

PrognosTILs app

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Homepage

Graphical interface for survival prediction according TILs

prognosTILs

≡

- Home
- Obtain survival predictions
- Prepare a report
- Predictions for patient series

Purpose

Using pooled individual data of 9 studies (n=2148 patients), we have developed an integrated survival prediction model for early stage triple negative breast cancer patients, based on standard clinicopathological factors and stromal tumour infiltrating lymphocytes (TILs). The model has been shown to have satisfactory discrimination and calibration across studies (see Loi et al 2018). This tool has been designed to facilitate the use of this predictive model.

Outcome prediction

Available outcomes

This tool has been designed to calculate different indicators for a given time:

- Survival probability
- Cumulative incidence (event probability before the given time)

Different survival event may be considered:

- Invasive disease-free survival (iDFS)
- Distant disease-free survival (D-DFS)
- Overall survival (OS)

Patient profiles

This app allows to compare the desired indicators for different patient profiles, according their clinical factors (age, number of positive nodes, tumor size, tumor histological grade and treatment) and their value of TILs. The indicators can also be compared for the same profile.

App features

Users can export the results in a report document using different formats (pdf, docx or html). Different patient profiles can be created and compare them using the graphical illustration of their prediction according to the TILs value. Predictions for specific values of TILs can be obtained, which will be reported in tables in the final document. Users can save particular comparisons to report them in the final document. Add descriptions (which will be reported in the final document) to facilitate your final choice.

References

Loi et al (submitted)

Disclaimer

The survival prediction tool is not intended to replace medical decisions made by health professionals. The authors of this prediction tool will not be liable for any interpretation or decision based on the survival predictions made by this tool.

Some issues with this app?

Please contact Damien Drubay: damien.drubay@gustaveroussy.fr.

Welcome to the survival prediction according stromal TIL value app
Get a report according to your analyses in graphical interface

Score several patients from data (predict their survival)

GRAPHICAL INTERFACE

Survival or cumulative incidence ?



Which survival event ?

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function:

Survival

Select type of survival event:

iDFS

Which survival time (years):
0 5 10
0 1 2 3 4 5 6 7 8 9 10

Age (years):
20 50 85
20 27 34 41 48 55 62 69 76 83 85

Number of positive nodes:
0 20
0 2 4 6 8 10 12 14 16 18 20

Tumor size (cm):
]0; 2]
0; 2

Histological grade:
Grade 3
Grade 3

Treatment:
Anthracycline + Taxane
Anthracycline + Taxane

Profile of your patient

Profiles

Profile 1

Predicted survival

1.00
0.75
0.50
0.25
0.00

0 25 50 75 100

Stromal TILs (%)

The survival of the patient according its stromal TILs value (in %)

Get the prediction at a specific value of TILs?

GRAPHICAL INTERFACE

prognosTILs

- Home
- Obtain survival predictions
- Prepare a report
- Predictions for patient series

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Reset profiles Reset prediction table

Select type of survival function:

Survival

Select type of survival event:

iDFS

Which survival time (years):

5

Age (years):

50

Number of positive nodes:

11

Tumor size (cm):

> 5

Histological grade:

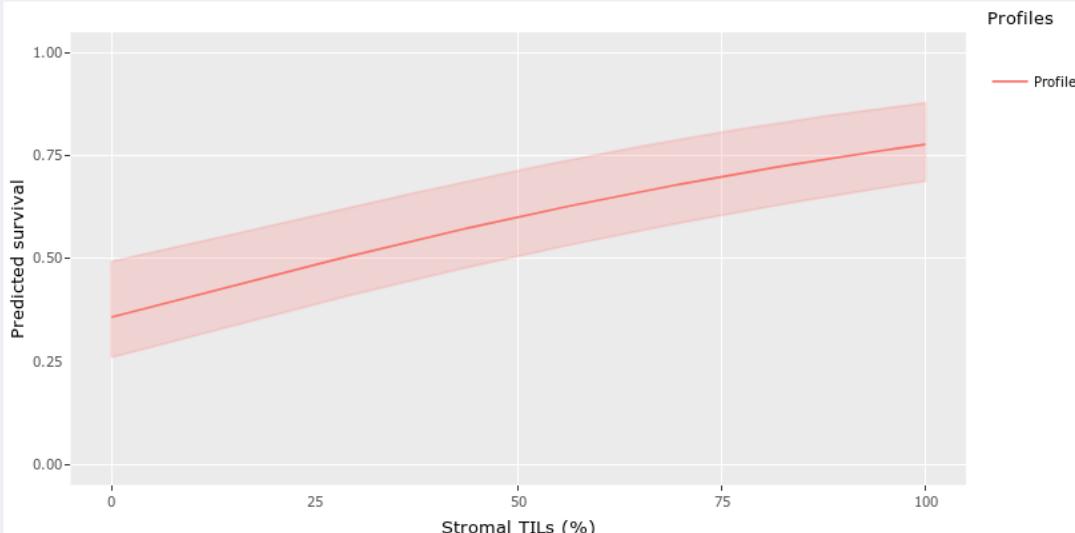
Grade 3

Treatment:

Anthracycline

**Do you want to compare to another patient ?
Add a new profile !**

Plot dynamically updated with change of the patient profile



Profiles

Profile 1

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

Get Save comparison

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm): [0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm): [0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Reset profiles

Reset prediction table

Profiles

Profile 1

Profile 2

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

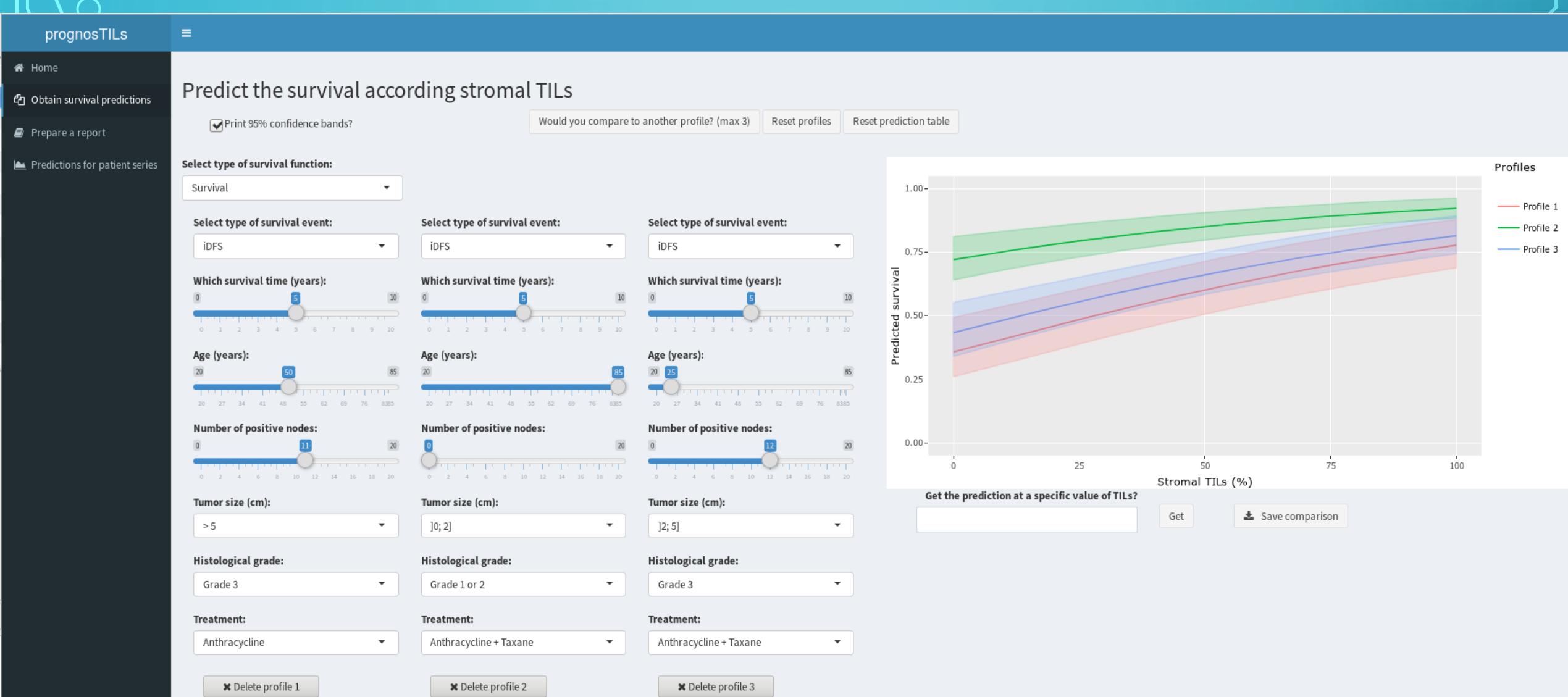
Save comparison

Until 3 different profiles are supported by the app
Add another ?

× Delete profile 1

× Delete profile 2

GRAPHICAL INTERFACE



GRAPHICAL INTERFACE

prognosTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 25

Number of positive nodes: 12

Tumor size (cm):]2; 5]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

The plot displays Predicted survival on the y-axis (0.00 to 1.00) against Stromal TILs (%) on the x-axis (0 to 100). Three curves represent different profiles: Profile 1 (red), Profile 2 (green), and Profile 3 (blue). Each curve is surrounded by a shaded 95% confidence band. A red arrow points to a tooltip for Profile 3 at 50% TILs, which shows the following details:

stromal_TILs: 50
Prediction: 0.6612470
lower: 0.5840367
upper: 0.7486646
Profiles: Profile 3
Profiles: Profile 3

Get the prediction at a specific value of TILs?

Interactive plot!
You can have details just using
your mouse!

GRAPHICAL INTERFACE

prognosTILs



Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Reset profiles

Reset prediction table

Select type of survival function:

Survival

Select type of survival event:

iDFS

Which survival time (years):



Age (years):



Number of positive nodes:



Tumor size (cm):

> 5

Histological grade:

Grade 3

Treatment:

Anthracycline

Select type of survival event:

iDFS

Which survival time (years):



Age (years):



Number of positive nodes:



Tumor size (cm):

]0; 2]

Histological grade:

Grade 1 or 2

Treatment:

Anthracycline + Taxane

Select type of survival event:

iDFS

Which survival time (years):



Age (years):



Number of positive nodes:



Tumor size (cm):

]2; 5]

Histological grade:

Grade 3

Treatment:

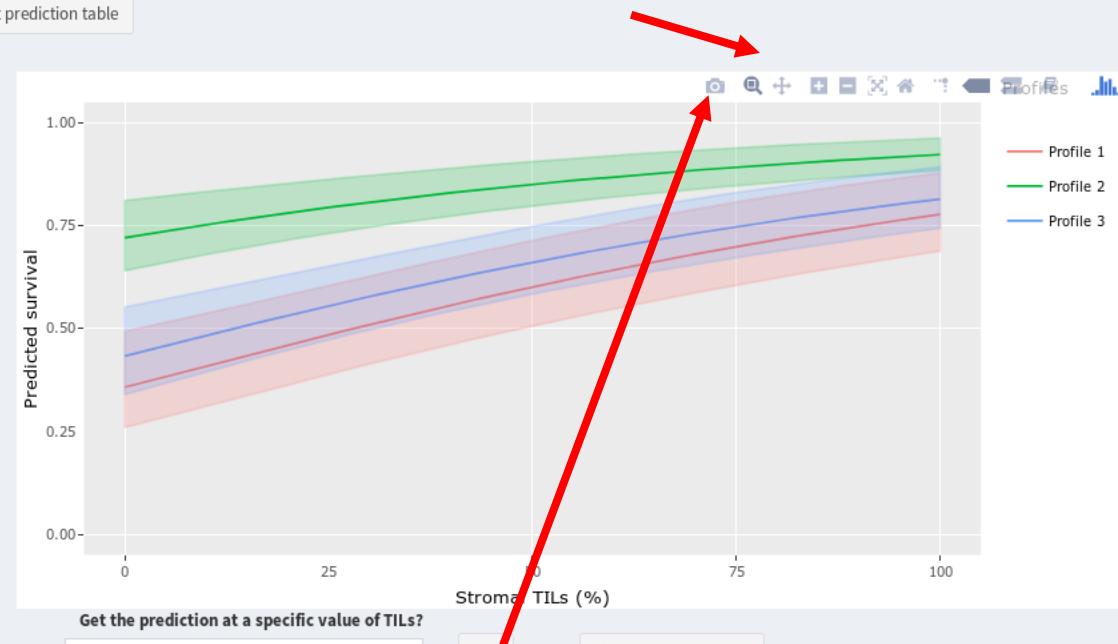
Anthracycline + Taxane

Delete profile 1

Delete profile 2

Delete profile 3

Zoom and graphic manipulation options



Download as png (non interactive,
but useful for illustration in report)

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 25

Number of positive nodes: 12

Tumor size (cm):]2; 5]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

Profile 1

Profile 2

Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

Zoom may also be realized defining an area of the graphic maintaining the left click of the mouse

GRAPHICAL INTERFACE

prognosTILs



Home

Obtain survival predictions

Prepare a report

Predictions for patient series

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Reset profiles

Reset prediction table

Select type of survival function:

Survival

Select type of survival event:

iDFS

Which survival time (years):

5

Age (years):

50

Number of positive nodes:

11

Tumor size (cm):

> 5

Histological grade:

Grade 3

Treatment:

Anthracycline

Select type of survival event:

iDFS

Which survival time (years):

5

Age (years):

85

Number of positive nodes:

0

Tumor size (cm):

]0; 2]

Histological grade:

Grade 1 or 2

Treatment:

Anthracycline + Taxane

Select type of survival event:

iDFS

Which survival time (years):

5

Age (years):

25

Number of positive nodes:

12

Tumor size (cm):

]2; 5]

Histological grade:

Grade 3

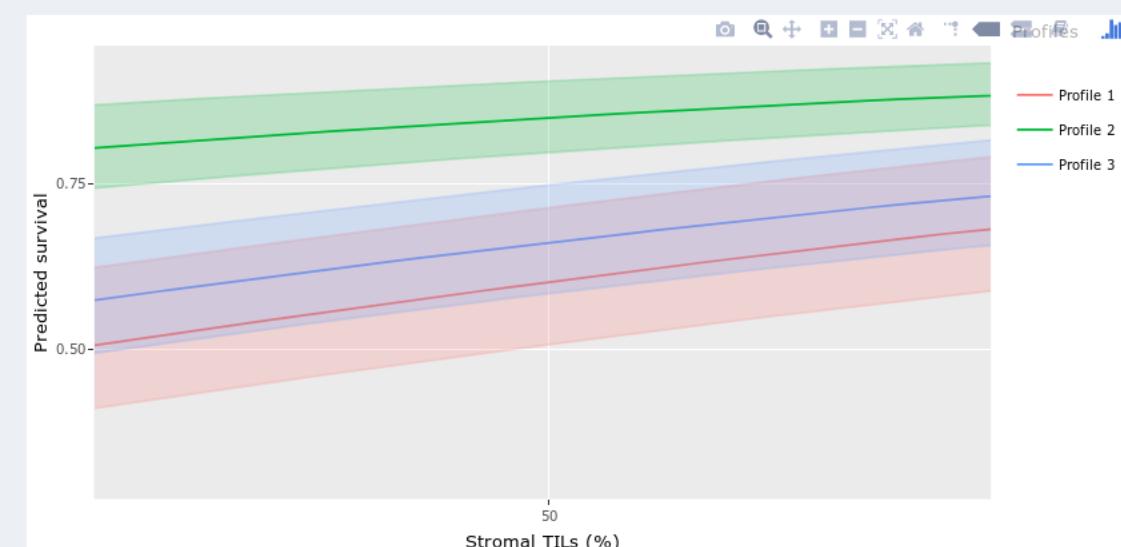
Treatment:

Anthracycline + Taxane

Delete profile 1

Delete profile 2

Delete profile 3



Get the prediction at a specific value of TILs?

Get

Save comparison

Double mouse left click on the graphic
to go back to full plot view

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 35

Number of positive nodes: 10

Tumor size (cm): [0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

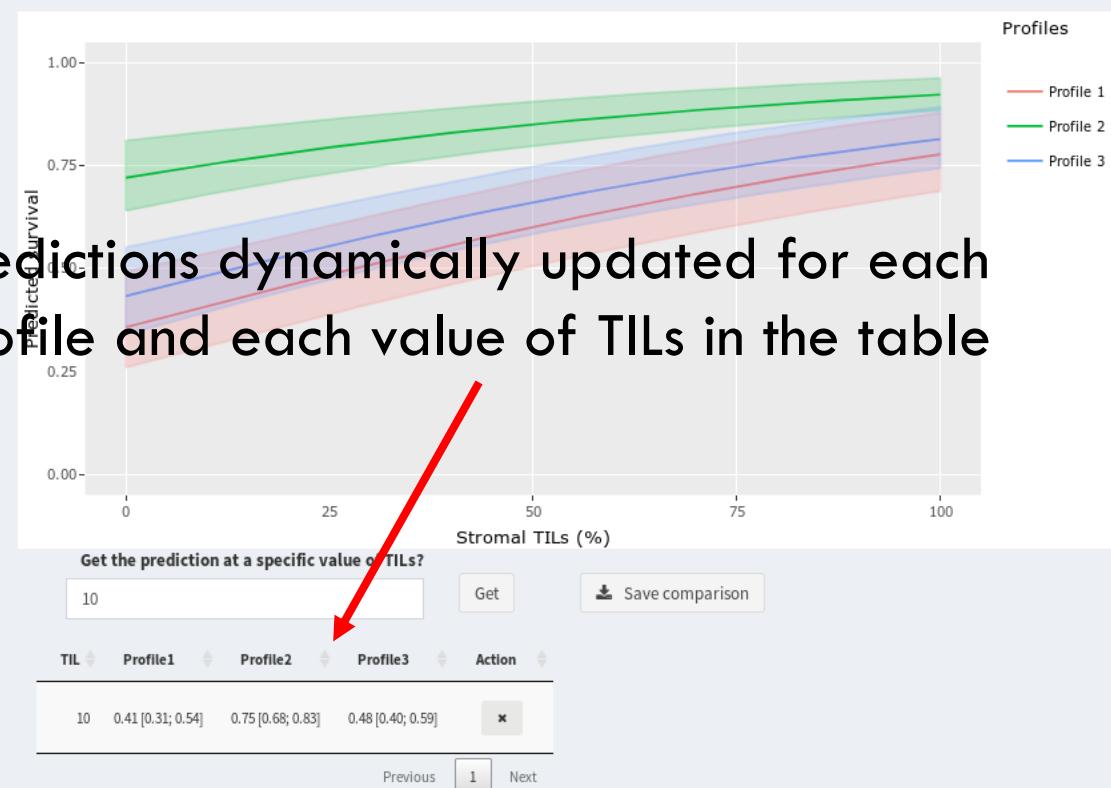
Age (years): 25

Number of positive nodes: 12

Tumor size (cm): [2; 5]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane



GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 25

Number of positive nodes: 12

Tumor size (cm): 2; 5

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm): 1; 1

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

!!!!!! TILs values rounded
+ value constrained to
be between 0 and 100
(because %)

Profiles

- Profile 1
- Profile 2
- Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs? 12.5

TIL	Profile1	Profile2	Profile3	Action
10	0.41 [0.31; 0.54]	0.75 [0.68; 0.83]	0.48 [0.40; 0.59]	<input type="button" value="x"/>
13	0.42 [0.33; 0.55]	0.76 [0.69; 0.84]	0.50 [0.41; 0.60]	<input type="button" value="x"/>
20	0.46 [0.36; 0.58]	0.78 [0.72; 0.85]	0.53 [0.45; 0.63]	<input type="button" value="x"/>

Previous Next

You can obtain prediction for several values

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm): 10; 2

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 25

Number of positive nodes: 12

Tumor size (cm): 10; 2; 5

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

- Profile 1
- Profile 2
- Profile 3

Ok, this is a lot of work, maybe should I save it ?

Get the prediction at a specific value of TILs? 5

Extendable table: the number of pages increases with the number of predictions you required

Don't want this value ?

TIL	Profile1	Profile2	Profile3
5	0.38 [0.29; 0.51]	0.74 [0.66; 0.82]	0.46 [0.37; 0.57]
10	0.41 [0.31; 0.54]	0.75 [0.68; 0.83]	0.48 [0.40; 0.59]
12	0.42 [0.32; 0.53]	0.76 [0.69; 0.84]	0.49 [0.41; 0.60]

Previous 3 Next

GRAPHICAL INTERFACE

prognosTILs

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Home Obtain survival predictions Prepare a report Predictions for patient series

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 25

Number of positive nodes: 12

Tumor size (cm):]2; 5]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

- Profile 1
- Profile 2
- Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

TIL	Profile1	Profile2	Profile3	Action
5	0.38 [0.29; 0.51]	0.74 [0.66; 0.82]	0.46 [0.37; 0.57]	<input type="button" value="x"/>
10	0.41 [0.31; 0.54]	0.75 [0.68; 0.83]	0.48 [0.40; 0.59]	<input type="button" value="x"/>
12	0.42 [0.32; 0.55]	0.76 [0.69; 0.84]	0.49 [0.41; 0.60]	<input type="button" value="x"/>

Comparison Action

Profile comparison 1

Previous 1 2 3 Next

Detailed description: The interface is designed for cancer survival prediction. It has a sidebar with navigation links: Home, Obtain survival predictions, Prepare a report, and Predictions for patient series. The main area is titled 'Predict the survival according stromal TILs'. It contains three sets of input fields for different profiles. Each set includes a dropdown for 'Select type of survival function' (set to 'Survival'), a dropdown for 'Select type of survival event' (set to 'iDFS'), a slider for 'Which survival time (years)' (set to 5), a slider for 'Age (years)' (set to 50, 85, or 25), a slider for 'Number of positive nodes' (set to 11, 0, or 12), a dropdown for 'Tumor size (cm)' (set to '> 5', ']0; 2]', or ']2; 5]'), a dropdown for 'Histological grade' (set to 'Grade 3', 'Grade 1 or 2', or 'Grade 3'), and a dropdown for 'Treatment' (set to 'Anthracycline', 'Anthracycline + Taxane', or 'Anthracycline + Taxane'). Below each set are 'Delete profile' buttons. To the right is a large plot showing 'Predicted survival' on the y-axis (0.00 to 1.00) versus 'Stromal TILs (%)' on the x-axis (0 to 100). Three curves represent Profile 1 (red), Profile 2 (green), and Profile 3 (blue), each with a corresponding shaded 95% confidence band. Below the plot is a table for 'Get the prediction at a specific value of TILs?' with columns for TIL, Profile 1, Profile 2, Profile 3, and Action. The table shows data for TIL values 5, 10, and 12. A 'Comparison' section at the bottom allows saving comparisons between profiles. Navigation buttons for 'Previous' and 'Next' are also present.

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 11

Tumor size (cm): > 5

Histological grade: Grade 3

Treatment: Anthracycline

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 25

Number of positive nodes: 12

Tumor size (cm):]0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm):]2; 5]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane +

Now, I can reset the profile interface to make another comparison

Profiles

- Profile 1
- Profile 2
- Profile 3

Remove all current profiles and set up a new default profile

Stromal TILs (%)

0.00 0.25 0.50 0.75 1.00

0 25 50 75 100

Get Save comparison Comparison Action

Profile comparison 1

All the details of the comparison are saved in the profile comparison 1

12 0.42 [0.32; 0.55] 0.76 [0.69; 0.84] 0.49 [0.41; 0.60]

Previous 1 2 3 Next

Profiles

- Profile 1
- Profile 2
- Profile 3

Get Save comparison Comparison Action

Profile comparison 1

12 0.42 [0.32; 0.55] 0.76 [0.69; 0.84] 0.49 [0.41; 0.60]

Previous 1 2 3 Next

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Select type of survival event: D-DFS

Which survival time (years): 5

Age (years): 85

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: OS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

Profile 1

Profile 2

Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

Comparison Action

Profile comparison 1

Previous Next

Another example of comparison:
Plot the iDFS, D-DFS and OS of the
same patient on the same graphic

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Select type of survival event: D-DFS

Which survival time (years): 5

Age (years): 55

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 1 or 2

Treatment: Anthracycline + Taxane

Select type of survival event: OS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

- Profile 1
- Profile 2
- Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

Comparison Action

Profile comparison 1

Profile comparison 2

Previous Next

Save the comparison

GRAPHICAL INTERFACE

prognosTILs

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Home Obtain survival predictions Prepare a report Predictions for patient series

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 1

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 10

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

- Profile 1
- Profile 2
- Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

Comparison	Action
Profile comparison 1	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Profile comparison 2	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Previous Next

Another example of comparison:
Plot the iDFS of the same patient at 1 year, 5 years and 10 years

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 1

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Select type of survival event: iDFS

Which survival time (years): 10

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Profiles

- Profile 1
- Profile 2
- Profile 3

Predicted survival

Stromal TILs (%)

Get the prediction at a specific value of TILs?

Comparison Action

Profile comparison 1	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Profile comparison 2	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Profile comparison 3	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Save the comparison

Previous Next

GRAPHICAL INTERFACE

prognosTILs

Predict the survival according stromal TILs

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival function: Survival

Select type of survival event: iDFS

Which survival time (years): 1

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 5

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Select type of survival event: iDFS

Which survival time (years): 10

Age (years): 50

Number of positive nodes: 0

Tumor size (cm):]0; 2]

Histological grade: Grade 3

Treatment: Anthracycline + Taxane

Add a description to the comparison:
Help to set up the report (see below)
- Will appear in the report

Remove a comparison

Get the prediction at a specific value of TILs?

Comparison Action

Profile comparison 1

Profile comparison 2 →

Profile comparison 3

Profiles

Profile 1
Profile 2
Profile 3

Reloading a saved comparison

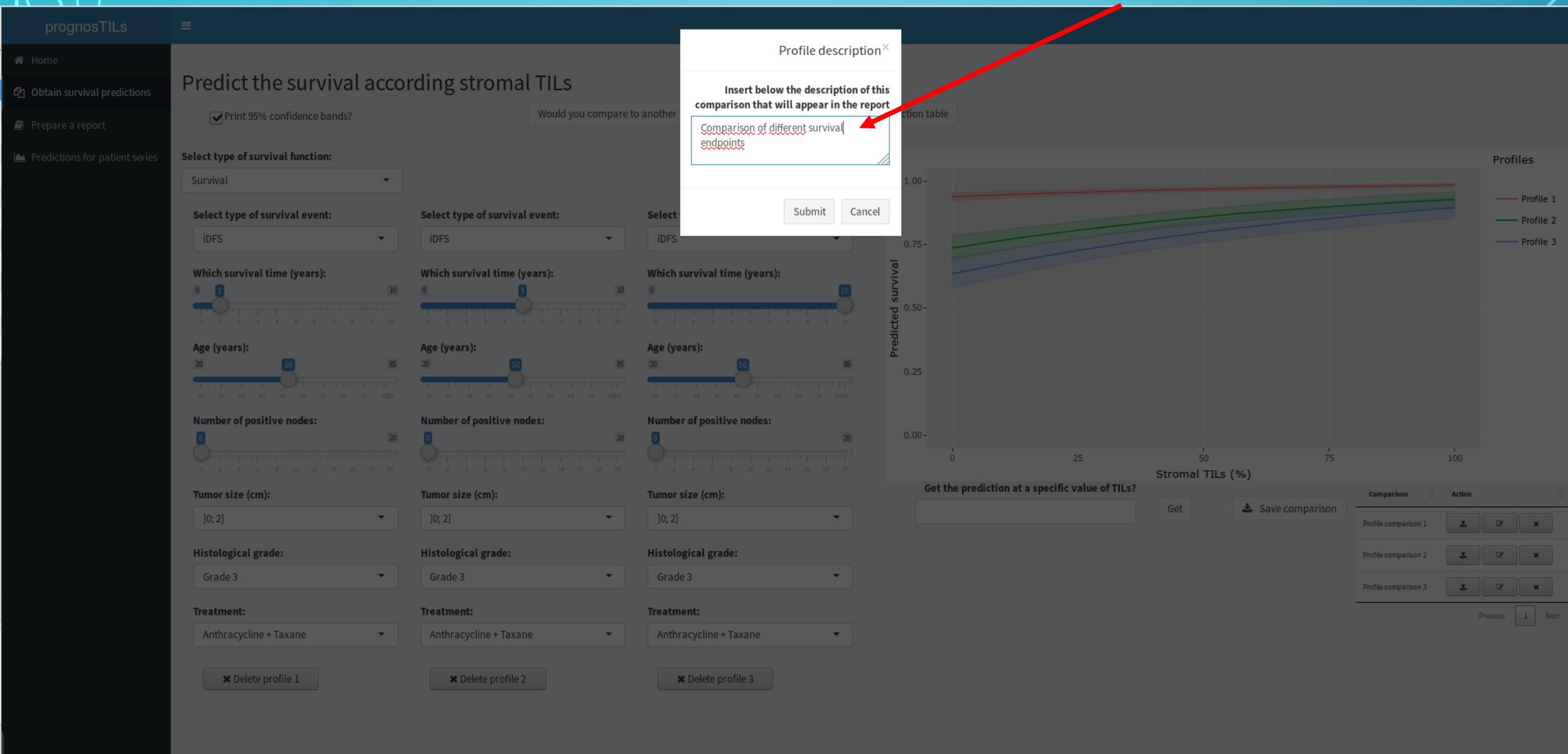
GRAPHICAL INTERFACE

Add a description to the comparison in the text box
Here for the 1st comparison

The screenshot shows the prognosTILs web application interface for predicting survival based on stromal TILs. The main page title is "Predict the survival according stromal TILs". On the left sidebar, there are links for Home, Obtain survival predictions, Prepare a report, and Predictions for patient series. The main content area includes sections for selecting survival function (Survival), survival event (iDFS), survival time (years), age (years), number of positive nodes, tumor size (cm), histological grade, and treatment. Each of these seven variables has a corresponding input field and a delete button below it. A red arrow points to a modal window titled "Profile description" which contains the text "Comparison of 3 different profiles". In the background, there is a large survival plot showing Predicted survival (y-axis, 0.00 to 1.00) versus Stromal TILs (%) (x-axis, 0 to 100). Three curves represent Profile 1 (red), Profile 2 (green), and Profile 3 (blue), each with a shaded confidence band. To the right of the plot, there is a table for "Comparison table" and a section for "Get the prediction at a specific value of TILs?". On the far right, there is a sidebar for "Profiles" with three entries: Profile comparison 1, Profile comparison 2, and Profile comparison 3, each with edit and delete icons. Navigation buttons for Previous and Next are also present.

GRAPHICAL INTERFACE

Add a description to the comparison in the text box
Here for the 2nd comparison



GRAPHICAL INTERFACE

prognosTILs

≡

Home

Obtain survival predictions

Prepare a report

Predictions for patient series

Print 95% confidence bands?

Would you compare to another profile? (max 3)

Reset profiles

Reset prediction table

Select type of survival function:

Survival

Select type of survival event:

iDFS

Which survival time (years):

1

Age (years):

50

Number of positive nodes:

0

Tumor size (cm):

[0; 2]

Histological grade:

Grade 3

Treatment:

Anthracycline + Taxane

Delete profile 1

Delete profile 2

Delete profile 3

Use the saved comparison to create a customized report

Select type of survival event:

iDFS

Which survival time (years):

5

Age (years):

50

Number of positive nodes:

0

Tumor size (cm):

[0; 2]

Histological grade:

Grade 3

Treatment:

Anthracycline + Taxane

Select type of survival event:

iDFS

Which survival time (years):

10

Age (years):

50

Number of positive nodes:

0

Tumor size (cm):

[0; 2]

Histological grade:

Grade 3

Treatment:

Anthracycline + Taxane

Predicted survival

Stromal TILs (%)

Profile 1

Profile 2

Profile 3

Get the prediction at a specific value of TILs?

Comparison

Action

Save comparison

Profile comparison 1

Profile comparison 2

Profile comparison 3

Previous

Next

CREATE A CUSTOMIZED REPORT

prognosTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Choose and rank the comparisons in the order they will appear in the report

Discarded profiles (will not be included in the report)

Retained profiles (will be included in the report according the "Order" column)

Update order

Document format PDF HTML Word

Download

Saved comparisons {

Comparison	Description	Select	Order
Profile comparison 1	Comparison of 3 different profiles	<input type="checkbox"/>	1
Profile comparison 2	Comparison of different survival endpoints	<input type="checkbox"/>	2
Profile comparison 3		<input type="checkbox"/>	3

Previous 1 Next

Added descriptions appear here (as I don't write one for 3rd comparison, nothing appear here)

CREATE A CUSTOMIZED REPORT

prognoSTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Choose and rank the comparisons in the order they will appear in the report

Discarded profiles (will not be included in the report)

Retained profiles (will be included in the report according the "Order" column)

Update order

Comparison	Description	Select	Order
Profile comparison 1	Comparison of 3 different profiles	<input type="checkbox"/>	1
Profile comparison 2	Comparison of different survival endpoints	<input checked="" type="checkbox"/>	2
Profile comparison 3		<input type="checkbox"/>	3

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Download

» «

Don't want all the comparison in the report ? Check the corresponding box and pass this comparison in the “discarded profiles” category using arrows

CREATE A CUSTOMIZED REPORT

prognosTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Choose and rank the comparisons in the order they will appear in the report

Discarded profiles
(will not be included in the report)

Comparison	Description	Select
Profile comparison 2	Comparison of different survival endpoints	<input type="checkbox"/>

Previous 1 Next

Retained profiles
(will be included in the report according the "Order" column)

Comparison	Description	Select	Order
Profile comparison 1	Comparison of 3 different profiles	<input type="checkbox"/>	1
Profile comparison 3		<input type="checkbox"/>	2

Update order

Document format
 PDF HTML Word

Download

The 2nd comparison will not appear in the report

You can choose the order of appearance in the report of the different remaining comparison

CREATE A CUSTOMIZED REPORT

prognosTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Choose and rank the comparisons in the order they will appear in the report

Discarded profiles
(will not be included in the report)

Comparison	Description	Select
Profile comparison 2	Comparison of different survival endpoints	<input type="checkbox"/>

Previous 1 Next

Retained profiles
(will be included in the report according the "Order" column)

Comparison	Description	Select	Order
Profile comparison 1	Comparison of 3 different profiles	<input type="checkbox"/>	1
Profile comparison 3		<input type="checkbox"/>	2

Update order Previous 1 Next

Document format
 PDF HTML Word

Download

Download the report in your favorite format (pdf, docx or html)

CREATE A CUSTOMIZED REPORT

An automatic report is generated including the elements of the comparisons

Comparison 1

Comparison 3

Less detailed because we have not indicated description, neither make prediction for specific TILs values

Results for the 1st comparison

Description
Comparison of 3 different profiles

Queried predictions
The following results are the predictions for the 5 years invasive disease free survival.

Clinical patient profiles

ID	Age	Positive nodes	Tumor Size (cm)	Histological grade	Treatment
Profile 1	50	11	> 5	Grade 3	Anthracycline
Profile 2	85	0	[0; 2]	Grade 1 or 2	Anthracycline + Taxane
Profile 3	25	12	[2; 5]	Grade 3	Anthracycline + Taxane

Patient survival prediction

Survival prediction for specific TILs values

1

TILs	Profile 1	Profile 2	Profile 3
5	0.38 [0.29; 0.51]	0.74 [0.66; 0.82]	0.46 [0.37; 0.57]
10	0.41 [0.31; 0.54]	0.75 [0.68; 0.83]	0.48 [0.40; 0.59]
12	0.42 [0.32; 0.55]	0.76 [0.69; 0.84]	0.49 [0.41; 0.60]
13	0.42 [0.33; 0.56]	0.76 [0.70; 0.85]	0.50 [0.41; 0.60]
30	0.51 [0.41; 0.60]	0.85 [0.78; 0.87]	0.60 [0.51; 0.67]
50	0.51 [0.51; 0.71]	0.85 [0.80; 0.91]	0.66 [0.58; 0.75]
75	0.70 [0.61; 0.81]	0.89 [0.85; 0.94]	0.75 [0.67; 0.83]
80	0.72 [0.62; 0.82]	0.90 [0.86; 0.95]	0.76 [0.69; 0.84]

Results for the 2nd comparison

Queried predictions

Profile	Survival function	Event	Horizon time
Profile 1	Survival	dDFS	1
Profile 2	Survival	dDFS	5
Profile 3	Survival	dDFS	10

Clinical patient profiles

ID	Age	Positive nodes	Tumor Size (cm)	Histological grade	Treatment
Profile 1	50	0	[0; 2]	Grade 3	Anthracycline + Taxane
Profile 2	50	0	[0; 2]	Grade 3	Anthracycline + Taxane
Profile 3	50	0	[0; 2]	Grade 3	Anthracycline + Taxane

Patient survival prediction

Description you indicated in the app

Which survival event ?

Patient profile details (age, positive nodes,...)

Survival curves

Predictions for specific TILs values

CREATE A CUSTOMIZED REPORT

The screenshot shows the 'prognosTILs' web application. The left sidebar has a dark background with white text and icons. It includes links for 'Home', 'Obtain survival predictions', 'Prepare a report', and 'Predictions for patient series'. A red arrow points from the text 'A lot of work to have prediction of few patients...' down towards the 'Predictions for patient series' link. The main content area has a light blue header with the title 'Choose and rank the comparisons in the order they will appear in the report'. Below this, there are two tables: 'Discarded profiles' (will not be included in the report) and 'Retained profiles' (will be included in the report according to the 'Order' column). Both tables have columns for 'Comparison', 'Description', 'Select' (checkbox), and 'Order' (text input field). In the 'Retained profiles' table, the first row has an 'Order' value of '1' and the second row has an 'Order' value of '2'. There are 'Update order' and 'Download' buttons on the right. The bottom of the page has navigation buttons for 'Previous', '1', and 'Next'.

Comparison	Description	Select	Order
Profile comparison 2	Comparison of different survival endpoints	<input type="checkbox"/>	1
Profile comparison 3		<input type="checkbox"/>	2

A lot of work to have prediction of few patients...

How can I do if I want the prediction of, for example, the 5-years OS for hundred or thousand patients ?

PREDICTION FROM DATA

prognosTILs



三

Upload your data

The txt and csv format are accepted for the input file

The minimal example of usable data is presented on the right. Your data should include the columns named **Stromal_TILs**, **Age**, **Tumor_size_category**, **Positive_nodes**, **Histological_grade**, and **Treatment**. (Point these names to see their units and categories. Column names are case insensitive, but variables categories are not).

Upload your File

Browse... No file selected

Does your file include header (column titles)

You can upload a file with the patient characteristics used for the prediction

Supported formats: txt, csv, xls and xlsx

Minimal dataset example:

	A	B	C	D	E	F	G
1	Age	Tumor_size	category	Positive_nodes	Histological_grade	Treatment	Stromal_TILs
2	4.82272416 [0; 2]				2 Grade 3	Anthracycline	55
3	52.71741691 [2; 5]				1 Grade 3	Anthracycline + Taxane	35
4	59.06639288 [5; 5]				6 Grade 1 or 2	Anthracycline	7.5
5	55.23340178 [2; 5]				3 Grade 3	Anthracycline	10
6	61.99863108 [2; 5]				4 Grade 3	Anthracycline + Taxane	10
7	53.59342916 [0; 2]				1 Grade 3	Anthracycline	12.5
8	41.60711841 [2; 5]				1 Grade 3	Anthracycline + Taxane	30
9	52.83778234 > 5				14 Grade 3	Anthracycline + Taxane	1.5
10	43.36208077 [0; 2]				3 Grade 3	Anthracycline	17.5

The patient characteristics column names should be written as in the example (be careful! It is case sensitive)

The app may deal with additional columns (id, date of birth,...), they will not be taken into account for the prediction

The only important thing to remember is to respect the format of the column names (and columns modality, e.g. [2; 5]) of patient characteristics useful for the prediction

PREDICTION FROM DATA

prognosTILs

- Home
- Obtain survival predictions
- Prepare a report
- Predictions for patient series

Upload your data

The txt and csv format are accepted for the input file.

The minimal example of usable data is presented on the right. Your data should include the columns named [Stromal_TILs](#), [Age](#), [Tumor_size_category](#), [Positive_nodes](#), [Histological_grade](#), and [Treatment](#) (Point these names to see their units and categories. Column names are case insensitive, but variables categories are not).

Upload your File

Does your file include header (column titles)

Data importation details:

This data includes 1826 rows and 15 columns.

If there is an issue (e.g. only one column, split column,...), try to change decimal delimiter or column separator of your input file.

Only the columns of interest were kept to ensure that this preview can fit this window. There columns were also renamed for the algorithm. Please check that the application correctly renamed them.

Is your data correctly uploaded?

Minimal dataset example:

1	A	B	C	D	E	F	G
2	34.82272416]0; 2]		2 Grade 3	Anthracycline	55		
3	52.71731691]2; 5]		1 Grade 3	Anthracycline + Taxane	35		
4	59.06639288]2; 5]		6 Grade 1 or 2	Anthracycline	7.5		
5	55.23340178]2; 5]		3 Grade 3	Anthracycline	10		
6	61.99863108]2; 5]		14 Grade 3	Anthracycline + Taxane	10		
7	53.59342916]0; 2]		1 Grade 3	Anthracycline	12.5		
8	41.60711841]2; 5]		1 Grade 3	Anthracycline + Taxane	30		
9	52.83778234> 5		14 Grade 3	Anthracycline + Taxane	7.5		
10	43.36208077]0; 2]		3 Grade 3	Anthracycline	17.5		

If the preview is correct, click here to continue

Data preview

Age	Histological_grade	Positive_nodes	Stromal_TILs	Treatment	Tumor_size_category
34.82	Grade 3	2	5.50	Anthracycline]0; 2]
52.72	Grade 3	1	3.50	Anthracycline + Taxane]2; 5]
59.07	Grade 1 or 2	6	0.75	Anthracycline]2; 5]
55.23	Grade 3	3	1.00	Anthracycline]2; 5]
62.00	Grade 3	14	1.00	Anthracycline + Taxane]2; 5]
53.59	Grade 3	1	1.25	Anthracycline]0; 2]
41.61	Grade 3	1	3.00	Anthracycline + Taxane]2; 5]
52.84	Grade 3	14	0.75	Anthracycline + Taxane	> 5
43.36	Grade 3	3	1.75	Anthracycline]0; 2]
46.66	Grade 3	6	1.25	Anthracycline	> 5

If your data is successfully uploaded, a preview is printed

For visualization concerns, only the patient characteristics useful for prediction are displayed (the other columns are not deleted)

PREDICTION FROM DATA

prognosTILs



Home

Obtain survival predictions

Prepare a report

Predictions for patient series

Upload your data

The txt and csv format are accepted for the input file.

The minimal example of usable data is presented on the right. Your data should include the columns named [Stromal_TILs](#), [Age](#), [Tumor_size_category](#), [Positive_nodes](#), [Histological_grade](#), and [Treatment](#). (Point these names to see their units and categories. Column names are case insensitive, but variables categories are not).

Upload your File

Browse... dataTILs.txt
Upload complete

Does your file include header (column titles)

Data importation details:

This data includes 1826 rows and 15 columns.

If there is an issue (e.g. only one column, split column,...), try to change decimal delimiter or column separator of your input file.

Only the columns of interest were kept to ensure that this preview can fit this window. There columns were also renamed for the algorithm. Please check that the application correctly renamed them.

Is your data correctly uploaded?

What would you predict?

Which survival function?

Survival

Which type of event?

OS

Which survival time?

0 1 2 3 4 5 6 7 8 9 10

Add

Minimal dataset example:

1	A	B	C	D	E	F	G
2	34.82272416]0; 2]		2	Grade 3	Anthracycline	55	
3	52.71731691]2; 5]		1	Grade 3	Anthracycline + Taxane	35	
4	59.06639288]2; 5]		6	Grade 1 or 2	Anthracycline	7.5	
5	55.23340178]2; 5]		3	Grade 3	Anthracycline	10	
6	61.99863108]2; 5]		14	Grade 3	Anthracycline + Taxane	10	
7	53.59342916]0; 2]		1	Grade 3	Anthracycline	12.5	
8	41.60711841]2; 5]		1	Grade 3	Anthracycline + Taxane	30	
9	52.83778234> 5		14	Grade 3	Anthracycline + Taxane	7.5	
10	43.36208077]0; 2]		3	Grade 3	Anthracycline	17.5	

Data preview

Age	Histological_grade	Positive_nodes	Stromal_TILs	Treatment	Tumor_size_category
34.82	Grade 3	2	5.50	Anthracycline]0; 2]
52.72	Grade 3	1	3.50	Anthracycline + Taxane]2; 5]
59.07	Grade 1 or 2	6	0.75	Anthracycline]2; 5]
55.23	Grade 3	3	1.00	Anthracycline]2; 5]
62.00	Grade 3	14	1.00	Anthracycline + Taxane]2; 5]
53.59	Grade 3	1	1.25	Anthracycline]0; 2]
41.61	Grade 3	1	3.00	Anthracycline + Taxane]2; 5]
52.84	Grade 3	14	0.75	Anthracycline + Taxane	> 5
43.36	Grade 3	3	1.75	Anthracycline]0; 2]
46.66	Grade 3	6	1.25	Anthracycline	> 5

Choose the endpoint prediction (ex: 1-year OS)
Then click on the “Add” button

PREDICTION FROM DATA

prognosTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Upload your data

The txt and csv format are accepted for the input file.

The minimal example of usable data is presented on the right. Your data should include the columns named **Stromal_TILs**, **Age**, **Tumor_size_category**, **Positive_nodes**, **Histological_grade**, and **Treatment** (Point these names to see their units and categories. Column names are case insensitive, but variables categories are not).

Upload your File

Browse... dataTILs.txt Upload complete

Does your file include header (column titles)

Data importation details:

This data includes 1826 rows and 15 columns.

If there is an issue (e.g. only one column, split column,...), try to change decimal delimiter or column separator of your input file.

Only the columns of interest were kept to ensure that this preview can fit this window. There columns were also renamed for the algorithm. Please check that the application correctly renamed them.

Is your data correctly uploaded?

What would you predict?

Which survival function? Survival Which type of event? OS

Which survival time? 5 Add

Survival_function Event_Type Survival_time Action

Survival OS 1 Download

Previous 1 Next

Minimal dataset example:

	A	B	C	D	E	F	G
1	Age	Tumor_size_category	Positive_nodes	Histological_grade	Treatment	Stromal_TILs	
2	34.82272416]0; 2]		2	Grade 3	Anthracycline	55	
3	52.71731691]2; 5]		1	Grade 3	Anthracycline + Taxane	35	
4	59.06639288]2; 5]		6	Grade 1 or 2	Anthracycline		
5	55.23340178]2; 5]		3	Grade 3	Anthracycline	10	
6	61.99863108]2; 5]		14	Grade 3	Anthracycline + Taxane	10	
7	53.59342916]0; 2]		1	Grade 3	Anthracycline	1.5	
8	41.60711841]2; 5]		1	Grade 3	Anthracycline + Taxane	30	
9	52.83778234> 5		14	Grade 3	Anthracycline + Taxane	7.5	
10	43.36208077]0; 2]		3	Grade 3	Anthracycline	17.5	

A new column with prediction for each patient appear in the table

Data preview

Age	Histological_grade	Positive_nodes	Stromal_TILs	Treatment	Tumor_size_category	1-years OS
34.82	Grade 3	2	5.50	Anthracycline]0; 2]	0.98 [0.98; 0.99]
52.72	Grade 3	1	3.50	Anthracycline + Taxane]2; 5]	0.97 [0.97; 0.98]
59.07	Grade 1 or 2	6	0.75	Anthracycline]2; 5]	0.97 [0.95; 0.98]
55.23	Grade 3	3	1.00	Anthracycline]2; 5]	0.97 [0.96; 0.98]
62.00	Grade 3	14	1.00	Anthracycline + Taxane]2; 5]	0.93 [0.90; 0.95]
53.59	Grade 3	1	1.25	Anthracycline]0; 2]	0.98 [0.98; 0.99]
41.61	Grade 3	1	3.00	Anthracycline + Taxane]2; 5]	0.98 [0.97; 0.98]
52.84	Grade 3	14	0.75	Anthracycline + Taxane	> 5	0.92 [0.89; 0.96]
43.36	Grade 3	3	1.75	Anthracycline]0; 2]	0.98 [0.97; 0.99]
46.66	Grade 3	6	1.25	Anthracycline	> 5	0.96 [0.94; 0.98]

Table with the prediction details

If you want to remove this new prediction column

PREDICTION FROM DATA

prognosTILs

≡

Home

Obtain survival predictions

Prepare a report

Predictions for patient series

Upload your data

The txt and csv format are accepted for the input file.

The minimal example of usable data is presented on the right. Your data should include the columns named [Stromal_TILs](#), [Age](#), [Tumor_size_category](#), [Positive_nodes](#), [Histological_grade](#), and [Treatment](#) (Point these names to see their units and categories. Column names are case insensitive, but variables categories are not).

Upload your File

Browse... dataTILs.txt
Upload complete

Does your file include header (column titles)

Data importation details:

This data includes 1826 rows and 15 columns.

If there is an issue (e.g. only one column, split column,...), try to change decimal delimiter or column separator of your input file.

Only the columns of interest were kept to ensure that this preview can fit this window. There columns were also renamed for the algorithm. Please check that the application correctly renamed them.

Is your data correctly uploaded?

What would you predict?

Which survival function? Survival

Which type of event? OS

Which survival time? 0 to 10

Add

	Survival_function	Event_Type	Survival_time	Action
1	Survival	OS	1	<input type="button" value="x"/>
2	Survival	OS	5	<input type="button" value="x"/>
3	Survival	OS	10	<input type="button" value="x"/>

Download

Minimal dataset example:

	A	B	C	D	E	F	G
1	Age	Tumor_size_category	Positive_nodes	Histological_grade	Treatment	Stromal_TILs	
2	34.82272416 [0; 2]		2	Grade 3	Anthracycline	55	
3	52.71731691 [2; 5]		1	Grade 3	Anthracycline + Taxane	35	
4	59.06639288 [2; 5]		6	Grade 1 or 2	Anthracycline	7.5	
5	55.23340178 [2; 5]		3	Grade 3	Anthracycline	10	
6	61.99863108 [2; 5]		14	Grade 3	Anthracycline + Taxane	10	
7	53.59342916 [0; 2]		1	Grade 3	Anthracycline	12.5	
8	41.60711841 [2; 5]		1	Grade 3	Anthracycline + Taxane	30	
9	52.83778234 > 5		14	Grade 3	Anthracycline + Taxane	7.5	
10	43.36208077 [0; 2]		3	Grade 3	Anthracycline	17.5	

Data preview

Age	Histological_grade	Positive_nodes	Stromal_TILs	Treatment	Tumor_size_category	1-years OS	5-years OS	10-years OS	
34.82	Grade 3		2	5.50	Anthracycline	[0; 2]	0.98 [0.98; 0.99]	0.83 [0.79; 0.87]	0.76 [0.71; 0.81]
52.72	Grade 3		1	3.50	Anthracycline + Taxane	[2; 5]	0.97 [0.97; 0.98]	0.75 [0.70; 0.80]	0.65 [0.59; 0.71]
59.07	Grade 1 or 2		6	0.75	Anthracycline	[2; 5]	0.97 [0.95; 0.98]	0.68 [0.61; 0.75]	0.56 [0.48; 0.66]
55.23	Grade 3		3	1.00	Anthracycline	[2; 5]	0.97 [0.96; 0.98]	0.71 [0.66; 0.76]	0.60 [0.54; 0.66]
62.00	Grade 3		14	1.00	Anthracycline + Taxane	[2; 5]	0.93 [0.90; 0.95]	0.42 [0.33; 0.52]	0.27 [0.19; 0.38]
53.59	Grade 3		1	1.25	Anthracycline	[0; 2]	0.98 [0.98; 0.99]	0.82 [0.78; 0.85]	0.74 [0.69; 0.79]
41.61	Grade 3		1	3.00	Anthracycline + Taxane	[2; 5]	0.98 [0.97; 0.98]	0.76 [0.71; 0.81]	0.66 [0.60; 0.73]
52.84	Grade 3		14	0.75	Anthracycline + Taxane	> 5	0.92 [0.89; 0.96]	0.39 [0.28; 0.55]	0.25 [0.15; 0.41]
43.36	Grade 3		3	1.75	Anthracycline	[0; 2]	0.98 [0.97; 0.99]	0.80 [0.76; 0.84]	0.72 [0.66; 0.77]
46.66	Grade 3		6	1.25	Anthracycline	> 5	0.96 [0.94; 0.98]	0.63 [0.53; 0.74]	0.50 [0.39; 0.64]

You can add all the predictions you want

PREDICTION FROM DATA

prognosTILs

Home Obtain survival predictions Prepare a report Predictions for patient series

Upload your data

The txt and csv format are accepted for the input file.

The minimal example of usable data is presented on the right. Your data should include the columns named [Stromal_TILs](#), [Age](#), [Tumor_size_category](#), [Positive_nodes](#), [Histological_grade](#), and [Treatment](#) (Point these names to see their units and categories. Column names are case insensitive, but variables categories are not).

Upload your File

Browse... dataTILs.txt Upload complete

Does your file include header (column titles)

Data importation details:

This data includes 1826 rows and 15 columns.

If there is an issue (e.g. only one column, split column,...), try to change decimal delimiter or column separator of your input file.

Only the columns of interest were kept to ensure that this preview can fit this window. There columns were also renamed for the algorithm. Please check that the application correctly renamed them.

Is your data correctly uploaded?

What would you predict?

Which survival function? Survival Which type of event? OS

Which survival time? 0 10 Add

	Survival_function	Event_Type	Survival_time	Action
1	Survival	OS	1	x
2	Survival	OS	5	x
3	Survival	OS	10	x

Minimal dataset example:

	A	B	C	D	E	F	G
1	Age	Tumor_size_category	Positive_nodes	Histological_grade	Treatment	Stromal_TILs	
2	34.82272416 [0; 2]		2	Grade 3	Anthracycline	55	
3	52.71731691 [2; 5]		1	Grade 3	Anthracycline + Taxane	35	
4	59.06639288 [2; 5]		6	Grade 1 or 2	Anthracycline	7.5	
5	55.23340178 [2; 5]		3	Grade 3	Anthracycline	10	
6	61.99863108 [2; 5]		14	Grade 3	Anthracycline + Taxane	10	
7	53.59342916 [0; 2]		1	Grade 3	Anthracycline	12.5	
8	41.60711841 [2; 5]		1	Grade 3	Anthracycline + Taxane	30	
9	52.83778234 > 5		14	Grade 3	Anthracycline + Taxane	7.5	
10	43.36208077 [0; 2]		3	Grade 3	Anthracycline	17.5	

Data preview

Age	Histological_grade	Positive_nodes	Stromal_TILs	Treatment	Tumor_size_category	1-years OS	5-years OS	10-years OS	
34.82	Grade 3		2	5.50	Anthracycline	[0; 2]	0.98 [0.98; 0.99]	0.83 [0.79; 0.87]	0.76 [0.71; 0.81]
52.72	Grade 3		1	3.50	Anthracycline + Taxane	[2; 5]	0.97 [0.97; 0.98]	0.75 [0.70; 0.80]	0.65 [0.59; 0.71]
59.07	Grade 1 or 2		6	0.75	Anthracycline	[2; 5]	0.97 [0.95; 0.98]	0.68 [0.61; 0.75]	0.56 [0.48; 0.66]
55.23	Grade 3		3	1.00	Anthracycline	[2; 5]	0.97 [0.96; 0.98]	0.71 [0.66; 0.76]	0.60 [0.54; 0.66]
62.00	Grade 3		14	1.00	Anthracycline + Taxane	[2; 5]	0.93 [0.90; 0.95]	0.42 [0.33; 0.52]	0.27 [0.19; 0.38]
53.59	Grade 3		1	1.25	Anthracycline	[0; 2]	0.98 [0.98; 0.99]	0.82 [0.78; 0.85]	0.74 [0.69; 0.79]
41.61	Grade 3		1	3.00	Anthracycline + Taxane	[2; 5]	0.98 [0.97; 0.98]	0.76 [0.71; 0.81]	0.66 [0.60; 0.73]
52.84	Grade 3		14	0.75	Anthracycline + Taxane	> 5	0.92 [0.89; 0.96]	0.39 [0.28; 0.55]	0.25 [0.15; 0.41]
43.36	Grade 3		3	1.75	Anthracycline	[0; 2]	0.98 [0.97; 0.99]	0.80 [0.76; 0.84]	0.72 [0.66; 0.77]
46.66	Grade 3		6	1.25	Anthracycline	> 5	0.96 [0.94; 0.98]	0.63 [0.53; 0.74]	0.50 [0.39; 0.64]

You can download the results in a “.txt” file
Can be read and convert easily in another format,
importing it with MS Excel or LibreOffice



PREDICTION FROM DATA

The screenshot shows the prognosTILs web application interface. On the left, a sidebar lists navigation options: Home, Obtain survival predictions, Prepare a report, and Predictions for patient series. The main area has a title "Upload your data". Below it, instructions state: "The txt and csv format are accepted for the input file. The minimal example of usable data is presented on the right. Your data should include the following columns: Treatment, Stromal_TILs, Age, Tumor_size_category, Positive_nodes, Histological_grade, and Survival. Point these names to see their units and categories. Column names are case sensitive, but variables/categories are not." A "Upload your File" section includes a "Browse..." button pointing to "dataTILs.txt", a "Upload complete" button, and a checked checkbox "Does your file include header (column titles)".

Data importation details:

This data includes 1826 rows and 15 columns.

If there is an issue (e.g. only one column, split column...), try to change decimal delimiter or separator of your input file.

Only the columns of interest were kept to ensure that this preview can fit this window. The other columns were also renamed for the algorithm. Please check that the application correctly renames them.

Is your data correctly uploaded?

What would you predict?

Which survival function? Survival

Which type of event? OS

Which survival time? 10

Fields

Column type: [dropdown]

Text Import - [Predicted_dataTILs.txt]

Import

Character set: Unicode (UTF-8)

Language: Default - English (USA)

From row: 1

Separator Options

Fixed width Separated by

Tab Comma Semicolon Space Other

Merge delimiters Text delimiter: "

Other Options

Quoted field as text Detect special numbers

Fields

Column type: [dropdown]

	Standard	Standard	Standard	Standard
1	Y	w	1-years OS	5-years OS
2	1	0.98	[0.98; 0.99]	0.83 [0.79; 0.87]
3	1	0.97	[0.97; 0.98]	0.75 [0.70; 0.80]
4	1	0.97	[0.95; 0.98]	0.68 [0.61; 0.75]
5	1	0.97	[0.96; 0.98]	0.71 [0.66; 0.76]
6	1	0.93	[0.90; 0.95]	0.42 [0.33; 0.52]
7	1	0.98	[0.98; 0.99]	0.82 [0.78; 0.85]
8	1	0.98	[0.97; 0.98]	0.71 [0.69; 0.79]
			0.76 [0.71; 0.81]	0.66 [0.60; 0.73]

Help OK Cancel

52.84 Grade 3 14 0.75

43.36 Grade 3 3 1.75

46.66 Grade 3 6 1.25

Example with libreoffice ("semicolon" should be unchecked)

Treatment	Tumor_size_category	1-years OS	5-years OS	10-years OS
Anthracycline	[0; 2]	0.98 [0.98; 0.99]	0.83 [0.79; 0.87]	0.76 [0.71; 0.81]
Anthracycline + Taxane	[2; 5]	0.97 [0.97; 0.98]	0.75 [0.70; 0.80]	0.65 [0.59; 0.71]
Anthracycline	[2; 5]	0.97 [0.95; 0.98]	0.68 [0.61; 0.75]	0.56 [0.48; 0.66]
Anthracycline	[2; 5]	0.97 [0.96; 0.98]	0.71 [0.66; 0.76]	0.60 [0.54; 0.66]
Anthracycline + Taxane	[2; 5]	0.93 [0.90; 0.95]	0.42 [0.33; 0.52]	0.27 [0.19; 0.38]
Anthracycline	[0; 2]	0.93 [0.90; 0.95]	0.42 [0.33; 0.52]	0.27 [0.19; 0.38]
Anthracycline	[0; 2]	0.98 [0.98; 0.99]	0.82 [0.78; 0.85]	0.74 [0.69; 0.79]
Anthracycline + Taxane	[2; 5]	0.98 [0.97; 0.98]	0.76 [0.71; 0.81]	0.66 [0.60; 0.73]
Anthracycline + Taxane	> 5	0.92 [0.89; 0.96]	0.39 [0.28; 0.55]	0.25 [0.15; 0.41]
Anthracycline	[0; 2]	0.98 [0.97; 0.99]	0.80 [0.76; 0.84]	0.72 [0.66; 0.77]
Anthracycline	> 5	0.96 [0.94; 0.98]	0.63 [0.53; 0.74]	0.50 [0.39; 0.64]

PREDICTION FROM DATA

Your data is preserved, the app : restores the (sorted) columns of original file
+ prediction columns

Input

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Study	OS	n_OS	IDFS	n_IDFS	DDFS	n_DDFS	Age	Tumor_size_category	Positive_nodes	Histological_grade	Treatment	Stromal_TILs	w	Positive_nodes_category			
2	BIG 02-98	6.74418288665298	0	6.74418288665298	0	6.74418288665298	0	34.82272416]0; 2]		2	Grade 3	Anthracycline	5.5	1>3				
3	BIG 02-98	1.37987679671458	1	0.980150581793292	1	0.980150581793292	1	52.71731691]2; 5]		1	Grade 3	Anthracycline + Taxane	3.5	1>3				
4	BIG 02-98	0.996577686516085	1	0.824093086926763	1	0.824093086926763	1	59.06639288]2; 5]		6	Grade 1 or 2	Anthracycline	0.75	1>3				
5	BIG 02-98	4.97741273100616	1	3.79739904175222	1	3.79739904175222	1	55.23340178]2; 5]		3	Grade 3	Anthracycline	1	1>3				
6	BIG 02-98	2.31895961670089	1	1.35797399041752	1	1.35797399041752	1	61.99863108]2; 5]		14	Grade 3	Anthracycline + Taxane	1	1>3				
7	BIG 02-98	8.43775254243669	0	8.43775254243669	0	8.43775254243669	0	53.59342916]0; 2]		1	Grade 3	Anthracycline	1.25	1>3				
8	BIG 02-98	7.96442855361625	0	7.96442855361625	0	7.96442855361625	0	41.60711841]2; 5]		1	Grade 3	Anthracycline + Taxane	3	1>3				
9	BIG 02-98	1.73305954825462	1	1.21286789869952	1	1.21286789869952	1	52.83778234> 5		14	Grade 3	Anthracycline + Taxane	0.75	1>3				
10	BIG 02-98	7.74555040682181	0	7.74555040682181	0	7.74555040682181	0	43.36208077]0; 2]		3	Grade 3	Anthracycline	1.75	1>3				

Sorted Input columns

New prediction columns

Output

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
1	Age	DDFS	Histological_grade	IDFS	n_DDFS	n_IDFS	n_OS	OS		Positive_nodes	Positive_nodes_category	Stromal_TILs	Study	Treatment	Tumor_size_category	w	1-years OS	5-years OS	10-year OS
2	34.82272416	6.74418288665298	Grade 3	6.74418288665298	0	0	0	6.74418288665298		2	1-3	5.5	BIG 02-98	Anthracycline]0; 2]	1.098 [0.98; 0.99]	0.83 [0.79; 0.87]	0.76 [0.	
3	52.71731691	0.980150581793292	Grade 3	0.980150581793292	1	1	1	1.37987679671458		1	1-3	3.5	BIG 02-98	Anthracycline + Taxane]2; 5]	1.097 [0.97; 0.98]	0.75 [0.70; 0.80]	0.65 [0.	
4	59.06639288	0.824093086926763	Grade 1 or 2	0.824093086926763	1	1	1	59.066392886516085		6	> 3	0.75	BIG 02-98	Anthracycline]2; 5]	1.097 [0.95; 0.98]	0.68 [0.61; 0.75]	0.56 [0.	
5	55.23340178	3.79739904175222	Grade 3	3.79739904175222	1	1	1	4.97741273100616		3	1-3	1	BIG 02-98	Anthracycline]2; 5]	1.097 [0.96; 0.98]	0.71 [0.66; 0.76]	0.60 [0.	
6	61.99863108	1.35797399041752	Grade 3	1.35797399041752	1	1	1	2.31895961670089		14	> 3	1	BIG 02-98	Anthracycline + Taxane]2; 5]	1.093 [0.90; 0.95]	0.42 [0.33; 0.52]	0.27 [0.	
7	53.59342916	8.43775254243669	Grade 3	8.43775254243669	0	0	0	8.43775254243669		1	1-3	1.25	BIG 02-98	Anthracycline]0; 2]	1.098 [0.98; 0.99]	0.82 [0.78; 0.87]	0.74 [0.	
8	41.60711841	7.96442855361625	Grade 3	7.96442855361625	0	0	0	7.96442855361625		1	1-3	3	BIG 02-98	Anthracycline + Taxane]2; 5]	1.098 [0.97; 0.98]	0.76 [0.71; 0.81]	0.66 [0.	
9	52.83778234	1.21286789869952	Grade 3	1.21286789869952	1	1	1	1.73305954825462		14	> 3	0.75	BIG 02-98	Anthracycline + Taxane	> 5	1.092 [0.89; 0.96]	0.39 [0.28; 0.55]	0.25 [0.	
10	43.36208077	7.74555040682181	Grade 3	7.74555040682181	0	0	0	7.74555040682181		3	1-3	1.75	BIG 02-98	Anthracycline]0; 2]	1.098 [0.97; 0.99]	0.80 [0.76; 0.84]	0.72 [0.	