1/20/2023 V. The Log-Rank Test for Several Grayer · Ho: All survival curves are the same.
· Log-rank statistics for >2 groups involve variances . F 0:-E; the test statistic. There is a conversent matrix formula for Use a computer If Gisthe number of grap, then the log-rank statistic is - X2 with G-1 deques of freedom. VI. Alternatives to the Log Rank Test Wilcoxen, Tarone-Wore, Peto, Flemington-Harrington These all apply different weights to the f-th failure This could be of use to my application! Since I'm
The initial condition of the simulation may be
very unlikely under the stationer, distribution, but as
the simulation goes on, the initial condition for
each newage will be more likely under the
stationary distribution; thousand, it could be useful
to assign higher weights to later newages. Wilcoson Test: · Weight at be is no 150' earlier failures have higher weight. Madrie Sports (O-E) [(OV]-(O-E)

M

Weighte Used for Various Test Statistics  $w(t_{G})$ Test statistic note. Nevery log rank "The Jurvival Wilcom ertimate." Terme-Work  $\frac{3(t_{(f-1)})^n \times [1-3(t_{(f-1)})]^q - p \nmid q \text{ are parameter}}{\text{the user sets}}$ Peto Flemington - Horrington The best choice is the fest with the most power. There may be clinical reasons to choose a given weighing (i.e., use Wilcoxen or Tarone-Ware if the discitant to known to wear off over time.

Those weights a priori. No p hacking! Stratified log rank test • O-E sweet inhulated within strata · O-E scores Hen summed across state · Allows control over the stratified variable. · ledures the sample size in each stratum. Oh 3 shows how modeling can be used to fest an amortistion of a predictor variable white simultaneously controlling for other covariates. VII. Confidence intervals for KM curves Sim(t) = 1.96 Var[ Sim(t)], where Green woods Journals is given by failures of tol Var[Sim(t)]= (Sim(t)) & (mi) (mi) mg) VIII. Confidence internals for the westign survival time. Dan't need this right now.

Cox Proportional Hazards Model and Its Christeratics A Ch. 3: The Introduction Cox proportional hazard model similarly between linear regression model, properties, assumptions, etc. why to use "age as the time scale" follow-up" as the oxtcome variable and \* Describe how "time in follow - up" as rather than