






- Survival and hazard functions
- Customizing risk models to individual patients
- Non-linear risk models with survival trees
- Evaluate survival models
- Quiz week 4
- Assessment: Cox Proportional Hazards and Random Survival Forests

 **Programming Assignment:** Cox Proportional Hazards and Random Survival Forests  
3h

Congratulations!

-  **Video:** Congratulations!  
1 min
-  **Reading:** Congratulations on finishing course 2!  
10 min

 **Reading:** Acknowledgements  
10 min

 **Reading:** Citations  
10 min



# Citations

## Week 1

Dataset is synthetic, so none other than technical references.

[Chads-vasc risk score](#)

[MELD score](#)

[ASCVD+](#)

## Week 2

Data: [NHANES I](#) links, [references](#).

[Data in SHAP library](#).

Also used this [notebook](#) by the creator SHAP, Scott Lundberg, as a loose reference when developing the assignment.

## Week 3

[Lifelines library](#).

Lifelines is also the source of the dataset. It in turn sources its data from [StatsDirect](#), which takes it from [Arbitrage and Berry](#).

## Week 4

[PBC Dataset Dataset](#)

[Cox Model](#)

[Random survival forest](#)

[Harrell C-Index](#)

Mark as completed