

How to Demonstrate Clinical Benefit of SVR in Patients with Advanced Liver Disease

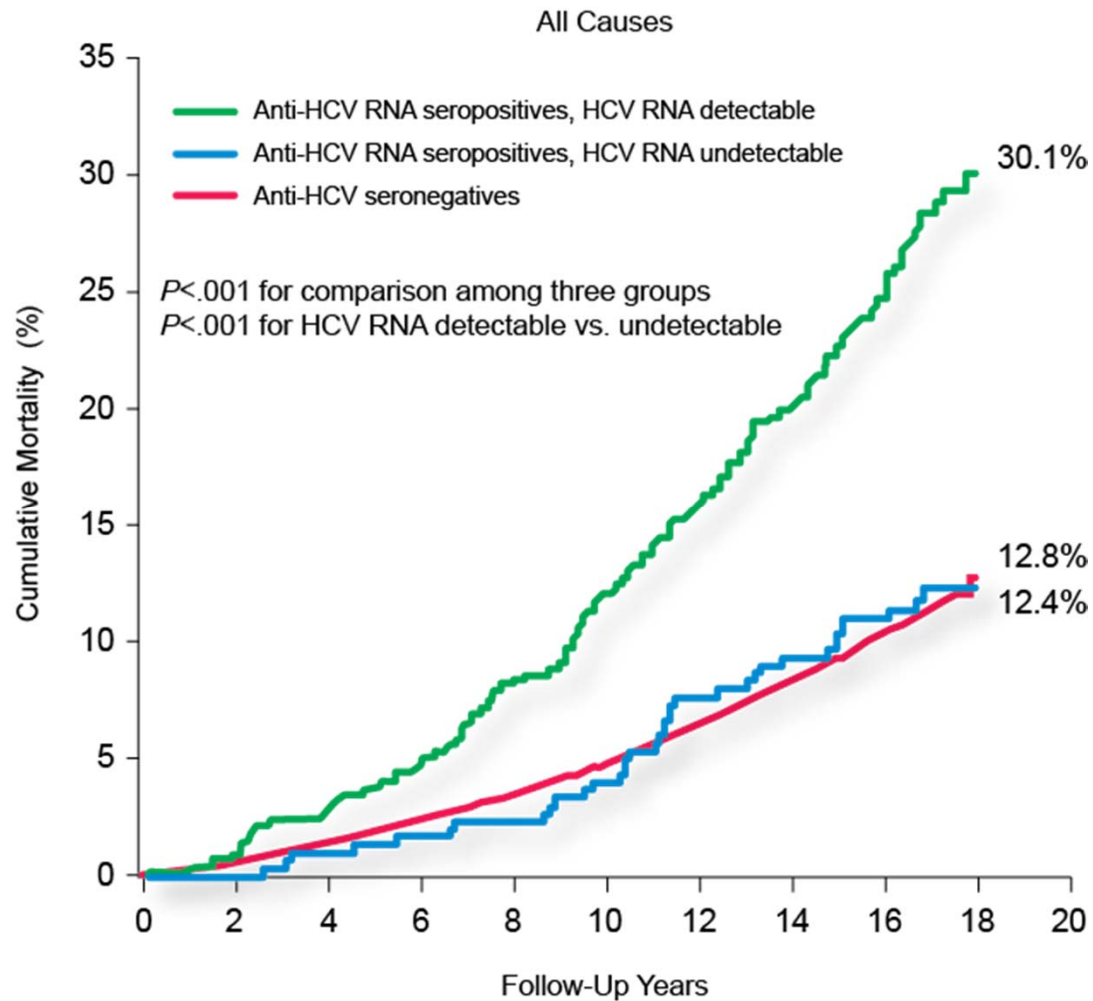
Heiner Wedemeyer

Hannover Medical School
Germany



Medizinische Hochschule
Hannover

HCV infection is associated with an increased overall mortality



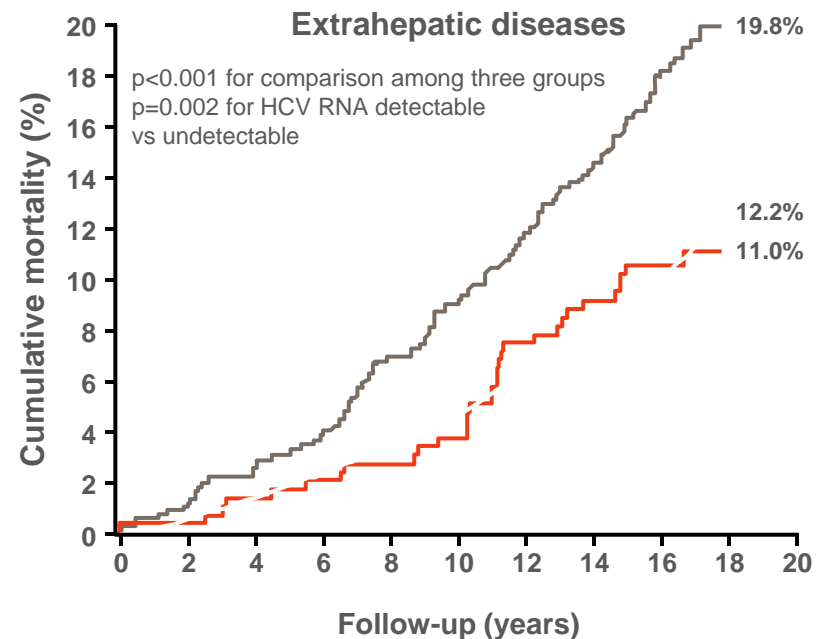
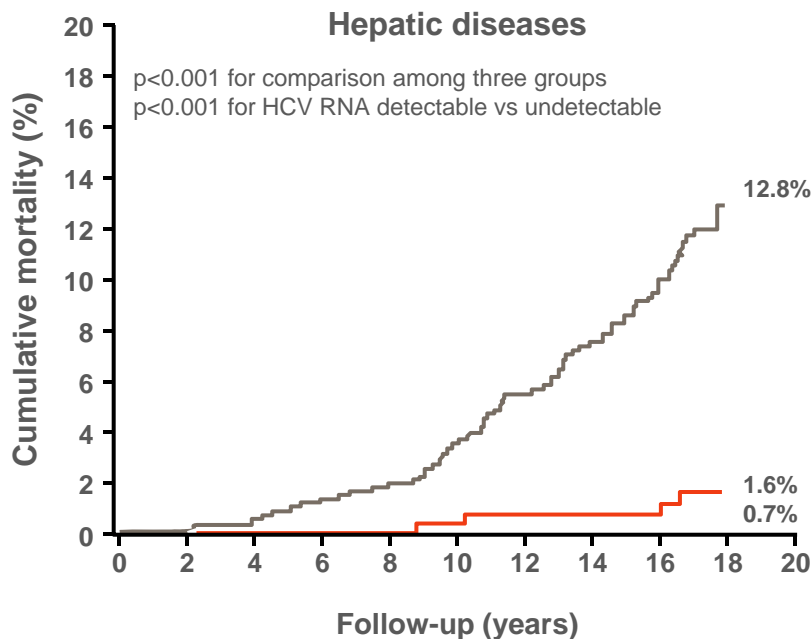
HCV-infection is associated with increased extrahepatic mortality!

The REVEAL HCV Cohort Study

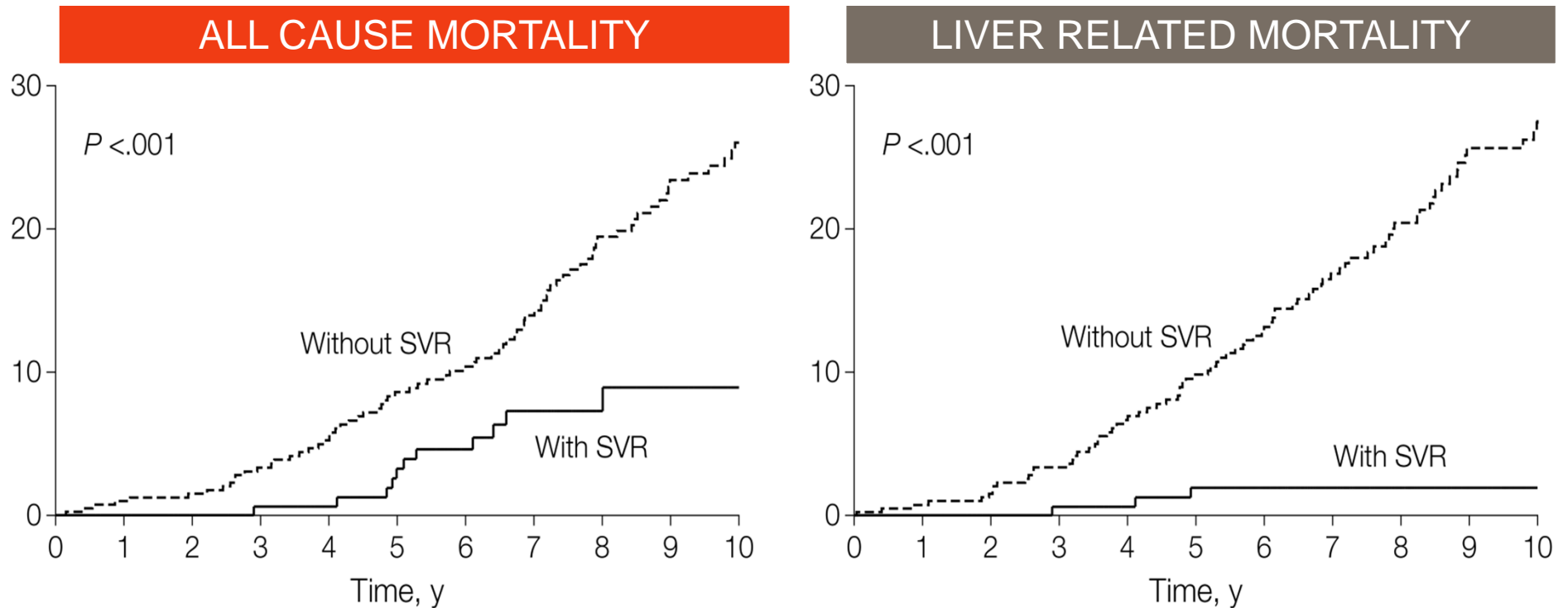
23 820 adults, Taiwan

1095 anti-HCV positive; 69.4% with detectable HCV RNA

— HCV seropositive, HCV RNA detectable
— HCV seropositive, HCV RNA undetectable
— HCV seronegative



SVR is associated with reduced mortality



Patients with SVR have a normal overall survival

Figure 2. Overall survival of patients without SVR compared to the age- and sex-matched Dutch population

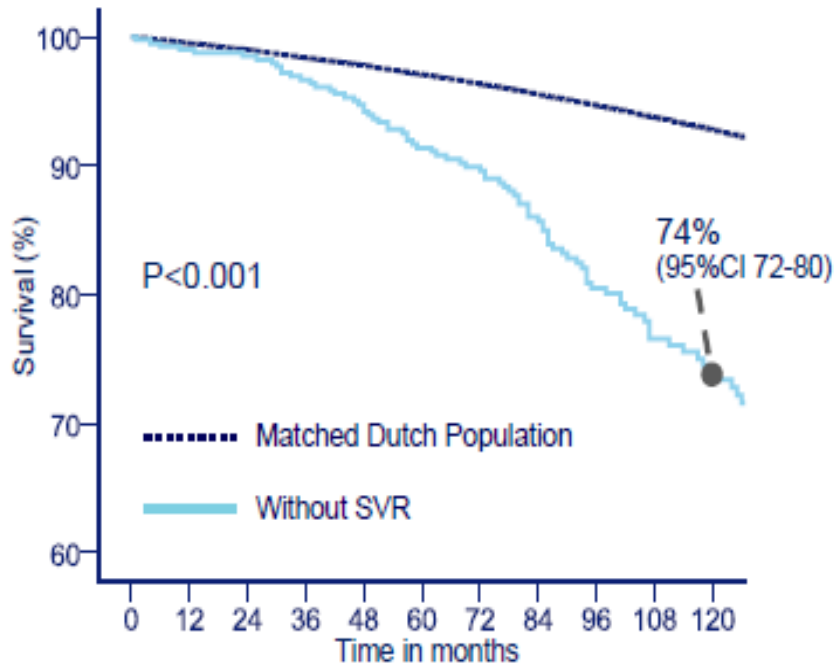
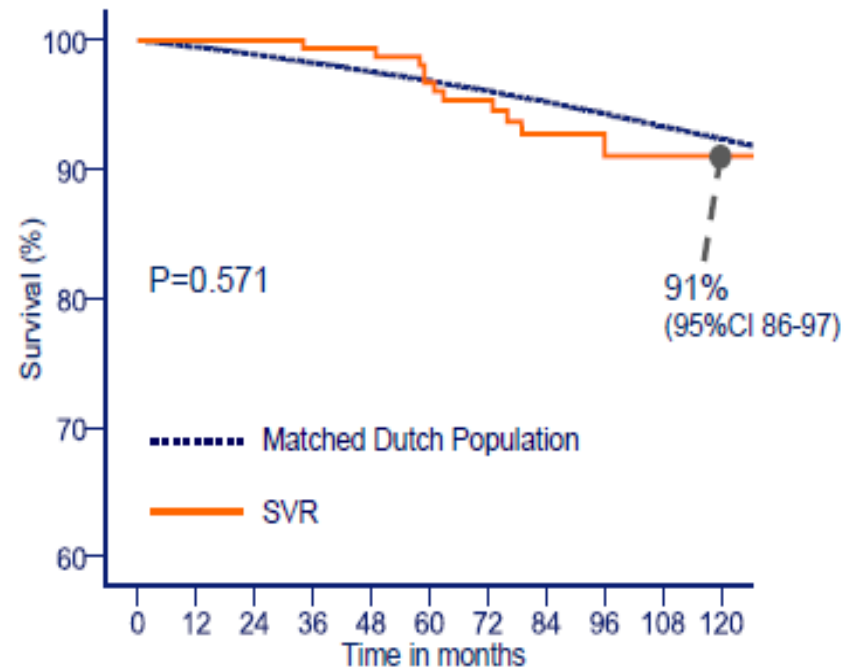
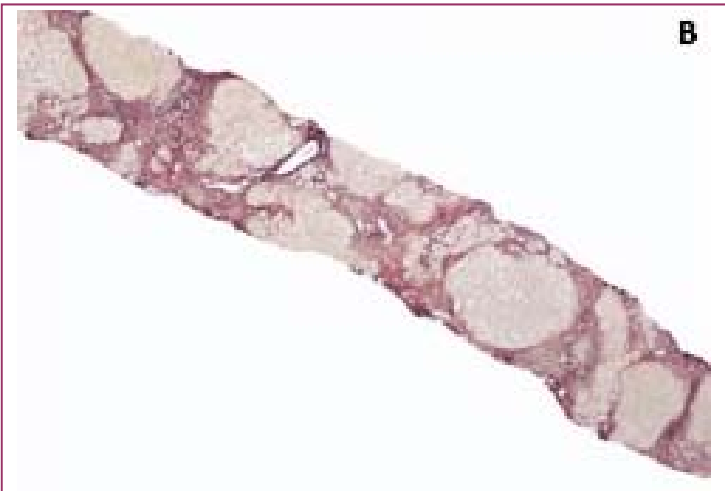
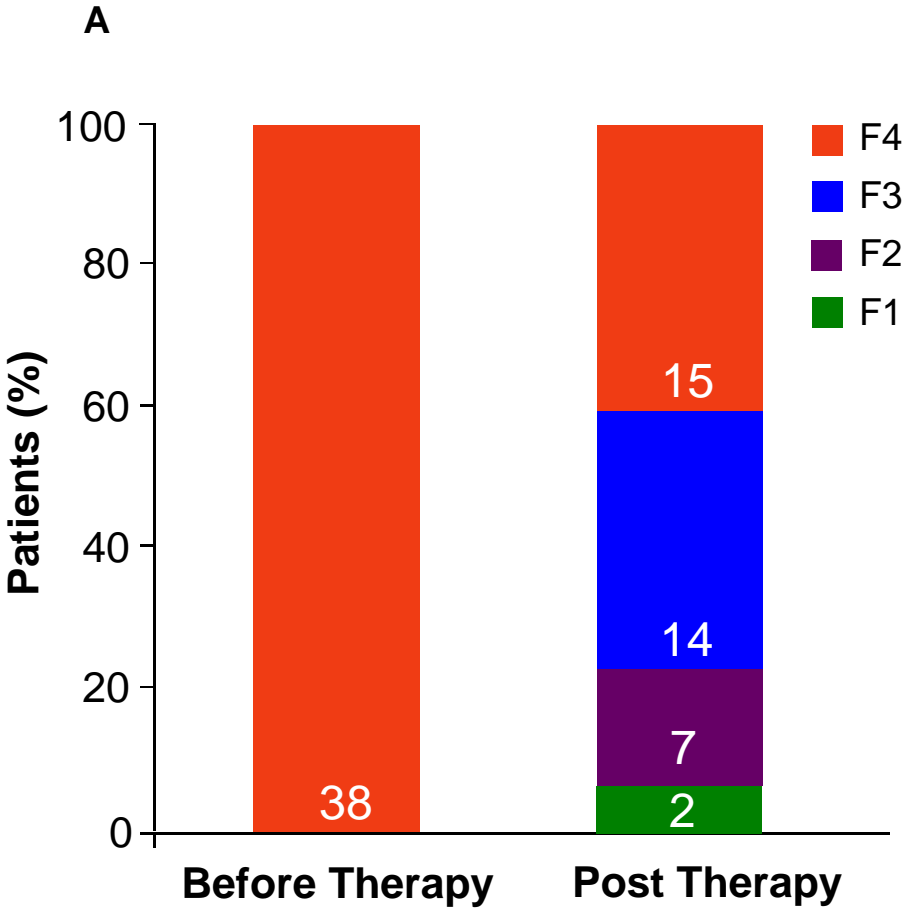


Figure 3. Overall survival of patients with SVR compared to the age- and sex-matched Dutch population



Surrogate Markers in Liver Disease?

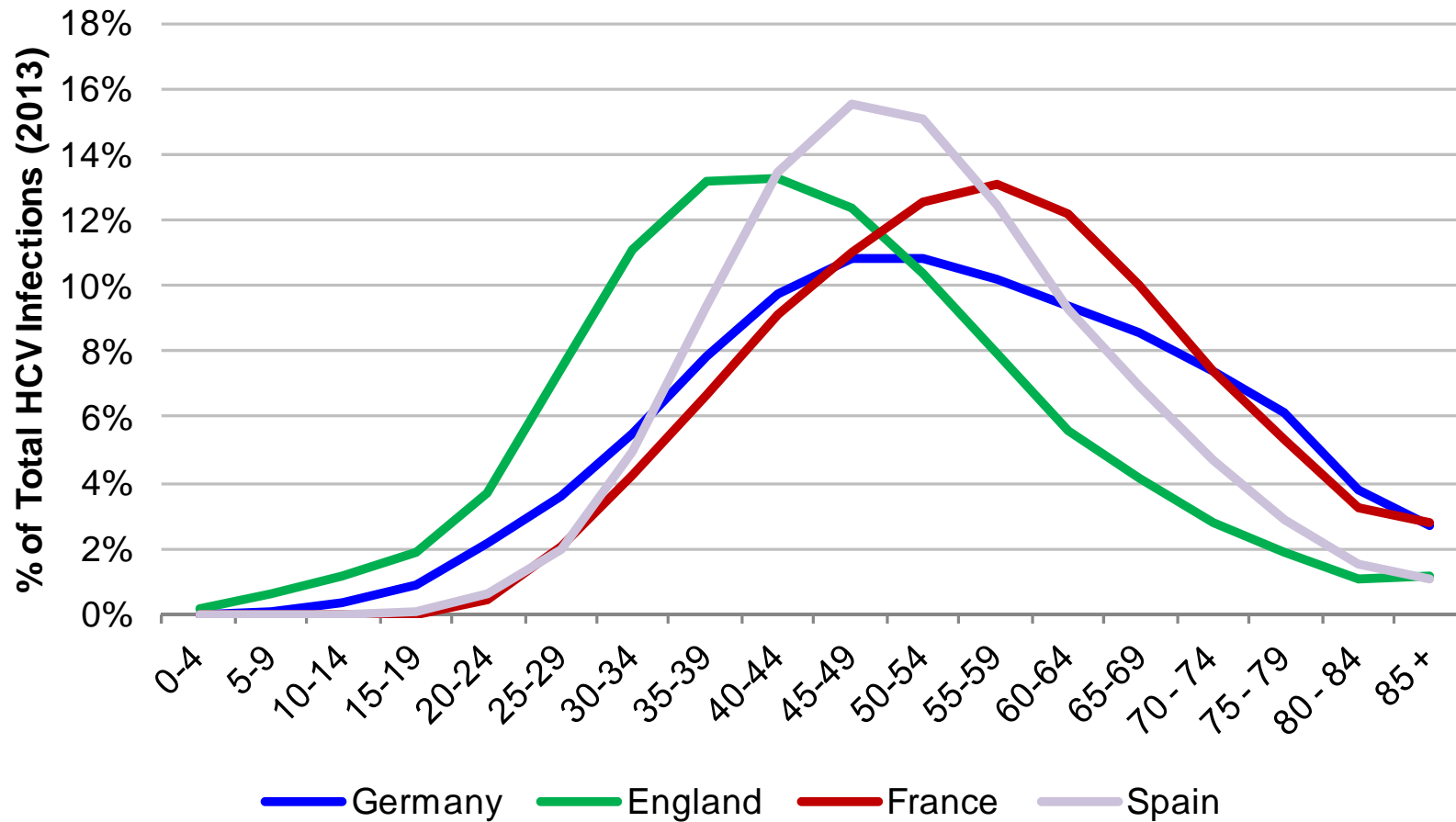
Regression of Liver Fibrosis after SVR



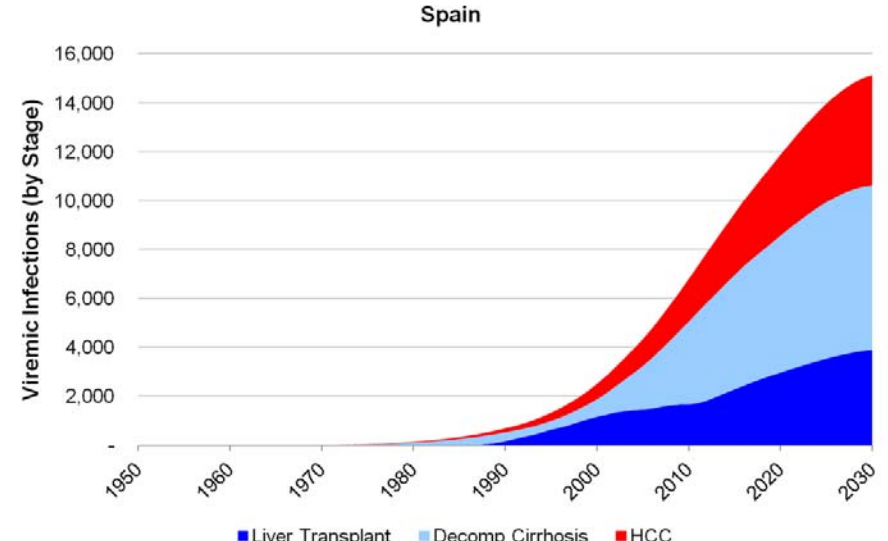
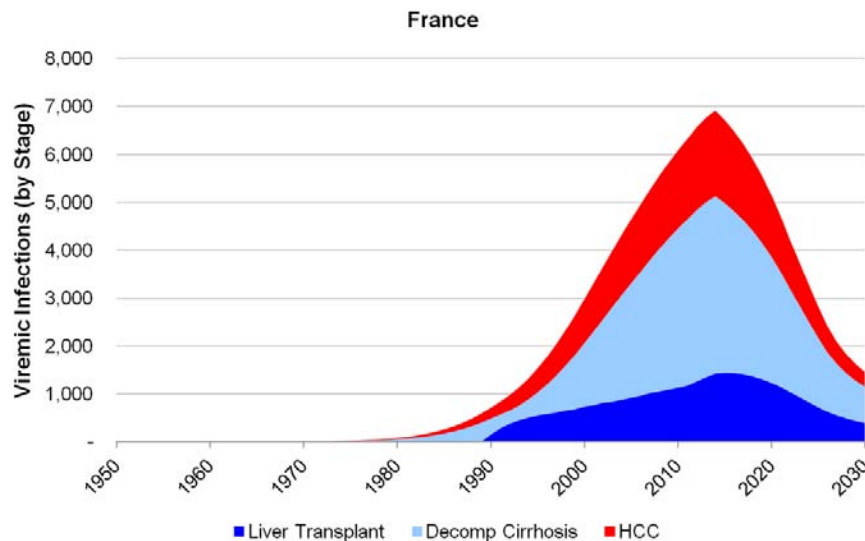
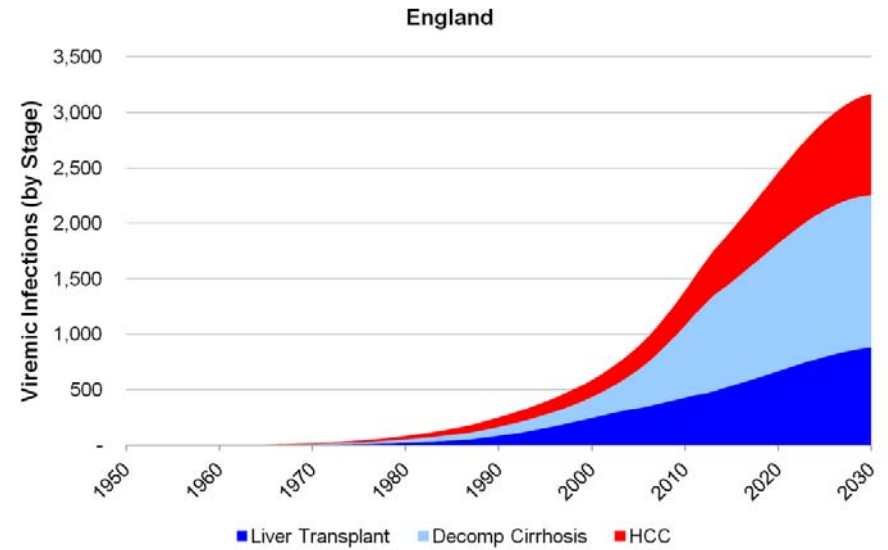
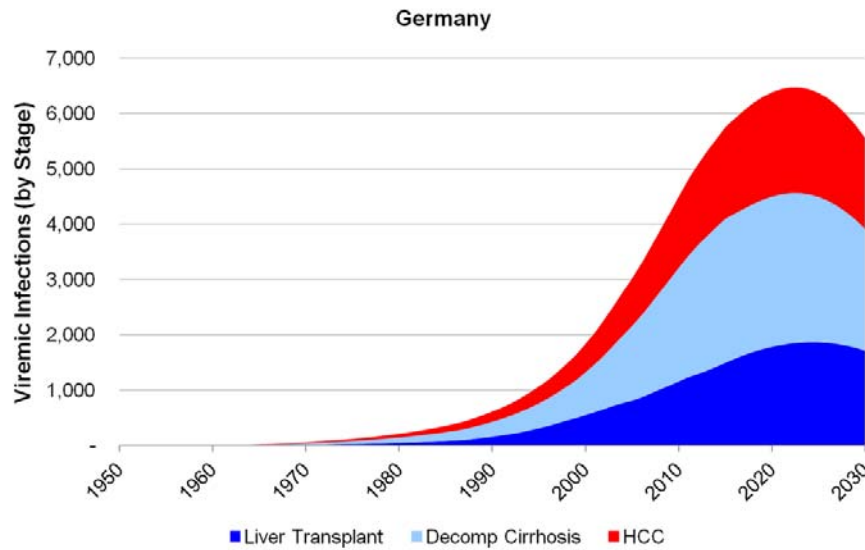
Variables to be considered

E.g. Age

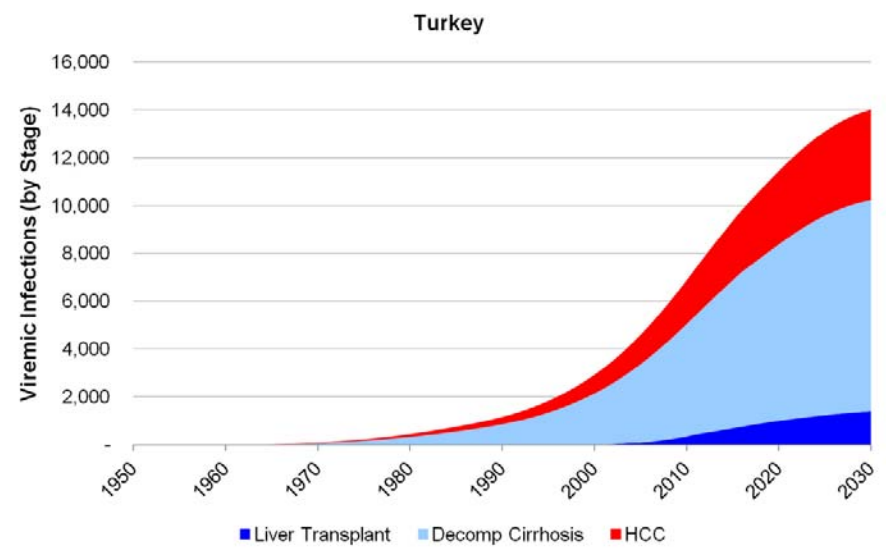
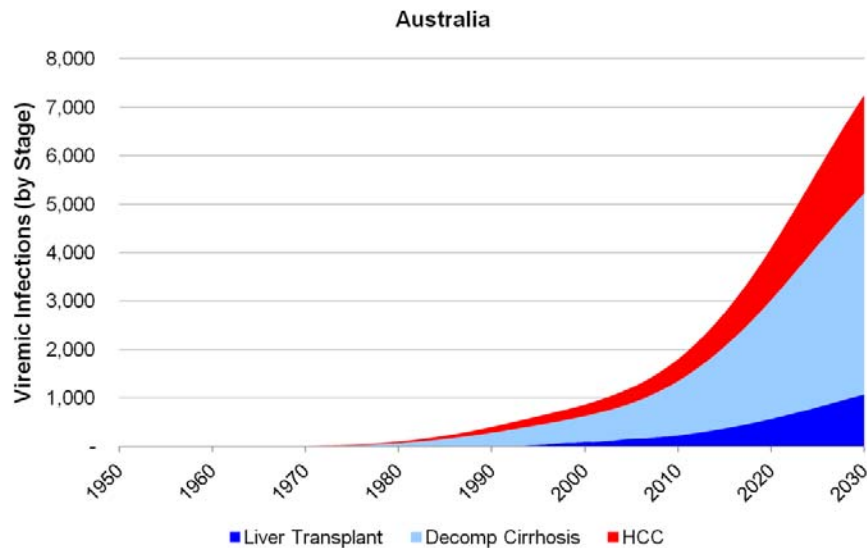
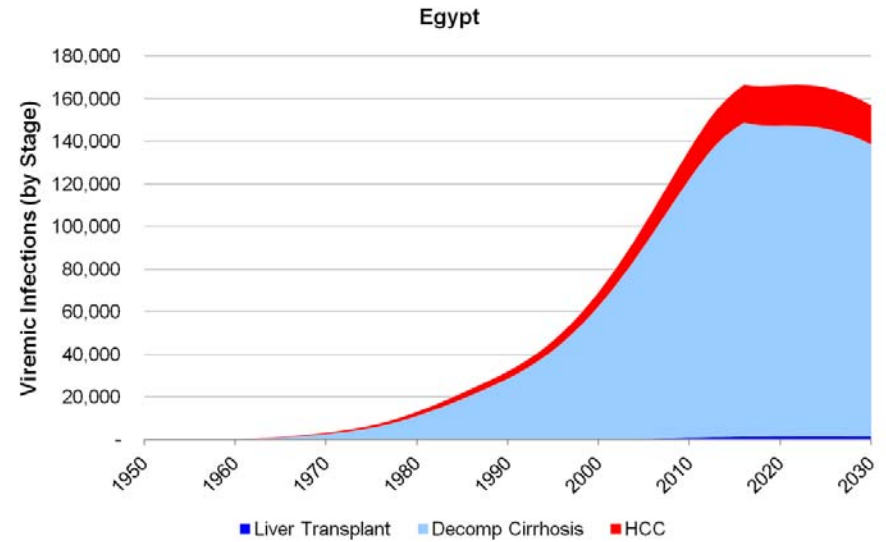
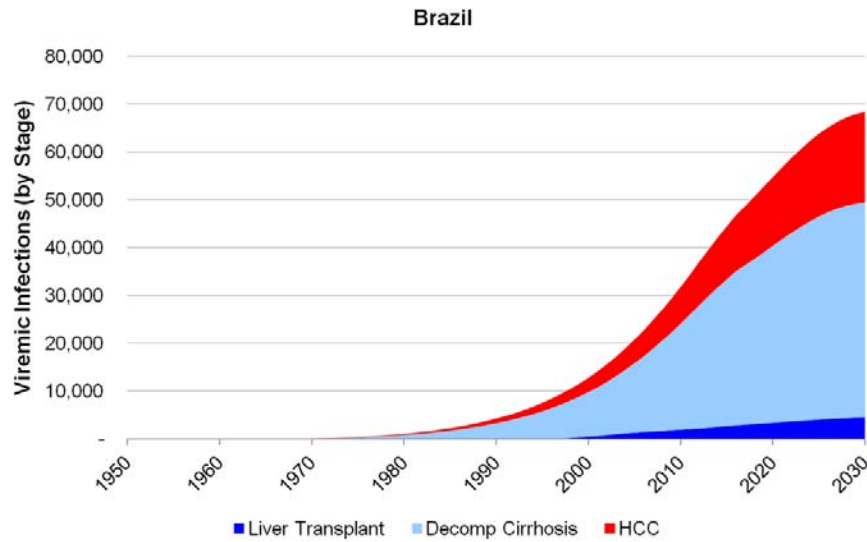
Age distribution, 2013 – Germany, England, France and Spain



HCC, decompensated cirrhosis and transplant, 1950-2030 – Germany, England, France and Spain



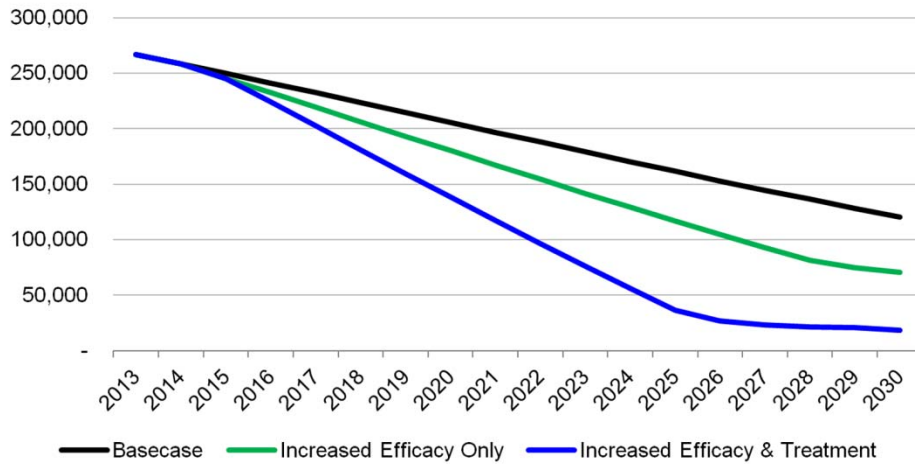
HCC, decompensated cirrhosis and transplant, 1950-2030— Brazil, Egypt, Australia and Turkey



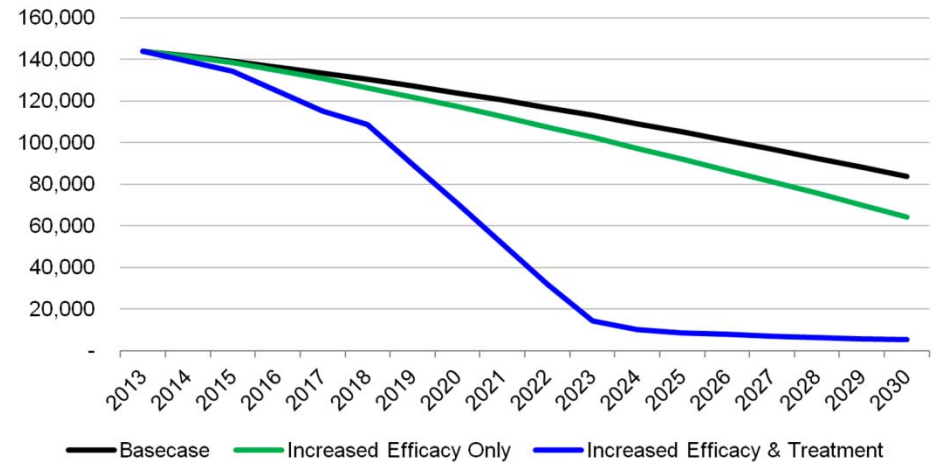
What could be the impact of increasing SVR?

Estimated viremic infections, 2013-2030 – Germany, England, France and Spain

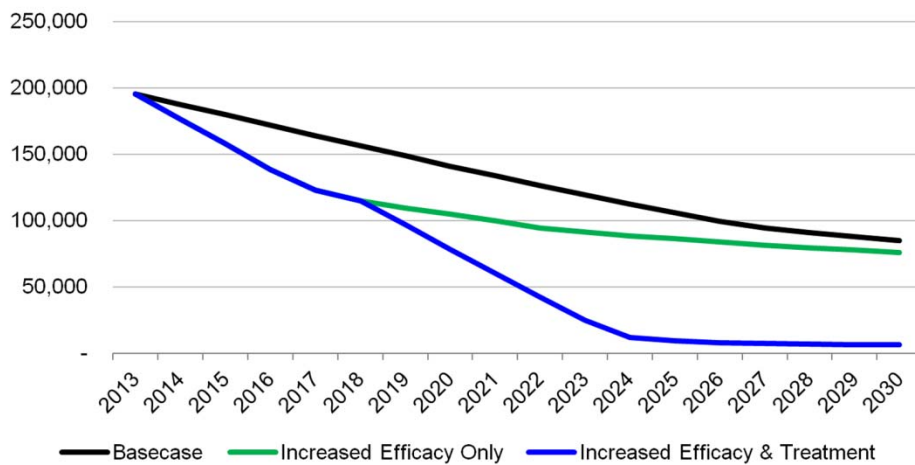
Total Infected Cases (Viremic) - Germany



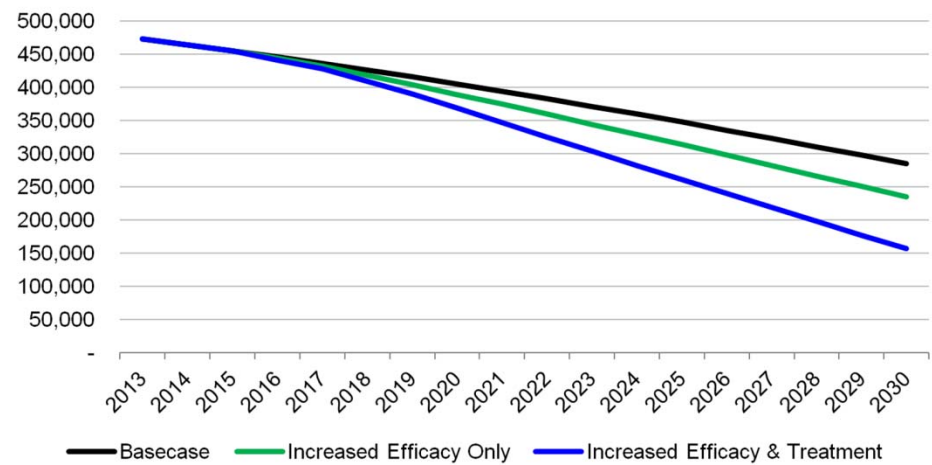
Total Infected Cases (Viremic) - England



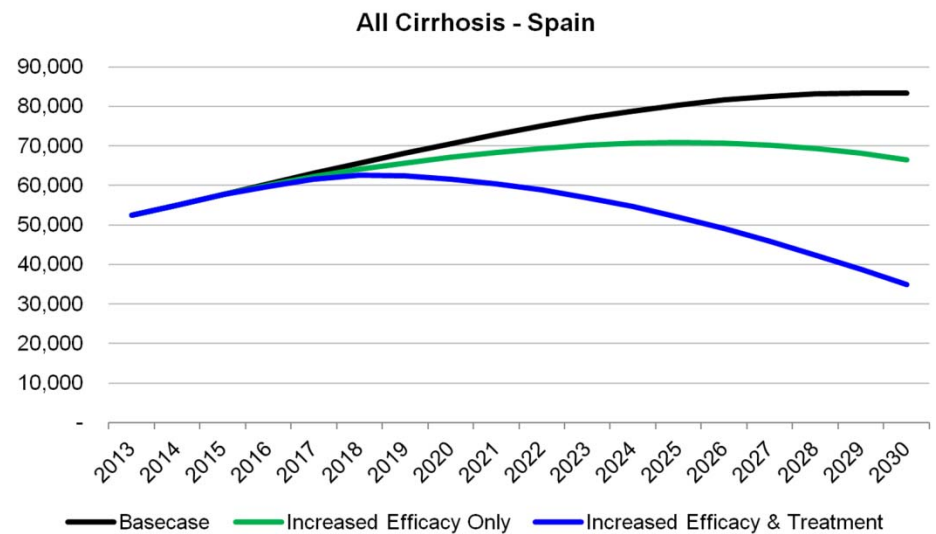
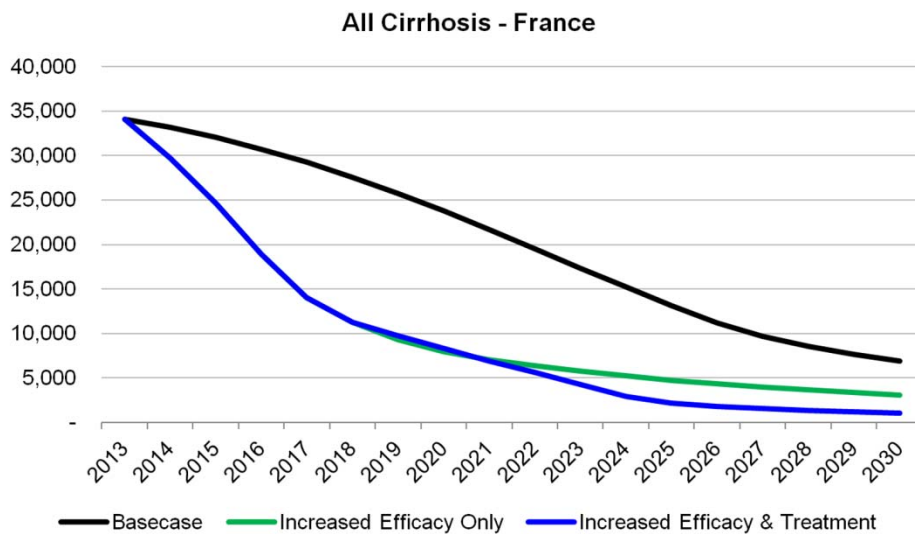
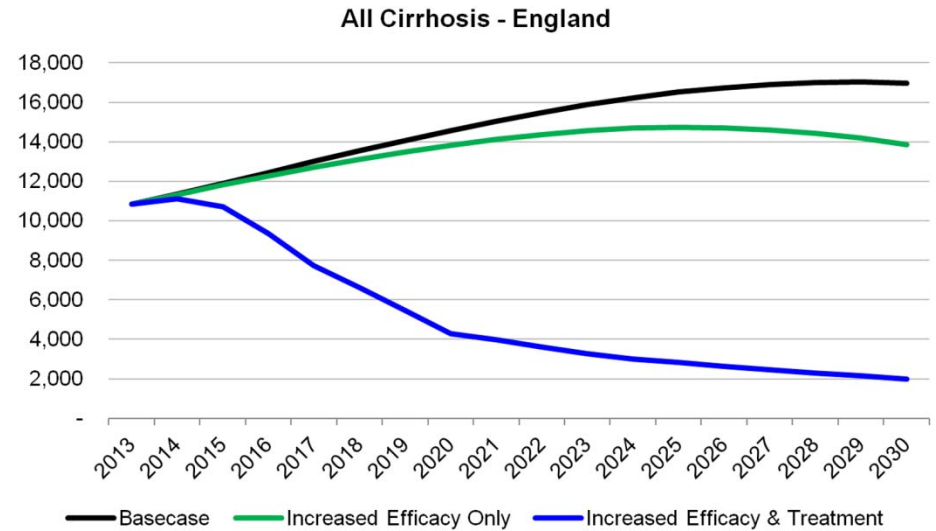
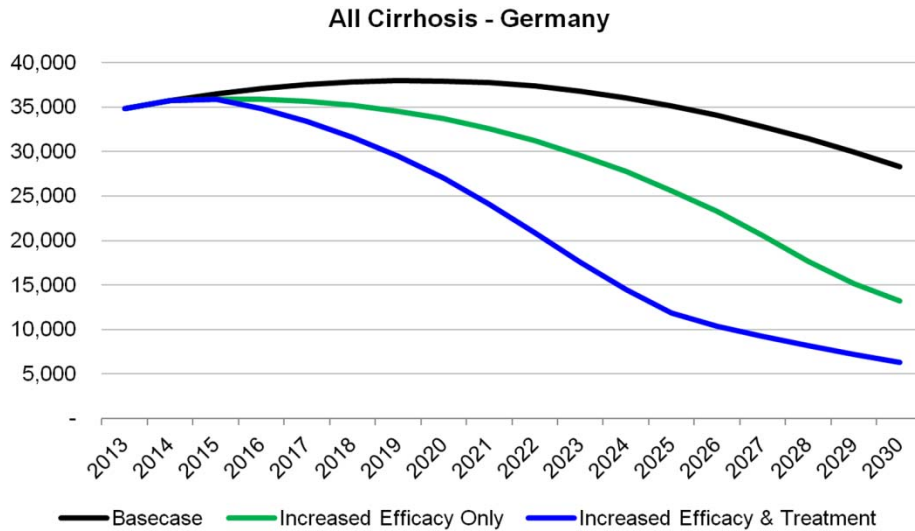
Total Infected Cases (Viremic) - France



Total Infected Cases (Viremic) - Spain

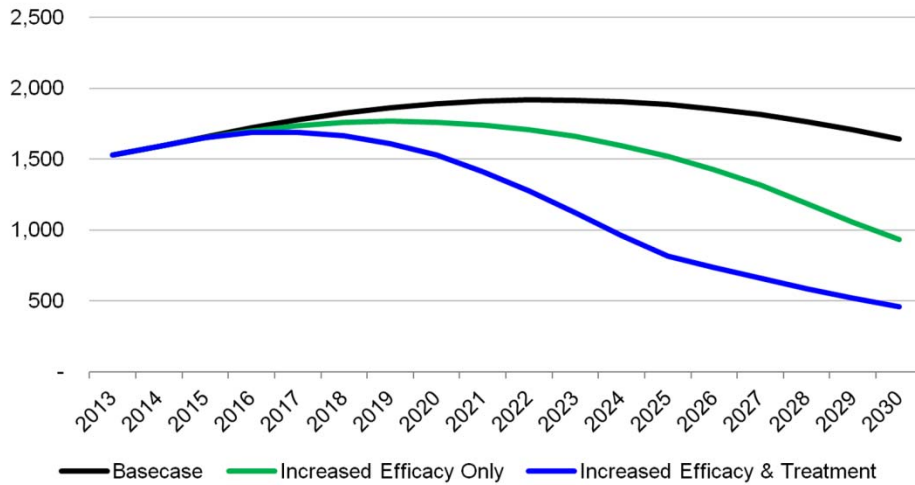


Cirrhosis, 2013-2030 – Germany, England, France and Spain

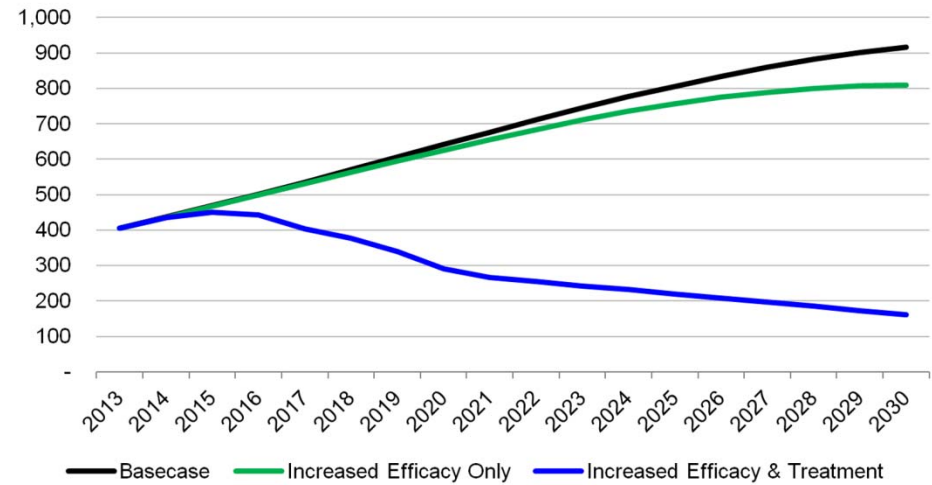


HCC, 2013-2030 – Germany, England, France and Spain

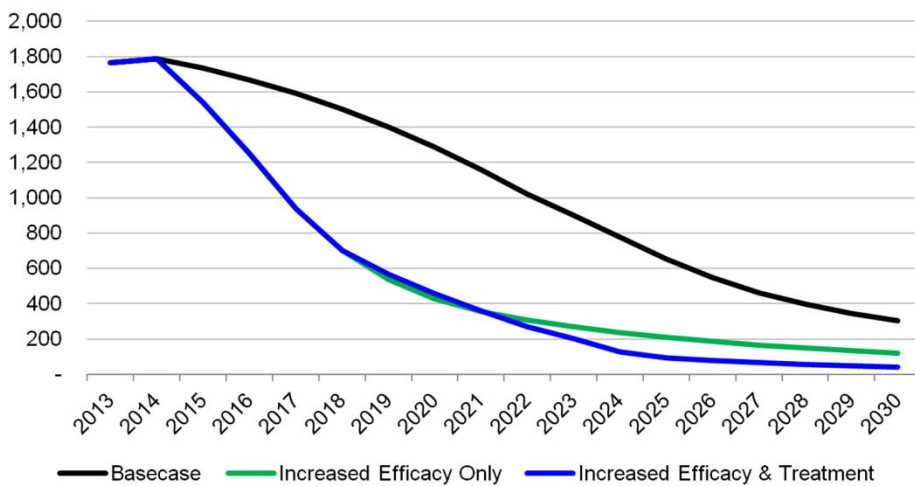
Total HCC Cases - Germany



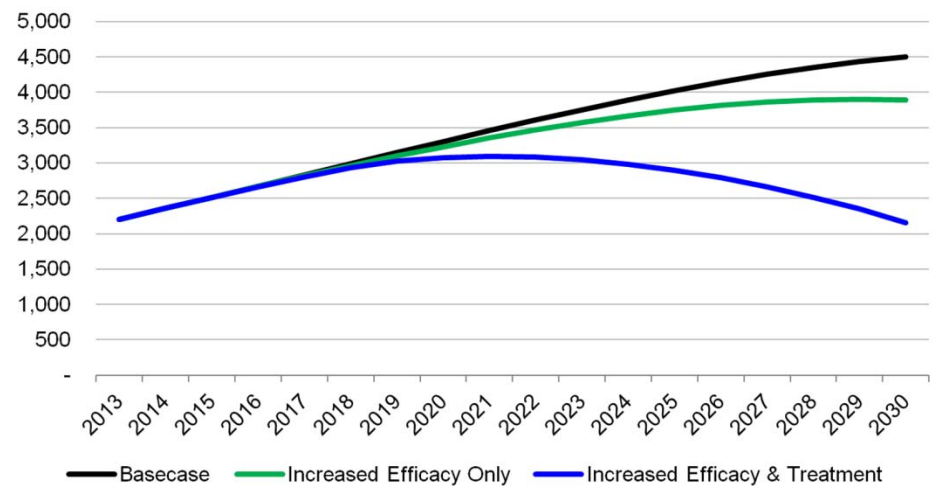
Total HCC Cases - England



Total HCC Cases - France

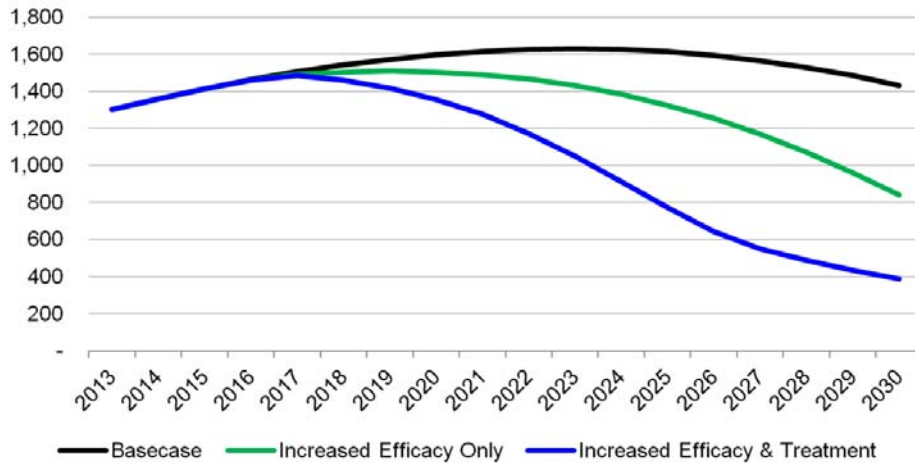


Total HCC Cases - Spain

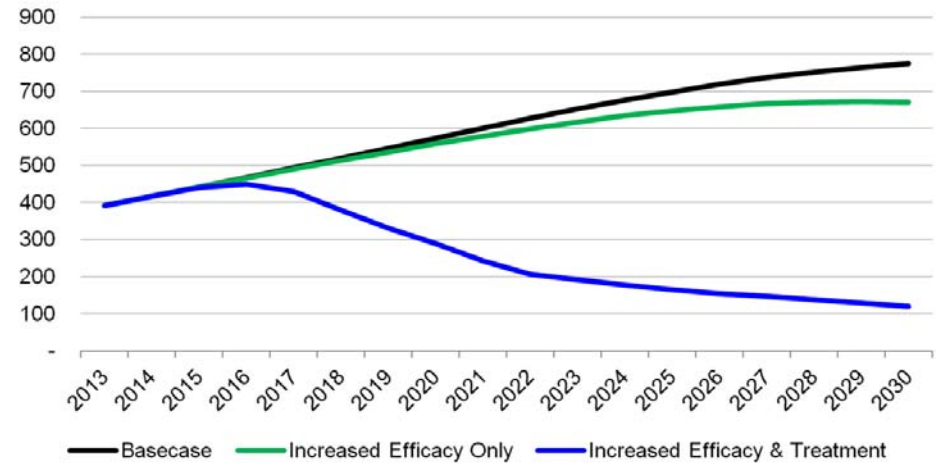


Liver-related deaths, 2013-2030 – Germany, England, France and Spain

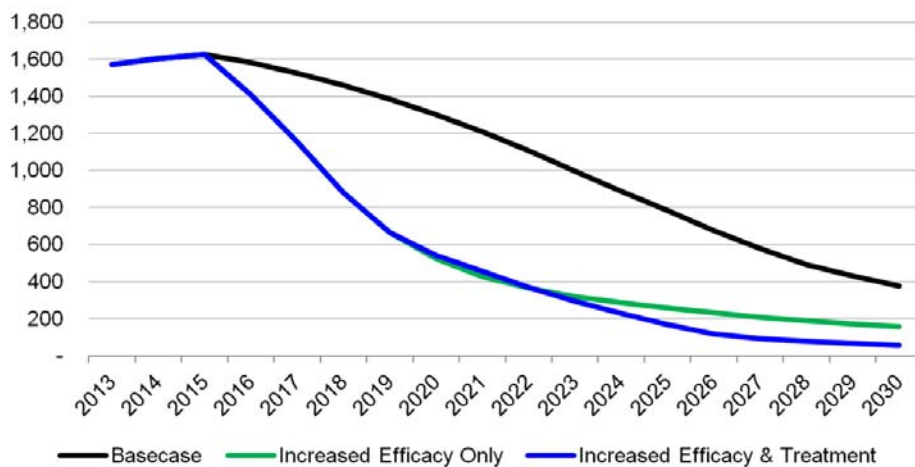
Liver-related Deaths - Germany



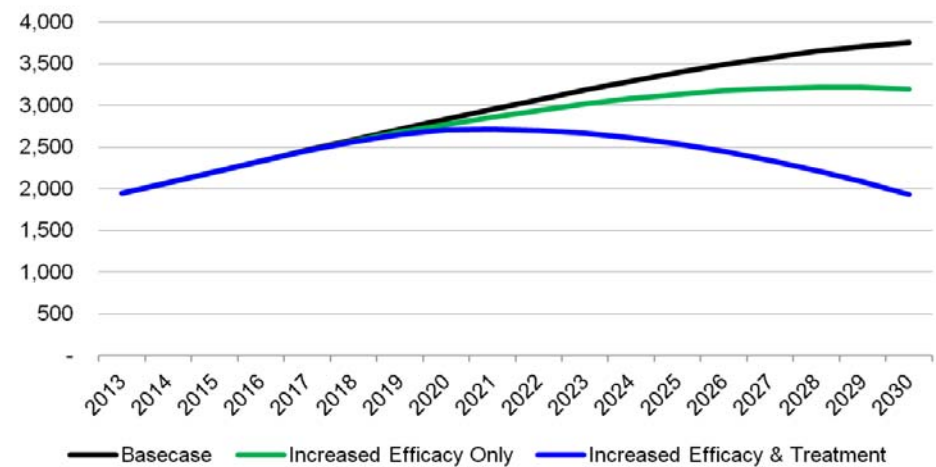
Liver-related Deaths - England



Liver-related Deaths - France



Liver-related Deaths - Spain



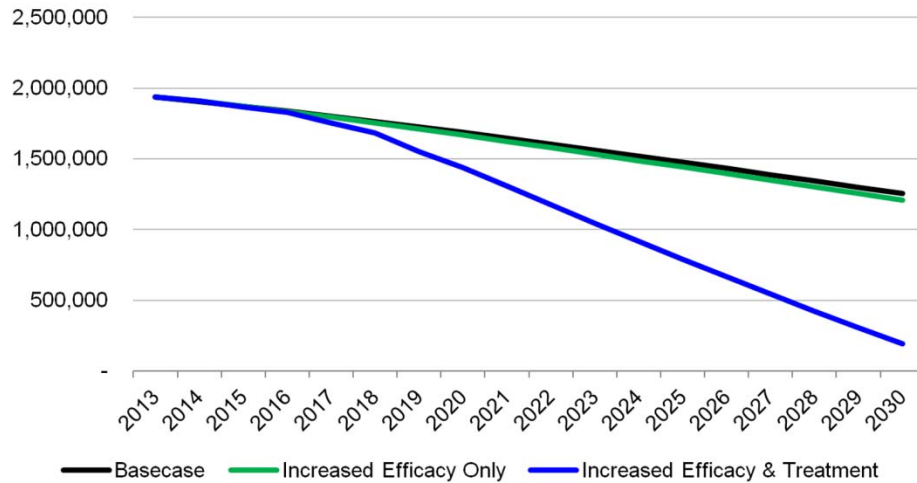
Was kann der Patient noch tun?

Kaffee ist gut
für die Leber

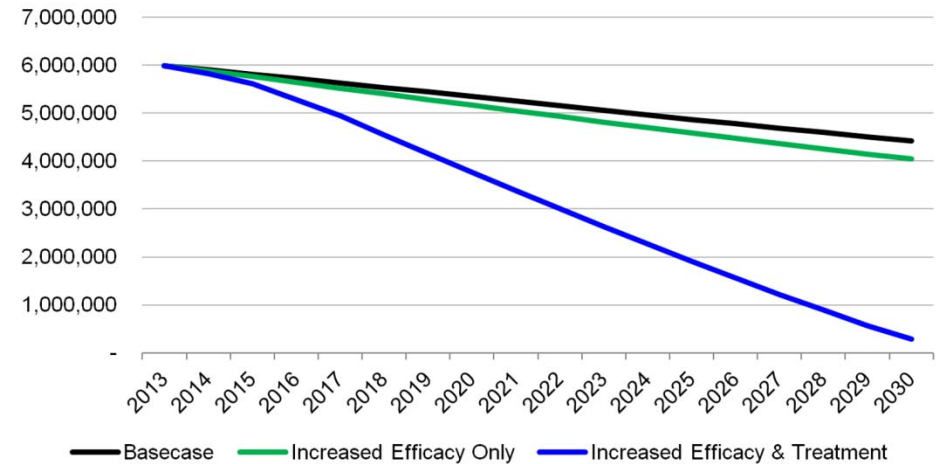


Estimated viremic infections, 2013-2030 – Brazil, Egypt, Australia and Turkey

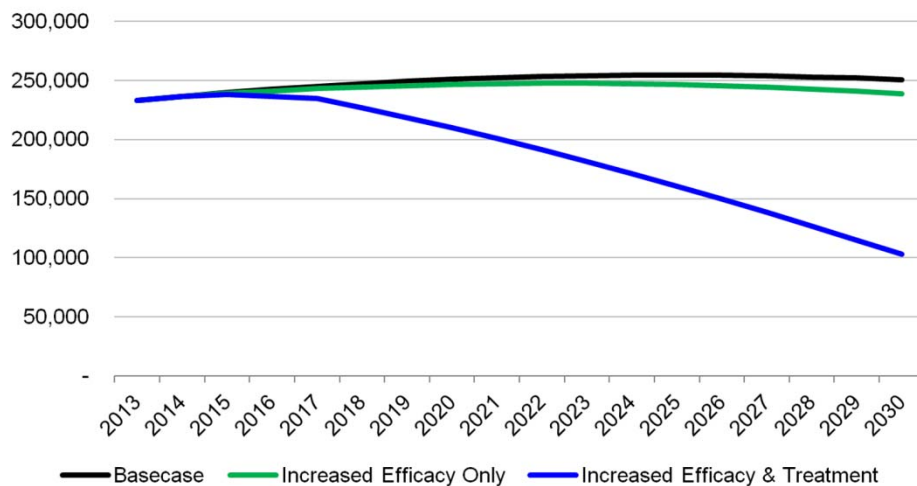
Total Infected Cases (Viremic) - Brazil



Total Infected Cases (Viremic) - Egypt



Total Infected Cases (Viremic) - Australia



Total Infected Cases (Viremic) - Turkey

