

### CONSENSUS RECOMMENDATIONS FOR VIROLOGIC NOMENCLATURE IN DAA CLINICAL TRIALS



Donald M. Jensen<sup>1</sup>, Heiner Wedemeyer<sup>2</sup>, Eliot Godofsky<sup>3</sup>, Jean-Michel Pawlotsky<sup>4, 5</sup>, Nina Mani<sup>6</sup> and Veronica Miller<sup>6</sup> On behalf of the Definitions/Nomenclature Working Group of the HCV Drug Development Advisory Group\*,

<sup>1</sup>University of Chicago Medical Center, Chicago, IL USA, <sup>2</sup>Hannover Medical School, Hannover, Germany, <sup>3</sup>Bach and Godofsky, Bradenton, FL USA, <sup>4</sup>National Reference Center for Viral Hepatitis B, C and delta, Department of Virology, Hôpital Henri Mondor, University of Paris-Est, Créteil, France; and <sup>5</sup> INSERM U955, Créteil, France, <sup>6</sup>Forum for Collaborative HIV Research, University of California, Berkeley, Washington, DC USA

#### Introduction

HCV drug development is progressing rapidly, but terms used to qualify virologic responses in clinical trials remain archaic. With interferon-free regimens, which hold the promise of greater potency, shorter duration of therapy and higher cure rates on the horizon the Hepatitis C Virus Drug Development Advisory Group, a project of the Forum for Collaborative HIV Research and experts from the American Association of Liver Diseases, European Association for the Study of Liver Diseases and the Infectious Diseases Society of America, has created a more flexible and intuitive system to document key virologic events in HCV clinical trials

#### Methods

Terms used to categorize virologic responses in interferon containing regimens were systematically analyzed and modified to reflect and adapt to the changing investigational DAA landscape. The recommended nomenclature was derived by consensus amongst experts from the HCV Drug Resistance Advisory Group (HCV DrAG).

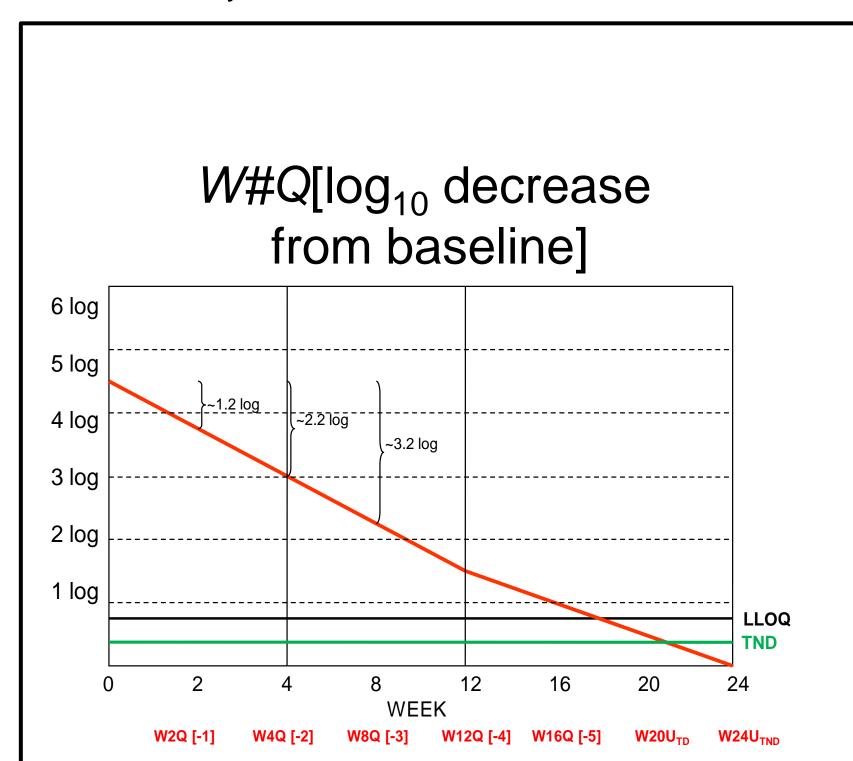
# Results Important Considerations

The lower limit of quantitation (LLOQ) for the virologic assay used should be clearly specified.

In the figures:

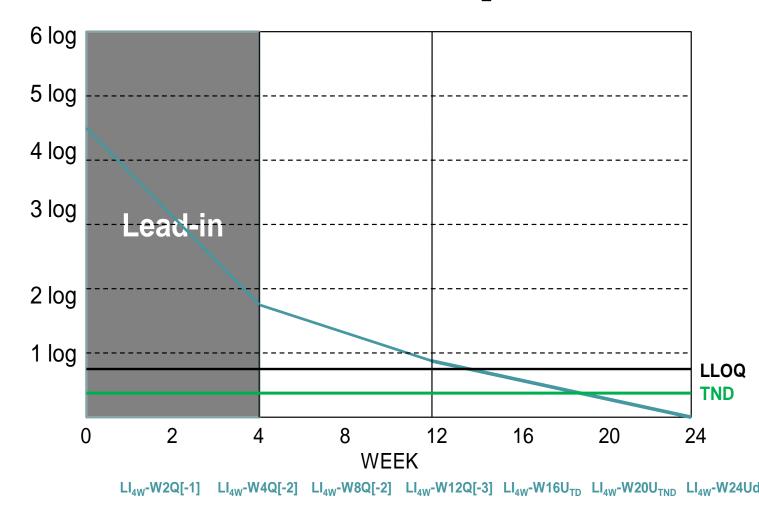
W# stands for Week of treatment
Q stands for Quantifiable HCV RNA
U stands for Unquantifiable HCV RNA
TD/TND notes whether Target HCV RNA
was Detected or Not Detected
LI<sub>W/D</sub> denotes lead-in treatment duration

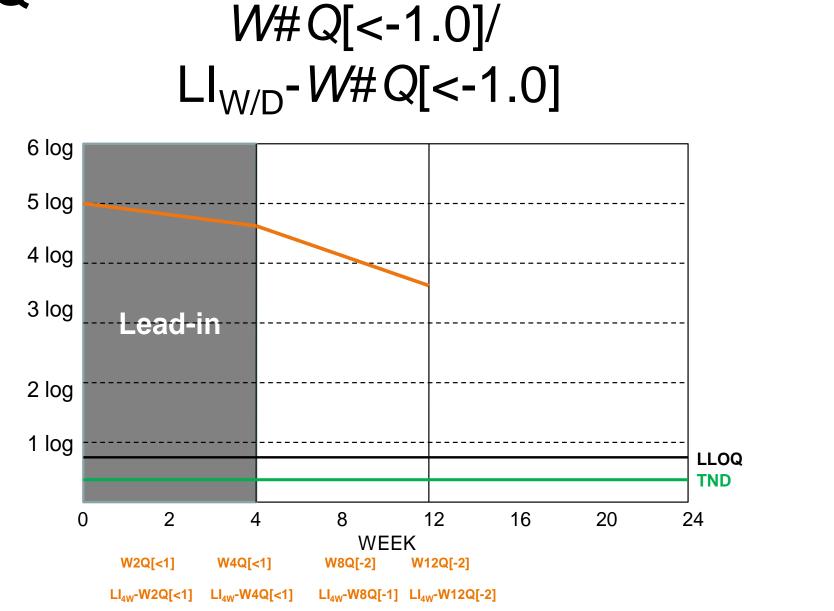
represented by weeks (W) or days (D)



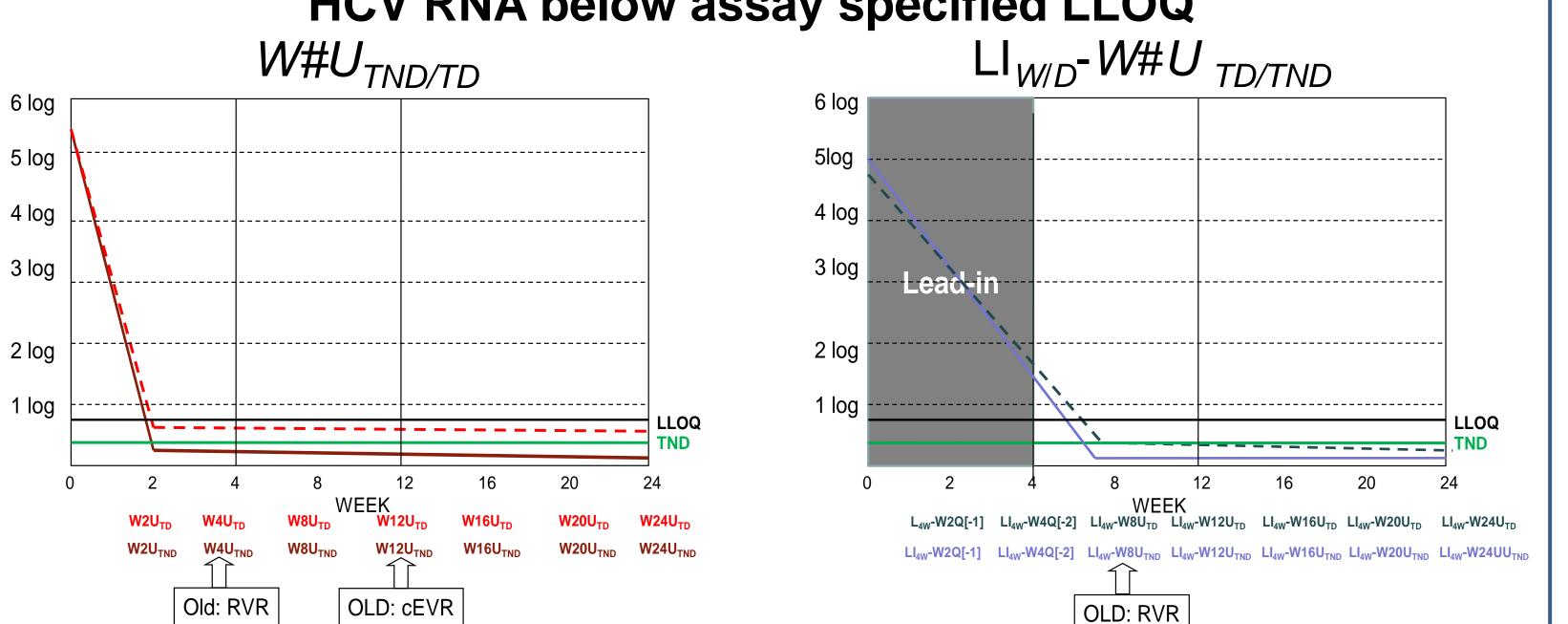
# Quantifiable HCV Viremia HCV RNA above assay specified LLOQ

LI<sub>W/D</sub> - W#Q[log<sub>10</sub> decrease from baseline]









### **Conclusions**

- 1. A more unified viologic response nomenclature will facilitate clinical research by increasing the ability to interpret results across studies.
- 2. The response data should be based on assay—specified LLOQ cut-off and this value should be clearly stated. Use of an assays' lower limit of detection (LOD) should be avoided for reporting purposes.
- **3.** Quantifiable (Q) HCV RNA should be reported as  $\log_{10}$  decline in viral load from baseline and should be recorded in increments of 0.1  $\log_{10}$ . Baseline is defined as viral load at time of treatment initiation.
- 4. In particular, HCV RNA declines of less than one log<sub>10</sub> should be reported.
- **5.** <u>Unquantifiable</u> (U) HCV RNA reporting should be based on whether HCV RNA target was detected (TD) or not detected (TND).
- **6.** <u>L</u>ead-<u>i</u>n (LI) treatment duration in weeks/days should be specified.

<sup>\*</sup>Membership list available at: <a href="www.hivforum.org">www.hivforum.org</a>.. HCV DrAG is a project of the Forum for Collaborative HIV Research