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Addins

Untitled1* x tabla_cox x conoc_actit_factor_cancer_cervical x

Render on Save

Render

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Source Visual B I <> Normal Format Insert Table Outline

```
---
title: "Practica semana 11"
author: "GRUPO 06"
format: html
editor: visual
---
```

GRUPO 06:

- ALACOTE SALAS, Aylin Elisa.
- ESQUIVEL MOLERO, Lourdes Valeria.
- PALACIOS SALINAS, Danna Ariela.
- ROJAS CORREA, Aitana.
- VELASQUEZ ROMAN, Alvaro Fabian.

Instalamos los paquetes:

```
{r}
install.packages("broom")
install.packages("survival")
install.packages("survminer")
install.packages("ggsurvfit")
```

Cargamos:

```
{r}
library(tidyverse)
library(lubridate)
library(survival)
```

Chunk 20 Console

Environment History Connections Tutorial

R Global Environment

Data

can_cervical_data	218 obs. of 18 variables
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tabla_cox	List of 5

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User Library		
<input type="checkbox"/> abind	Combine Multidimensional Arrays	1.4-8
<input type="checkbox"/> askpass	Password Entry Utilities for R, Git, and SSH	1.2.1
<input type="checkbox"/> backports	Reimplementations of Functions Introduced Since R-3.0.0	1.5.0
<input type="checkbox"/> base64enc	Tools for base64 encoding	0.1-3
<input type="checkbox"/> bdsmatrix	Routines for Block Diagonal Symmetric Matrices	1.3-7
<input type="checkbox"/> BiasedUrn	Biased Urn Model Distributions	2.0.12
<input type="checkbox"/> bigD	Flexibly Format Dates and Times to a Given Locale	0.3.1
<input type="checkbox"/> bit	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.6.0
<input type="checkbox"/> bit64	A S3 Class for Vectors of 64bit Integers	4.6.0-1
<input type="checkbox"/> bitops	Bitwise Operations	1.0-9
<input type="checkbox"/> blob	A Simple S3 Class for Representing Vectors of Binary Data ('BLOBs')	1.2.4
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Cargamos:

```
{r}
library(tidyverse)
library(lubridate)
library(survival)
library(survminer)
library(gtsummary)
library(broom)
library(here)
library(rto)
library(ggsurvfit)
```

Emplearemos 2 técnicas:

- Análisis de supervivencia usando el método de Kaplan-Meier
- Regresión de riesgos proporcionales (PH) de Cox

ESTIMACIONES DE SUPERVIVENCIA USANDO EL METODO DE KAPLAN-MEIER

- Uso de nuestro dataset:

```
{r}
cancer_cerv <- import(here("estadistica_upsjb_estudio/Estadistica/data
/conoc_actit_factor_cancer_cervical.csv"))
```

Vemos nuestro dataset:

```
{r}
cancer_cerv |>
select(parejas_sex, edad_relacion_sexual, antec_fam) |>
summary()
```

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Vemos nuestro dataset:

```
{r}
cancer_cerv |>
select(parejas_sex, edad_relacion_sexual, antec_fam) |>
summary()
```

parejas_sex	edad_relacion_sexual	antec_fam
Min. : 0.000	Min. :13.00	Length:218
1st Qu.: 2.000	1st Qu.:18.00	Class :character
Median : 2.000	Median :19.00	Mode :character
Mean : 2.509	Mean :19.33	
3rd Qu.: 3.000	3rd Qu.:20.00	
Max. :15.000	Max. :30.00	

Desenlace en el analisis de la supervivencia:

Kaplan Meier:

```
{r}
Surv(cancer_cerv$edad, cancer_cerv$num_hijos)
```

Aviso: Invalid status value, converted to NA [1] 537 547 267 25+ 25+ 387 297 397
[24] 27+ 35 267 26+ 25+ 29+ 28+ 25+ 30+ 25+ 28+ 25+ 25+ 25+ 457 427 507 51 497
547 467 457 557
[47] 58 607 517 64 25 25+ 607 497 437 507 417 507 507 627 53+ 357 467 38+ 25+
377 29+ 26 25+
[70] 357 56 467 577 497 25+ 53 477 58 25+ 387 25 587 34+ 317 26+ 337 47 487
607 46 357 527
[93] 537 577 417 45 677 627 43 427 487 467 527 35 26+ 427 417 497 39 537 457
567 587 507 47
[116] 547 487 657 497 537 55 537 46 48 517 557 48 537 467 527 577 547 587 567
477 567 397 467
[139] 427 557 487 50 497 53 437 597 457 447 427 41 587 55 457 567 57 597 457

Untitled1*

tabla_cox

conoc_actit_factor_cancer_cervical

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ABC

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58?

47?

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[162]

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42?

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46

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62?

52

[208]

66?

54?

55?

46?

57?

48

59?

53?

65

52?

51?

Los datos muestran edades con indicios de cantidad de hijos. Muchos valores cercanos a 25–30 años podrían representar personas jóvenes, posiblemente con pocos o ningún hijo. En edades mayores (45–60), se observa mayor frecuencia, lo que sugiere acumulación de hijos con el tiempo. Las marcas “+” podrían indicar personas con hijos, y “?” incertidumbre. La relación general sugiere que a mayor edad, mayor número de hijos, con variabilidad significativa entre individuos.

{r}

km = survfit(Surv(edad, num_hijos) ~ 1, data = cancer_cerv)

Aviso: Invalid status value, converted to NA

que hay dentro del km?

{r}

str(km)

List of 18

\$ n : int 73

\$ time : num [1:29] 25 26 27 28 29 30 32 34 35 38 ...

\$ n.risk : num [1:29] 73 56 51 48 45 43 42 39 38 36 ...

\$ n.event : num [1:29] 2 2 1 0 0 0 2 0 2 0 ...

\$ n.censor : num [1:29] 15 3 2 3 2 1 1 0 1 ...

\$ surv : num [1:29] 0.973 0.938 0.919 0.919 0.919 ...

\$ std.err : num [1:29] 0.0196 0.0324 0.0379 0.0379 0.0379 ...

\$ cumhaz : num [1:29] 0.0274 0.0631 0.0827 0.0827 0.0827 ...

\$ cumhaz : num [1:29] 0.0194 0.0318 0.0374 0.0374 0.0374 ...

\$ type : chr "right"

\$ logse : logi TRUE

\$ conf.int : num 0.95

\$ conf.type : chr "log"

\$ lower : num [1:29] 0.936 0.88 0.854 0.854 0.854 ...

\$ upper : num [1:29] 1 0.999 0.99 0.99 0.99 ...

\$ t0 : num 0

\$ na.action: 'omit' Named int [1:145] 1 2 3 6 7 8 9 10 15 21 ...

.- attr(*, "names")= chr [1:145] "1" "2" "3" "6" ...

\$ call : language survfit(formula = Surv(edad, num_hijos) ~ 1, data = cancer_cerv)

- attr(*, "class")= chr "survfit"

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str(km)

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\$ t0 : num 0

\$ na.action: 'omit' Named int [1:145] 1 2 3 6 7 8 9 10 15 21 ...

.- attr(*, "names")= chr [1:145] "1" "2" "3" "6" ...

\$ call : language survfit(formula = Surv(edad, num_hijos) ~ 1, data = cancer_cerv)

- attr(*, "class")= chr "survfit"

GRAFICO DE KAPLAN-MEIER:

{r}

survfit2(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) |>
ggsvvfit() +
labs(
x = "Edad",
y = "Numero de hijos concebidos"
) +

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{r}

survfit2(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) |>
ggsvvfit() +
labs(
x = "Edad",
y = "Numero de hijos concebidos"
) +
add_censor_mark()

GRAFICO DE KAPLAN-MEIER:

{r}

survfit2(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) |>
ggsvvfit() +
labs(
x = "Edad",
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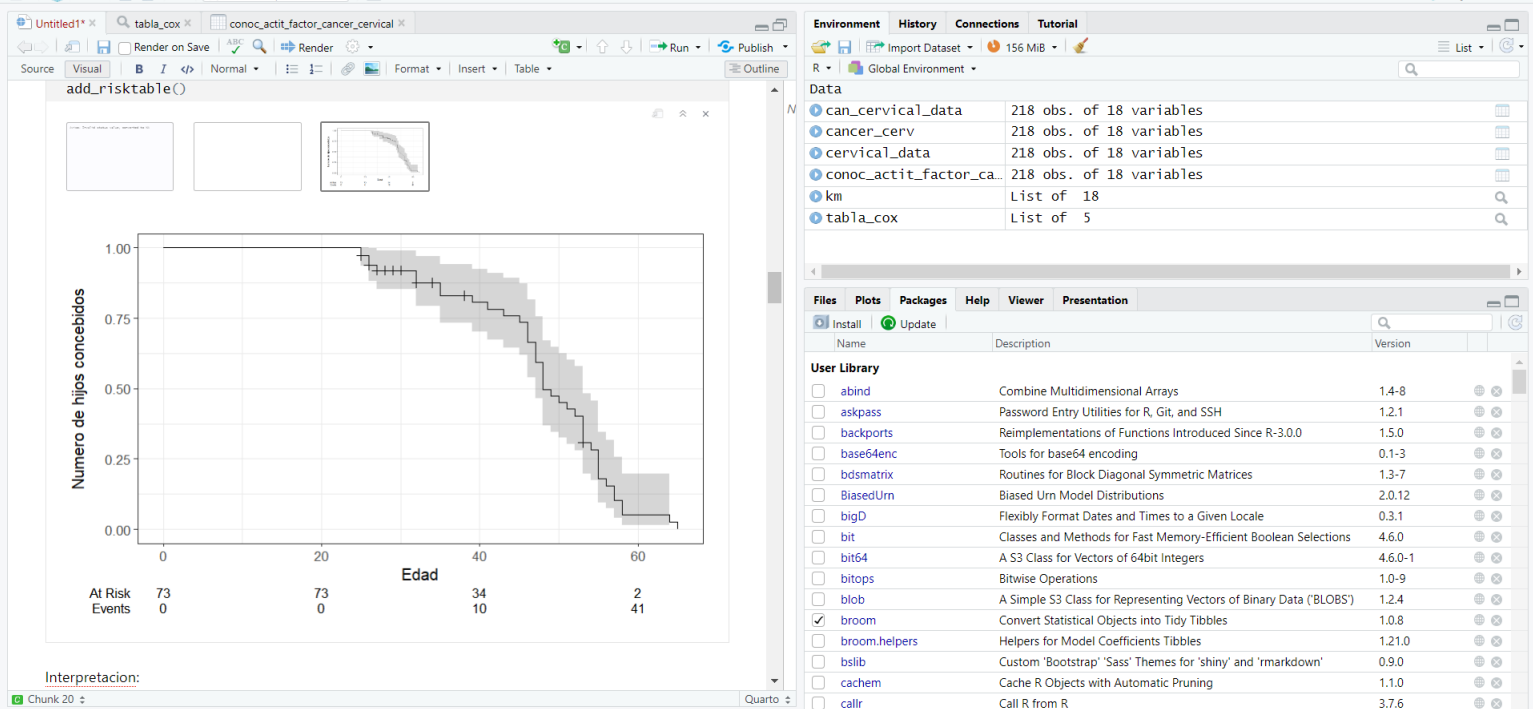
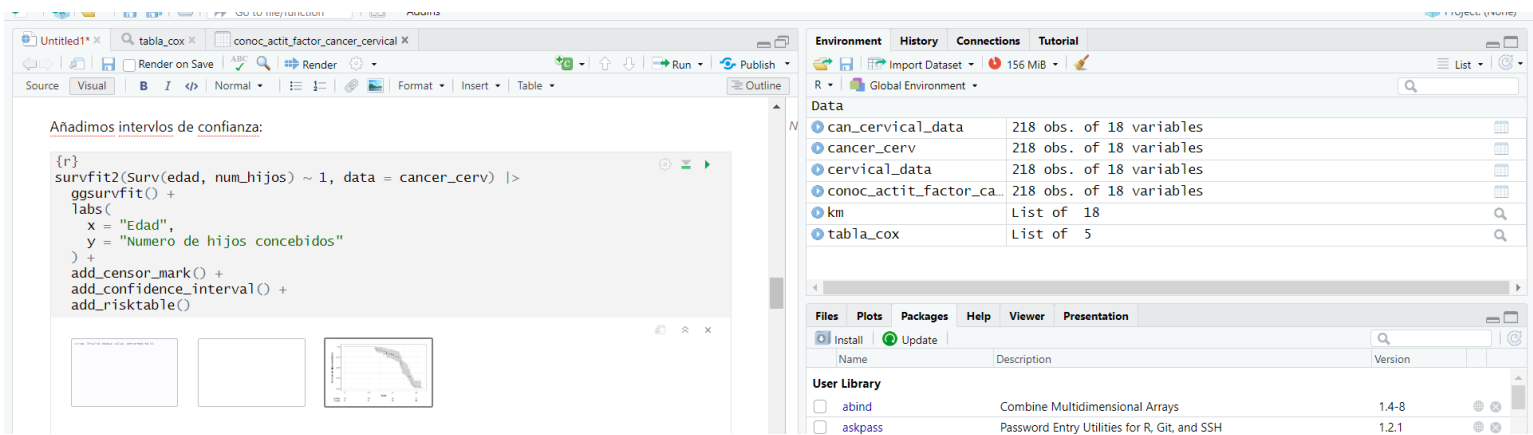
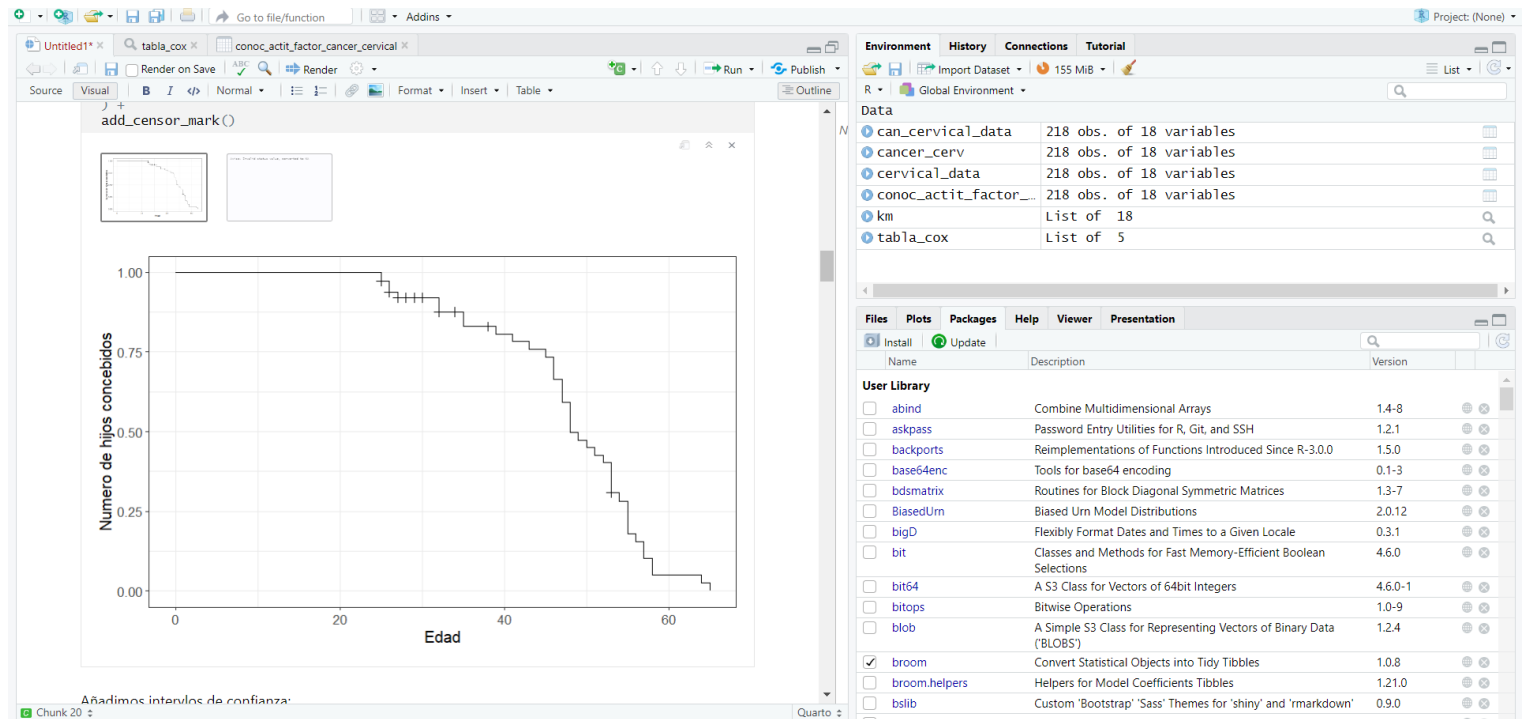
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Interpretacion:

En el gráfico donde observamos a 73 individuos para analizar la edad a la que conciben un hijo (el "evento").

El eje Y, etiquetado "Numero de hijos concebidos", representa la proporción de individuos que aún no han concebido. La curva se mantiene en 1.00 hasta pasados los 20 años, indicando que nadie concibió antes de esa edad.

La mediana de edad para la concepción, cuando el 50% del grupo ha tenido un hijo, se encuentra aproximadamente a los 49 años. La incertidumbre (banda gris) aumenta significativamente después de los 55 años, ya que quedan muy pocos individuos en riesgo.

Estimacion de la supervivencia por años:

```
{r}
summary(survfit(Surv(edad, num_hijos) ~ 1, data = cancer_cerv), times = 30.15)
```

Aviso: Invalid status value, converted to NAcall: survfit(formula = Surv(edad, num_hijos) ~ 1, data = cancer_cerv)

145 observations deleted due to missingness									
time	n.risk	n.event	survival	std.err	lower	95% CI	upper	95% CI	
30.1	42	5	0.919	0.0349		0.854	0.99		

```
{r}
survfit2(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) |>
  ggsurvfit() +
  labs(
    x = "Edad",
    y = "Numero de hijos concebidos"
  ) +
  add_confidence_interval() +
  add_risktable() +
  add_quantile(x_value = 30.15, linewidth = .7)
```

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```
y = "Numero de hijos concebidos"
) +
add_confidence_interval() +
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km	List of 18	
tabla_cox	List of 5	

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<input type="checkbox"/> backports	Reimplementations of Functions Introduced Since R-3.0.0	1.5.0
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<input type="checkbox"/> bdsmatrix	Routines for Block Diagonal Symmetric Matrices	1.3-7
<input type="checkbox"/> BiasedUrn	Biased Urn Model Distributions	2.0.12
<input type="checkbox"/> bigD	Flexibly Format Dates and Times to a Given Locale	0.3.1
<input type="checkbox"/> bit	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.6.0
<input type="checkbox"/> bit64	A S3 Class for Vectors of 64bit Integers	4.6.0-1
<input type="checkbox"/> bitops	Bitwise Operations	1.0-9
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<input type="checkbox"/> bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.9.0
<input type="checkbox"/> cachem	Cache R Objects with Automatic Pruning	1.1.0
<input type="checkbox"/> callr	Call R from R	3.7.6
<input type="checkbox"/> car	Companion to Applied Regression	3.1-3

Edad	At Risk
0	73
20	73
30.15	34
60	2

Untitled1*
tabla_cox
conoc_actit_factor_cancer_cervical

Render on Save
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Mediana de supervivencia:

```
{r}
survfit2(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) |>
  ggssurvfit() +
  labs(
    x = "Edad",
    y = "Numero de hijos concebidos"
  ) +
  add_confidence_interval() +
  add_risktable() +
  add_quantile(y_value = 0.5, linewidth = .7)
```

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Untitled1*
tabla_cox
conoc_actit_factor_cancer_cervical

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add_confidence_interval() +
add_risktable() +
add_quantile(y_value = 0.5, linewidth = .7)

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Untitled1*
tabla_cox
conoc_actit_factor_cancer_cervical

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¿COMO REPORTAR?

```
{r}
theme_gtsummary_language(language = "es")

Setting theme "language: es"

{r}
survfit(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) %>%
  tbl_survfit(
    times = 30.15,
    label_header = "***Numero de hijos concebidos(IC 95%)"
  )
```

Global

92% (85%, 99%)

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Untitled1* tabla_cox conoc_actit_factor_cancer_cervical

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Source Visual B I <p> Normal Format Insert Table Outline

```
{r}
survfit(Surv(edad, num_hijos) ~ 1, data = cancer_cerv) |>
tbl_survfit(
  probs = 0.5,
  label_header = "***Numero de hijos concebidos(IC 95%)**"
)
```

Característica	Numero de hijos concebidos(IC 95%)
Global	48 (47, 53)

Chunk 20 Quarto

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```
{r}
survdif(Surv(edad, num_hijos) ~ antec_fam, data = cancer_cerv)
```

Aviso: Invalid status value, converted to NAcall:

```
survdif(formula = Surv(edad, num_hijos) ~ antec_fam, data = cancer_cerv)
```

n=73, 145 observations deleted due to missingness.

	N	Observed	Expected	(O-E)^2/E	(O-E)^2/V
antec_fam=no	63	36	34.04	0.113	0.675
antec_fam=si	10	7	8.96	0.428	0.675

Chisq= 0.7 on 1 degrees of freedom, p= 0.4

El valor de p = 0.004 de la prueba de log-rank indica que existe una diferencia estadísticamente significativa.

El siguiente gráfico de Kaplan-meier muestra el resultado de la prueba de log-rank.

```
{r}
survfit2(Surv(edad, num_hijos) ~ antec_fam, data = cancer_cerv) |>
ggsurvfit() +
labs(
  x = "Edad",
  y = "Numero de hijos concebidos"
) +
add_confidence_interval() +
add_risktable() +
add_pvalue(caption = "Log-rank {p.value}")
```

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Console

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```
)+
add_confidence_interval() +
add_risktable() +
add_pvalue(caption = "Log-rank {p.value}")
```

	no		si	
At Risk	63		63	
Events	0		0	
At Risk	10		10	
Events	0		0	

Log-rank p=0.4

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Environment History Connections Tutorial

Import Dataset 23 MiB

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MODELO DE REGRESION COX:

Cargamos data set:

```
{r}
can_cervical_data <- import(here("estadistica_upsjb_estudio/Estadistica/data
/conoc_actit_factor_cancer_cervical.csv"))
```

Usamos la variable tipo:

```
{r}
coxph(Surv(edad, num_hijos == "concepcion") ~ procedencia, data = can_cervical_data
)
```

Call:

```
coxph(formula = Surv(edad, num_hijos == "concepcion") ~ procedencia,
      data = can_cervical_data)
```

	coef	exp(coef)	se(coef)	z	p
procedenciaurbano	NA	NA	0	NA	NA

Likelihood ratio test=0 on 0 df, p=1
n= 218, number of events= 0

REPORTE:

```
{r}
coxph(Surv(edad, num_hijos == "Concepcion") ~ procedencia, data = can_cervical_data
) %>%
tbl_regression(exp = TRUE)
```

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```
{r}
coxph(Surv(edad, num_hijos == "Concepcion") ~ procedencia, data = can_cervical_data
) %>%
tbl_regression(exp = TRUE)
```

Característica	HR	95% CI	p-valor
procedencia			
rural	—	—	
urbano			

Abreviaciones: CI = Intervalo de confianza, HR = Cociente de riesgos instantáneos

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Addins

Untitled1* ×

tabla_cox ×

conoc_activ_factor_cancer_cervical ×

Render on Save

Render

Run

Publish

Source

Visual

B I <>

Normal

Format

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Outline

Interpretacion:

Este código ejecuta un análisis de supervivencia de Cox (coxph) para evaluar cómo la procedencia (origen) afecta el riesgo de un evento a lo largo del tiempo (Edad), usando datos de can_cervical_data.

La tabla de resultados compara el riesgo del grupo URBANO frente al grupo RURAL (la referencia). El HR (Cociente de Riesgos) para "urbano" indicaría si su riesgo es mayor o menor.

La tabla resume el efecto de la variable PROCEDENCIA. El grupo RURAL, es la categoría de referencia, sirviendo como base de comparación.

La fila URBANO (cuyos valores no son visibles) mostraría el Cociente de Riesgos (HR) y su p-valor, indicando si el riesgo es significativamente diferente al del grupo rural.

Reporte para multiples variables:

```
{r}
tabla_cox <- can_cervical_data |>
tbl_uvregression(
  include = c(e_marital, n_educacion, religion, etnia, procedencia, ocupacion,
    ocupacion_convivi, antec_fam, edad_relacion_sexual, parejas_sex, met_anticoncep,
    antec_ets, conocimiento, actitud, practica),
  y = Surv(edad, num_hijos == "Concepcion"),
  method = coxph,
  exponentiate = TRUE,
  conf.int = TRUE,
  hide_n = TRUE,
  add_estimate_to_reference_rows = FALSE,
  pvalue_fun = ~ style_pvalue(.x, digits = 1),
  estimate_fun = ~ style_number(.x, digits = 1),
)
```

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Import Dataset20 MiB

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<input type="checkbox"/> bitops	Bitwise Operations	1.0-9
<input type="checkbox"/> blob	A Simple S3 Class for Representing Vectors of Binary Data ('BLOBs')	1.2.4
<input checked="" type="checkbox"/> broom	Convert Statistical Objects into Tidy Tibbles	1.0.8
<input type="checkbox"/> broom.helpers	Helpers for Model Coefficients Tibbles	1.2.1.0
<input type="checkbox"/> bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.9.0
<input type="checkbox"/> cachem	Cache R Objects with Automatic Pruning	1.1.0

FileEditCodeViewPlotsSessionBuildDebugProfileToolsHelp

Go to file/function

Addins

Untitled1* ×

tabla_cox ×

conoc_activ_factor_cancer_cervical ×

Render on Save

Render

Run

Publish

Source

Visual

B I <>

Normal

Format

Insert

Table

Outline

Reporte para multiples variables:

```
{r}
tabla_cox <- can_cervical_data |>
tbl_uvregression(
  include = c(e_marital, n_educacion, religion, etnia, procedencia, ocupacion,
    ocupacion_convivi, antec_fam, edad_relacion_sexual, parejas_sex, met_anticoncep,
    antec_ets, conocimiento, actitud, practica),
  y = Surv(edad, num_hijos == "Concepcion"),
  method = coxph,
  exponentiate = TRUE,
  conf.int = TRUE,
  hide_n = TRUE,
  add_estimate_to_reference_rows = FALSE,
  pvalue_fun = ~ style_pvalue(.x, digits = 1),
  estimate_fun = ~ style_number(.x, digits = 1),
  label = list(
    e_marital ~ "Estado Marital",
    n_educacion ~ "Nivel de Educacion",
    religion ~ "Religion",
    etnia ~ "Etnia",
    procedencia ~ "Procedencia",
    ocupacion ~ "Ocupacion/trabajo",
    ocupacion_convivi ~ "Ocupacion del conviviente",
    antec_fam ~ "Antecedente familiar de presentar la enf.",
    edad_relacion_sexual ~ "Edad a la que intimo por primera vez",
    parejas_sex ~ "Acompañantes sexuales",
    met_anticoncep ~ "Uso de metodos anticonceptivos",
    antec_ets ~ "Antecedentes de tener una ETS",
    conocimiento ~ "Conocimiento del tema",
    actitud ~ "Actitud ante el caso",
    practica ~ "Practica"
  )
) |>
bold_p(t = 0.05) |>
modify_header(estimate = "***HR no ajustado***", p.value = "***Valor p***")
```

Chunk 20

Quarto

Console

EnvironmentHistoryConnectionsTutorial

Import Dataset20 MiB

List

Data

can_cervical_data	218 obs. of 18 variables	
cancer_cerv	218 obs. of 18 variables	
cervical_data	218 obs. of 18 variables	
conoc_activ_factor_ca...	218 obs. of 18 variables	
km	List of 18	
tabla_cox	List of 5	

FilesPlotsPackagesHelpViewerPresentation

InstallUpdate

Name	Description	Version
User Library		
<input type="checkbox"/> abind	Combine Multidimensional Arrays	1.4-8
<input type="checkbox"/> askpass	Password Entry Utilities for R, Git, and SSH	1.2.1
<input type="checkbox"/> backports	Reimplementations of Functions Introduced Since R-3.0.0	1.5.0
<input type="checkbox"/> base64enc	Tools for base64 encoding	0.1-3
<input type="checkbox"/> bdsmatrix	Routines for Block Diagonal Symmetric Matrices	1.3-7
<input type="checkbox"/> BiasedUrn	Biased Urn Model Distributions	2.0.12
<input type="checkbox"/> bigD	Flexibly Format Dates and Times to a Given Locale	0.3.1
<input type="checkbox"/> bit	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.6.0
<input type="checkbox"/> bit64	A S3 Class for Vectors of 64bit Integers	4.6.0-1
<input type="checkbox"/> bitops	Bitwise Operations	1.0-9
<input type="checkbox"/> blob	A Simple S3 Class for Representing Vectors of Binary Data ('BLOBs')	1.2.4
<input checked="" type="checkbox"/> broom	Convert Statistical Objects into Tidy Tibbles	1.0.8
<input type="checkbox"/> broom.helpers	Helpers for Model Coefficients Tibbles	1.2.1.0
<input type="checkbox"/> bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.9.0
<input type="checkbox"/> cachem	Cache R Objects with Automatic Pruning	1.1.0
<input type="checkbox"/> callr	Call R from R	3.7.6
<input type="checkbox"/> car	Companion to Applied Regression	3.1-3

Source

Visual

B I <>

Normal

Format

Insert

Table

Outline

Imprimimos la tabla:

```
{r}
tabla_cox
```

bajo		
medio		
no conoce		
Actitud ante el caso		
negativa	—	—
positiva		
Practica		
correcta	—	—
incorrecta		

Abreviaciones: CI = Intervalo de confianza, HR = Cociente de riesgos instantáneos

R

Global Environment

Data

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