Cost-effectiveness of Enhanced Liver Fibrosis test to assess liver fibrosis in chronic HCV and ALD patients

Supplementary material – Utilities and costs

Table S1. Utilities

Parameter	Baseline	Range	PSA distribution*	Source
F0-F1	0.77	0.74–0.80	U(0.74;0.80)	[22]
SVR with F0-F1	0.82	0.77–0.87	U(0.77;0.87)	[22]
F2-F3	0.66	0.60–0.72	U(0.60;0.72)	[22]
SVR with F2-F3	0.72	0.61–0.83	U(0.61;0.83)	[22]
F4	0.55	0.44–0.66	U(0.44;0.66)	[22]
SVR with F4	0.60	–	–	[22]
DC	0.45	–	–	[22]
HCC	0.45	–	–	[22]
LTX	0.45	–	–	Assumption
Post-LTX	0.67	–	–	[22]
Death	0.0	–	–	Assumption
Utility decrement if nonfatal adverse events related to biopsy	0.20	0.10–0.25	U(0.10;0.25)	[23]
Utility decrement during treatment with antivirals	0.11	–	–	[22]

Note: Same utilities for ALD model (SVR states correspond to abstinence states in ALD model)

F0-F1: no fibrosis or mild fibrosis; F2-F3: moderate or severe fibrosis; F4: cirrhosis; DC: decompensated cirrhosis; HCC: hepatocellular carcinoma; LTX: liver transplantation. SVR: sustained virological response.

* PSA: probabilistic sensitivity analysis. In uniform (U) distributions, parameters correspond to minimum and maximum values.

Table S2. Unit costs

Cost item	Baseline (€)	Range	PSA distribution*	Source
Health States (annual cost)				
F0-F1	279	–	–	[18]
F0-F1 and SVR	114			[18]
F2-F3	279			[18]
F2-F3 and SVR	114			[18]
F4	408			[18]
F4 and SVR	165			[18]
DC	1320			[18]
HCC	4850			[18]
Post-LTX	4268			[18]
Death	0			Assumption
Transition costs				
To DC	3505	–	–	[37]
To HCC	7155			[37]
LTX	68904			[37]
Treatment costs				
Sofosbuvir + Ledipasvir (12w)	47000	25000–72000	γ(47000;21020)	[38]
Alcohol detoxification therapy	518	173–1036	γ(518;232)	HCB
Unit cost of tests				
ELF	84.6	63–126	γ(84.6;38)	HCB
LSM	80	60–120	γ(80;36)	HCB
Biopsy	429	322–644	γ(429;192)	HCB

F0-F1: no fibrosis or mild fibrosis; F2-F3: moderate or severe fibrosis; F4: cirrhosis; DC: decompensated cirrhosis; HCC: hepatocellular carcinoma; LTX: liver transplantation. SVR: sustained virological response.
* PSA: probabilistic sensitivity analysis. In gamma (γ) distributions, parameters correspond to mean and standard deviation.