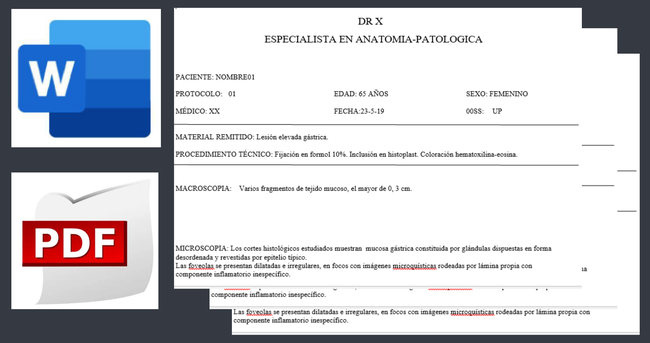
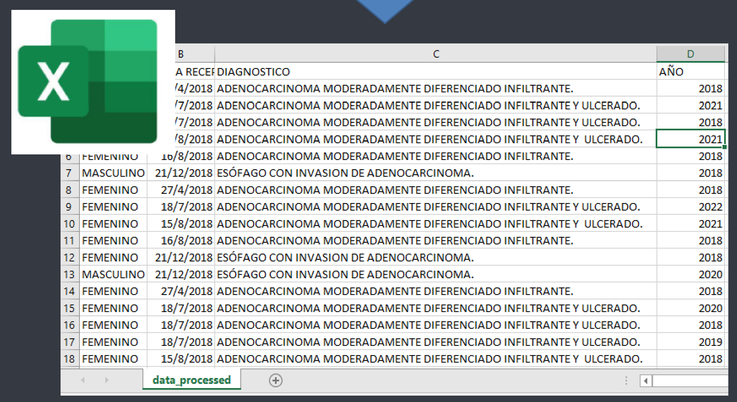
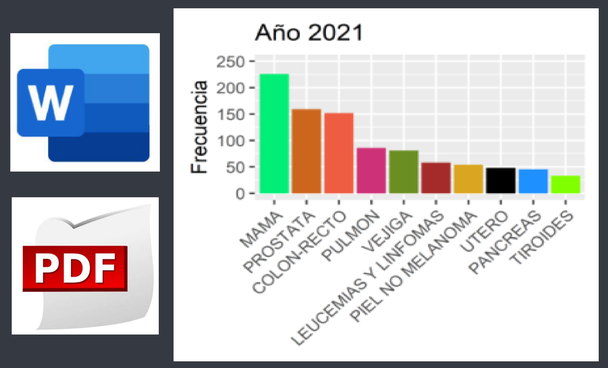
QUICK CANCER REPORT STARTING FROM A RAW DATABASE





	B	C	D
	A RECEI	DIAGNOSTICO	AÑO
	/4/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE.	2018
	/7/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2021
	/7/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2018
	/8/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2021
6	FEMENINO	16/8/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE.	2018
7	MASCULINO	21/12/2018	ESÓFAGO CON INVASION DE ADENOCARCINOMA.	2018
8	FEMENINO	27/4/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE.	2018
9	FEMENINO	18/7/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2022
10	FEMENINO	15/8/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2021
11	FEMENINO	16/8/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE.	2018
12	FEMENINO	21/12/2018	ESÓFAGO CON INVASION DE ADENOCARCINOMA.	2018
13	MASCULINO	21/12/2018	ESÓFAGO CON INVASION DE ADENOCARCINOMA.	2020
14	FEMENINO	27/4/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE.	2018
15	FEMENINO	18/7/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2020
16	FEMENINO	18/7/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2018
17	FEMENINO	18/7/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2019
18	FEMENINO	15/8/2018	ADENOCARCINOMA MODERADAMENTE DIFERENCIADO INFILTRANTE Y ULCERADO.	2018

data_processed



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Introduction

This is a useful tool for the daily practice of cancer registries and has three utilities that can greatly reduce work time and strengthen the confidence of institutions. And it's free.

- It can be used to convert a set of Microsoft Word or PDF files into an ordered database, so you don't have to read each file.
- It can also be used to quickly identify cancer cases in a database, and quickly register them in the CanReg system.
- Even more, it can be used to prepare a quick report for the institutions that provide us their information.

Methods

1°. Scrapping
Input: Files (histopathological reports) .docx .pdf
Process: Read the files, scrap the files and obtain a data table
https://github.com/cballejo/basic_cancer_report/tree/main/report_scraping
file: Convert docx files to csv templates.R (RStudio®) - output: raw data table (csv)

2°. Data processing
Input: raw data table (csv)
Process: Read the .csv file, detect diagnostic keywords, obtain a cancer data table
https://github.com/cballejo/basic_cancer_report/tree/main/data_processing
file: Database leaker.R (RStudio®) - auxiliary file: keyword detection function - output: processed data table (csv)

3° Report
Input: processed data table (csv)
Report structure:• Written introduction• Table of incident cases per year• Table of cancer cases per year and according to location site• Interannual frequency comparison graph found in the institution (top 10 primary sites)• Summary measures of cases• Frequencies of cancer cases by gender and location•Final comments
https://github.com/cballejo/basic_cancer_report/tree/main/final_report
file: Report.Rmd (rmarkdown R) - auxiliary files: templates and header banner - output: final word file (docx)

Language R version 4.2.0 – Rstudio 2022.07.1+554

Packages: tidyverse – officer – fs – glue – lubridate – flextable – janitor – gtsummary - cowplot

Results

A comparison was made between three reports prepared with this methodology and three reports of the same cases but once coded with CIEO-3 in CanReg5.

No differences were observed in the number of cancer cases detected and there were only 3% of cases not included in the corresponding topographical category, but in the category "other tumor locations".

Therefore, this is an effective methodology to detect cancer cases from a set of Microsoft Word or PDF files and provide institutions with a quick and useful statistical report.

FAQ + proposals + opinions

https://github.com/cballejo/basic_cancer_report/tree/main/frecuent_questions