

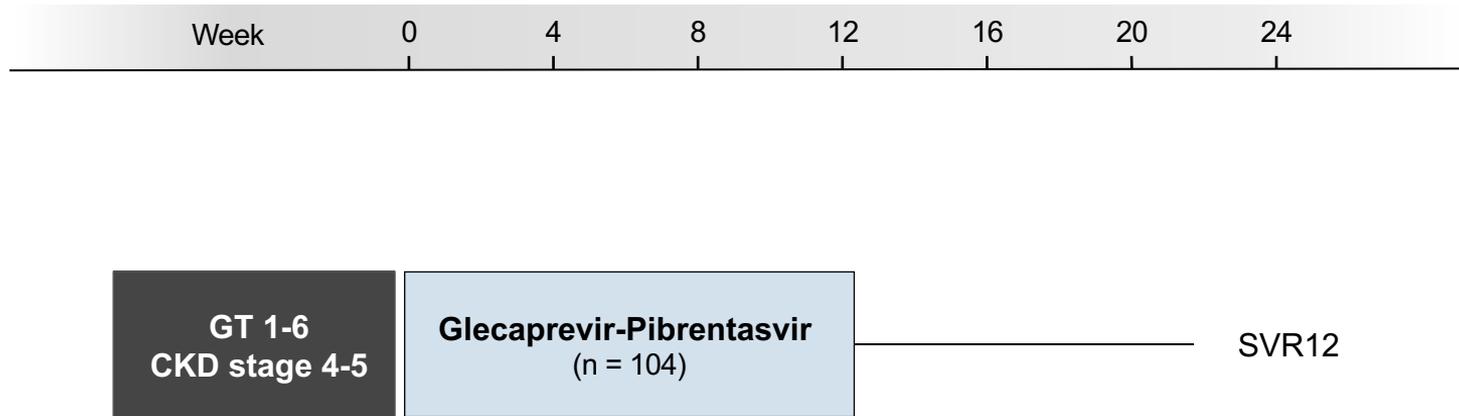
# Glecaprevir-Pibrentasvir in GT 1-6 with Renal Disease EXPEDITION-4

# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease

## EXPEDITION-4: Study Features

- **Design:** Open-label, single-arm, phase 3 trial to evaluate the safety and efficacy of the fixed-dose combination of glecaprevir-pibrentasvir for 12 weeks in treatment-naïve and treatment-experienced patients with GT 1, 2, 3, 4, 5, or 6 chronic HCV infection with advanced renal insufficiency
- **Setting:** US, Canada, Europe, Australia and New Zealand
- **Key Eligibility Criteria**
  - Age  $\geq 18$  years
  - Chronic HCV GT 1, 2, 3, 4, 5, or 6
  - Estimated eGFR  $< 30$  mL/min/1.73 m<sup>2</sup> (Stage 4 or 5 CKD)
  - HCV RNA  $\geq 1,000$  IU/mL at screening
  - Naïve or treated with peginterferon +/- ribavirin (PR) or PR +/- sofosbuvir
  - Without cirrhosis or with compensated cirrhosis
  - HIV or chronic HBV coinfection excluded
- **Primary End Point:** SVR12

# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease EXPEDITION-4: Treatment Regimen



**Abbreviations:** CKD = chronic kidney disease

**Drug Dosing:** Glecaprevir-pibrentasvir (100/40 mg) fixed-dose combination, three pills daily

# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease

## EXPEDITION-4: Baseline Characteristics

Baseline Characteristic	Glecaprevir-Pibrentasvir (n = 104)
Mean age (range), years	57 (28-83)
Male sex, n (%)	79 (76)
Race, n (%)	
White	64 (62)
Black	25 (24)
Asian	9 (9)
Other	6 (6)
Median body-mass index (range)	26 (18-45)
Compensated cirrhosis, n (%)	20 (19)

Source: Gane E, et al. N Engl J Med. 2017;377:1448-55.

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## EXPEDITION-4: Baseline Characteristics

Baseline Characteristic	Glecaprevir-Pibrentasvir (n = 104)
Median HCV RNA level, log <sub>10</sub> IU/mL (range)	5.9 (3.4-7.5)
HCV Genotypes, n (%)	
1a	23 (22)
1b	29 (28)
1 (other)	2 (2)
2	17 (16)
3	11 (11)
4	20 (19)
5	1 (1)
6	1 (1)
HCV Treatment History, n (%)	
Treatment-Naïve	60 (58)
Interferon (or Peginterferon) ± Ribavirin	42 (40)
Sofosbuvir and Ribavirin ± Peginterferon	2 (2)

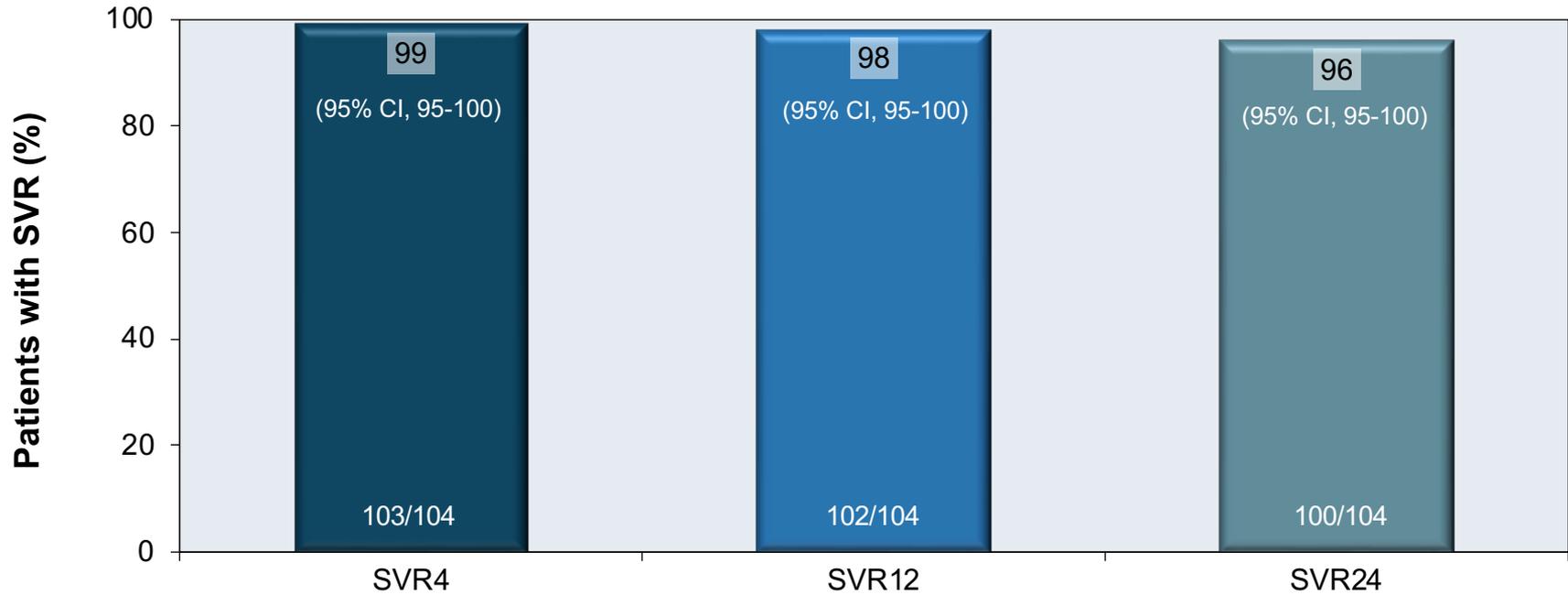
Source: Gane E, et al. N Engl J Med. 2017;377:1448-55.

# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease EXPEDITION-4: Baseline Characteristics (Renal)

Baseline Characteristics (Renal)	Glecaprevir-Pibrentasvir (n = 104)
eGFR in patients not undergoing hemodialysis, mL/min/1.73 m <sup>2</sup>	20.6 ± 8.0
CKD stage, n (%)	
Stage 4	14 (13)
Stage 5	90 (87)
Hemodialysis, n (%)	85 (82)

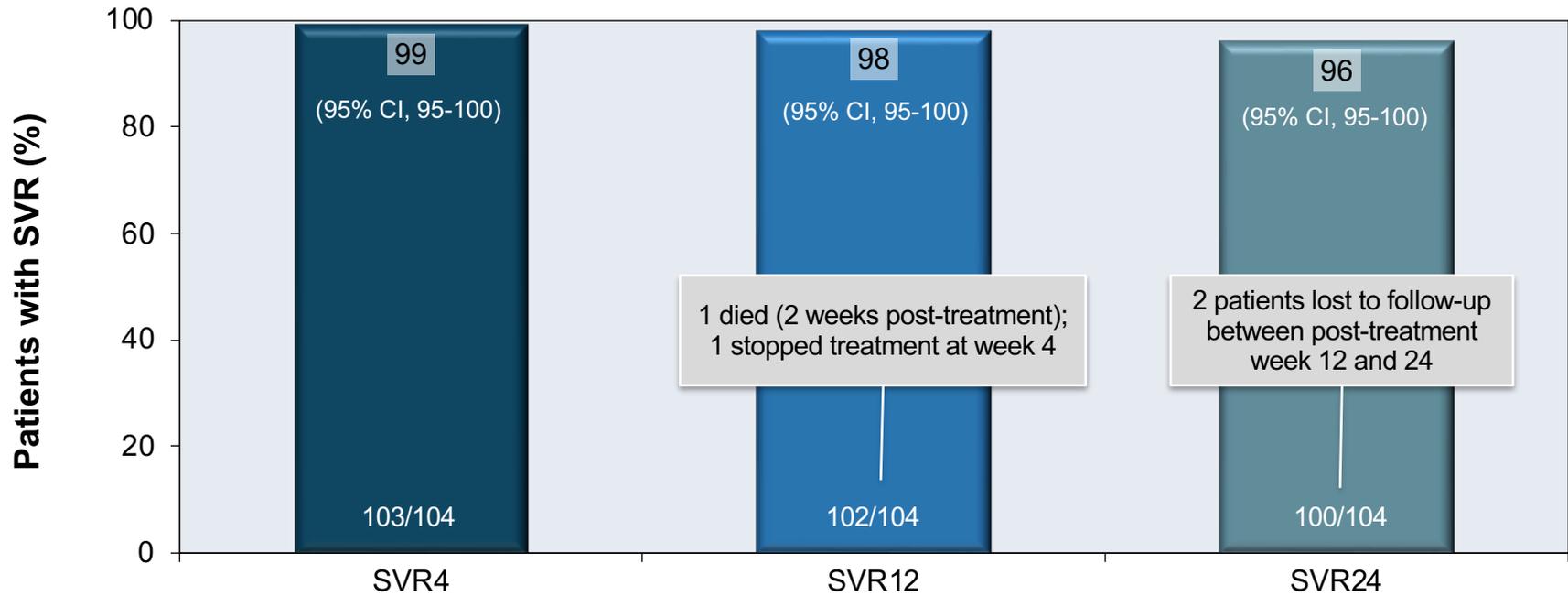
# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease EXPEDITION-4: Results

## Sustained Virologic Response Rates (SVR)



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## Sustained Virologic Response Rates (SVR)



# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease

## EXPEDITION-4: Adverse Events

Adverse Event (AE), n (%)	Glecaprevir-Pibrentasvir (n = 104)
Serious AE	25 (24)
AE leading to treatment discontinuation	4 (4)*
Death	1 (1)#
AEs occurring in ≥10% of patients	
Pruritus	21 (20)
Fatigue	15 (14)
Nausea	12 (12)
Alanine aminotransferase >3x ULN, grade ≥2	0
Total bilirubin >3x ULN, grade ≥3	1 (1)
Hemoglobin <8 g/dL, grade ≥3	5 (5)
*AEs not considered related to study drug #One death related to cerebral hemorrhage, post-treatment week 2, deemed not related to study drug.	

# Glecaprevir-Pibrentasvir in Genotype 1-6 with Renal Disease EXPEDITION-4: Conclusions

**Conclusion:** “Treatment with glecaprevir and pibrentasvir for 12 weeks resulted in a high rate of sustained virologic response in patients with stage 4 or 5 chronic kidney disease and HCV infection.”

# Acknowledgments

**Hepatitis C Online** is funded by a cooperative agreement from the Centers for Disease Control and Prevention (CDC-RFA- PS21-2105). This project is led by the University of Washington Infectious Diseases Education and Assessment (IDEA) Program.



*The contents in this presentation are those of the author(s) and do not necessarily represent the official position of views of, nor an endorsement, by the Centers for Disease Control and Prevention.*