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Predicting survival in cost-effectiveness analyses based on clinical trials

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Table 1. Mean survival time (days) and costs within the clinical trial and total actual and modelled mean survival respectively.

	Undiscounted				Discounted			
	Standard	Enalapril	Diff.	ICER	Standard	Enalapril	Diff.	ICER
Costs (SEK)	21 361	34 711	13 350		21 361	34 711	13 350	
Health effects								
<i>True survival:</i>								
Within trial	159.37	215.32	55.95		159.37	215.323	55.950	
Total follow up	515.53	785.95	270.42	18 019	502.26	767.280	265.01	18 387
<i>Modelled</i>								
<i>Survival:</i>								
Gamma	927.84	1227.50	299.65	16 261	865.87	1145.88	280.01	17 402
Lognormal	902.74	1194.44	291.69	16 705	844.03	1117.11	273.07	17 844
Weibull	574.23	761.75	187.51	25 985	555.63	737.25	181.61	26 830
Exponential	410.64	546.27	135.63	35 925	405.11	539.00	133.88	36 395

Table 2. Upper 95% confidence limit for the ICER based on non-parametric bootstrapping and the Fieller's method (within parenthesis).

	Upper 95% confidence limit	Mean value of the ICER
True	64 881 (61 413)	18 019
Modelled (true)	47 081 (47 561)	18 019
Gamma	54 555 (59 263)	16 261
Lognormal	58 461 (60 643)	16 705
Weibull	90 720 (87 965)	25 985
Exponential	118 284 (115 255)	35 925

Figure 1a. Actual survival (kaplan meier) compared with modelled survival for the placebo group.

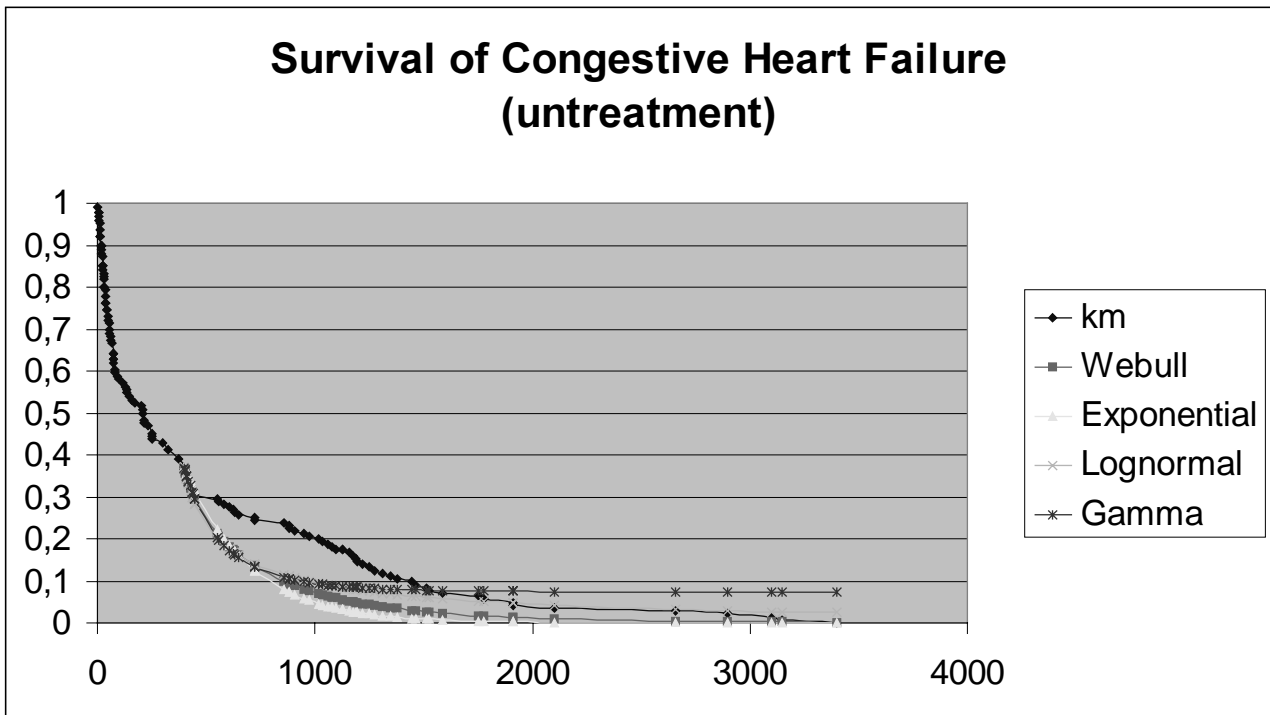


Figure 1b. Actual survival (kaplan meier) compared with modelled survival for the treatment group.

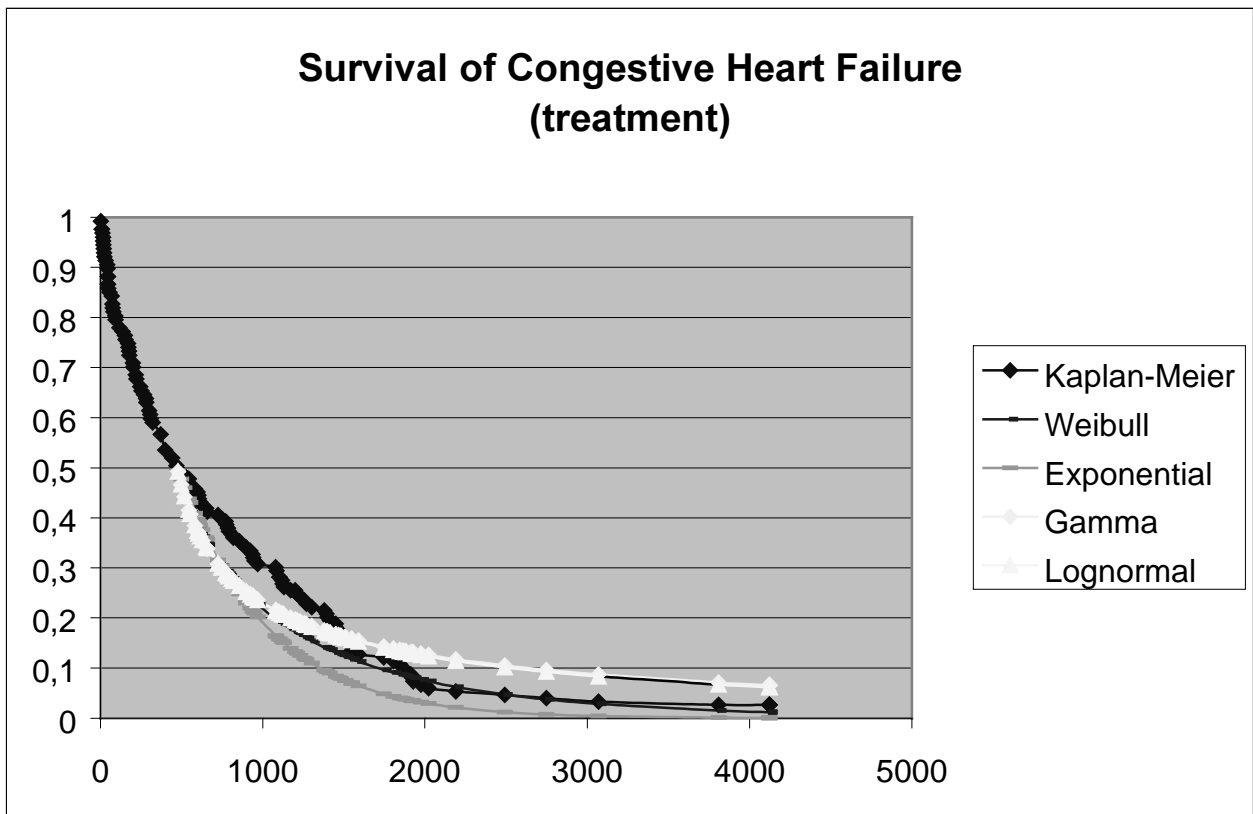


Figure 2. Cost-effectiveness acceptability curves for the actual data, and the different modelling alternatives.

