

Table S4. Output of Cox mixed effects model with bee survival in the treatment groups microbiota presence (microbiota+, microbiota-), virus presence (virus+, virus-) and their interaction as fixed factor and source colony and cage as random factor. Given are the estimates (β), the hazard ratio (Exp. β) the standard error (s.e.), the z-value and the p-value compared with the baseline treatment level (microbiota+ | virus-). For random variables the standard deviation (s.d.) and the variance are given.

parameters	coefficients				
	β	Exp. (β)	s.e. (β)	z-value	p-value
fixed variable					
microbiota presence	0.69	1.98	0.30	2.26	0.024
virus presence	1.40	4.05	0.30	4.71	<0.001
interaction microbiota * virus presence	-0.13	0.88	0.4	-0.31	0.750
random variable	s.d.	variance			
cage	0.439	0.193			
colony	0.361	0.130			