

File Edit Code View Plots Session Build Debug Profile Tools Help

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Addins

Untitled1*

data_cancer

conoc_actit_factor_cancer_cervical

Render on Save

Render

Run

Publish

Source

Visual

B I <>

Header 2

Format

Insert

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Outline

|(Untitled)

```
---
title: "practica calificada"
author: "grupo 06"
format: html
editor: visual
---
```

1.- ALACOTE SALAS, Aylin Elisa

2.- ESQUIVEL MOLERO, Lourdes Valeria

3.- PALACIOS SALINAS, Danna Ariela

4.- ROJAS CORREA, Aitana

5.- VELASQUEZ ROMAN, Alvaro Fabian

Practica:

Instalando paquetes:

```
{r}
#install.packages("gtsummary")
#install.packages("finalfit")
#install.packages("flextable")
```

Console

Terminal

Background Jobs

R • R 4.4.3 • ~/estadistica_upsjb_estudio/Practica calificada/

\$ actitud : chr "negativa" "positiva" "positiva" "positiva" ...

\$ practica : chr "incorrecta" "incorrecta" "incorrecta" "correcta" ...

> mean(data_cancer\$parejas_sex, na.rm = T)

[1] 2.509174

> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura

> hist(data_cancer\$edad_relacion_sexual)

> hist(data_cancer\$parejas_sex)

> |

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conoc_actit_factor... 218 obs. of 18 variables

data_cancer 218 obs. of 18 variables

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Practica:

Instalando paquetes:

```
{r}
#install.packages("gtsummary")
#install.packages("finalfit")
#install.packages("flextable")
```

Cargando paquetes

```
{r}
library(tidyverse)
library(here)
library(rio)
library(gtsummary) ## Para la "Tabla 1"
library(Finalfit)
library(flextable)
```

Cargando datos:

```
{r}
data_cancer = import("~/estadistica_upsjb_estudio/Estadistica/data
/conoc_actit_factor_cancer_cervical.csv")
```

Console

Terminal

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R • R 4.4.3 • ~/estadistica_upsjb_estudio/Practica calificada/

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|(Untitled)

```
library(Finalfit)
library(flextable)
```

Cargando datos:

```
{r}
data_cancer = import("~/estadistica_upsjb_estudio/Estadistica/data
/conoc_actit_factor_cancer_cervical.csv")
```

Estructura de los datos:

```
{r}
str(data_cancer)
```

Console

Terminal

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Variables categoricas:

```
{r}
table(data_cancer$santec_fam, useNA = "ifany")
```

no	si
175	43

```
{r}
table(data_cancer$santec_ets, useNA = "ifany")
```

no	si
203	15

```
{r}
table(data_cancer$practica, useNA = "ifany")
```

correcta	incorrecta
77	141

Console Terminal Background Jobs

```
R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
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$ practica         : chr "incorrecta" "incorrecta" "incorrecta" "correcta" ...
> mean(data_cancer$parejas_sex, na.rm = T)
[1] 2.509174
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
```

Con tidyverse

```
{r}
data_cancer |>
dplyr::count(conocimiento, sort = TRUE)
```

conocimiento	n
<chr>	<int>
alto	85
medio	67
bajo	60
no conoce	6

4 rows

Console Terminal Background Jobs

```
R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
$ actitud          : chr "negativa" "positiva" "positiva" "positiva" ...
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[1] 2.509174
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> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
```

Valores perdidos en proporciones:

```
{r}
prop.table(table(data_cancer$conocimiento, useNA = "ifany"))
```

alto	bajo	medio	no conoce
0.38990826	0.27522936	0.30733945	0.02752294

RESUMEN DE VARIABLES CONTINUAS:

```
{r}
mean(data_cancer$parejas_sex, na.rm = TRUE)
```

[1] 2.509174

```
{r}
sd(data_cancer$parejas_sex, na.rm = TRUE)
```

[1] 1.699121

Console Terminal Background Jobs

```
R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
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[1] 2.509174
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> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
```

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<input type="checkbox"/> cards	Analysis Results Data	0.6.0

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Data

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<input type="checkbox"/> callrnan	Translate Spreadsheet Call Banner to Rows and Columns	1.1.0

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Addins

data_cancer x conoc_actit_factor_cancer_cervical x

Render on Save

Visual

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Format Insert Table

Outline

```
{r}
min(data_cancer$edad_relacion_sexual, na.rm = TRUE) # Proporciona el valor mínimo

IQR(data_cancer$edad_relacion_sexual, na.rm = TRUE) # Calcula el rango
intercuartílico

median(data_cancer$edad_relacion_sexual, na.rm = TRUE) # Calcula la mediana

[1] 13
[1] 2
[1] 19
```

Función summary:

```
{r}
summary(data_cancer$parejas_sex)
```

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
	0.000	2.000	2.000	2.509	3.000	15.000

Media:

```
{r}
```

Console Terminal Background Jobs

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$ practica     : chr "incorrecta" "incorrecta" "incorrecta" "correcta" ...
> mean(data_cancer$parejas_sex, na.rm = T)
[1] 2.509174
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
>
```

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Addins

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Outline

Media:

```
{r}
mean(data_cancer$parejas_sex, na.rm = T)
```

[1] 2.509174

Mediana:

```
{r}
median(data_cancer$parejas_sex, na.rm = T)
```

[1] 2

La media y mediana de la variable "parejas_sex" son similares. Estos sugiere que los datos tienen una distribución simétrica.

```
{r}
par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
hist(data_cancer$edad_relacion_sexual)
hist(data_cancer$parejas_sex)
```

Console Terminal Background Jobs

```
R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
$ actitud      : chr "negativa" "positiva" "positiva" "positiva" ...
$ practica     : chr "incorrecta" "incorrecta" "incorrecta" "correcta" ...
> mean(data_cancer$parejas_sex, na.rm = T)
[1] 2.509174
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
```

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Import Dataset 261 MiB

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Addins

data_cancer x conoc_actit_factor_cancer_cervical x

Render on Save

Visual

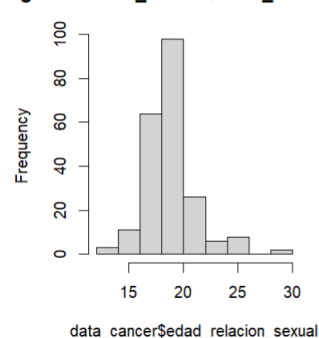
B I <> Header 2

Format Insert Table

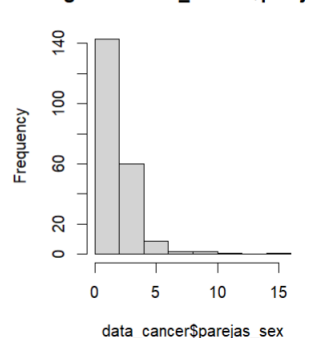
Outline

```
{r}
par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
hist(data_cancer$edad_relacion_sexual)
hist(data_cancer$parejas_sex)
```

Histogram of data_cancer\$edad_relacion_sexual



Histogram of data_cancer\$parejas_sex



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Resumen por otra variable:

```
{r}
data_cancer |>
group_by(edad) |>
summarise(n_observ = n(),
           porcentaje = (n_observ / nrow(data_cancer)*100))
```

A tibble: 40 x 3

edad	n_observ	porcentaje
25	20	9.1743119
26	7	3.2110092
27	3	1.3761468
28	4	1.8348624
29	3	1.3761468
30	1	0.4587156
31	2	0.9174312
32	3	1.3761468
33	1	0.4587156
34	1	0.4587156

1-10 of 40 rows

Console Terminal Background Jobs

```
R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
[1] 2.509174
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
```

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1-10 of 40 rows

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```
{r}
data_cancer |>
group_by(antec_ets) |>
summarize(promedio = mean(parejas_sex, na.rm = T))
```

A tibble: 2 x 2

antec_ets	promedio
no	2.369458
si	4.400000

2 rows

Empleo de la función group_by()

```
{r}
data_cancer |>
group_by(antec_ets, edad_relacion_sexual) |>
summarize(promedio = mean(parejas_sex, na.rm = T))
```

Console Terminal Background Jobs

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R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
[1] 2.509174
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
```

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- conoc_actit_factor... 218 obs. of 18 variables
- data_cancer 218 obs. of 18 variables

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cachem	Cache R Objects with Automatic Pruning	1.1.0
callr	Call R from R	3.7.6

Empleo de la función group_by()

```
{r}
data_cancer |>
group_by(antec_ets, edad_relacion_sexual) |>
summarize(promedio = mean(parejas_sex, na.rm = T))
```

A tibble: 20 x 3

antec_ets	edad_relacion...	promedio
no	13	1.500000
no	15	3.000000
no	16	4.375000
no	17	2.692308
no	18	2.348837
no	19	2.227273
no	20	2.244898
no	21	2.250000
no	22	1.833333
no	23	2.250000

1-10 of 20 rows

Console Terminal Background Jobs

```
R - R 4.4.3 - ~/estadistica_upsjb_estudio/Practica calificada/
[1] 2.509174
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
> hist(data_cancer$edad_relacion_sexual)
> hist(data_cancer$parejas_sex)
> par(mfrow=c(1,2)) # Configuramos e número de elementos por Figura
```

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cards	Analysis Results Data	0.6.0

Go to file/function

Addins

Untitled1* × data_cancer × conoc_actit_factor_cancer_cervical ×

Source Visual B I <> Header 2 Format Insert Table Outline

Percentiles del nivel de glucosa por grupo de edad solo en participantes con diabetes usando la función filter()

```
{r}
data_cancer |>
  filter(antec_ets == "si") |>
  group_by(edad_relacion_sexual) |>
  summarize(p25 = quantile(num_hijos, probs = 0.25, na.rm=T),
            p50 = quantile(num_hijos, probs = 0.50, na.rm=T),
            p75 = quantile(num_hijos, probs = 0.75, na.rm=T))
```

A tibble: 6 × 4

edad_relacion...	p25	p50	p75
<int>	<dbl>	<dbl>	<dbl>
13	2.0	2.0	2.00
16	4.0	4.0	4.00
17	2.0	3.0	4.00
18	1.0	2.0	2.00
19	1.5	2.5	3.25
20	2.0	2.0	2.00

6 rows

Usando Across:

```
{r}
data_cancer |>
  group_by(antec_ets) |>
  summarize(across(.cols = c(edad_relacion_sexual, parejas_sex,
                              num_hijos),
                  .fns = list("promedio" = mean, "DE" = sd,
                              "máximo" = max).
```

Practica calificada

Environment History Connections Tutorial

R Global Environment

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conoc_actit_factor...	218 obs. of 18 variables
data_cancer	218 obs. of 18 variables

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<input type="checkbox"/> cards	Analysis Results Data	0.6.0

Go to file/function

Addins

Untitled1* × data_cancer × conoc_actit_factor_cancer_cervical ×

Source Visual B I <> Header 2 Format Insert Table Outline

6 rows

Usando Across:

```
{r}
data_cancer |>
  group_by(antec_ets) |>
  summarize(across(.cols = c(edad_relacion_sexual, parejas_sex,
                              num_hijos),
                  .fns = list("promedio" = mean, "DE" = sd,
                              "máximo" = max),
                  na.rm = TRUE))
```

A tibble: 2 × 10

antec_ets	edad_relacion_sexual_promedio	edad_relacion_sexual_DE
<chr>	<dbl>	<dbl>
no	19.4532	2.314724
si	17.6000	1.681836

2 rows | 1-3 of 10 columns

Tabla 01 con gtsuammary

```
{r}
#install.packages("finalfit")
#load finalfit package
```

Practica calificada

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Go to file/function

data_cancer

conoc_actit_factor_cancer_cervical

Render on Save

Render

Run

Publish

Source

Visual

B

I

<P>

Normal

Format

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Table

Outline

Tabla 01 con gtsummary

{r}

#install.packages("finalfit")
#install.packages("gtsummary")

{r}

library(gtsummary)

Tabla 1 (basico)

{r}

data_cancer |>
 select(edad, edad_relacion_sexual, parejas_sex, num_hijos, antec_fam) |>
 tbl_summary()

Characteristic	N = 218 ¹
edad	48 (38, 54)
edad_relacion_sexual	19 (18, 20)
parejas_sex	2 (2, 3)
num_hijos	
0	30 (14%)
1	43 (20%)
2	70 (32%)
3	42 (19%)
4	27 (12%)
5	4 (1.8%)
6	2 (0.9%)
antec_fam	
no	175 (80%)
si	43 (20%)

¹ Median (Q1, Q3); n (%)

{r}

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data_cancer 218 obs. of 18 variables

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Name

Description

User Library

askpass

Password Entry Utilities for R, Git, and SSH

backports

Reimplementations of Functions Introduced Since R

base64enc

Tools for base64 encoding

bdsmatrix

Routines for Block Diagonal Symmetric Matrices

bigD

Flexibly Format Dates and Times to a Given Locale

bit

Classes and Methods for Fast Memory-Efficient Bool Selections

bit64

A S3 Class for Vectors of 64bit Integers

bitops

Bitwise Operations

blob

A Simple S3 Class for Representing Vectors of Binary ('BLOBS')

broom

Convert Statistical Objects into Tidy Tibbles

bslib

Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'

cachem

Cache R Objects with Automatic Pruning

callr

Call R from R

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Go to file/function Addins

Untitled1* data_cancer conoc_actit_factor_cancer_cervical

Render on Save Render Run Publish

Source Visual B I <> Normal Format Insert Table Outline

```
{r}
data_cancer |>
  select(edad, edad_relacion_sexual, parejas_sex, num_hijos, antec_fam) |>
  tbl_summary(
    by = antec_fam
  )
```

Characteristic	no N = 175 ¹	si N = 43 ¹
edad	48 (38, 54)	49 (39, 56)
edad_relacion_sexual	19 (18, 20)	19 (17, 20)
parejas_sex	2 (2, 3)	2 (1, 3)
num_hijos		
0	27 (15%)	3 (7.0%)
1	36 (21%)	7 (16%)
2	56 (32%)	14 (33%)
3	35 (20%)	7 (16%)
4	17 (9.7%)	10 (23%)
5	2 (1.1%)	2 (4.7%)
6	2 (1.1%)	0 (0%)

¹ Median (Q1, Q3); n (%)

(Untitled)

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- conoc_actit_factor... 218 obs. of 18 variables
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Go to file/function Addins

Untitled1* data_cancer conoc_actit_factor_cancer_cervical

Render on Save Render Run Publish

Source Visual B I <> Normal Format Insert Table Outline

Configurando estilo e idioma:

```
{r}
theme_gtsummary_language(language = "es") # idioma es = español
theme_gtsummary_journal(journal = "jama")
```

Setting theme "language: es"Setting theme "JAMA"

```
{r}
data_cancer |>
  select(edad, edad_relacion_sexual, parejas_sex, num_hijos, antec_fam) |>
  tbl_summary(
    by = antec_fam
  )
```

Característica	no N = 175	si N = 43
edad, Mediana (IQR)	48 (38 – 54)	49 (39 – 56)
edad_relacion_sexual, Mediana (IQR)	19 (18 – 20)	19 (17 – 20)
parejas_sex, Mediana (IQR)	2 (2 – 3)	2 (1 – 3)
num_hijos, n (%)		
0	27 (15)	3 (7.0)
1	36 (21)	7 (16)
2	56 (32)	14 (33)
3	35 (20)	7 (16)
4	17 (9.7)	10 (23)
5	2 (1.1)	2 (4.7)
6	2 (1.1)	0 (0)

(Untitled)

Environment History Connections Tutorial

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Chunk 2/2