

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled1* x1 x2 x3

Source Visual B I C Normal Format Insert Table Outline

```
---
title: "Practica 3 - 2/2"
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.

Cargamos los paquetes:

```
{r}
install.packages("performance")
```

Cargamos las librerias:

```
{r}
library(tidyverse)
library(here)
library(rio)
library(gtsummary)
```

Console Terminal Background Jobs

R - R 4.4.3 - ~/

Environment History Connections Tutorial

Import Dataset 64 MiB

R Global Environment

Data

| | |
|--------------------------|---|
| canc_cervical | 218 obs. of 18 variables |
| canc_cervical_1 | 218 obs. of 18 variables |
| conoc_actit_factor_ca... | 218 obs. of 18 variables |
| multi_backward | List of 31 |
| multi_forward | List of 31 |
| multi_stepwise | List of 31 |
| tabla_final | Large tbl_merge (4 elements, 9.4 MB) |
| tabla_multi | List of 6 |
| tabla_reg_log_univ | Large tbl_uvregression (5 elements, 22 MB) |
| tabla_univ | Large tbl_uvregression (5 elements, 7.3 MB) |
| var_modelo | List of 30 |

Files Plots Packages Help Viewer Presentation

Install Update

| 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"/> bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |
| <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 |

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Cargamos los paquetes:

```
{r}
install.packages("performance")
```

Cargamos las librerias:

```
{r}
library(tidyverse)
library(here)
library(rio)
library(gtsummary)
library(car)
library(survival)
library(performance)
```

Console Terminal Background Jobs

R - R 4.4.3 - ~/

Environment History Connections Tutorial

Import Dataset 64 MiB

R Global Environment

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| | |
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Source Visual B I C Normal Format Insert Table Outline

Cargamos los datos:

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

Revisamos los datos:

```
{r}
head(canc_cervical)
```

Console Terminal Background Jobs

R - R 4.4.3 - ~/

Environment History Connections Tutorial

Import Dataset 64 MiB

R Global Environment

Data

| | |
|--------------------|---|
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| <input type="checkbox"/> bit | Classes and Methods for Fast Memory-Efficient Boolean Selections | 4.6.0 |

Revisamos los datos:

```
{r}
head(canc_cervical)
```

| Description: df [6 x 18] | | | | | | |
|--------------------------|--------------------|----------------|---------------------|-----------------------|--------------------|-----------------|
| | paciente <int> | edad <int> | e_marital <chr> | n_educac... <chr> | religion <chr> | etnia <chr> |
| 1 | 1 | 53 | casada | superior | catolico | mestizo |
| 2 | 2 | 54 | casada | superior | catolico | mestizo |
| 3 | 3 | 26 | soltera | superior | catolico | blanco |
| 4 | 4 | 25 | soltera | superior | ninguna | mestizo |
| 5 | 5 | 25 | soltera | superior | ninguna | mestizo |
| 6 | 6 | 38 | soltera | superior | catolico | mestizo |

6 rows | 1-7 of 18 columns

Analisis Univariado:

```
{r}
canc_cervical_1 <- canc_cervical |>
mutate(antec_ets = relevel(as.factor(antec_ets), ref = "no"),
       antec_fam = relevel(as.factor(antec_fam), ref = "si"),
       practica = relevel(as.factor(practica), ref = "incorrecta")) |>
na.omit()
```

Analysis Univariado:

```
{r}
canc_cervical_1 <- canc_cervical |>
mutate(antec_ets = relevel(as.factor(antec_ets), ref = "no"),
       antec_fam = relevel(as.factor(antec_fam), ref = "si"),
       practica = relevel(as.factor(practica), ref = "incorrecta")) |>
na.omit()
```

Para obtener la tabla con los resultados del análisis univariado, se utiliza la función "tbl_uvregression", que permite generar tablas con las estimaciones de regresión logística para cada variable incluida. Entre sus argumentos se especifican el método de regresión, las variables a analizar, la familia de distribución (binomial para modelos logísticos), y opciones de presentación de los resultados como los intervalos de confianza, valores p y formato de los estimadores.

```
{r}
tabla_reg_log_univ <- canc_cervical_1 |>
tbl_uvregression(
  include = c(edad, practica, edad_relacion_sexual, parejas_sex, num_hijos),
  y = antec_ets,
  method = glm,
  method.args = list(family = binomial),
  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 = 2),
  label = list(
    edad ~ "Edad (años)",
    practica ~ "Practica".
  )
)
```

ConsoleTerminalBackground Jobs

R - R4.4.3 - ~ />

File Edit Code View Plots Session Build Debug Profile Tools Help

EnvironmentHistoryConnectionsTutorial

Import Dataset64 MiB

R - Global Environment

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FilesPlotsPackagesHelpViewerPresentation

InstallUpdate

NameDescriptionVersion

User Library

abindCombine Multidimensional Arrays1.4-8

askpassPassword Entry Utilities for R, Git, and SSH1.2.1

backportsReimplementations of Functions Introduced Since R-3.0.01.5.0

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bdsmatrixRoutines for Block Diagonal Symmetric Matrices1.3-7

BiasedUrnBiased Urn Model Distributions2.0.12

bigDFlexibly Format Dates and Times to a Given Locale0.3.1

```
{r}
tabla_reg_log_univ <- canc_cervical_1 |>
tbl_uvregression(
  include = c(edad, practica, edad_relacion_sexual, parejas_sex, num_hijos),
  y = antec_ets,
  method = glm,
  method.args = list(family = binomial),
  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 = 2),
  label = list(
    edad ~ "Edad (años)",
    practica ~ "Practica",
    edad_relacion_sexual ~ "Edad a la que intimaron",
    parejas_sex ~ "N° de parejas sexuales",
    num_hijos ~ "Numero de hijos"
  )
) |>
bold_labels() |>
bold_p(t = 0.05) |>
modify_header(estimate = "**OR no ajustado**", p.value = "**Valor p**")
```

```
{r}
tabla_reg_log_univ
```

| bajo | 170,907,086.80 | 0.00, | 0.992 |
|-------|----------------|-------|-------|
| medio | 54,256,218.03 | 0.00, | 0.993 |

ConsoleTerminalBackground Jobs

R - R4.4.3 - ~ />

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EnvironmentHistoryConnectionsTutorial

Import Dataset64 MiB

R - Global Environment

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bayestestRUnderstand and Describe Bayesian Models and Posterior Distributions0.16.0

bdsmatrixRoutines for Block Diagonal Symmetric Matrices1.3-7

```
{r}
tabla_reg_log_univ
```

| Characteristic | OR no ajustado | 95% CI | Valor P |
|----------------|----------------|-------------|---------|
| edad | 0.99 | 0.95, 1.04 | 0.634 |
| e_marital | | | |
| casada | — | — | |
| conviviente | 4.63 | 1.32, 21.50 | 0.026 |
| soltera | 1.29 | 0.17, 8.05 | 0.784 |
| viuda | 5.06 | 0.23, 47.21 | 0.187 |
| n_educacion | | | |
| primaria | — | — | |
| secundaria | 0.51 | 0.06, 10.86 | 0.575 |

Ajuste del modelo inicial:

ConsoleTerminalBackground Jobs

R - R4.4.3 - ~ />

File Edit Code View Plots Session Build Debug Profile Tools Help

EnvironmentHistoryConnectionsTutorial

Import Dataset63 MiB

R - Global Environment

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BiasedUrnBiased Urn Model Distributions2.0.12

Untitled1 *

canc_cervical_1 *conoc_actit_factor_cancer_cervical *

Render on Save

ABC

Render

Run

Publish

SourceVisualB I </> NormalFormatInsertTableOutline

{r}

tabla_reg_log_univ

| | | | |
|-------------|------|-------------|--------------|
| superior | 0.21 | 0.03, 4.37 | 0.185 |
| religion | | | |
| catolico | — | — | |
| evangelista | 0.45 | 0.02, 2.42 | 0.453 |
| ninguna | 7.00 | 0.91, 39.90 | 0.034 |
| etnia | | | |
| blanco | — | — | |
| mestizo | 1.37 | 0.35, 9.12 | 0.687 |
| otro | 2.92 | 0.32, 26.46 | 0.307 |
| procedencia | | | |
| rural | — | — | |

Ajuste del modelo inicial:

Chunk 6

Quarto

ConsoleTerminalBackground Jobs

R - R 4.1.3

EnvironmentHistoryConnectionsTutorial

Import Dataset63 MiB

R - Global Environment

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| <input type="checkbox"/> bigD | Flexibly Format Dates and Times to a Given Locale | 0.3.1 |

Untitled1 *

canc_cervical_1 *conoc_actit_factor_cancer_cervical *

Render on Save

ABC

Render

Run

Publish

SourceVisualB I </> NormalFormatInsertTableOutline

{r}

tabla_reg_log_univ

| | | | |
|-----------------|-------|--------------|--------------|
| procedencia | | | |
| rural | — | — | |
| urbano | 0.83 | 0.28, 2.40 | 0.733 |
| ocupacion | | | |
| ama de casa | — | — | |
| empleada | 0.26 | 0.07, 0.97 | 0.040 |
| estudiante | 0.00 | | 0.989 |
| otro | 1.20 | 0.22, 5.54 | 0.818 |
| sin empleo | 12.80 | 1.05, 308.45 | 0.053 |
| ocupacion_convi | | | |
| empleado | — | — | |

Ajuste del modelo inicial:

Chunk 6

Quarto

ConsoleTerminalBackground Jobs

R 4.4.2

EnvironmentHistoryConnectionsTutorial

Import Dataset63 MiB

R - Global Environment

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Untitled1 *

canc_cervical_1 *conoc_actit_factor_cancer_cervical *

Render on Save

ABC

Render

Run

Publish

SourceVisualB I </> NormalFormatInsertTableOutline

{r}

tabla_reg_log_univ

| | | | |
|----------------------|-------|--------------|--------------|
| ocupacion_convi | | | |
| empleado | — | — | |
| estudiante | 0.00 | | 0.993 |
| otro | 1.86 | 0.54, 5.86 | 0.296 |
| sin empleo | 17.50 | 1.91, 162.68 | 0.007 |
| antec_fam | | | |
| si | — | — | |
| no | 0.25 | 0.08, 0.74 | 0.011 |
| edad_relacion_sexual | 0.63 | 0.47, 0.83 | 0.002 |
| parejas_sex | 1.43 | 1.17, 1.80 | 0.001 |

Ajuste del modelo inicial:

Chunk 6

Quarto

ConsoleTerminalBackground Jobs

R 4.4.2

EnvironmentHistoryConnectionsTutorial

Import Dataset63 MiB

R - Global Environment

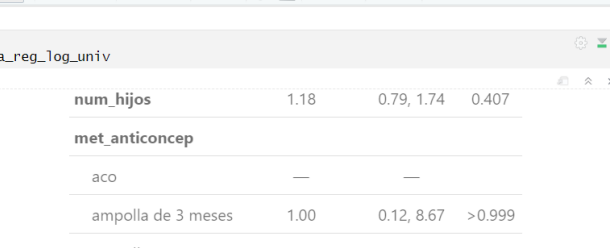
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| <input type="checkbox"/> BiasedUrn | Biased Urn Model Distributions | 2.0.12 |



The screenshot shows the RStudio interface with the following elements:

- Top Panel:** Shows the R console with the command `{r} tabla_reg_log_univ`.
- Table:** A table of regression results with four columns: variable name, coefficient, 95% confidence interval, and p-value.
- Table Content:**

| Variable | Coefficient | 95% CI | p-value |
|-----------------------|----------------|-------------|---------|
| met_anticoncep | | | |
| aco | — | — | |
| ampolla de 3 meses | 1.00 | 0.12, 8.67 | >0.999 |
| ampolla mes | 1.00 | 0.12, 8.67 | >0.999 |
| diu | 4.62 | 0.69, 38.08 | 0.114 |
| implante_sd | 2.00 | 0.09, 23.01 | 0.587 |
| no uso | 1.67 | 0.34, 12.03 | 0.553 |
| conocimiento | | | |
| alto | — | — | |
| bajo | 170,907,086.80 | 0.00, | 0.992 |
- Bottom Panel:** Shows the R console with the command `Ajuste del modelo inicial:`.

The screenshot shows the RStudio interface. The top pane is the Environment pane, displaying a list of objects in the global environment. The bottom pane is the Files pane, showing installed and updated packages.

Environment Pane:

| Object | Type | Size |
|--------------------------|---|------|
| canc_cervical | 218 obs. of 18 variables | |
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Files Pane:

| Package | Description | Version |
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| askpass | Password Entry Utilities for R, Git, and SSH | 1.2.1 |
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| base64enc | Tools for base64 encoding | 0.1-3 |
| bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |

Untitled1*

canc_cervical_1conoc_actit_factor_cancer_cervical

Render on SaveRenderRunPublish

SourceVisualB I / <> NormalFormatInsertTableOutline

```
summary(multi_backward)

Call:
glm(formula = antec_ets ~ edad_relacion_sexual + parejas_sex,
     family = binomial(link = "logit"), data = canc_cervical_1)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)    3.1000     2.8028   1.106  0.26872
edad_relacion_sexual -0.3607    0.1511  -2.387  0.01697 *
parejas_sex      0.3315    0.1283   2.584  0.00975 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 109.237  on 217  degrees of freedom
Residual deviance:  91.451  on 215  degrees of freedom
AIC: 97.451

Number of Fisher Scoring iterations: 6

{r}
summary(multi_forward)
```

Chunk 6Quarto

ConsoleTerminalBackground Jobs

R - R 4.4.3 - ~/

EnvironmentHistoryConnectionsTutorial

Import Dataset64 MiB

RGlobal Environment

Data

| | | |
|-----------------------|---|--|
| canc_cervical | 218 obs. of 18 variables | |
| canc_cervical_1 | 218 obs. of 18 variables | |
| conoc_actit_factor_ca | 218 obs. of 18 variables | |
| multi_backward | List of 31 | |
| multi_forward | List of 31 | |
| multi_stepwise | List of 31 | |
| tabla_final | Large tbl_merge (4 elements, 9.4 MB) | |
| tabla_multi | List of 6 | |
| tabla_reg_log_univ | Large tbl_uvregression (5 elements, 22 MB) | |
| tabla_univ | Large tbl_uvregression (5 elements, 7.3 MB) | |
| var_modelo | List of 30 | |

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"/> bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |
| <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"/> biqD | Flexibly Format Dates and Times to a Given Locale | 0.3.1 |

Untitled1*

canc_cervical_1conoc_actit_factor_cancer_cervical

Render on SaveRenderRunPublish

SourceVisualB I / <> NormalFormatInsertTableOutline

```
{r}
summary(multi_forward)

Call:
glm(formula = antec_ets ~ edad + practica + edad_relacion_sexual +
     parejas_sex + num_hijos, family = binomial(link = "logit"),
     data = canc_cervical_1)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)    2.67025     2.97834   0.897  0.36996
edad           0.03875    0.03797   1.021  0.30746
practicacorrecta -0.03328    0.61002  -0.055  0.95650
edad_relacion_sexual -0.44142    0.18040  -2.447  0.01441 *
parejas_sex      0.39785    0.14344   2.774  0.00554 **
num_hijos       -0.01537    0.27282  -0.056  0.95507
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 109.24  on 217  degrees of freedom
Residual deviance:  89.82  on 212  degrees of freedom
AIC: 101.82

Number of Fisher Scoring iterations: 6

{r}
summary(multi_stepwise)
```

Chunk 6Quarto

ConsoleTerminalBackground Jobs

R - R 4.4.3 - ~/

EnvironmentHistoryConnectionsTutorial

Import Dataset64 MiB

RGlobal Environment

Data

| | | |
|-----------------------|---|--|
| canc_cervical | 218 obs. of 18 variables | |
| canc_cervical_1 | 218 obs. of 18 variables | |
| conoc_actit_factor_ca | 218 obs. of 18 variables | |
| multi_backward | List of 31 | |
| multi_forward | List of 31 | |
| multi_stepwise | List of 31 | |
| tabla_final | Large tbl_merge (4 elements, 9.4 MB) | |
| tabla_multi | List of 6 | |
| tabla_reg_log_univ | Large tbl_uvregression (5 elements, 22 MB) | |
| tabla_univ | Large tbl_uvregression (5 elements, 7.3 MB) | |
| var_modelo | List of 30 | |

FilesPlotsPackagesHelpViewerPresentation

InstallUpdate

| Name | Description | Version |
|-------------------------------------|---|---------|
| User Library | | |
| <input type="checkbox"/> abind | Combine Multidimensional Arrays | 1.4-8 |
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| <input type="checkbox"/> bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |
| <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"/> biqD | Flexibly Format Dates and Times to a Given Locale | 0.3.1 |

Untitled1*

canc_cervical_1conoc_actit_factor_cancer_cervical

Render on SaveRenderRunPublish

SourceVisualB I / <> NormalFormatInsertTableOutline

```
{r}
summary(multi_stepwise)

Call:
glm(formula = antec_ets ~ edad_relacion_sexual + parejas_sex,
     family = binomial(link = "logit"), data = canc_cervical_1)

Coefficients:
              Estimate Std. Error z value Pr(>|z|)
(Intercept)    3.1000     2.8028   1.106  0.26872
edad_relacion_sexual -0.3607    0.1511  -2.387  0.01697 *
parejas_sex      0.3315    0.1283   2.584  0.00975 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 109.237  on 217  degrees of freedom
Residual deviance:  91.451  on 215  degrees of freedom
AIC: 97.451

Number of Fisher Scoring iterations: 6

Evaluacion de la colinealidad:

Finalmente, evaluamos la colinealidad usando la función check_collinearity() del paquete performance.

{r}
performance::check_collinearity(multi_backward_ci = NULL)
```

Chunk 6Quarto

ConsoleTerminalBackground Jobs

R - R 4.4.3 - ~/

EnvironmentHistoryConnectionsTutorial

Import Dataset64 MiB

RGlobal Environment

Data

| | | |
|-----------------------|---|--|
| canc_cervical | 218 obs. of 18 variables | |
| canc_cervical_1 | 218 obs. of 18 variables | |
| conoc_actit_factor_ca | 218 obs. of 18 variables | |
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| multi_forward | List of 31 | |
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| tabla_multi | List of 6 | |
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| tabla_univ | Large tbl_uvregression (5 elements, 7.3 MB) | |
| var_modelo | List of 30 | |

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 |
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| <input type="checkbox"/> bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |
| <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"/> biqD | Flexibly Format Dates and Times to a Given Locale | 0.3.1 |

Evaluación de la colinealidad:

Finalmente, evaluamos la colinealidad usando la función `check_collinearity()` del paquete `performance`.

```
{r}
performance::check_collinearity(multi_backward, ci = NULL)

# Check for Multicollinearity

Low Correlation
```

| | Term | VIF | adj. VIF | Tolerance |
|----------------------|------|------|----------|-----------|
| edad_relacion_sexual | 1.00 | 1.00 | 1.00 | 1.00 |
| parejas_sex | 1.00 | 1.00 | 1.00 | 1.00 |

```
{r}
performance::check_collinearity(multi_forward, ci = NULL)

# Check for Multicollinearity

Low Correlation
```

| | Term | VIF | adj. VIF | Tolerance |
|----------------------|------|------|----------|-----------|
| edad | 2.17 | 1.47 | 0.46 | |
| practica | 1.00 | 1.00 | 1.00 | |
| edad_relacion_sexual | 1.39 | 1.18 | 0.72 | |
| parejas_sex | 1.22 | 1.10 | 0.82 | |
| num_hijos | 1.66 | 1.29 | 0.60 | |

Environment History Connections Tutorial

R - Global Environment

Data

| | |
|--------------------------|---|
| canc_cervical | 218 obs. of 18 variables |
| canc_cervical_1 | 218 obs. of 18 variables |
| conoc_actit_factor_ca... | 218 obs. of 18 variables |
| multi_backward | List of 31 |
| multi_forward | List of 31 |
| multi_stepwise | List of 31 |
| tabla_final | Large tbl_merge (4 elements, 9.4 MB) |
| tabla_multi | List of 6 |
| tabla_reg_log_univ | Large tbl_uvregression (5 elements, 22 MB) |
| tabla_univ | Large tbl_uvregression (5 elements, 7.3 MB) |
| var_modelo | List of 30 |

Files Plots Packages Help Viewer Presentation

Install Update

| Name | Description | Version |
|-------------------------------------|---|---------|
| User Library | | |
| <input type="checkbox"/> abind | Combine Multidimensional Arrays | 1.4-8 |
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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 |

```
{r}
performance::check_collinearity(multi_stepwise, ci = NULL)

# Check for Multicollinearity

Low Correlation
```

| | Term | VIF | adj. VIF | Tolerance |
|----------------------|------|------|----------|-----------|
| edad_relacion_sexual | 1.00 | 1.00 | 1.00 | 1.00 |
| parejas_sex | 1.00 | 1.00 | 1.00 | 1.00 |

Los modelos generados mediante eliminación hacia atrás (backward elimination) y selección paso a paso (stepwise selection) mostraron valores de VIF de 1, lo que indica una baja o nula colinealidad entre las variables presentadas.

En cambio, el modelo obtenido con la técnica de selección hacia adelante (forward selection) presentó valores de VIF de 1 en "edad_relacion_sexual" y "parejas sexuales". Este hallazgo es esperable, dado que ambas variables relacionan la edad a la que se intimó por primera vez y el N° de parejas sexuales que tienen actualmente, lo que sugiere redundancia y posible colinealidad, verificando la multicolinealidad dentro de un modelo estadístico (`multi_stepwise`) utilizando la función `performance::check_collinearity()`. Al haber una baja correlación y una tabla con los valores del Factor de Inflación de la Varianza (VIF) para dos términos: "**edad_relacion_sexual**" y "**parejas sexuales**". Ambas variables tienen un VIF de 1.00, un VIF ajustado de 1.00 y una tolerancia de 1.00. Esto indica una ausencia completa de multicolinealidad entre estas variables específicas en el modelo, lo que sugiere que son independientes entre sí y no causan problemas para la estabilidad o interpretación de nuestro modelo.

Environment History Connections Tutorial

R - Global Environment

Data

| | |
|--------------------------|---|
| canc_cervical | 218 obs. of 18 variables |
| canc_cervical_1 | 218 obs. of 18 variables |
| conoc_actit_factor_ca... | 218 obs. of 18 variables |
| multi_backward | List of 31 |
| multi_forward | List of 31 |
| multi_stepwise | List of 31 |
| tabla_final | Large tbl_merge (4 elements, 9.4 MB) |
| tabla_multi | List of 6 |
| tabla_reg_log_univ | Large tbl_uvregression (5 elements, 22 MB) |
| tabla_univ | Large tbl_uvregression (5 elements, 7.3 MB) |
| var_modelo | List of 30 |

Files Plots Packages Help Viewer Presentation

Install Update

| 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 |
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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 |

```
{r}
tabla_univ <- canc_cervical_1 |>
tbl_uvregression(
  include = c(edad, practica, edad_relacion_sexual, parejas_sex, num_hijos),
  y = antec_ets,
  method = glm,
  method.args = list(family = binomial),
  exponentiate = TRUE,
  conf.int = TRUE,
  hide_n = TRUE,
  add_estimate_to_reference_rows = FALSE,
  pvalue_fun = ~ style_pvalue(.x, digits = 3),
  estimate_fun = ~ style_number(.x, digits = 2),
  label = list(
    edad ~ "Edad (años)",
    practica ~ "Practica",
    edad_relacion_sexual ~ "Edad a la que intimaron",
    parejas_sex ~ "N° de parejas sexuales",
    num_hijos ~ "Numero de hijos"
  )
) |>
bold_labels() |>
bold_p(t = 0.05) |>
modify_header(estimate = "**OR**", p.value = "**Valor P**")
```

Tabla para los resultados de la regresión univariado (no ajustado)

Tabla para los resultados de la regresión multivariable (ajustado)

Environment History Connections Tutorial

R - Global Environment

Data

| | |
|--------------------------|---|
| canc_cervical | 218 obs. of 18 variables |
| canc_cervical_1 | 218 obs. of 18 variables |
| conoc_actit_factor_ca... | 218 obs. of 18 variables |
| multi_backward | List of 31 |
| multi_forward | List of 31 |
| multi_stepwise | List of 31 |
| tabla_final | Large tbl_merge (4 elements, 9.4 MB) |
| tabla_multi | List of 6 |
| tabla_reg_log_univ | Large tbl_uvregression (5 elements, 22 MB) |
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Files Plots Packages Help Viewer Presentation

Install Update

| 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"/> bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |
| <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 |

Go to file/function

Addins

Render on Save

Render

Run

Publish

Source

Visual

Normal

Format

Insert

Table

Outline

Untitled1 *canc_cervical_1conoc_actit_factor_cancer_cervical

Tabla para los resultados de la regresión multivariable (ajustado)

```
{r}
tabla_multi <- glm(
  antec_ets ~ edad + parejas_sex + num_hijos,
  family = binomial(link = "logit"),
  data = canc_cervical_1
)
tbl_regression(
  exponentiate = TRUE,
  conf.int = TRUE,
  pvalue_fun = ~ style_pvalue(x, digits = 3),
  estimate_fun = ~ style_number(x, digits = 2),
  label = list(
    edad ~ "Edad (años)",
    parejas_sex ~ "Nº de parejas sexuales",
    num_hijos ~ "Numero de hijos"
  )
)
bold_labels()
bold_p(t = 0.05)
modify_header(estimate = "**OR**", p.value = "**Valor P**")
```

Chunk 6

ConsoleTerminalBackground Jobs

File Edit Code View Plots Session Data Debug Profile Tools Help

Project: (None)

EnvironmentHistoryConnectionsTutorial

Import Dataset57 MiB

RGlobal Environment

Data

canc_cervical218 obs. of 18 variables

canc_cervical_1218 obs. of 18 variables

conoc_actit_factor_ca...218 obs. of 18 variables

multi_backwardList of 31

multi_forwardList of 31

multi_stepwiseList of 31

tabla_finalLarge tbl_merge (4 elements, 9.4 MB)

tabla_multiList of 6

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FilesPlotsPackagesHelpViewerPresentation

InstallUpdate

NameDescriptionVersion

User Library

abindCombine Multidimensional Arrays1.4-8

askpassPassword Entry Utilities for R, Git, and SSH1.2.1

backportsReimplementations of Functions Introduced Since R-3.0.01.5.0

base64encTools for base64 encoding0.1-3

bayestestRUnderstand and Describe Bayesian Models and Posterior Distributions0.16.0

bdsmatrixRoutines for Block Diagonal Symmetric Matrices1.3-7

BiasedUrnBiased Urn Model Distributions2.0.12

binR

Go to file/function

Addins

Render on Save

Render

Run

Publish

Source

Visual

Normal

Format

Insert

Table

Outline

Untitled1 *canc_cervical_1conoc_actit_factor_cancer_cervical

La tabla final la construimos usando la función tbl_merge(). De modo que la tabla del análisis univariado (no ajustado) y multivariado (ajustado), se muestren lado a lado.

```
{r}
tabla_final <-
tbl_merge(
  list(tabla_univ, tabla_multi),
  tab_spanner = c("**Univariado**", "**Multivariado**")
)
```

Chunk 6

ConsoleTerminalBackground Jobs

File Edit Code View Plots Session Data Debug Profile Tools Help

```
{r}
tabla_final
```

| | Univariado | | | Multivariado | | |
|-------------------------|------------|------------|---------|--------------|------------|---------|
| Characteristic | OR | 95% CI | Valor P | OR | 95% CI | Valor P |
| Edad (años) | 0.99 | 0.95, 1.04 | 0.634 | 0.99 | 0.93, 1.05 | 0.764 |
| Practica | | | | | | |
| incorrecta | — | — | | | | |
| correcta | 0.91 | 0.27, 2.66 | 0.867 | | | |
| Edad a la que intimaron | 0.63 | 0.47, 0.83 | 0.002 | | | |
| Nº de parejas sexuales | 1.43 | 1.17, 1.80 | 0.001 | 1.44 | 1.16, 1.87 | 0.002 |

Chunk 6

ConsoleTerminalBackground Jobs

File Edit Code View Plots Session Data Debug Profile Tools Help

Project: (None)

EnvironmentHistoryConnectionsTutorial

Import Dataset57 MiB

RGlobal Environment

Data

canc_cervical218 obs. of 18 variables

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conoc_actit_factor_ca...218 obs. of 18 variables

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bdsmatrixRoutines for Block Diagonal Symmetric Matrices1.3-7

BiasedUrnBiased Urn Model Distributions2.0.12

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Go to file/function

Addins

Render on Save

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Normal

Format

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Table

Outline

Untitled1 *canc_cervical_1conoc_actit_factor_cancer_cervical

La tabla final la construimos usando la función tbl_merge(). De modo que la tabla del análisis univariado (no ajustado) y multivariado (ajustado), se muestren lado a lado.

```
{r}
tabla_final
```

| | Univariado | | | Multivariado | | |
|-------------------------|------------|------------|---------|--------------|------------|---------|
| Characteristic | OR | 95% CI | Valor P | OR | 95% CI | Valor P |
| Edad (años) | 0.99 | 0.95, 1.04 | 0.634 | 0.99 | 0.93, 1.05 | 0.764 |
| Practica | | | | | | |
| incorrecta | — | — | | | | |
| correcta | 0.91 | 0.27, 2.66 | 0.867 | | | |
| Edad a la que intimaron | 0.63 | 0.47, 0.83 | 0.002 | | | |
| Nº de parejas sexuales | 1.43 | 1.17, 1.80 | 0.001 | 1.44 | 1.16, 1.87 | 0.002 |
| Numero de hijos | 1.18 | 0.79, 1.74 | 0.407 | 1.33 | 0.82, 2.14 | 0.244 |

Abbreviations: CI = Confidence Interval, OR = Odds Ratio

Chunk 6

ConsoleTerminalBackground Jobs

File Edit Code View Plots Session Data Debug Profile Tools Help

Project: (None)

EnvironmentHistoryConnectionsTutorial

Import Dataset57 MiB

RGlobal Environment

Data

canc_cervical_1218 obs. of 18 variables

conoc_actit_factor_ca...218 obs. of 18 variables

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base64encTools for base64 encoding0.1-3

bayestestRUnderstand and Describe Bayesian Models and Posterior Distributions0.16.0

bdsmatrixRoutines for Block Diagonal Symmetric Matrices1.3-7

BiasedUrnBiased Urn Model Distributions2.0.12

binR

Go to file/function

Addins

Untitled1*

canc_cervical_1

conoc_actit_factor_cancer_cervical

Render on SaveRenderRunPublish

SourceVisualNormalFormatInsertTableOutline

| | | | | |
|--|------|------------|-------|-----------------------|
| incorrecta | — | — | | |
| correcta | 0.91 | 0.27, 2.66 | 0.867 | |
| Edad a la que intimaron | 0.63 | 0.47, 0.83 | 0.002 | |
| N° de parejas sexuales | 1.43 | 1.17, 1.80 | 0.001 | 1.44 1.16, 1.87 0.002 |
| Numero de hijos | 1.18 | 0.79, 1.74 | 0.407 | 1.33 0.82, 2.14 0.244 |
| Abbreviations: CI = Confidence Interval, OR = Odds Ratio | | | | |

INTERPRETACION:

La tabla nos muestra resultados de análisis univariados y multivariados. Se observa que la "Edad (años)", la "Practica" y el "Numero de hijos" no son predictores estadísticamente significativos, ya que sus valores P son superiores a 0.05. En contraste, la "Edad a la que intimaron" es un predictor significativo (Valor P = 0.002 en ambos análisis), con un OR de 0.63, **indicando que una mayor edad de inicio disminuye la probabilidad del evento dependiente**. De manera similar, el "N° de parejas sexuales" es un predictor altamente significativo (Valores P = 0.001 y 0.002), con un OR de aproximadamente 1.44, sugiriendo **que un mayor número de parejas sexuales aumenta la probabilidad del evento, que en nuestro caso sería que, se aumenta la probabilidad de contraer esta enfermedad o que esta se presente**.

Project: (None)

EnvironmentHistoryConnectionsTutorial

RGlobal Environment

Data

- canc_cervical218 obs. of 18 variables
- canc_cervical_1218 obs. of 18 variables
- conoc_actit_factor_c...218 obs. of 18 variables
- multi_backwardList of 31
- multi_forwardList of 31
- multi_stepwiseList of 31
- tabla_finalLarge tbl_merge (4 elements, 9.4 MB)
- tabla_multiList of 6
- tabla_reg_log_univLarge tbl_uvregression (5 elements, 22 MB)
- tabla_univLarge tbl_uvregression (5 elements, 7.3 MB)
- var_modeloList of 30

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"/> bayestestR | Understand and Describe Bayesian Models and Posterior Distributions | 0.16.0 |
| <input type="checkbox"/> bdsmatrix | Routines for Block Diagonal Symmetric Matrices | 1.3-7 |
| <input type="checkbox"/> BiasedUrn | Biased Urn Model Distributions | 2.0.12 |