## **HCV** Genotyping

Gabrielle Heilek Ph.D. Clinical Research Lead Hepatitis Medical Affairs Roche Molecular Diagnostics

# **HCV** Genotyping Assays

- Commercial Use:
  - Laboratory developed tests
  - INNO-LiPA HCV II (Innogenetics)
  - Trugene HCV (Siemens)
  - Linear Assay HCV Genotyping test (Roche Molecular)
- RUO
  - Real Time HCV Genotype II (Abbott)
- Developed during different treatment paradigm time periods
- No Standardization of samples explored
- In Development
  - Cobas HCV genotyping product (Roche Molecular)

## **Proposal for Comparison Data**

 To assess performance of the various tests : standardized panels of HCV genotypes 1-6 should be explored

- Establish a type of 'proficiency testing'
- Ensure sufficient 'n' to be relevant globally
- Comparator to sequencing for discordant calls (gold standard)

## Sources for Materials

### Commercial vendors

- NIBSC
- Acrometrix
- Seracare

Set up larger panel manufacture?

### • Pharma companies

- When enrolling Phase III studies on a global basis, patients with 'unsuitable' genotypes are turned away
- Parallel collection protocols to source 10-15 ml of plasma of endemic genotype samples?

### Standardized Comparison-The Ideal

- Data should be presented with standardized panels
  - Contain at least 15-20 of each genotype 1a, 1b, 2, 3, 4, 5 and 6
  - Further support with data from test verification protocols (TPV studies used for CE registration)
  - Compare test A, test B to sequencing

## Current Need: Clinical Practice vs. Clinical Trials

### Clinical Practice:

 Identification of patients suitable for triple therapy with a protease inhibitor: gt1 or non-gt1

### • Clinical Trials:

- Data capture of patient population
- Expansion of DAAs to non-1 gt
- Rapid evolving field in patient treatment
- Significance of genotyping is changing
- What will be needed by 2014 and forward?

## Thank You

### • Further Ideas for Discussion