Slide 1	Time to Event Principles for Pharmacometricians Nick Holford Dept Pharmacology & Clinical Pharmacology University of Auckland, New Zealand	Holford N. A Time to Event Tutorial for Pharmacometricians. CPT: pharmacomet syst pharmacol. 2013;2:e43 doi:10.1038/psp.2013.18.
Slide 2	Outline   • The Hazard: Biological basis for survival   • Types of Event and their Likelihood   > Exact time   > Interval censored   > Right censored   • Joint Modelling of Continuous and Event Data	
Slide 3	How Not to Understand Time to Event	This landmark study led to the introduction of statins with a major impact on cardiovascular morbidity and mortality worldwide. However, this Kaplan-Meier plot shows that statins don't seem to have any effect on survival until at least a year after starting treatment. As far as I know there has never been any good explanation of why the benefits of statins are so delayed but when properly analysed this kind of survival data can describe the time course of hazard and give a clearer picture of how long it takes for statins to be effective.

















