Treatment Experienced

Telaprevir in Treatment Experienced GT-1 REALIZE (Study 216)

Zeuzem S, et al. N Engl J Med. 2011;364:2417-28.



Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE Study: Study Design

REALIZE: Study Features

- Phase 3 trial
- Randomized, double-blind, placebo-controlled
- Eligible if 18 to 70 years of age
- All with genotype 1 chronic HCV infection
- Lack of SVR with prior peginterferon + ribavirin treatment
- N = 663 enrolled
- Setting: 100 international sites (most in Europe and US)
- Randomized to one of 3 arms (2:2:1 ratio)

Drug Dosing

Telaprevir = 750 mg q8h

Peginterferon alfa-2a = 180 µg weekly

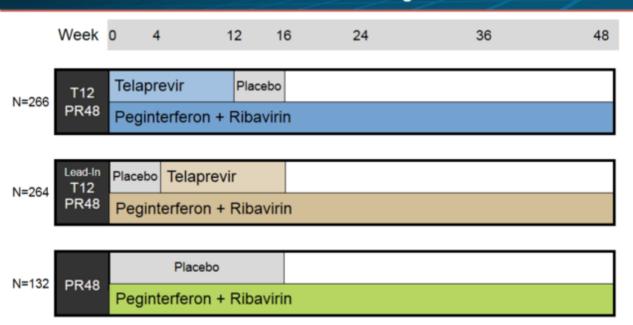
Ribavirin = 1000 mg/day for wt < 75 kg; 1200 mg/day for wt ≥ 75 kg



Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE Study: Definitions for Prior Response

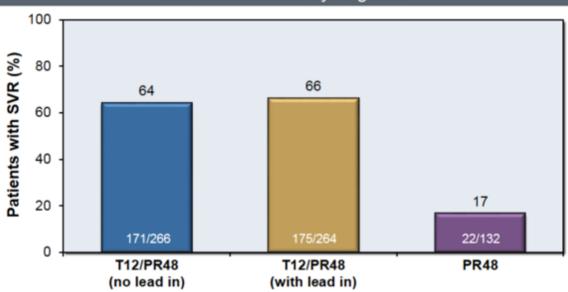
- No Response: Reduction of less than 2 log₁₀ in HCV RNA after 12 weeks of therapy
- Partial Response: Reduction of 2 log₁₀ or more in HCV RNA after 12 weeks of therapy, but with detectable HCV RNA
- Relapse: undetectable HCV RNA at the end of a previous course of therapy but HCV RNA positivity thereafter

Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE: Treatment Regimens



Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE Study: Results

REALIZE: SVR24 by Regimen

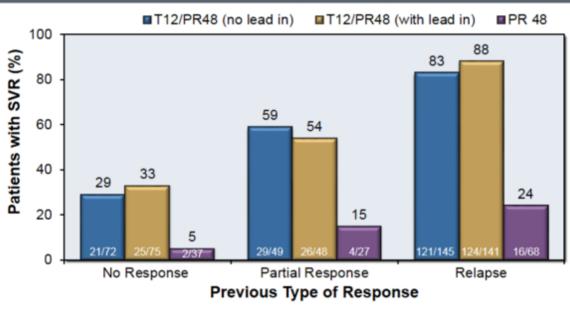


SVR = Sustained Virologic Response; T = Telaprevir; PR = Peginterferon + Ribavirin



Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE: Results Based on Prior History

REALIZE: SVR24 by Prior Response

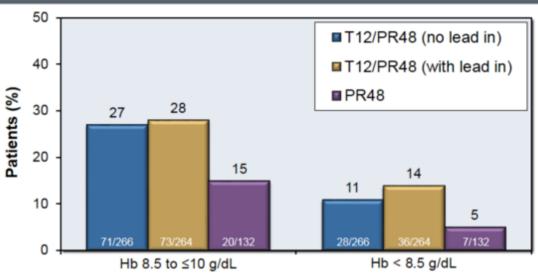


SVR = Sustained Virologic Response; T = Telaprevir; PR = Peginterferon + Ribavirin



Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE: Adverse Effects

REALIZE: Anemia



Hemoglobin (Hb) Nadir Through Week 12

T = Telaprevir; P = Peginterferon + Ribavirin



Telaprevir for Treatment-Experienced HCV Genotype 1 REALIZE Study: Conclusions

Conclusions: "Telaprevir combined with peginterferon plus ribavirin significantly improved rates of sustained virologic response in patients with previously treated HCV infection, regardless of whether there was a lead-in phase."