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Hepatology Education Providers*

HCV: Highlights From EASL 2013

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HCV: Highlights From EASL 2013

- Current treatments
- Upcoming treatments
- Future regimens



SVR12 Rates and Safety of Triple Therapy Including Telaprevir or Boceprevir in 221 Cirrhotic Non Responders Treated in The French Early Access Program (ANRS CO20-CUPIC)

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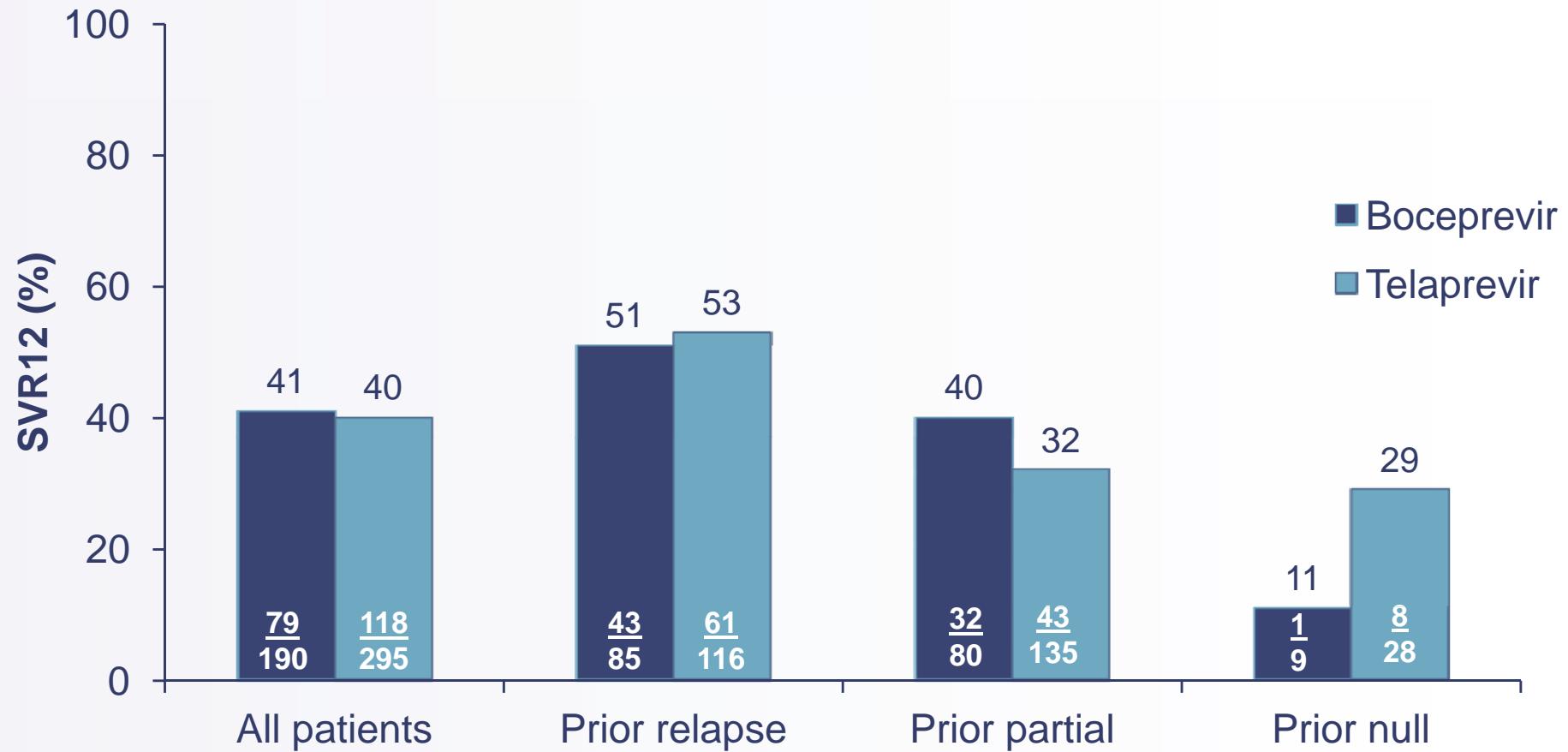
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CUPIC: French early access program

- EASL 2012 report: increased SAEs and deaths
- Design: cohort study
 - Selection of boceprevir or telaprevir made by the clinician
- Patients
 - Genotype 1
 - Patients with compensated cirrhosis
 - Approximately 1/3 would not have qualified for phase 3 trials
 - Prior relapse and partial response
- Regimens
 - Standard protocols for boceprevir (lead-in) and telaprevir
 - 48 weeks for all patients

CUPIC SVR12 Results





CUPIC: French early access program

– Predictors of response

- Prior relapse > prior partial/null response
- Genotype 1b > 1a

CUPIC: Safety Findings

Patients, n (% patients with at least one event)	Telaprevir n=295	Boceprevir n=190
Serious adverse events (SAEs)	535 in 160 patients (54.2%)	321 in 97 patients (51.0%)
Premature discontinuation / Due to SAEs	139 (47.1%) / 63 (21.3%)	80 (42.1%) / 27 (14.2%)
Death	7 (2.4%)	3 (1.6%)
Infection (Grade 3/4)	27 (9.1%)	8 (4.2%)
Hepatic decompensation (Grade 3/4)	15 (5.1%)	9 (4.7%)
Anemia (Grade 3/4 : Hb < 8 g/dL)	38 (12.9%)	19 (10%)
Rash (Grade 3/SCAR)	16 (5.4%) / 2 (0.6%)	2 (1.0%) / 0
EPO use / Blood transfusion	168 (57%) / 53 (18%)	119 (62.6%) / 26 (13.7%)
GCSF use	8 (2.7%)	13 (6.8%)
TPO use	6 (2%)	3 (1.6%)

SCAR: severe cutaneous adverse reaction



CUPIC: French early access program

- Large “real life” cohort of patients with cirrhosis
- SVR₁₂ rate comparable to subgroup of patients with severe fibrosis or cirrhosis of phase III studies
- Increased risk of serious adverse events, particularly severe infections and anemia



Safety of Triple Therapy With Telaprevir or Boceprevir in Hepatitis C Patients With Advanced Liver Disease - Predictive Factors For Sepsis

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Predictive factors for sepsis

- 110 genotype 1 patients
- Boceprevir or telaprevir regimen x 48 weeks
- Serious adverse events: 22 (20%)
 - Severe infections: 11
- Predictors of severe infection
 - Platelet count < 100,000/L: 13.4% vs. 8.7%, P< 0.05
 - Serum albumin < 3.5g/dL: 55.6% vs. 5.4%, P< 0.05
 - Hepatovenous pressure gradient (HVPG) measurement
 - available in 27 patients with cirrhosis
 - HVPG \geq 10 mm Hg: 6/18 infections
 - HVPG < 10 mm Hg: 0/9 infections



High SVR Rates (SVR4) For 12-week Total Telaprevir Combination Therapy In IL28b CC Treatment-Naïves And Prior Relapsers With G1 Chronic Hepatitis C: CONCISE Interim Analysis

D.R. Nelson¹*, F. Poordad², J.J. Feld³, M.W. Fried⁴, I.M. Jacobson⁵, P.J. Pockros⁶, M.S. Sulkowski⁷, S. Zeuzem⁸, L. Bengtsson⁹, S. George⁹, M.I. Friedman⁹, on behalf of the CONCISE Study Team

¹University of Florida College of Medicine, Gainesville, FL, ²University of Texas Health Science Center, San Antonio, TX, USA, ³Toronto Western Hospital Liver Center, Toronto, ON, Canada, ⁴University of North Carolina School of Medicine, Chapel Hill, NC, ⁵Weill Cornell Medical College, New York, NY, ⁶Scripps Clinic, La Jolla, CA, ⁷Johns Hopkins University School of Medicine, Baltimore, MD, USA, ⁸Johann Wolfgang Goethe University Hospital, Frankfurt/Main, Germany, ⁹Vertex Pharmaceuticals Incorporated, Cambridge, MA, USA.

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CONCISE

– Patients

- IL28B CC (favorable genotype)
- Treatment-naïve or prior relapse
- No cirrhosis

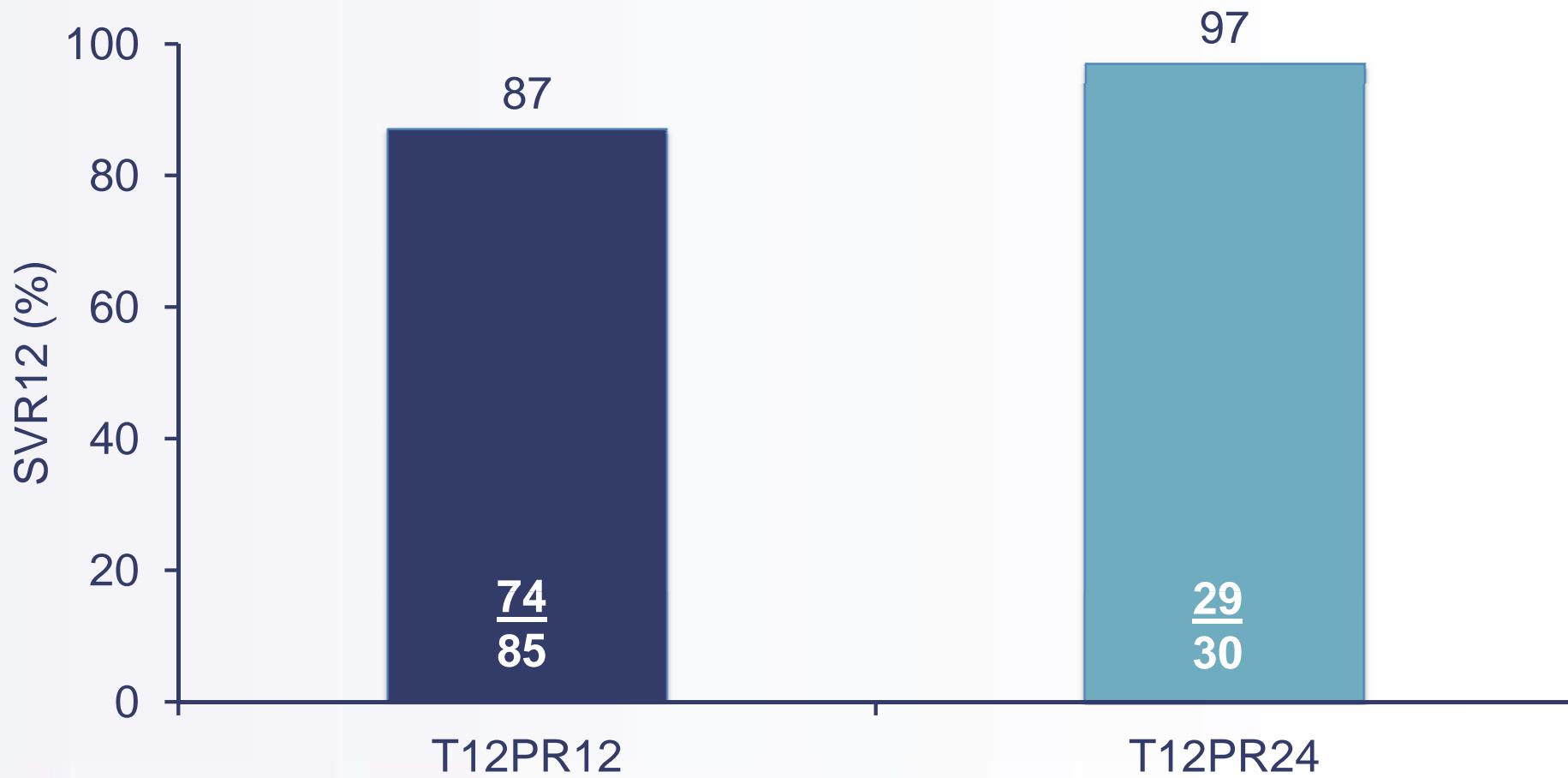
– Treatment

- Peginterferon alfa-2a 180 mcg subcu weekly
- Ribavirin 1000/1200 mg daily
- Telaprevir 1125 mg bid

– Regimen

- Patients with RVR were randomized 2:1 at week 12
 - T12/PR12
 - T12/PR24

CONCISE Interim SVR12





CONCISE

— Conclusion

- High SVR rates from the CONCISE study interim analysis suggest the potential for the defined IL28B CC patients with RVR to shorten duration of telaprevir plus peginterferon/ribavirin to 12 weeks



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Phase 3 Randomized Controlled Trial Of All-Oral Treatment With Sofosbuvir+Ribavirin For 12 Weeks Compared To 24 Weeks Of PEG+Ribavirin In Treatment-Naïve GT2/3 HCV-Infected Patients (FISSION)

E. Gane¹, E. Lawitz², M. Rodriguez-Torres³, S. Gordon⁴, H. Dvory-Sobol⁵, S. Arterburn⁵, J. McNally⁵, D.M. Brainard⁵, W.T. Symonds⁵, J.G. McHutchison⁵, A. Sheikh⁶, A. Mangia⁷*

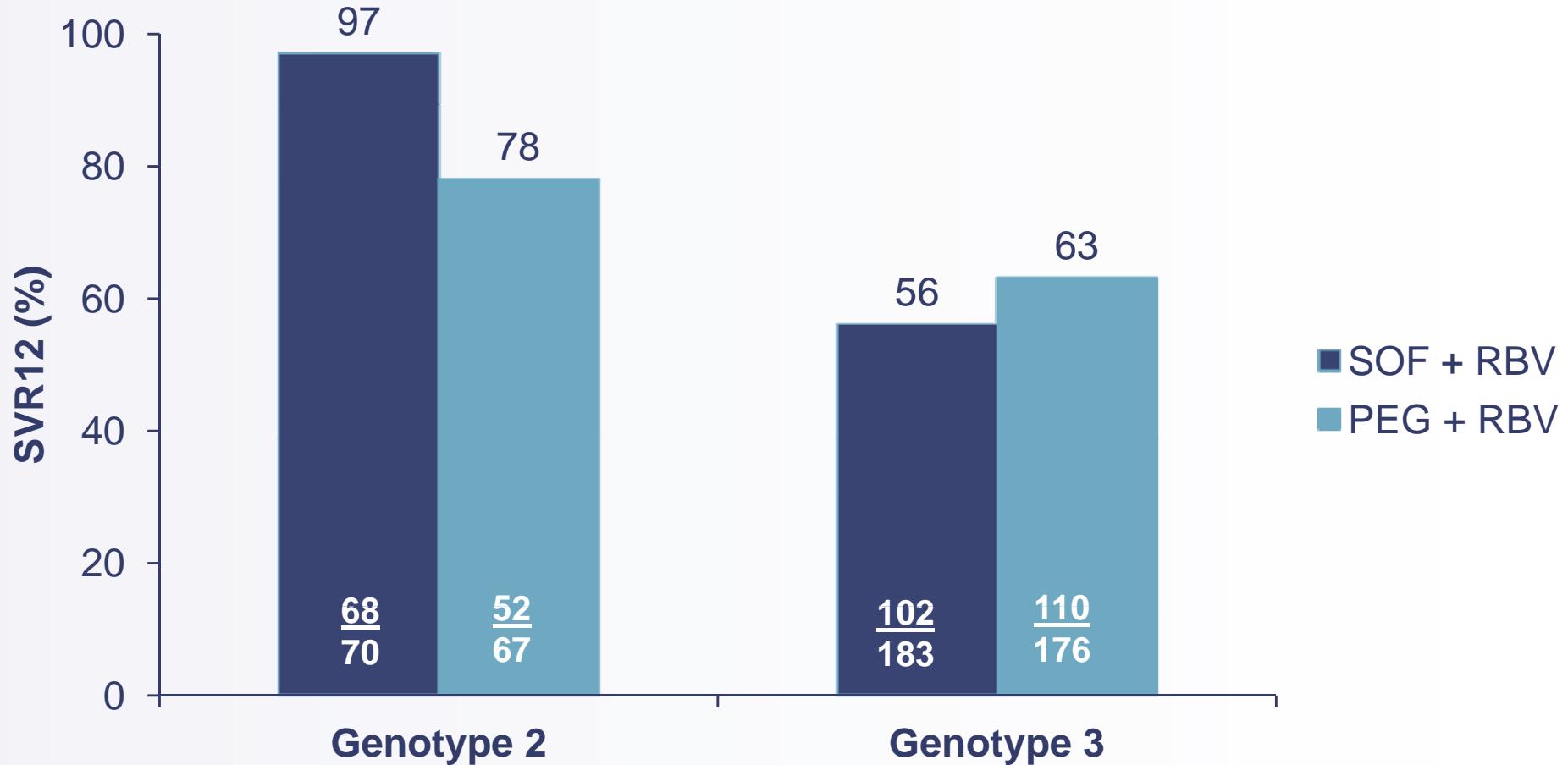
¹Auckland City Hospital, Auckland, New Zealand, ²Alamo Medical Research, San Antonio, TX, USA, ³Fundacion De Investigacion De Diego, San Juan, Puerto Rico, ⁴Henry Ford Health System, Detroit, MI, ⁵Gilead Sciences, Foster City, CA, ⁶Gastrointestinal Specialists of Georgia, Marietta, GA, USA, ⁷Casa Sollievo della Sofferenza, San Giovanni Rotondo, Italy.

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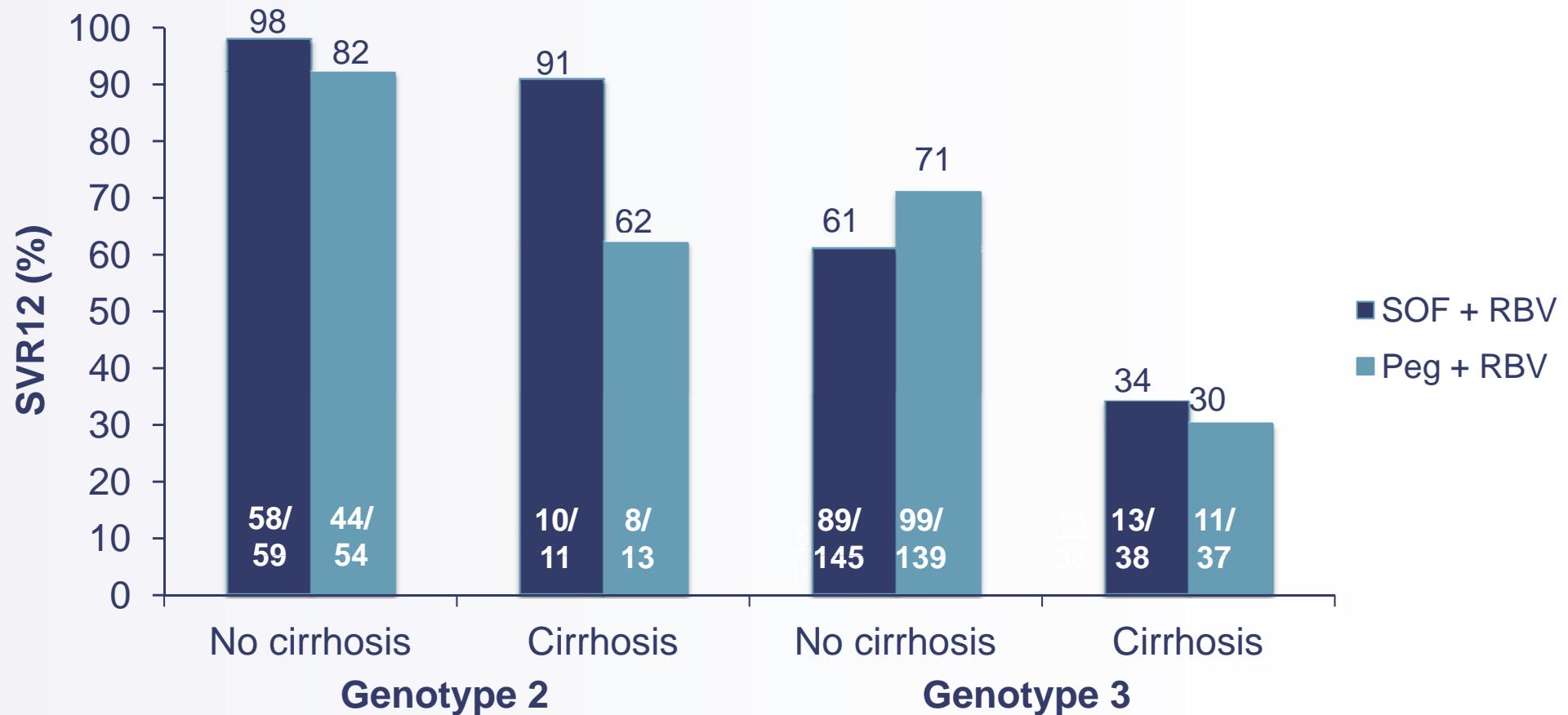
FISSION

- Phase 3 study
- Sofosbuvir (GS-7977): nucleoside polymerase inhibitor
 - Favorable administration profile
 - Once daily, no food effect
 - No drug-drug interactions
- Patients
 - Genotype 2/3 treatment naive
 - 20% cirrhosis
- Regimen
 - Sofosbuvir 400 mg qd + ribavirin 1000/1200 mg for 12 weeks
 - Peginterferon alfa-2a 180 mcg + ribavirin 800 mg for 24 weeks

FISSION: SVR12 by genotype



FISSION: SVR12 by genotype and cirrhosis/no cirrhosis



FISSION

— Sequencing

- 79 SOF + RBV patients who did not achieve SVR12
- No resistance associated variants (S282T)

— Safety summary

	SOF + RBV	PEG + RBV
Grade 3-4 Adverse events	7%	19%
Serious adverse events	3%	1%
D/C due to adverse events	1%	11%
Hemoglobin <10 gm/dL	9%	15%
Neutrophils <750/mm ³	0%	15%
Platelets <50,000/mm ³	0%	7%

FISSION

– Conclusions

- SOF + RBV (12 weeks) led to excellent results (SVR12 > 90%) in genotype 2 patients with and without cirrhosis
- SOF + RBV (12 weeks) led to similar results as PEG + RBV (24 weeks) for genotype 3 patients
 - Lowest rates observed in patients with cirrhosis
 - Strategies to improve genotype 3 results are needed
- SOF + RBV well tolerated with fewer adverse events than PEG + RBV



Sofosbuvir + Peginterferon + Ribavirin For 12 Weeks Achieves 90% SVR12 In Genotype 1, 4, 5, Or 6 HCV Infected Patients: The NEUTRINO Study

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¹Alamo Medical Research, San Antonio, TX, ²University of California, San Diego, San Diego, CA, ³DigestiveCARE-South Florida Center of Gastroenterology, Wellington, FL, USA, ⁴Fundación de Investigación, San Juan, Puerto Rico, ⁵University of Pennsylvania School of Medicine, Philadelphia, PA, ⁶Digestive Diseases Unit, Virginia Mason Medical Center, Seattle, WA, ⁷Gilead Sciences, Inc., Foster City, ⁸Kaiser Permanente, San Diego, CA, ⁹Inova Fairfax Hospital, Falls Church, VA, USA.

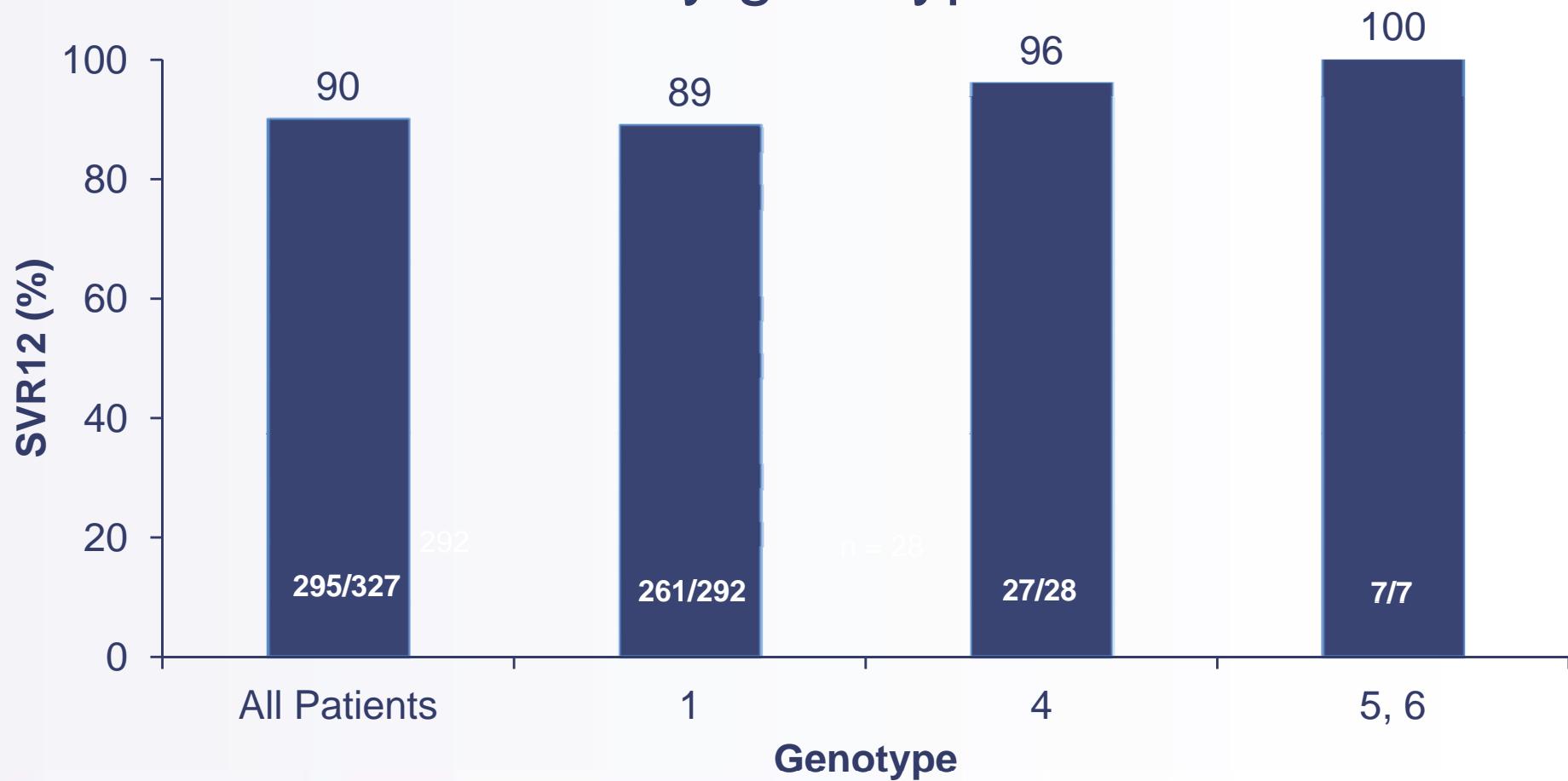
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NEUTRINO

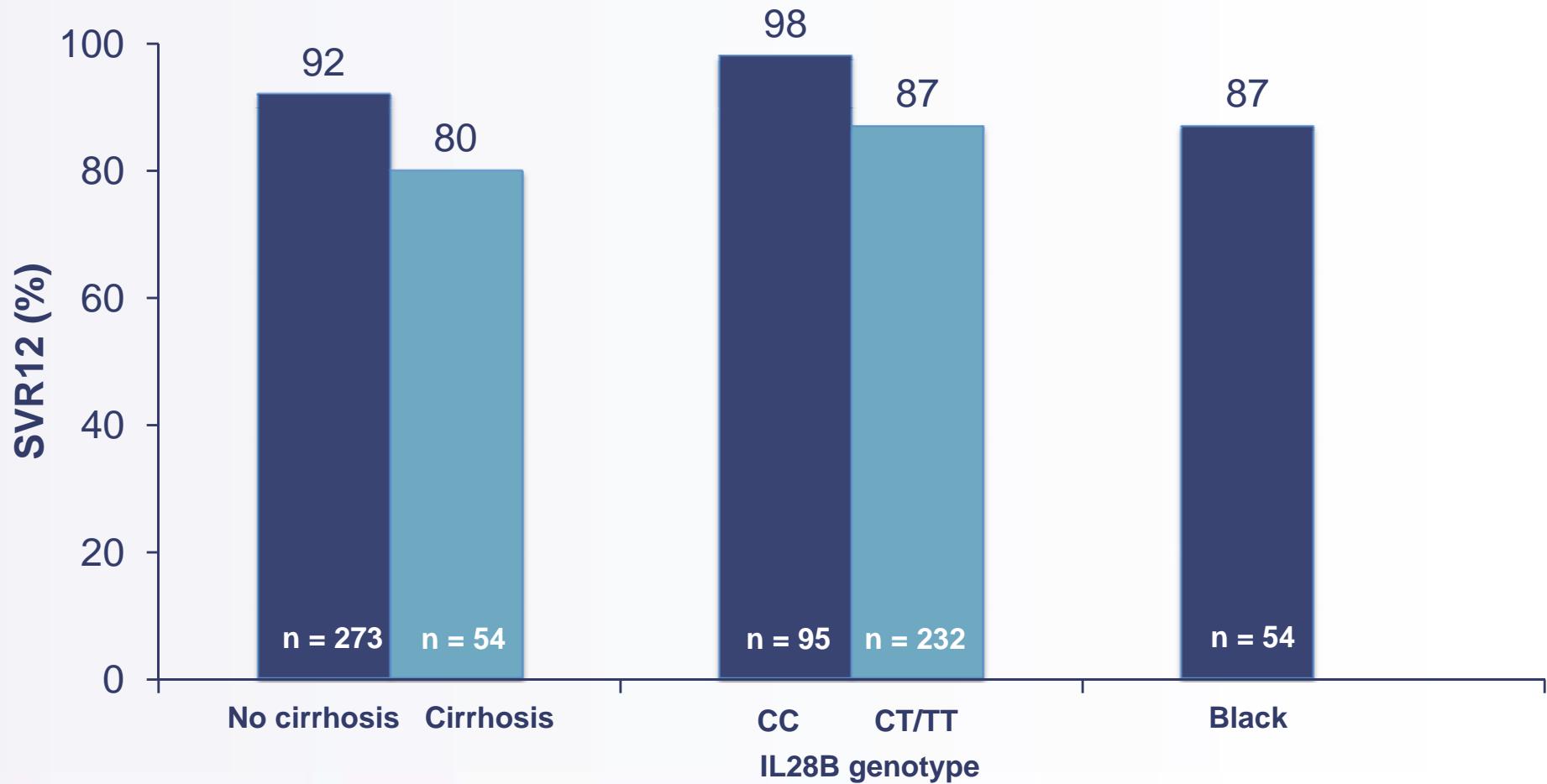
- Sofosbuvir (GS-7977)
- Patients
 - Genotypes 1, 4, 5, 6 treatment naive
 - 17% compensated cirrhosis
 - 17% black
 - 29% IL28B genotype CC
- Regimen for all patients
 - Sofosbuvir 400 mg qd
 - Ribavirin 1000/1200 mg
 - Peginterferon alfa-2a 180 mcg weekly
- Duration: 12 weeks

NEUTRINO: SVR12 by genotype



E. Lawitz et al, Abstract 1411. EASL, April 2013; Lawitz et al., N Engl J Med 2013. DOI: 10.1056/NEJMoa1214853

NEUTRINO: SVR12 rates by subgroups



E. Lawitz et al, Abstract 1411. EASL, April 2013; Lawitz et al., N Engl J Med 2013. DOI: 10.1056/NEJMoa1214853



Conclusions

- 12 weeks of treatment with SOF + PEG-IFN + RBV achieved 90% SVR12 in treatment naïve patients with HCV genotype 1, 4, 5, or 6
- 99% of patients had HCV RNA < LLOQ by treatment week 4 and relapse accounted for all virologic failures
- This regimen was well tolerated



Simeprevir (TMC435) with peginterferon/ribavirin for chronic HCV genotype-1 infection in treatment naïve patients: results from QUEST-1, a phase III trial

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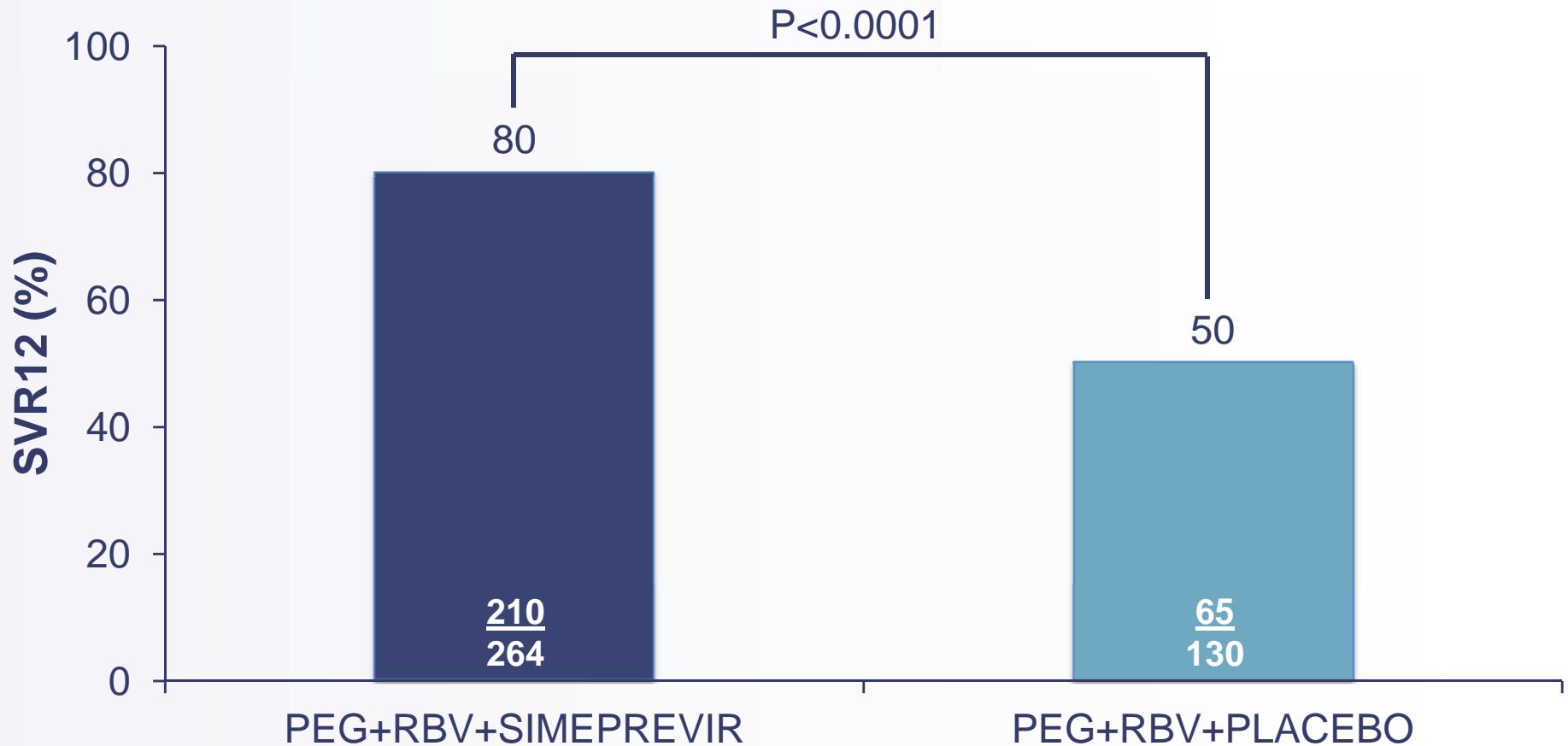
¹Weill Cornell Medical College, New York, NY, USA, ²Kirby Institute, University of New South Wales, Sydney, NSW, Australia, ³Queen Mary University of London, Barts Health, London, UK, ⁴University of North Carolina at Chapel Hill, Chapel Hill, NC, USA, ⁵Institutul de Boli infectioase, Bucharest, Romania, ⁶Smolensk Regional Clinical Hospital, Smolensk Oblast, Russia, ⁷Vinnytsia National Medical University, Vinnytsia, Ukraine, ⁸Azienda Ospedaliera Universitaria Policlinico Paolo Giaccone, Palermo, Italy, ⁹Janssen Infectious Diseases BVBA, ¹⁰Janssen Research & Development, Beerse, Belgium, ¹¹Janssen Global Services, LLC, Titusville, NJ, USA.

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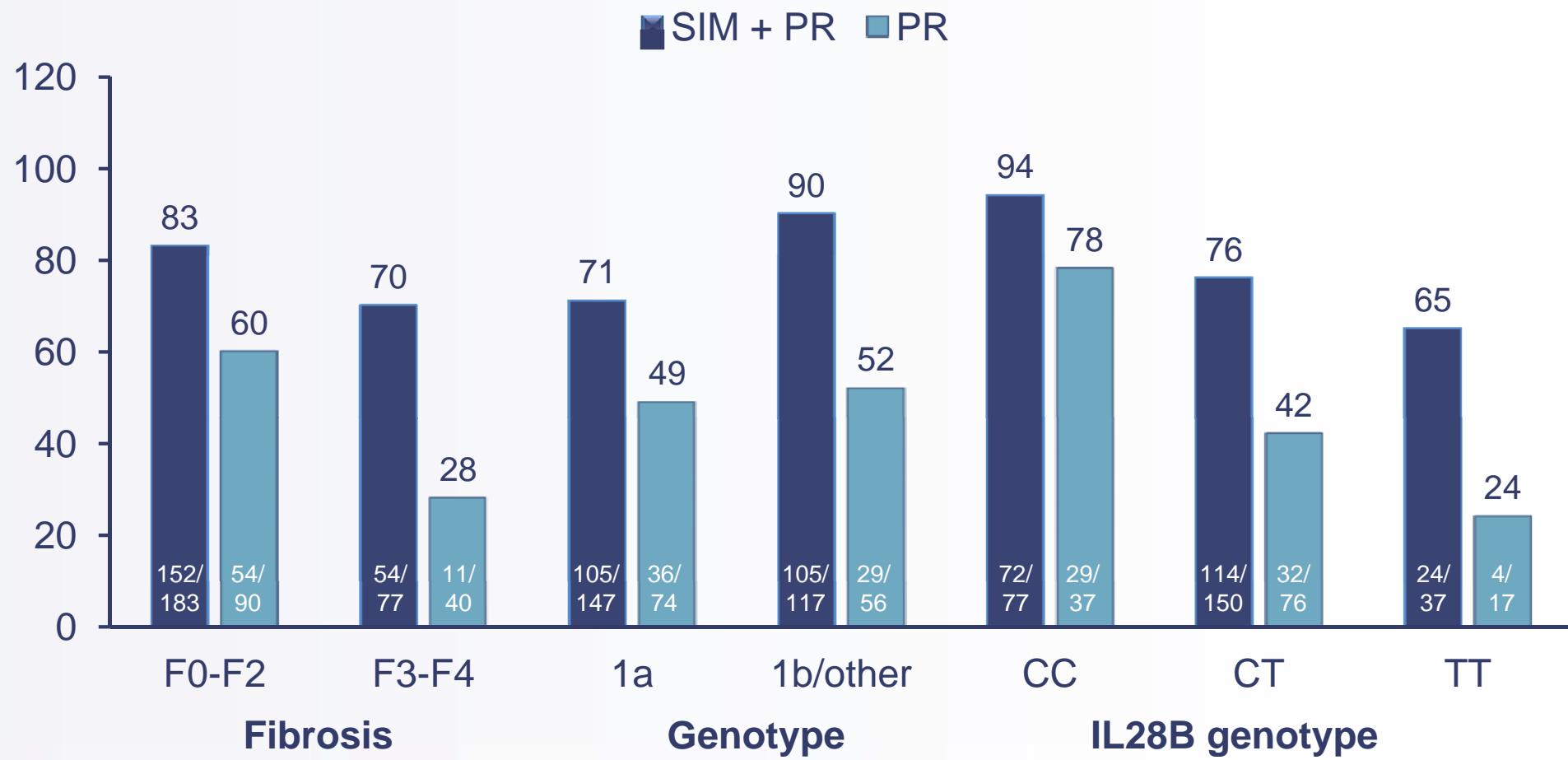
QUEST-1

- Simeprevir: potent, once-daily, oral HCV NS3/4A protease inhibitor
- Phase III, randomized, double-blind, placebo-controlled trial
- Patients
 - Treatment naïve genotype 1 infection
- Regimen
 - PEG + RBV + simeprevir 150 mg qd
 - PEG + RBV + placebo
- Algorithm
 - Simeprevir for first 12 weeks
 - Response guided therapy
 - RVR: PEG/RBV x 24 weeks
 - No RVR: PEG/RBV x 48 weeks

QUEST-1: SVR12 rates



QUEST-1: SVR12 rates in subgroups





QUEST-1 Conclusions

- Simeprevir 150 mg + PEG/RBV was highly effective against HCV genotype 1 treatment naïve patients with SVR12 (80%)
- Most patients (85%) receiving simeprevir were able to shorten therapy to 24 weeks
- Simeprevir 150 mg + PEG/RBV was generally well tolerated
 - Rates of anemia and rash were similar in the simeprevir and placebo groups



Faldaprevir Plus Pegylated Interferon Alfa-2a and Ribavirin In Chronic HCV Genotype-1 Treatment-Naïve Patients: Final Results From STARTVerso1, A Randomised, Double-blind, Placebo-controlled Phase III Trial

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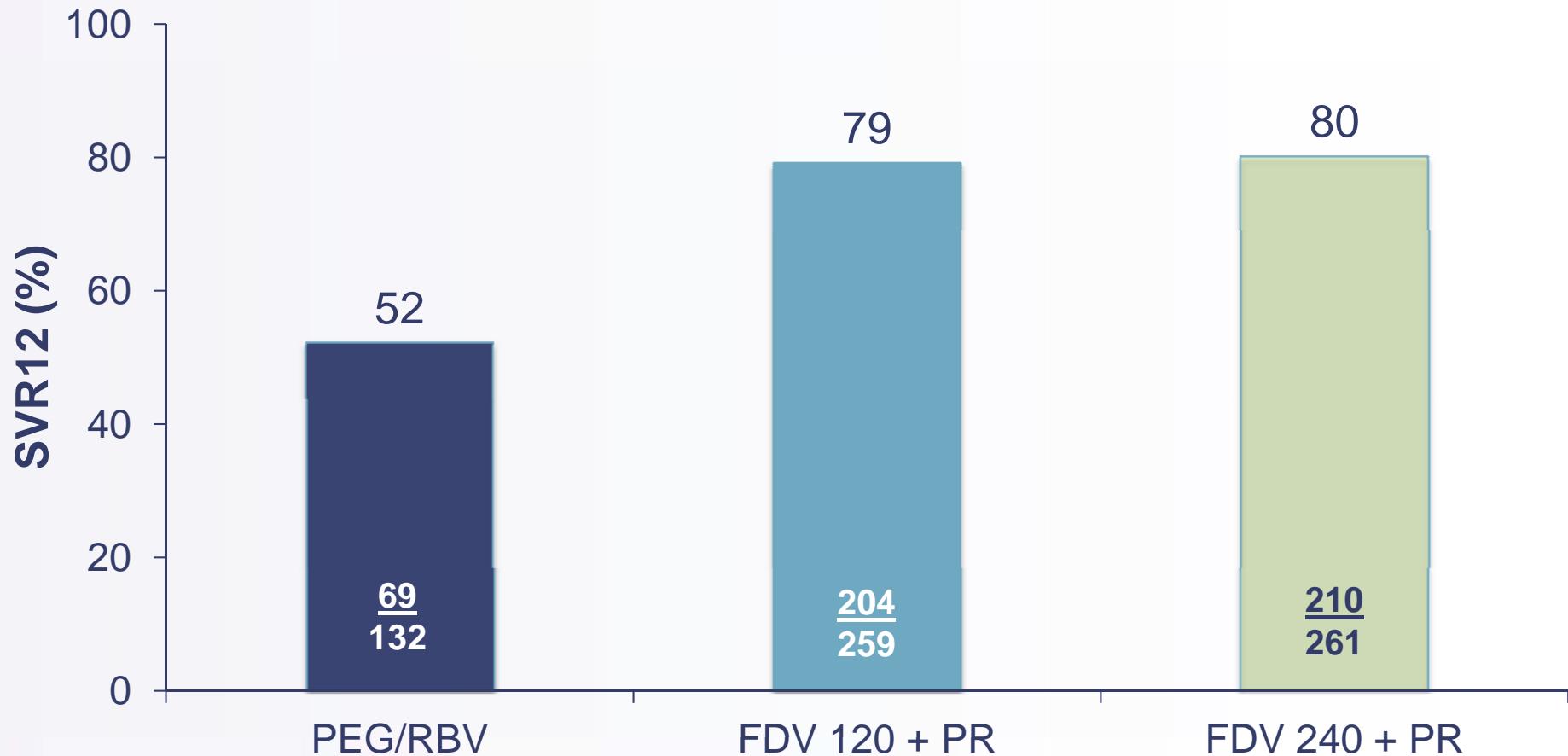
¹⁶Schwerpunktpraxis Hepatologie, Dortmund, Germany, ¹⁷Hyogo College Of Medicine, Hyogo, ¹⁸Yamanashi Central and Kita Hospitals, Yamanashi, Japan, ¹⁹Boehringer Ingelheim Pharmaceuticals Inc, Ridgefield, CT, USA, ²⁰Boehringer Ingelheim Pharmaceuticals GmbH & Co KG, Biberach, Germany.

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STARTVerso1

- Faldaprevir (FDV) is a once-daily NS3/4A protease inhibitor
- Phase III, randomized, double-blind, placebo-controlled trial
- Patients
 - Treatment naïve genotype 1 infection
 - 78% Caucasian, 20% Asian
 - 39% IL28B CC
 - 66% genotype 1b
- Regimen
 - PEG + RBV for 24 weeks plus
 - Placebo for 24 weeks
 - Faldaprevir 120 mg qd
 - Faldaprevir 240 mg qd
 - Patients with early treatment success (ETS, HCV RNA < 25IU/mL at Week 4 and undetectable at Week 8) in Arms 2 and 3 stopped all treatment at Week 24
 - Patients without ETS and those in Arm 1 received PegIFN/RBV for 48 weeks.

STARTVerso1 SVR12 rates





STARTVerso1 Conclusions

- FDV plus PegIFN/RBV significantly increased SVR12 rates in HCV GT-1 patients in Europe and Japan compared with PegIFN/RBV
- In total, 88% of patients treated with FDV were eligible to stop all treatment at Week 24
- FDV plus PegIFN/RBV was well tolerated



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Safety and Efficacy of Interferon-free Regimens of ABT-450/R, ABT-267, ABT-333 +/- Ribavirin In Patients With Chronic HCV GT1 Infection: Results From The AVIATOR Study

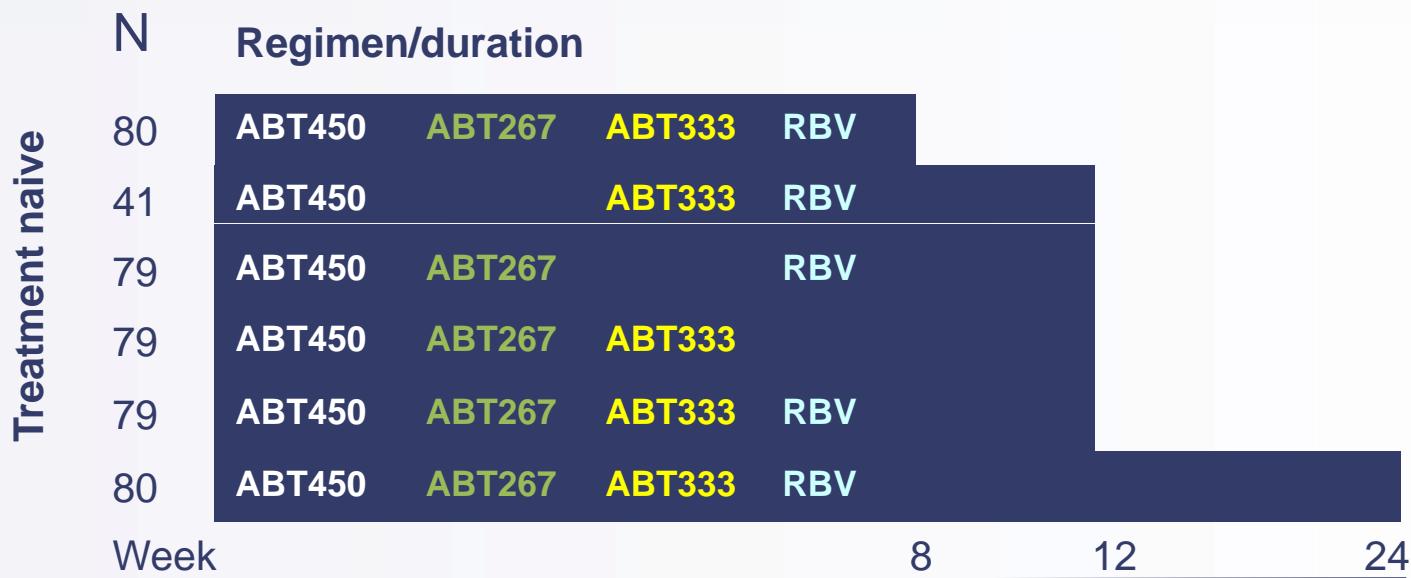
K.V. Kowdley^{1*}, E. Lawitz², F. Poordad², D.E. Cohen³, D. Nelson⁴, S. Zeuzem⁵, G.T. Everson⁶, P. Kwo⁷, G.R. Foster⁸, M. Sulkowski⁹, W. Xie³, L. Larsen³, A. Khatri³, T. Podolsky³, B. Bernstein³¹

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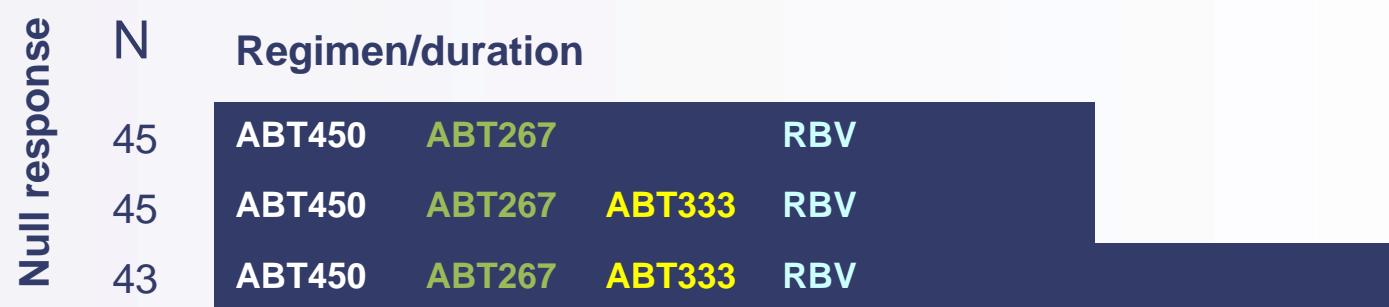
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AVIATOR

- Phase 2, randomized, open-label, multicenter study
- Patients
 - Genotype 1 (66% genotype 1a)
 - Treatment-naïve and prior null response
 - Non-cirrhotic
- Medications
 - ABT-450/r (HCV protease inhibitor boosted with ritonavir 100 mg)
 - ABT-267 (NS5A inhibitor)
 - ABT-333 (non-nucleoside NS5B inhibitor)
 - Ribavirin
- Duration
 - 8, 12 and 24 weeks



	SVR12 (%)	SVR24** (%)	VBT/Relapse
	89	88	0/10
	85	83	1/4
	91	89	1/8
	90	87	1/5
	99	96	0/1
	93	90	0/2



	SVR12 (%)	SVR24 (%)	VBT/Relapse
	89	89	0/5
	93	93	3/0
	98	95	1/0

** 8 patients who achieved SVR12 did not return > 24 weeks and were counted as virological failures for SVR24
 3 patients relapsed between SVR12 and SVR24

AVIATOR Conclusions

- Comparable SVR12 and 24 seen with 12 and 24 weeks of treatment
 - Selection of a 12-week duration of therapy in these populations
- SVR rates >90% were achieved in naïve and prior null responder patients with a 3-DAA+RBV regimen
 - No clinically meaningful differences were observed by sex, HCV subtype, IL28B genotype, baseline HCV-RNA or severity of fibrosis.



Sustained Virologic Response With Daclatasvir Plus Sofosbuvir ± Ribavirin (RBV) In Chronic HCV Genotype (Gt) 1-infected Patients Who Previously Failed Telaprevir (TVR) or Boceprevir (BOC)

M.S. Sulkowski^{1*}, D.F. Gardiner², M. Rodriguez-Torres³, K.R. Reddy⁴, T. Hassanein⁵, I. Jacobson⁶, E. Lawitz⁷, A.S. Lok⁸, F. Hinestrosa⁹, P.J. Thuluvath¹⁰, H. Schwartz¹¹, D.R. Nelson¹², G.T. Everson¹³, T. Eley², M. Wind-Rotolo¹⁴, S.-P. Huang¹⁴, M. Gao¹⁵, F. McPhee¹⁵, D. Hernandez¹⁵, D. Sherman², R. Hindes¹⁶, W. Symonds¹⁷, C. Pasquinelli², D.M. Grasela², AI444040 Study Group

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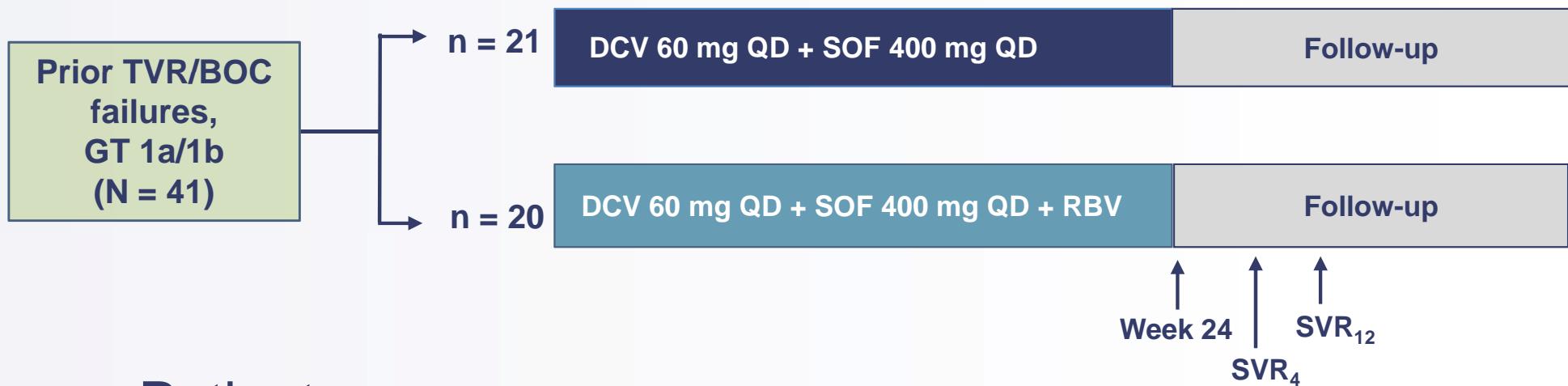
Background

- Patients who experience virologic failure on telaprevir or boceprevir-based regimens currently have no treatment options
- Daclatasvir (DCV): NS5A inhibitor
- Sofosbuvir (SOF): nucleotide NS5B polymerase inhibitor
- DCV plus SOF with or without RBV achieved SVR4 in 98% of 126 HCV GT 1-infected treatment-naive patients
(Sulkowski et al. AASLD 2012)

Aim:

- To evaluate the efficacy and safety of DCV plus SOF with or without RBV for 24 weeks in HCV GT 1-infected patients who failed prior treatment with TVR or BOC + pegIFN-alfa/RBV

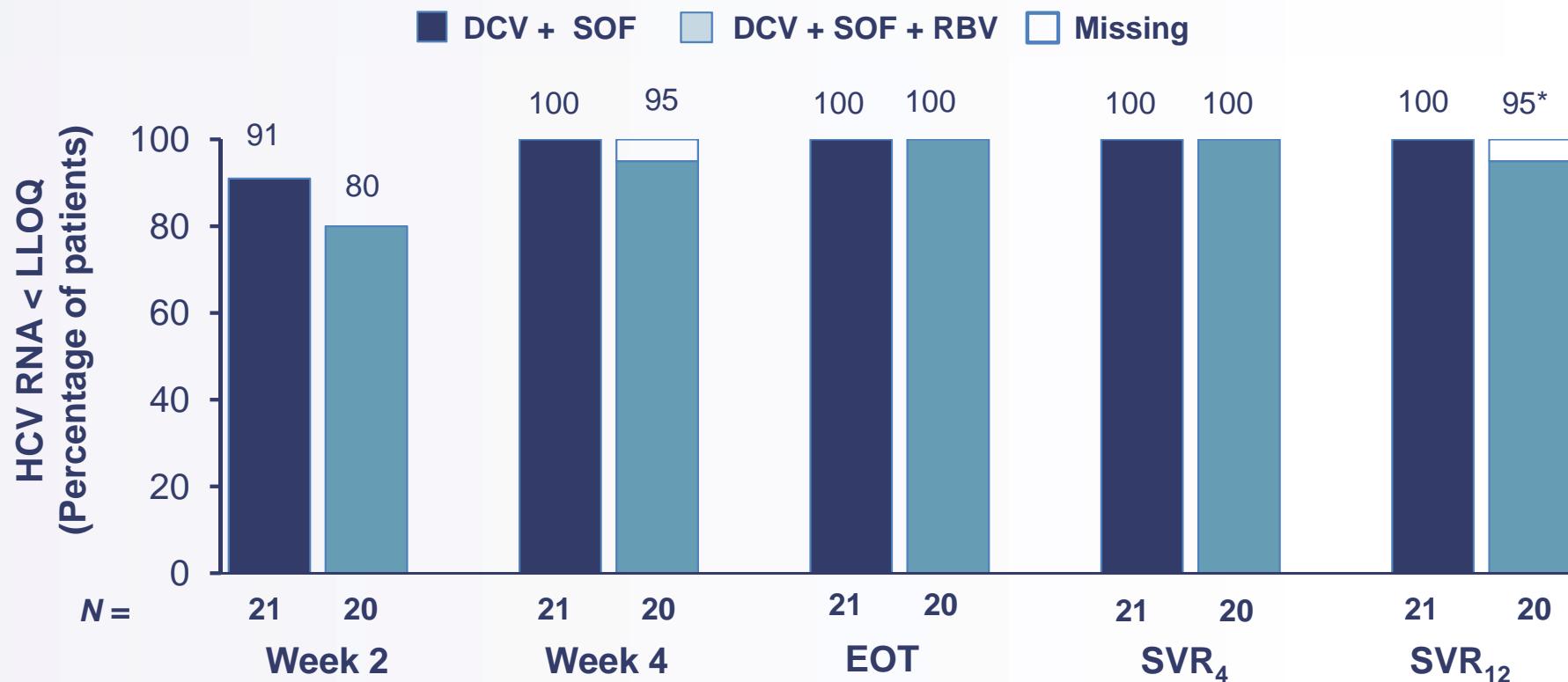
Study design



– Patients

- Genotype 1, non-cirrhotic
- Prior nonresponse, relapse, or breakthrough during treatment with PEG/RBV + TVR or BOC
- Patients who discontinued TVR or BOC due to an adverse event were excluded

Virologic Response: DCV + SOF in TVR or BOC/PR failures (mITT)



*1 patient missing at post-treatment (PT) Week 12: HCV RNA was undetectable at PT Week 4 and at PT Week 24
21/41 patients have reached PT Week 24; all have achieved SVR24

Sulkowski M, et al. 48th EASL; Amsterdam, Netherlands; April 24-28, 2013. Abstract 1417.



Conclusion

- The all-oral, once-daily combination of DCV + SOF with or without RBV achieved SVR in all HCV GT 1-infected patients (n=41) who failed prior treatment with TVR or BOC + pegIFN-alfa/RBV
- DCV + SOF with or without RBV was well tolerated
 - No grade 3 or 4 hepatic or hematologic abnormalities



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