LB. Diagnosis, Management, and Treatment of Hepatitis C: An Update. Hepatology. 2009; 49(4).