The hepatitis C landscape is changing rapidly.
What does the future hold?

How do policy decisions affect the future?
Objectives

1. Describe the current burden of hepatitis C in Europe
2. Assess the impact of increased treatment

*Burden* encompasses both clinical outcomes, such as quality of life and mortality, and economical ones.
The model

Sustained virological response

Mild HCV ➔ Moderate HCV ➔ Cirrhosis ➔ Decompensated cirrhosis ➔ Liver transplantation ➔ Post transplantation

Hepatocellular carcinoma ➔ Mortality related to liver disease

Mild, moderate and cirrhosis (eligible for HCV treatment)

End-stage
Analyses conducted

- **Scenario A**
  - Patients are treated with current standard of care* and treatment levels are kept constant throughout the model

- **Scenario B**
  - Patients are treated with current standard of care* but treatment levels are increased between 2014 and 2018 after which treatment levels are returned to current levels

- **Scenario C**
  - Patients are treated with drugs of increased efficacy and treatment levels are increased between 2014 and 2018 after which treatment levels are returned to current levels

*Peg-interferon + ribavirin + protease inhibitor in genotype 1 and Peg-interferon + ribavirin in other genotypes in France (average SVR ~57%). Peg-interferon and ribavirin in all genotypes in Romania (average SVR ~33%).
Economic burden of HCV in Romania

Scenario A
Health care costs

Romania
Total costs

Romania

Baseline | Increased treatment | Increased treatment + efficacy

Health care costs
Drug costs
Indirect costs
Total cost

0 20,000 40,000 60,000 80,000 100,000 120,000 140,000 160,000 180,000

millon €
Liver cancer
Romania

Scenario A
Scenario B
Scenario C
Economic burden of hepatitis C in France

Scenario A

Health care costs
Drug costs
Indirect costs
Health care costs
France
## Total costs

### France

<table>
<thead>
<tr>
<th>Costs Type</th>
<th>Baseline</th>
<th>Increased treatment</th>
<th>Increased treatment + efficacy</th>
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<td>Health care costs</td>
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*Note: Baseline, Increased treatment, Increased treatment + efficacy*
Liver cancer
France

Scenario A
Scenario B
Scenario C

Annual number of patients living with HCC

Baseline  Increased treatment  Increased treatment + efficacy
Conclusions

- Burden of hepatitis C is substantial, regardless of country settings
- Despite decreased prevalence, total health care cost is projected to increase under current conditions
- Policy decisions today will impact long-term budgets and health outcomes
- This study shows the value of treatment investments
  - Economic value
  - Decreased morbidity and mortality
Tale of two countries

- Case of Romania shows
  - high cost of suboptimal treatment in short and long term
  - increased coverage must be combined with better treatment

- Case of France shows
  - recent positive trends can be reinforced with treatment investments
  - investment can be both in increased coverage and better treatments

- Optimal treatment strategies may differ between countries
  - Current generic model be extended and adapted to more countries
Hepatitis C impacts people’s lives and society’s costs greatly.

The treatment landscape changes rapidly. This should be reflected in policy.
About Quantify Research

Quantify Research is an experienced partner in health economics, outcomes research, real-world evidence, and market access. Our goal is to continuously deliver high quality services, combining our scientific and quantitative skills with a solution-oriented mindset and business focus.

We have our roots in academia with a broad technical competence in value strategy, modeling, evidence generation, biostatistics, study design and analysis.

Through extensive experience within both the governmental and private sectors, we have acquired a dynamic and efficient work model, putting emphasis on communication and finding tailored solutions to fit our clients’ needs.

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