3.4 get data: library (KMsurv) data (drug 6 mp) Exact event times and right-consored times present $L = \prod_{i=1}^{n} h(t_i) S(t_i) = \prod_{i=1}^{n} \lambda^{s_i} \exp(-\lambda t_i)$ $= \lambda \cdot exp(-\lambda \Sigma t_i)$ $log(L) = \sum_{i=1}^{n} S_i \cdot log(\lambda) - \lambda \sum_{i=1}^{n} t_i$ $\frac{\partial}{\partial \lambda} \log(L) = \frac{\sum S}{\lambda} - \frac{\sum t}{\sum t}$ 3 log(L) = 0 $\stackrel{\triangle}{=} \frac{\Sigma_{8}}{\lambda} - \sum_{i=1}^{8} t_{i} = 0$ $\frac{\sum S_i}{\lambda} = \sum_{i \neq i}^{M} \ell_i$ $\lambda = \frac{\sum s_i}{\sum t_i}$ "t2" as time variable and "relapse" as status Use variable MLE : sum (drug 6mp Itelapse) /sum (drug 6mp It2) Scanned by CamScanner



