Repository

Dataset name: *asppl_dataset_v2.csv*
Version: 2.0
Dataset period: 06/07/2018 - 01/14/2022
Dataset Characteristics: Multivalued
Number of Instances: 8118
Number of Attributes: 9
Missing Values: Yes
Area(s): Health and education

Sources:

- Virtual Learning Environment of the Brazilian Health System (AVASUS) (Brasil, 2022a);

- Brazilian Occupational Classification (CBO) (Brasil, 2022b);

- National Registry of Health Establishments (CNES) (Brasil, 2022c);

- Brazilian Institute of Geography and Statistics (IBGE) (Brasil, 2022e).

Description: The data contained in the *asppl_dataset_v2.csv* dataset (Table 1) originates from participants of the technology-based educational course "Health Care for People Deprived of Freedom." The course is available on the AVASUS (Brasil, 2022a). This dataset provides elementary data for analyzing the course's impact and reach and the profile of its participants. In addition, it brings an update of the data presented in work by Valentim et al. (2021).

Table 1: Description of AVASUS dataset features.

Attributes	Description	datatype	Value
gender	Gender of the course participant.	Categorical.	Feminino / Masculino / Não Informado. (In English, Female, Male or Uninformed)
course_progress	Percentage of completion of the course.	Numerical.	Range from 0 to 100.
course_evaluation	A score given to the course by the participant.	Numerical.	0, 1, 2, 3, 4, 5 or NaN.
evaluation_commentary	Comment made by the participant about the course.	Categorical.	Free text or NaN.
region	Brazilian region in which the participant resides.	Categorical.	Brazilian region according to IBGE: Norte, Nordeste, Centro-Oeste, Sudeste or Sul (In English North, Northeast,

			Midwest, Southeast or South).
CNES	The CNES code refers to the health establishment where the participant works.	Numerical.	CNES Code or NaN.
health_care_level	Identification of the health care network level for which the course participant works.	Categorical.	"ATENCAO PRIMARIA", "MEDIA COMPLEXIDADE", "ALTA COMPLEXIDADE", and their possible combinations. (In English "PRIMARY HEALTH CARE", "SECONDARY HEALTH CARE" AND "TERTIARY HEALTH CARE")
year_enrollment	Year in which the course participant registered.	Numerical.	Year (YYYY).
CBO	Participant occupation.	Categorical.	Text coded according to the Brazilian Classification of Occupations or "Indivíduo sem afiliação formal." (In English "Individual without formal affiliation.")

Dataset name: *prison_syphilis_and_population_brazil.csv*
Dataset period: 2017 - 2020
Dataset Characteristics: Multivalued
Number of Instances: 6
Number of Attributes: 13
Missing Values: No
Source:

- National Penitentiary Department (DEPEN) (Brasil, 2022d);

Description: The data contained in the *prison_syphilis_and_population_brazil.csv* dataset (Table 2) originate from the National Penitentiary Department Information System (SISDEPEN) (Brasil, 2022d). This dataset provides data on the population and prevalence of syphilis in the Brazilian prison system. In addition, it brings a rate that represents the normalized data for purposes of comparison between the populations of each region and Brazil.

Table 2: Description of DEPEN dataset Features.

Attributes	Description	datatype	Value
Region	Brazilian region in which the participant resides. In addition, the sum of the regions, which refers to Brazil.	Categorical.	Brazil and Brazilian region according to IBGE: North, Northeast, Midwest, Southeast or South.
syphilis_2017	Number of syphilis cases in the prison system in 2017.	Numerical.	Number of syphilis cases.
syphilis_rate_2017	Normalized rate of syphilis cases in 2017.	Numerical.	Syphilis case rate.
syphilis_2018	Number of syphilis cases in the prison system in 2018.	Numerical.	Number of syphilis cases.
syphilis_rate_2018	Normalized rate of syphilis cases in 2018.	Numerical.	Syphilis case rate.
syphilis_2019	Number of syphilis cases in the prison system in 2019.	Numerical.	Number of syphilis cases.
syphilis_rate_2019	Normalized rate of syphilis cases in 2019.	Numerical.	Syphilis case rate.
syphilis_2020	Number of syphilis cases in the prison system in 2020.	Numerical.	Number of syphilis cases.
syphilis_rate_2020	Normalized rate of syphilis cases in 2020.	Numerical.	Syphilis case rate.
pop_2017	Prison population in 2017.	Numerical.	Population number.
pop_2018	Prison population in 2018.	Numerical.	Population number.
pop_2019	Prison population in 2019.	Numerical.	Population number.
pop_2020	Prison population in 2020.	Numerical.	Population number.

Dataset name: *students_cumulative_sum.csv*
Dataset period: 2018 - 2020
Dataset Characteristics: Multivalued
Number of Instances: 6
Number of Attributes: 7
Missing Values: No
Source:

- Virtual Learning Environment of the Brazilian Health System (AVASUS) (Brasil, 2022a);

- Brazilian Institute of Geography and Statistics (IBGE) (Brasil, 2022e).

Description: The data contained in the *students_cumulative_sum.csv* dataset (Table 3) originate mainly from AVASUS (Brasil, 2022a). This dataset provides data on the number of students by region and year. In addition, it brings a rate that represents the normalized data for purposes of comparison between the populations of each region and Brazil. We used population data estimated by the IBGE (Brasil, 2022e) to calculate the rate.

Table 3: Description of Students dataset Features.

Attributes	Description	datatype	Value
Region	Brazilian region of the course participant. In addition, the sum of the regions, which refers to Brazil.	Categorical.	Brazil and the Brazilian region according to IBGE: North, Northeast, Midwest, Southeast or South.
2018	Number of students enrolled in the course in 2018.	Numerical.	Number of students.
rate_2018	Standardized rate of students in the course in 2018.	Numerical.	Normalized value.
2019	Sum of students enrolled in the course in 2019.	Numerical.	Number of students.
rate_2019	Standardized rate of students in the course in 2019.	Numerical.	Normalized value.
2020	Sum of students enrolled in the course in 2020.	Numerical.	Number of students.
rate_2020	Standardized rate of students in the course in 2020.	Numerical.	Normalized value.

Dataset name: *syphilis_tests_brazil.csv*
Dataset period: 2017 - 2020
Dataset Characteristics: Multivalued
Number of Instances: 6
Number of Attributes: 9
Missing Values: No
Source:

- Brazilian Ministry of Health, through the Outpatient Information System of the Brazilian Health System (SIA/SUS) (Brasil, 2022f);

- Brazilian Institute of Geography and Statistics (IBGE) (Brasil, 2022e).

Description: The data contained in the *syphilis_tests_brazil.csv* dataset (Table 4) originate mainly from the Outpatient Information System of the Brazilian Health System (SIA/SUS). This dataset provides data on the number of tests for syphilis detection by region and year. In addition, it brings a rate that represents the normalized data to compare the populations of each region and Brazil. We used population data estimated by the IBGE (Brasil, 2022e) to calculate the rate.

Table 4: Description of Syphilis Testes dataset Features.

Attributes	Description	datatype	Value
Region	Brazilian region where tests for syphilis were performed. In addition, the sum of the regions, which refers to Brazil.	Categorical.	Brazil and the Brazilian region according to IBGE: North, Northeast, Midwest, Southeast or South.
2017	The number of tests for syphilis performed in 2017.	Numerical.	The number of tests.
rate_2017	Syphilis testing rate in 2017.	Numerical.	Normalized value.
2018	The number of tests for syphilis performed in 2018.	Numerical.	The number of tests.
rate_2018	Syphilis testing rate in 2018.	Numerical.	Normalized value.
2019	The number of tests for syphilis performed in 2019.	Numerical.	The number of tests.
rate_2019	Syphilis testing rate in 2019.	Numerical.	Normalized value.
2020	The number of tests for syphilis performed in 2020.	Numerical.	The number of tests.
rate_2020	Syphilis testing rate in 2020.	Numerical.	Normalized value.

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ARTICLE:

THE RELEVANCY OF MASSIVE HEALTH EDUCATION IN THE BRAZILIAN PRISON SYSTEM: THE COURSE "HEALTH CARE FOR PEOPLE DEPRIVED OF FREEDOM" AND ITS IMPACTS

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