

## Acute HCV Treatment - European Perspective

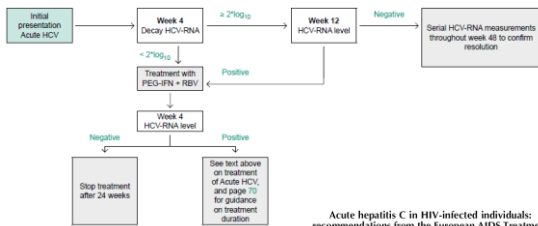
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Department of Internal Medicine I  
Bonn University Hospital  
Germany

### International HIV/Viral Hepatitis Co-Infection Satellite Meeting

18-19 July 2014  
Melbourne, Australia



### EACS Recommendations for treatment of acute HCV in HIV co-infection



Acute hepatitis C in HIV-infected individuals:  
recommendations from the European AIDS Treatment  
Network (NEAT) consensus conference  
The European AIDS Treatment Network (NEAT) Acute Hepatitis C  
Infection Consensus Panel

AIDS 2013, 23, 190-198



### EASL Clinical Practice Guidelines: Management of hepatitis C virus infection

European Association for the Study of the Liver\*

#### Treatment of acute hepatitis C

Consensus guidelines for the management of acute HCV in HIV-infected individuals were published in 2011 [151]. Regardless of infecting genotype, the guideline recommended the combination of pegylated IFN- $\alpha$  and weight-based ribavirin for treatment. Duration of treatment can be determined by kinetics of response, with 24 weeks of treatment given to those with serum RNA negativity at 4 weeks (RVR), and 48 weeks for those with first serum RNA negativity delayed beyond 4 weeks.

Treatment strategies:  
Beyond pegIFN + RBV



- pegIFN / RBV + HCV PI
  - Boceprevir
  - Telaprevir
- 1 DAA + RBV
  - Sofosbuvir + RBV
- 2 DAAs
  - Sofosbuvir + Ledipasvir

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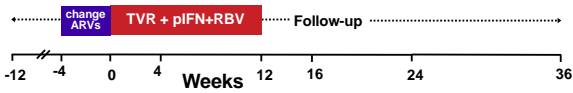
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Telaprevir in AHC



	ETR	SVR 4	SVR 12	SVR 24
Total	16/19	16/19	16/19	16/19
Success rate	84%	84%	84%	84%

63% (30/48) in the comparator group:  
Treated prior to the availability of, or ineligible for, telaprevir Frieler et al., CID 2014

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Current & future studies  
with DAAs in acute HCV



Study name	Coordinator	DAAs	HCV genotype	Duration (weeks)	HIV Status
DAHHS	Erasmus MC	BOC + pegIFN + RBV	1	12	pos
CHAT	UKB	TPV + pegIFN + RBV	1	12	pos
SWIFT-C	ACTG	SOF + RBV	all	8 vs. 12	pos
DARE C III	Kirby Institute	SOF + RBV	all	6	neg + pos
SOL	UKB	SOF + LDV	1, 4	6	pos
Hep-Net Acute HCV	MHH	SOF + LDV	1	6	neg

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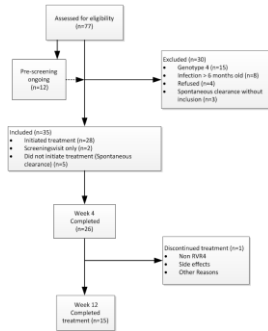
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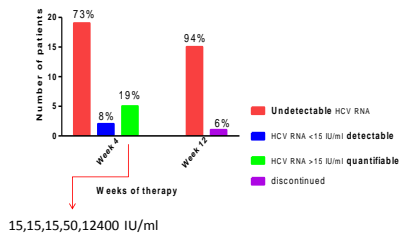
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Dutch Acute HCV in HIV Study:  
Boceprevir + pegIFN/RBV in AHC co-infection



Hullege et al, 10th Co-Infection Workshop 2014, #O\_02

Dutch Acute HCV in HIV Study:  
On treatment responses



Hullege et al, 10th Co-Infection Workshop 2014, #O\_02



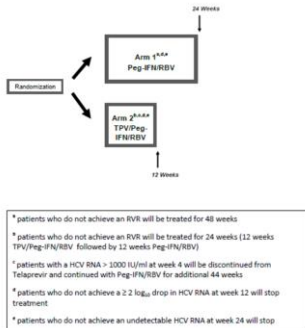
Clinical Protocol



Section #1	
Study Title (Acronym)	An open label, randomised, non-inferiority trial of pegylated interferon, ribavirin and telaprevir versus pegylated interferon and ribavirin alone in the response guided treatment of acute hepatitis C genotype 1 virus infection in patients with HIV-1 co-infection (CHAT Study)
Protocol Date	January 16 <sup>th</sup> 2013
Protocol Version	Version 9
Protocol Number	TPVAHC2012
Eudra-CT Number	2012-001419-21



## Study design




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## Interim analysis



- 14 pts. screened (1 screening failure); UK: 9 pts
- SVR: 3 pts (arm 2)
- 4 ETR (2 arm 1, 2 arm 2)
- 1 Tx discontinuation due to AE (arm 2)
- 1 re-infection under Tx (arm 2)
- 4 virologic failures (2 arm 1, 2 arm 2)

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## CHAT patient: HCV kinetics



HCV RNA Baseline: 10.852.811 IU/ml  
 HCV RNA Week 2: 355 IU/ml  
 HCV RNA Week 4: 28.762 IU/ml  
 HCV RNA Week 5: 996.909 IU/ml → Tx discontinuation

2 reasons for non-response:  
 Reinfection -> again GT 1a infection  
 HCV PI resistance

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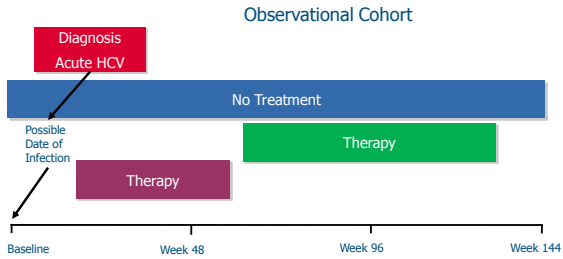
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### PROBE-C Study



probec@ukb.uni-bonn.de

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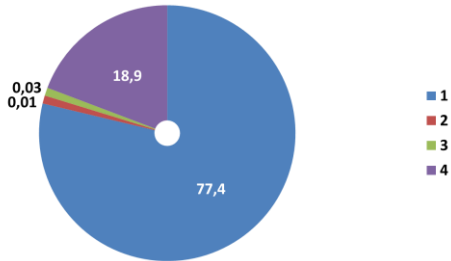
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### HCV Genotype Distribution



478 AHC episodes in 459 pts. (19 reinfections)




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### Interim analysis



- Spontaneous clearance in 12.7%, in 58,4% (279/478) treatment was initiated
- 278 pegIFN + RBV
- 1 SOF + RBV (GT2)
- SVR: 68% (83/122)

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## Studies with 2 DAAs



Section #1	
<b>Study Title (Acronym)</b>	A pilot trial of sofosbuvir and ledipasvir for 6 weeks in the treatment of acute hepatitis C genotype 1 and 4 infection in patients with HIV-1 co-infection (SOL Study)
<b>Protocol Date</b>	June 1 <sup>st</sup> , 2014
<b>Protocol Version</b>	Version 2
<b>Protocol Number</b>	n/a
<b>Eudra-CT Number</b>	n/a
<b>Sponsor</b>	NEAT ID Foundation, London House, 266 Fulham Road, London SW10 9EL, UK

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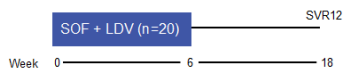
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## SOL study design



ACTG: SOF + LDV for 12 wks (if successful -> 8 wks)

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## 2015+



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