

Supplementary material for “Characteristics, outcomes and risk factors for mortality of 522,167 patients hospitalized with COVID-19 in Brazil: a retrospective cohort study”

Supplementary Table 1: Data completeness in the dataset of hospitalized individuals with confirmed COVID-19 from SIVEP-Gripe data (as of December 14, 2020)

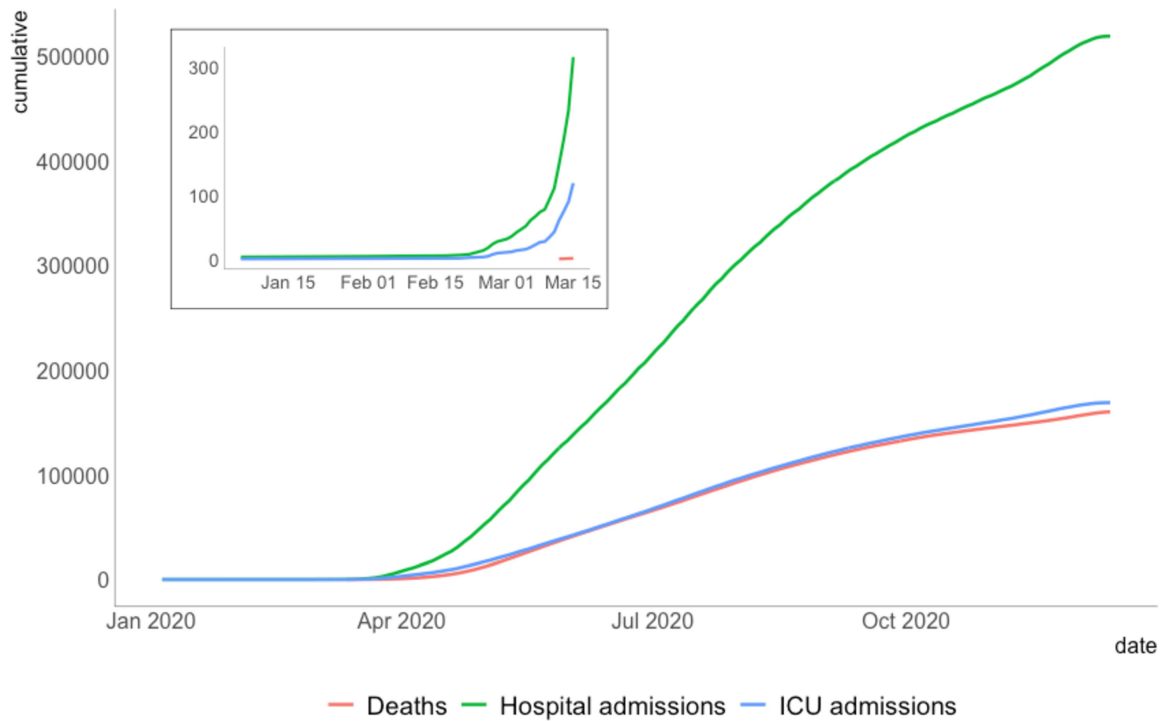
Variable	Missing	N	% Complete
Hospitalization	0	522,167	100%
Final diagnosis of the case	0	522,167	100%
Age informed by patient	0	522,167	100%
Type of age (day, month, year)	0	522,167	100%
Sex	84	522,167	100%
Gestational age	26,081	299,513	91%
Puerperal ^a	133,695	299,513	55%
Ethnoracial self-classification	120,799	522,167	77%
Federal unit of residence	0	522,167	100%
Municipality of residence ^b	36	522,167	100%
Municipality of notification	0	522,167	100%
Comorbidities ^a			
Chronic cardiovascular disease	246,121	522,167	53%
Chronic hematologic diseases	314,925	522,167	40%
Chronic hepatic disease	315,473	522,167	40%
Asthma	311,743	522,167	40%
Diabetes	264,470	522,167	49%
Chronic neurological disease	309,103	522,167	41%
Chronic lung disease	309,631	522,167	41%
Immunodeficiency	312,874	522,167	40%
Chronic renal disease	309,780	522,167	41%
Obesity	306,964	522,167	41%
Other comorbidities	272,160	522,167	48%
Symptoms ^a			
Fever	65,355	522,167	87%
Cough	56,324	522,167	89%
Sore throat	140,061	522,167	73%
Shortness of breath	56,843	522,167	89%
Respiratory distress syndrome	90,093	522,167	83%
Other symptoms descriptive	272,160	522,167	48%
Chest radiograph result	222,990	522,167	57%
Type of drug treatment ^a	434,008	522,167	17%
Mechanical ventilation	75,907	522,167	85%
ICU admission	56,310	522,167	89%
Date of ICU discharge ^c	46,919	522,167	91%
Date of hospital discharge of death ^c	31,755	522,167	94%
Date of onset of illness	0	522,167	100%
Date of treatment with drugs	6,993	93,688	93%
Date of hospitalization ^c	3,170	522,167	99%
Date of ICU admission ^c	3,580	172,473	98%
Date of case closed	8,457	468,664	98%
Clinical outcome (discharge, death, still in hospital)	11,126	522,167	98%

a. Unlike other fields (such as age and sex), comorbidities, symptoms, peruperal, and drugs are not mandatory. Non-response does not necessarily mean missing information, but absence of those conditions.

b. The 36 observations missing municipality of residence are foreigners.

c. Missingness in several date variables could be resolved by cross-checking with other variables. Doing so reduced missingness by 0.04-10.3 percentage points from the original missingness shown above.

Supplementary Figure 1: Cumulative number of COVID-19 hospitalizations, ICU admissions, and deaths. Although hospitalizations occurred early in January, confirmed laboratory results were only made available in late February.



Supplementary Figure 2: Survival curves (Kaplan Meier) 60 days after hospital admission:

Note: N = North, NE = Northeast, CW = Center-West, SE = Southeast, S = South

