**Key concepts of survival analysis which would be good to start with:**[**https://stats.oarc.ucla.edu/wp-content/uploads/2025/02/survival\_r\_full.html**](https://stats.oarc.ucla.edu/wp-content/uploads/2025/02/survival_r_full.html)

* Survival function
* Hazard function
* Cumulative hazard
* Censoring
  + we need right censoring
  + we assume non informative censoring for our studies
* How is the data set up for survival analysis
  + Fist without any predictors/ covariates
  + It is important to you understand how you calculate the variable “time” using information about
    - Treatment initiation date
    - Date of censoring: e.g. due to event happening, end of data, other censoring reason
* Kaplan-Meier plot to compare survival analysis
* Cox proportional hazard models (here we include covariates)