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applied statisticians who actively analyze clinical data in collaboration with clinicians, the analyses of the different data sets throughout the book demonstrate how predictive models can be obtained from proper data sets.

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...

In contrast, Dynamic

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Prediction In Survival Analysis

focuses on dynamic models for the remaining lifetime at later points in time, for instance using landmark models.

Designed to be useful to applied statisticians and clinical epidemiologists, each chapter in the book has a practical focus on the issues of working with real life data.

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Analysis. Dynamic

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Summary. There is a

huge amount of

literature on statistical

models for the

prediction of survival

after diagnosis of a

wide range of diseases

like cancer,

cardiovascular disease,

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and chronic kidney disease. Current practice is to use prediction models based on the Cox proportional hazards model and to present those as static models for remaining lifetime after diagnosis or treatment.

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Convolutional

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Accurate prediction of
disease trajectories is

critical for early

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timely treatment of

patients at risk.

Conventional methods

in survival analysis are

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often constrained by
strong parametric
assumptions and
limited in their ability
to learn from high-
dimensional data.

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Analysis. Boca Raton:
CRC Press, <https://doi.org/10.1201/b11311>.

COPY. There is a huge
amount of literature on

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statistical models for the prediction of survival after diagnosis of a wide range of diseases like cancer, cardiovascular disease, and chronic kidney disease.

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III Dynamic prognostic
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Recently, plots of the

Mean Residual Life

(Alvarez-Iglesias et al.

2015) and Dynamic

Prediction of survival

(Houwelingen, H.C. and

Putter, H. 2012) have

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graphical...

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The prediction model estimates the dynamic probability of surviving an additional five years from a prediction time point t_p called dynamic overall survival (DOS). From time of surgery predictions of 5-year

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2.2.

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Dynamic prediction

of overall survival

for patients with ...

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predictions by

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in a dynamic setting

Landmark prediction
model Application

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Dynamic prediction in
multi-state models

Multi-state models in
clinical ...

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Both a static prediction
model and a dynamic
landmark model were
used to provide

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Predictions of a 2-year horizon time for diabetes-free survival, updated at 1, 2, and 3 years post-baseline i.e., predicting diabetes-free survival to 2 years and predicting diabetes-free survival to 3 years, 4 years, and 5 years post-baseline, given the patient already survived past 1 year, 2 years, and 3 years post-baseline, respectively.

Dynamic risk

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**prediction for
diabetes using**

biomarker ...

Figure 4 shows the 5-year ($w = 5$) dynamic survival rate of these patients at different prediction times

between the time of diagnosis and 10 years after diagnosis, as derived from model 3.

The probability of being alive 5 years ($w = 5$) after diagnosis ($s = 0$) was 79.1%,

97.2%, and 67.4% for

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patients A-C,
respectively.

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**Dynamic prediction
and prognostic
analysis of patients**

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Dynamic prediction has an intuitive expression associated with the estimated probability of event occurrence within $(t, t + w)$, assuming that the patient is at risk at prediction time t . For univariate survival

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**Dynamic prediction
of repeated events
data based on ...**

Companion Package to

"Dynamic Prediction in

Clinical Survival

Analysis" The dynpred

package contains

functions for dynamic

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Analysis
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Documentation**

MATCH-Net: Dynamic
Prediction in Survival
Analysis using
Convolutional Neural
Networks. 11/26/2018

• by Daniel Jarrett, et
al. • University of
Oxford • 0 • share.

Accurate prediction of
disease trajectories is
critical for early
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Conventional methods
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existing neural network

models ...

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Analysis Houwelingen,
Hans van

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AUC range from 4% to

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8% for early predictions when compared with a recent state-of-the-art representative for ICU mortality prediction. In particular, models for the Cardiac ICU population achieve AUC numbers as high as 0.88, showing excellent clinical utility for early mortality prediction. Finally, we present an

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