Zurich University of applied sciences School of Life Sciences and facility management Institute of computational life sciences

Lessons from the Past: Visualizing Switzerland's Pandemic History to prepare for the future.

Project Report | Module PODSV

By

Xenia Zbinden, Elisabeth Hermann,
Penélope Plos and Nicole Cieplinski

Submission date: 06.06.2025 | Last Update: 29.05.2025

Academic reviewer: Prof. Dr. Wibke Weber ZHAW Angewandte Linguistik Theaterstrasse 15c, 8400 Winterthur

Prof. Dr. phil. Kaspar Staub UZH Institute of Evolutionary Medicine Winterthurerstrasse 190, 8075 Zürich

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Overview of the Raw Data:

Dataset Name	Source	Storage location
Dataset 1	Kaspar Staub and Wiebke	Uploaded Excel file: 1_History_Pandemics.xlsx in
History of	Weber from	GitHub Repo:
Pandemics in	leaddata.ch	Project PODSV/Data at main ·
Switzerland		plospen1/Project PODSV
Dataset 2	Kaspar Staub and Wiebke	Uploaded Excel files: 2_All_cantons_1953-
	Weber from	1958_Mortality.xlsx,
	leaddata.ch	2_Data_cantons_incidence_weekly_56_58_NEW.xlsx
		and 2_Population_cantons.xlsx in GitHub Repo:
		Project PODSV/Data at main ·
		plospen1/Project_PODSV
Dataset 3	Kaspar Staub and Wiebke	Uplooaded Excel file: 3_Todesursachen Schweiz
3_Todesursachen	Weber from	ohne Alter 1876-2002 in GitHub Rep:
Schweiz ohne	leaddata.ch	Project PODSV/Data at main ·
Alter 1876-2002		plospen1/Project_PODSV
full_data	covid-19-	Uplooaded Excel file: full_data:
	data/public/data/cases deaths	Project PODSV/Data at main ·
	at master · owid/covid-19-data	plospen1/Project PODSV

Table 1: Summary Table of the Raw Datasets

Details Dataset 1

Description:

• Annual mortality statistics in Switzerland from 1880 to 2022, including pandemic-related deaths and excess mortality estimates.

Source Details:

- Historical data from Switzerland
- COVID-19 data from Switzerland

Data Acquisition:

• File: 1_History_Pandemics.xlsx, contact Person Wiebke Weber

Legal Aspects:

• The data is publicly available and free to use for educational and analytical purposes.

Data Governance:

- Category: Public
- No personal data is included.

Access Information:

- Provided as an Excel file. On GitHub, linked at Speicherort.
- Can be accessed using common tools (Excel, Python pandas, etc.)

Data Catalog Dataset 1

Index	Column Name	Data	Values /	Description
		Туре	Validation	

1	Jahr	Integer	1880–2022	Year of observation
2	Todesfälle_Grippe_10000 0	Float	≥ 0	Influenza deaths per 100,000 population
3	Todesfälle_Covid_100000	Float	≥ 0	COVID-19 deaths per 100,000 population
4	TodesfälleGrippe	Float	≥ 0	Total number of influenza deaths
5	TodesfälleCOVID	Float	≥ 0	Total number of COVID-19 deaths
6	Population	Integer	≥ 0	Total population of Switzerland
7	Überasterblichkeit_Alles	Float	Any value (%)	Total excess mortality percentage
8	Überasterblichkeit Plus	Float	≥ 0	Positive excess mortality percentage
9	Überasterblichkeit Minus	Float	≤ 0	Negative excess mortality percentage

Table 2: Data description for the 1_History_Pandemics table

Dataquality Dataset 1

Methodology

- The analysis was performed using automated data profiling tools such as ydata.
- Descriptive statistics and a Pearson correlation matrix were used.
- The dataset includes 143 annual observations from 1880 to 2022.
- There are 9 variables total: 7 numeric and 2 categorical.

General Statistics

• Number of variables: 9

• Number of observations: 143

• Time span: 1880–2022

• Missing cells: 33.3% of all values

• No duplicate rows or invalid entries

• Mean year: 1951

• Mean population: approximately 5.2 million

Key Variables and Values

• TodesfälleGrippe (Influenza deaths): 3 to 21,491 per year, mean = 767, 2.1% missing.

- TodesfälleCOVID: 3 values only, 97.9% missing.
- Todesfälle Grippe 100000: 0.0385 to 554 per 100k, mean = 18.2, minimal missing.
- Todesfälle Covid 100000: 3 values, 97.9% missing.
- ÜbersterblichkeitMinus: -13.8% to 0%, mean = -2.87%, 52.4% missing.
- ÜbersterblichkeitPlus: 0% to 49.3%, mean = 3.74%, 46.2% missing.
- Übersterblichkeit_Alles: nearly complete, -13.8% to 49.3%, mean = 0.66%.

Interpretation and Insights

- The dataset is ideal for long-term influenza mortality analysis.
- COVID-19 data is too incomplete for reliable modeling.
- Excess mortality is a valuable measure for both direct and indirect pandemic impact.
- Population normalization (per 100k) allows comparison across time.
- Negative excess mortality years may reflect successful health measures or mild seasons.

Data Quality Assessment

- Completeness: moderate (mainly missing values in COVID fields).
- Consistency: high (no duplicates or major outliers).
- Usability: excellent for flu and excess mortality; limited for COVID.

Conclusion

- Long-term flu mortality trends
- Excess mortality during pandemics
- Data-driven storytelling

Details Dataset 2

Description:

This dataset contains detailed demographic and epidemiological records for Switzerland and its cantons from 1953 to 1958, including:

- 2 Population cantons.xlsx: Population per canton
- 2_Data_cantons_incidence_weekly_56_58_NEW.xlsx: Influenza incidence (weekly & monthly)
- 2_All_cantons_1953-1958_Mortality.xlsx: Total and influenza-specific mortality per canton

Source Details:

- Data provided via leaddata.ch
- For more information please contact Wiebke Weber or Kaspar Staub

Data Acquisition:

Provided as three Excel files:

- 2_Population_cantons.xlsx
- 2 Data cantons_incidence_weekly_56_58_NEW.xlsx
- 2 All cantons 1953-1958 Mortality.xlsxLegal

Legal Aspects:

- Data is publicly available for educational and research purposes.
- No personal data; anonymized at the canton level

Data Governance:

- Category: Public
- No personal or sensitive information

Access Information:

• Provided as an Excel file. On GitHub, linked at Speicherort.

- Can be imported using Excel, Python (pandas), or R
- Cleaned datasets used in Jupyter Notebook for full reproducibility

Data catalog Dataset 2

Index	Column	Data	Values /	Description
	Name	Туре	Validation	
1	Month	String	January – December	Observation month
2	Year	Integer	1953 – 1958	Observation year
3	Parameter	String	Deaths Influenza	Parameter for the values
4	ZH	Integer	≥ 0	Deaths for specific canton per month
5	BE	Integer	≥ 0	Deaths for specific canton per month
6	LU	Integer	≥ 0	Deaths for specific canton per month
7	UR	Integer	≥ 0	Deaths for specific canton per month
8	SZ	Integer	≥ 0	Deaths for specific canton per month
9	OW	Integer	≥ 0	Deaths for specific canton per month
10	NW	Integer	≥ 0	Deaths for specific canton per month
11	GL	Integer	≥ 0	Deaths for specific canton per month
12	ZG	Integer	≥ 0	Deaths for specific canton per month
13	FR	Integer	≥ 0	Deaths for specific canton per month
14	SO	Integer	≥ 0	Deaths for specific canton per month
15	BS	Integer	≥ 0	Deaths for specific canton per month
16	BL	Integer	≥ 0	Deaths for specific canton per month
17	SH	Integer	≥ 0	Deaths for specific canton per month
18	AR	Integer	≥ 0	Deaths for specific canton per month

19	Al	Integer	≥ 0	Deaths for specific
				canton per month
20	SG	Integer	≥ 0	Deaths for specific
				canton per month
21	GR	Integer	≥ 0	Deaths for specific
				canton per month
22	AG	Integer	≥ 0	Deaths for specific
				canton per month
23	TG	Integer	≥ 0	Deaths for specific
				canton per month
24	TI	Integer	≥ 0	Deaths for specific
				canton per month
25	VD	Integer	≥ 0	Deaths for specific
				canton per month
26	VS	Integer	≥ 0	Deaths for specific
				canton per month
27	NE	Integer	≥ 0	Deaths for specific
				canton per month
28	GE	Integer	≥ 0	Deaths for specific
				canton per month
29	СН	Integer	≥ 0	Deaths for the whole of
				Switzerland per month

Table 3: Data description for the 2_all_cantons_1953-1958_Mortality table

Index	Column Name	Data Type	Values / Validation	Description
1	StartReportingPeriod	Datetime	YYYY-MM-DD	Starting date of observation period per week
2	EndReportingPeriod	Datetime	YYYY-MM-DD	End date of observation period per week
3	Month	String	January – December	Observation month
4	Parameter	String	Cases Influenza	Parameter for the values
5	ZH	Integer	≥ 0	Cases for specific canton per week
6	BE	Integer	≥ 0	Cases for specific canton per week
7	LU	Integer	≥ 0	Cases for specific canton per week

8	UR	1	\ \ \	C ('
	OK	Integer	≥ 0	Cases for specific
				canton per week
	SZ	Intogor	≥ 0	Cases for specific
	32	Integer	≥ 0	· ·
				canton per week
9	OW	Integer	≥ 0	Cases for specific
				canton per week
10	NW	Integer	≥ 0	Cases for specific
				canton per week
11	GL	Integer	≥ 0	Cases for specific
				canton per week
12	ZG	Integer	≥ 0	Cases for specific
				canton per week
13	FR	Integer	≥ 0	Cases for specific
				canton per week
14	SO	Integer	≥ 0	Cases for specific
				canton per week
15	BS	Integer	≥ 0	Cases for specific
				canton per week
16	BL	Integer	≥ 0	Cases for specific
				canton per week
17	SH	Integer	≥ 0	Cases for specific
				canton per week
18	AR	Integer	≥ 0	Cases for specific
				canton per week
19	Al	Integer	≥ 0	Cases for specific
				canton per week
20	SG	Integer	≥ 0	Cases for specific
				canton per week
21	GR	Integer	≥ 0	Cases for specific
				canton per week
22	AG	Integer	≥ 0	Cases for specific
				canton per week
23	TG	Integer	≥ 0	Cases for specific
				canton per week
24	TI	Integer	≥ 0	Cases for specific
				canton per week
25	VD	Integer	≥ 0	Cases for specific
				canton per week
26	VS	Integer	≥ 0	Cases for specific
				canton per week
27	NE	Integer	≥ 0	Cases for specific
				canton per week
28	GE	Integer	≥ 0	Cases for specific
				canton per week
29	CH	Integer	≥ 0	Cases for the
				whole of

		Switzerland per
		week

Table 4: Data description for the 2_Data_cantons_incidence_weekly_56_58_NEW file

Index	Column Name	Data Type	Values / Validation	Description
1	Year	Integer	1950 – 1970	Observation Year
2	ZH	Integer	≥ 0	Population per Canton per Year
3	BE	Integer	≥ 0	Population per Canton per Year
4	LU	Integer	≥ 0	Population per Canton per Year
5	UR	Integer	≥ 0	Population per Canton per Year
6	SZ	Integer	≥ 0	Population per Canton per Year
7	OW	Integer	≥0	Population per Canton per Year
8	NW	Integer	≥ 0	Population per Canton per Year
9	GL	Integer	≥ 0	Population per Canton per Year
10	ZG	Integer	≥ 0	Population per Canton per Year
11	FR	Integer	≥ 0	Population per Canton per Year
12	SO	Integer	≥ 0	Population per Canton per Year
13	BS	Integer	≥ 0	Population per Canton per Year
14	BL	Integer	≥ 0	Population per Canton per Year
15	SH	Integer	≥ 0	Population per Canton per Year
16	AR	Integer	≥ 0	Population per Canton per Year
17	Al	Integer	≥ 0	Population per Canton per Year
18	SG	Integer	≥ 0	Population per Canton per Year

19	GR	Integer	≥ 0	Population per
				Canton per Year
20	AG	Integer	≥ 0	Population per
				Canton per Year
21	TG	Integer	≥ 0	Population per
				Canton per Year
22	TI	Integer	≥ 0	Population per
				Canton per Year
23	VD	Integer	≥ 0	Population per
				Canton per Year
24	VS	Integer	≥ 0	Population per
				Canton per Year
25	NE	Integer	≥ 0	Population per
				Canton per Year
26	GE	Integer	≥ 0	Population per
				Canton per Year
27	СН	Integer	≥ 0	Population per
				Canton per Year

Table 5: Data description for the 2_Population_cantons file

Dataquality Dataset 2

Dataquality for data_set2_mortality

Methodology

The analysis was performed using automated data profiling tools such as ydata

General Statistics

• Number of variables: 29

• Variable types: 2 Categorical & 27 Numeric

• Number of observations: 144

• Time span: 1953 – 1958

Missing cells: 2.5% of all values

• No duplicate rows or invalid entries

• Mean year: 1955.5

• Mean mortality for the whole of Switzerland per Month: 2069.9143

Key Variables and Values

• Month: categorical, January – December, missing = 0

• Year: numerical, 1953 – 1958, mean = 1955.5, missing = 0

Parameter: categorical, 3 Distinct values, missing = 0

• All cantons (26 different columns): numerical, missing 4 (2.8%)

• CH: numerical, missing 4 (2.8%), mean 2069.9143

Interpretation and Insights

- The data gives insight on how much the flu raised the mortality rates compared to other flu seasons and over the whole time
- Gives a good overall picture to how bad the Asian flu was and how much the population was impacted

Data Quality Assessment

- Completeness: moderate (data missing form September December 1958)
- Consistency: high
- Usability: good for the analysis of the impact of the asian flu on the mortality

Conclusion

- Mortality Trends specific for the period before and during the Asian flu
- Data-Driven storytelling

Dataquality for data set2 population

Methodology

• The analysis was performed using automated data profiling tools such as ydata

General Statistics

- Number of variables: 30
- Variable types: 2 DateTime, 27 Numeric, 1 Categorical
- Number of observations: 314
- Time span: 14.12.1952 14.12.1958
- Missing cells: 0.0% of all values
- No duplicate rows or invalid entries

Key Variables and Values

- StartReportingPeriod: DateTime, 14.12.1952 14.12.1958, missing = 0
- EndReportingPeriod: DateTime, 20.12.1952 20.12.1958, missing = 0
- Month: numerical, 1-12, missing = 0
- Parameter: categorical, cases Influenza
- All cantons (26 different columns): numerical, missing 0
- CH: numerical, missing 0, mean 1143.5

Interpretation and Insights

- The data gives insight on how much the flu impacted Switzerland as a whole and canton specific
- Gives a good overall picture to how bad the Asian flu was and how much the population was impacted

Data Quality Assessment

- Completeness: high
- Consistency: high
- Usability: good for the analysis if the Asian flu made a big impact on the overall population.

Conclusion

- Analysis on the Population of Switzerland before and during the Asian flu
- Data-Driven storytelling

Dataquality for data set2 incidence weekly

Methodology

• The analysis was performed using automated data profiling tools such as ydata

General Statistics

- Number of variables: 27
- Variable types: 27 Numeric
- Number of observations: 21
- Time span: 1950 1970
- Missing cells: 0.0% of all values
- No duplicate rows or invalid entries
- Mean year: 1955.5

Key Variables and Values

- Year: numerical, 1950 1970, mean = 1960, missing = 0
- All cantons (26 different columns): numerical, missing 0
- CH: numerical, missing 0, mean 5452523.8

Interpretation and Insights

- The data is really good for comparing the difference between the Asian flu and other flu seasons
- Gives a good overall picture to how bad the Asian flu was to a normal flu

Data Quality Assessment

- Completeness: high
- Consistency: high
- Usability: good to compare the Asian flu cases to other flu seasons

Conclusion

- Analysis of the Influenza cases before, during and after the Asian flu
- Data-Driven storytelling

Details Dataset 3

Description:

 Annual mortality statistics in Switzerland from 1880 to 2022, including pandemicrelated deaths and excess mortality estimates.

Source Details:

• For more information please contact Wiebke Weber or Kaspar Staub

Data Acquisition:

• File: 3_Todesursachen Schweiz ohne Alter 1876-2002.xlsx, contact Wiebke Weber

Legal Aspects:

• The data is publicly available and free to use for educational and analytical purposes.

Data Governance:

- Category: Public
- No personal data is included.

Access Information:

- Provided as an Excel file. On GitHub, linked at Speicherort.
- Can be accessed using common tools (Excel, Python pandas, etc.)

Data catalog Dataset 3

Index	Column Name	Data Type	Values / Validation	Description
1	Jahr	Float	1876 - 2004	Durchschnittliches
				Beobachtungsjahr
2	Todesfälle_Infektionen_Tot	Float	≥ 0	Gesamt: Infektions- und
	al			parasitäre Krankheiten
3	Pocken	Float	≥ 0	Pocken-Todesfälle
4	Scharlach	Float	≥ 0	Scharlach-Todesfälle
5	Masern	Float	≥ 0	Masern-Todesfälle
6	Typhus_Paratyphus	Float	≥ 0	Typhus und Paratyphus
7	Diphtherie	Float	≥ 0	Diphtherie-Todesfälle
8	Keuchhusten	Float	≥ 0	Keuchhusten-Todesfälle
9	Tuberkulose_Total	Float	≥ 0	Alle Tuberkulosefälle
10	Tuberkulose_Lungen	Float	≥ 0	Tuberkulose der Lungen
11	Tuberkulose_Andere_Organ	Float	≥ 0	Tuberkulose anderer
	e			Organe

12				
	Tuberkulose_Gehirnhaut	Float	≥ 0	Tuberkulose der Hirnhaut
13	Tuberkulose_Knochen	Float	≥ 0	Tuberkulose der Knochen
				und Gelenke
14	Übrige_Krankheiten_Total	Float	≥ 0	Sonstige
				Infektionskrankheiten
15	Epidem_Kinderlähmung	Float	≥ 0	Kinderlähmung
16	Rotlauf	Float	≥ 0	Rotlauf-Todesfälle
17	Syphilis	Float	≥ 0	Syphilis-Todesfälle
18	Aids	Float	≥ 0	Aids-Todesfälle
19	Atmungsorgane_Total	Float	≥ 0	Todesfälle durch
				Erkrankungen der
				Atmungsorgane
20	Grippe	Float	≥ 0	Grippe-Todesfälle
21	Lungenentzündung	Float	≥ 0	Lungenentzündung
22	Bronchitis	Float	≥ 0	Bronchitis
23	Neubildungen_Krebs_Total	Float	≥ 0	Bösartige Neubildungen
				insgesamt
24	Krebs_Gesamt	Float	≥ 0	Gesamtanzahl Krebsfälle
25	Krebs_Magen_Darm	Float	≥ 0	Magen-Darm-Krebs
26	Krebs_Weibl_Brustdrüse	Float	≥ 0	Brustkrebs (weiblich)
27	Krebs Bronchien Lunge	Float	≥ 0	Lungenkrebs/Bronchien
28	Nervensystem Kreislauf To	Float	≥ 0	Gesamt: Nerven- und
	tal			Kreislauferkrankungen
29	Nervensystem Total	Float	≥ 0	Nervenkrankheiten
	· –			insgesamt
30	Hirnschlag	Float	≥ 0	Schlaganfall
31	Kreislauferkrankungen_Tot	Float	≥ 0	Herz-Kreislauf-
	al			Erkrankungen insgesamt
32	Herzkrankheiten	Float	≥ 0	Herzkrankheiten
33	Arterienverkalkung	Float	≥ 0	Arteriosklerose
34	Blut Stoffwechsel Total	Float	≥ 0	Erkrankungen des Blutes
				und Stoffwechsels
35	Anämie_Leukämie	Float	≥ 0	Anämie & Leukämie
36	Diabetes	Float	≥ 0	Diabetes mellitus
37	Verdauungsorgane Total	Float	≥ 0	Erkrankungen des
				Verdauungssystems
38	MagenDarmKatarrh_Kinder	Float	≥ 0	Magen-Darm-Katarrh bei
				Kindern
39	MagenDarmKatarrh_Erwac	Float	≥ 0	bei Erwachsenen
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Table 6: Data description for the 3_Todesursachen Schweiz ohne Alter 1876-2002 table

Dataquality Dataset 3

Methodology

- The analysis was performed using automated data profiling tools such as ydata.
- Descriptive statistics and a Pearson correlation matrix were used.
- The dataset includes 250 annual observations.
- There are 82 variables total: all numerical

General Statistics

Number of variables: 82Number of observations: 240

• Time span: 1876–2002

• Missing cells: 25.1% of all values

• 1 duplicate rows

• 81 unsupported variable types

• No statistical measures can be calculated

Key Variables and Values

• Jahr: Average: 1939.8

Infektions-und parasitäre Krankheiten:

- Pocken, Scharlach, Masern, Typhus, Diphtherie, Keuchhusten: Title
 - Total: Average 825
 - o Pocken: Average: 31.6
 - Scharlach 1): Average: 98
 - o Masern 2): Average: 134
 - o Typhus Paratyphus: Average: 142
 - o Diphtherie: Average: 386
 - o Keuchhusten: Average: 232
- Tuberkulose
 - o Total: Average: 3'163
 - Atmungsorgane
 - Total: Average: 2'417.1
 - Lungen-Tb: Average: 2'331
 - Übrige Organe
 - Total: Average: 776.5
 - Gehirnhaut, Hirnhaut: Average: 388
 - Knochen, Gelenke: Average: 273.4
- Übrige Krankheiten 4)
 - o Total: Average: 607
 - o Epidem. Kinderlähmung: Average: 29.5
 - o Rotlauf: Average: 65
 - o Syphilis: Average: 88.5
 - o Aids: Average: 228
- Total: Average: 4'581

Atmungsorgane:

- Total: Average: 4'917
- Grippe: Average: 630.3
- Lungenentzünding: Average: 2'273
- Bronchitis: Average: 689.8

Jahr: Average: 1939.8

Neubildungen:

- Total Krebs (bösartige Geschwülste); Average: 7'058.1
 - o Total: Average: 5'492
 - o Magen, Darm (Total): Average: 2'430.6
 - o Weibl. Brustdrüse: Average: 596
 - o Bronchien, Lunge 7): Average: 831.6

Nervensystem und Kreislauforgane

- Total: Average: 15'009
- Nervensystem:
 - o Total: Average: 2'309.6
 - o Hirnschlag: Average: 1'845
- Kreislauforgane
 - o Total: Average: 13'385.6
 - o Herzkrankeiten: Average: 6'295
 - o Arterienverkalkung: Average: 4'778.4

Blut, Stoffwechsel

- Total: Average: 1'117
- Anämie, Leukämie: Average: 278.7

Zuckerkrankheit (Diabetes mellitus): Average: 569

Ernährungsapparat, Verdauuungsorgane

Total: Average: 3'116.9Magen-Darm-Kattarrh

o Säuglinge und Kleindkinder 9): Average: 1'155

Erwachsene: Average: 312.1
Magen-Darm-geschwür: Average: 250
Blinddarm entzündung: Average: 176.2

• Leberzirrhose: Average: 443

Harnapparat

• Total: Average: 951.7

• Nierenentzündungen: Average: 686

Jahr: Average: 1939.8 **Gewaltsamer Tod:**

• Total: Average: 2'989

Selbsttötung: Average: 844.5

Unfälle

o Total 12): Average: 2'010

Verkehrsunfälle:

■ Total: Average: 577.2

Strassenverkehr: Average: 705
 Bahnverkehr: Average: 70.7
 Flugverkehr; Average: 17

Sturz: Average: 672.1Ertrinken: Average: 183

Mord, Totschlag, unklare Ursache

o Total: Average: 135.2

Mord, Totschlag: Average: 55

Übrige bekannte Todesursachen

• Total: Average: 4'296.4

Chronischer Alkoholismus: Average: 167

Schwangerschaft u. Geburt: Average: 229.7

Angeborene Säuglingskrankheiten Total: Average: 1'775

o Frühgeburt 14): Average: 1'301.8

• Alterschwäche; Average: 965

Unbekannte Todesursachen

Arzt beigezogen: Average: 437.7

• Arzt nicht beigezogen: Average: 1'653

• Total: Average: 1'973.5 Gesamttotal: Average: 45'535

Interpretation and Insights

• Ideal for looking at different causes of death in more or less detail

Data Quality Assessment

Completeness: poor- moderate (lot of missing values).

• Consistency: moderate (no duplicates or major outliers).

• Usability: poor, because of how the title are distributed (unclear for when reading the table)

Conclusion

- Insight to cause of death
- Data-driven storytelling

Details full data

Description:

 Daily COVID-19 case and death statistics from various global locations, including cumulative and rolling aggregates (weekly, biweekly), spanning the pandemic timeline.

Source Details:

• Data sourced from a global COVID-19 tracking initiative (e.g., Our World in Data, Johns Hopkins University).

Data Acquisition:

• File: full_data.csv, in the GitHub Repo

Legal Aspects:

• The dataset is public

Data Governance:

- Category: Public
- No personal data is included.

Access Information:

- Provided as a CSV file.
- Can be accessed using common tools (Excel, Python pandas, R, etc.)

Datacatalog full data:

Index	Column Name	Data	Values / Validation	Description
		Туре		
1	date	Date	ISO format (YYYY- MM-DD)	Date of record
2	location	String	Valid location names	Country or region name
3	new_cases	Integer	≥ 0	New reported COVID-19 cases (daily)
4	new_deaths	Integer	≥ 0	New reported COVID-19 deaths (daily)
5	total_cases	Integer	≥ 0	Total confirmed cases to date
6	total_deaths	Integer	≥ 0	Total confirmed deaths to date
7	weekly_cases	Integer	≥ 0	Aggregated cases over the past 7 days

8	weekly_deaths	Integer	≥ 0	Aggregated deaths over the past 7 days
9	biweekly_cases	Integer	≥ 0	Aggregated cases over the past 14 days
10	biweekly_deaths	Integer	≥ 0	Aggregated deaths over the past 14 days

Table 7: Data description for the full_data table

Dataquality full data

Methodology

- Data collected and processed by a centralized public health data provider.
- Descriptive analysis done via automated profiling tools.
- Rolling aggregates (weekly, biweekly) computed from raw daily data.
- Dataset includes over 411,000 rows across 10 variables.

General Statistics

• Number of variables: 10

• Number of observations: 411,804

Duplicate rows: 0

Primary key: (date, location)

Key Variables and Values

- new cases: varies widely, occasional spikes during outbreak peaks, 0.4% missing.
- new_deaths: similar pattern, 0.29% missing.
- weekly cases, weekly deaths: ~0.6–0.7% missing.
- biweekly_cases, biweekly_deaths: ~1% missing.
- Cumulative fields (total cases, total deaths) are complete.

Interpretation and Insights

- Highly suitable for time-series analysis of pandemic spread and impact.
- Useful for comparing countries/regions and identifying outbreak waves.
- Rolling aggregates provide smoothing for trend analysis.

Data Quality Assessment

- Completeness: High (less than 1.2% missing overall)
- **Consistency**: High (no duplicates, logical numeric values)
- Usability: Excellent for trend analysis, comparison, and modeling

Overview of Processed Data:

Dataset Name	Source	Storage location
data_set3_cleaned	Dataset 3	Can be found in the Github Repo
		under the name data_set3_cleaned:
		Project PODSV/Data at main ·
		plospen1/Project PODSV
data_set3_infectious_diseases	Dataset 3	Can be found in the Github Repo
		under the name
		data_set3_infectious_diseases

Project PODSV/Data at main ·
plospen1/Project PODSV

Table 8: Summary Table of the Processed Datasets

Details Processed data set3 cleaned

Description:

 This dataset contains yearly death statistics in Switzerland (1876–2004), categorized by causes such as infectious diseases (e.g., measles, tuberculosis), respiratory diseases, cancers, cardiovascular issues, and accidents

Processing Steps:

- Headers: The original table had multi-row headers (rows 3–5). These were merged using forward fill and joined with " | " to create clear column names.
- Data Extraction: Actual data starts at row 10 (index 9). Earlier rows were removed.
- Cleanup: Index was reset and column names verified.

Access and Tools:

- Available at:
 - GitHub: Project PODSV/Data at main · plospen1/Project PODSV
- Tools: Python and pandas
- Script: Processing done via a reproducible script using standard pandas functions.

Details Processed data_set3_infectious_diseases

Description:

 This dataset contains annual death counts in Switzerland (1876–1891) specifically related to infectious diseases. It includes categories such as smallpox, scarlet fever, measles, typhoid/paratyphoid, diphtheria, and whooping cough, alongside total infectious disease-related deaths per year.

Processing Steps:

- Header Extraction: Column names were taken from row 6 (index 5) of the Excel sheet. These were cleaned of empty and duplicate names, with placeholders added where needed.
- Data Selection: The actual data starts from row 8 (index 7). Only these rows were kept.
- Filtering: Only rows with valid numeric years were retained. The "Year" column was converted to int type.
- Column Selection: Only the first 8 columns (A–H) were kept, which correspond to the relevant disease categories.
- Renaming Columns: All columns were renamed to English names

Access and Tools:

- Available at: GitHub: Project PODSV/Data, File name: data set3 infectious diseases
- Tools: Python and pandas
- Script: Processing done via a reproducible script using pandas, including header cleaning, filtering valid rows, renaming, and exporting to .csv.

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