1/14/2023: I did some scratchwork to calculate the hazard function. but I've stalled on it for a while Right arm, I just want to continue learning survival analysis. X. Moth models in survival analysis Describe relationship between exposure variable E and outrome variable D after controlling for the possible confounding and interaction effects of additional variables. C. p E: social network index SNI D: survival time variable Ci: AGE (2: systelic blood preme SBP (3. chanic disease CHR
(4: Quetelets body size index QUBT
(5: social class SOCL Survival analysis Time to event w/ consumy No Linear regression Continues output fellow into. Logistic requires Dichotomons out put Ore goal of survival analysis is to obtain some measure
of effect describing the exposure-ortoone relationship
adjected for relevant extractions variables.

Model Meane et offert

Linear regression & require coefficient Logittie regimes es adds ratio Servival analysis el hazard ratio

Hazard rates is the hazard given that you're exposed over the hazard given that you're not X1: Consoring Assumption There me three assumptions about censoring: Independent ansoring · Random ansering · Non-informative consoring Independent consoring is the most useful and affects ralidity.
Random consering is a stronger assumption, random => independent Landon censering: subjects who are centred at time t should be representative of all the study subjects who remained at risk at time t with respect to their survival experience. h Centural (t) = hors Convoid (t) Independent concorny: Within any subgroup of interest the What? subjects who are consored out time t should be representative of all the subjects in that subgroup who remained at risk at time t w.r.l. their survival I need to be careful about how I design my experiment. The way I have it some I design my I believe I should only track one message at a time. The reason is that if I track two or more messages, then they are competing for nodes so the survival of one may make the extinction of another may make the extinction of another more likely.

Another thing to consider is what the ergodicity adjustment autually means. For an E-BrAn(A, B) system, the smaller E is, the slower the rate of convergence to the stationary distribution. So I may want to set E to something non-negligible so that convergence is faster, maybe 10<sup>-3</sup>.

The yes, also, tracting one necesser at a time means that the simulation rens large, hence the initial state for a given message is more and more likely to be distributed a coording to the stationary distribution as the message number grows. This means thust it someone manages to distribution, then these predictions can actually be tested. tested.