

Data dictionary for DEMALE-HSJM_2025 dataset

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This data dictionary details the 56 variables collected in the DEMALE-HSJM_2025 study, including the variable name, description, data type, nature, and categories (if applicable), units of measurement, and coding used. The variables cover sociodemographic, clinical and laboratory aspects of patients with confirmed diagnosis of dengue, malaria or leptospirosis, admitted to a Colombian Caribbean referral hospital between 2014 and 2015. This resource facilitates the understanding and reuse of the dataset for epidemiological research, predictive modeling, and comparative analysis.

Variable	Data type	Description	Categories / Expected ranges	Unit of measure
diagnosis	categorical	Confirmed patient etiology	1= dengue 2= malaria 3= leptospirosis	N/A
male	categorical	Male sex	1= Yes, 0= No	N/A
female	categorical	Female sex	1= Yes, 0= No	N/A
age	numeric	Patient's age	0 - 100	Years
urban_origin	categorical	Urban area of residence	1= Yes, 0= No	N/A
rural_origin	categorical	Rural area of residence	1= Yes, 0= No	N/A
homemaker	categorical	Occupation: housework	1= Yes, 0= No	N/A
student	categorical	Occupation: student	1= Yes, 0= No	N/A
professional	categorical	Occupation: professional	1= Yes, 0= No	N/A
merchant	categorical	Occupation: merchant	1= Yes, 0= No	N/A
agriculture_livestock	categorical	Occupation in agriculture or livestock farming	1= Yes, 0= No	N/A
various_jobs	categorical	Diverse or informal occupation	1= Yes, 0= No	N/A
unemployed	categorical	No defined occupation	1= Yes, 0= No	N/A
hospitalization_days	numeric	Duration of hospitalization	1 - 30 días	Days
body_temperature	numeric	Body temperature at hospital admission	35 - 42	°C
fever	categorical	Presence of fever	1= Present 0= Absent	N/A

headache	categorical	Presence of headache	1= Present 0= Absent	N/A
dizziness	categorical	Presence of dizziness	1= Present 0= Absent	N/A
loss_of_appetite	categorical	Presence of inappetence	1= Present 0= Absent	N/A
weakness	categorical	Presence of weakness	1= Present 0= Absent	N/A
myalgias	categorical	Presence of myalgias	1= Present 0= Absent	N/A
arthralgias	categorical	Presence of arthralgias	1= Present 0= Absent	N/A
eye_pain	categorical	Presence of ocular pain	1= Present 0= Absent	N/A
hemorrhages	categorical	Presence of hemorrhages	1= Present 0= Absent	N/A
vomiting	categorical	Presence of vomiting	1= Present 0= Absent	N/A
abdominal_pain	categorical	Presence of abdominal pain	1= Present 0= Absent	N/A
chills	categorical	Presence of chills	1= Present 0= Absent	N/A
hemoptysis	categorical	Presence of hemoptysis	1= Present 0= Absent	N/A
edema	categorical	Presence of edema	1= Present 0= Absent	N/A
jaundice	categorical	Presence of jaundice	1= Present 0= Absent	N/A
bruises	categorical	Presence of hematomas	1= Present 0= Absent	N/A
petechiae	categorical	Presence of petechiae	1= Present 0= Absent	N/A
rash	categorical	Presence of rash	1= Present 0= Absent	N/A
diarrhea	categorical	Presence of diarrhea	1= Present 0= Absent	N/A
respiratory_difficulty	categorical	Presence of respiratory distress	1= Present 0= Absent	N/A
itching	categorical	Presence of itching	1= Present 0= Absent	N/A
hematocrit	numeric	Hematocrit percentage	0 - 60%	%

hemoglobin	numeric	Hemoglobin concentration	0 - 20	g/dL
red_blood_cells	numeric	Red blood cell count	0 - 7	millions/ μL
white_blood_cells	numeric	Total white blood cell count	0 - 25	thousand/ μL
neutrophils	numeric	Percentage of neutrophils	0 - 100	%
eosinophils	numeric	Percentage of eosinophils	0 - 100	%
basophils	numeric	Percentage of basophils	0 - 100	%
monocytes	numeric	Percentage of monocytes	0 - 100	%
linphocytes	numeric	Percentage of lymphocytes	0 - 100	%
platelets	numeric	Platelet count	0 - 500	thousand/ μL
AST (SGOT)	numeric	Serum Glutamic Oxaloacetic Transaminase concentration	0 - 1000	U/L
ALT (SGPT)	numeric	Serum Glutamic Pyruvic Transaminase concentration	0 - 1000	U/L
ALP (alkaline_phosphatase)	numeric	Serum alkaline phosphatase concentration	0 - 500	U/L
total_bilirubin	numeric	Total bilirubin serum concentration	0 - 30	mg/dL
direct_bilirubin	numeric	Direct bilirubin serum concentration	0 - 15	mg/dL
indirect_bilirubin	numeric	Indirect bilirubin serum concentration	0 - 15	mg/dL
total_proteins	numeric	Serum total protein concentration	0 - 10	g/dL
albumin	numeric	Serum albumin concentration	0 - 5	g/dL
creatinine	numeric	Serum creatinine concentration	0 - 15	mg/dL
urea	numeric	Serum urea concentration	0 - 150	mg/dL