

Supplementary File 2 – Full results of the two-part cost models

Shape of the curve in the second part	Bayesian models				frequentist models			
	Multilevel		Complete pooling		Multilevel		Complete pooling	
	Gamma	Log normal	Gamma	Log normal	Gamma	Log normal	Gamma	Log normal
	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
1st part model	Coeff. (SE)	Coeff. (SE)	Coeff. (SE)	Coeff. (SE)	Coeff. (SE)	Coeff. (SE)	Coeff. (SE)	Coeff. (SE)
Site								
Face	2.68 (0.85)	2.69 (0.84)	1.22 (0.46)	1.23 (0.46)	2.29 (0.82)	2.29 (0.82)	1.11 (0.44)	1.11 (0.44)
Abdominal	1.82 (0.35)	1.82 (0.36)	1.41 (0.21)	1.41 (0.21)	1.77 (0.36)	1.77 (0.36)	1.4 (0.21)	1.4 (0.21)
Throat-larynx	8.49 (2.34)	8.38 (2.36)	3.53 (1.21)	3.54 (1.24)	6.71 (1.95)	6.71 (1.95)	2.88 (1.02)	2.88 (1.02)
Severity								
Moderate	1.12 (0.38)	1.12 (0.37)	0.56 (0.18)	0.56 (0.18)	1.09 (0.39)	1.09 (0.39)	0.55 (0.19)	0.55 (0.19)
High	3.23 (0.56)	3.22 (0.55)	1 (0.25)	1.01 (0.26)	2.92 (0.55)	2.92 (0.55)	0.98 (0.26)	0.98 (0.26)
2nd part model								
Intercept	5.6 (0.11)	5.5 (0.23)	5.61 (0.12)	5.50 (0.21)	6.12 (0.11)	5.61 (0.12)	5.86 (0.11)	6.79 (0.10)
Site								
Face	0.18 (0.04)	0.08 (0.03)	0.2 (0.06)	0.11 (0.04)	0.2 (0.04)	0.18 (0.04)	0.2 (0.06)	0.2 (0.06)
Abdominal	0.1 (0.02)	0.05 (0.02)	0.12 (0.03)	0.05 (0.02)	0.11 (0.02)	0.1 (0.02)	0.11 (0.03)	0.12 (0.03)
Throat-larynx	0.14 (0.05)	0.03 (0.04)	0.23 (0.06)	0.1 (0.04)	0.14 (0.05)	0.14 (0.05)	0.16 (0.06)	0.23 (0.06)
Severity								
Moderate	0.17 (0.03)	0.08 (0.03)	-0.02 (0.04)	-0.02 (0.03)	0.16 (0.03)	0.17 (0.03)	-0.03 (0.03)	-0.02 (0.04)
High	0.27 (0.04)	0.15 (0.03)	0.11 (0.04)	0.04 (0.03)	0.26 (0.04)	0.27 (0.04)	0.08 (0.04)	0.11 (0.04)
Treatment								
pdC1-INH	1.25 (0.12)	1.59 (0.21)	1 (0.1)	0.99 (0.15)	0.75 (0.11)	1.25 (0.11)	0.18 (0.09)	1 (0.1)
lcatibant	1.68 (0.12)	1.94 (0.21)	1.53 (0.1)	1.47 (0.15)	1.18 (0.1)	1.68 (0.11)	0.64 (0.09)	1.53 (0.1)
Time to treatment	0 (0)	0 (0)	0.01 (0)	0 (0)	0 (0)	0 (0)	0.01 (0)	0.01 (0)
Random effects								
σ^2 1st part random effect	0.25	0.07			0.25	0.25		
σ^2 2nd part random effect	18.18	17.86			15.66	15.68		
RMSE	931.65	871.43	847.64	791.23	389.02	463.23	559.36	517.3

RMSE: root mean square error, σ^2 Variance in the intercept random effects