

CHANGES OF IN-HOSPITAL ACUTE KIDNEY INJURY EPIDEMIOLOGY AND OUTCOMES

DURING COVID-19 PANDEMIC: A RETROSPECTIVE COHORT STUDY

SUPPLEMENTAL MATERIALS

Supplementary Table S1. Main discharge diagnosis of patients hospitalized in pre-COVID-19 (Jan 2016-Dec 2019) and COVID-19 period (Jan-Dec 2020)

	Pre-COVID-19 period	All	COVID-19 period			p-values	
			SARS-CoV-2 neg	SARS-CoV-2 pos	COVID19 vs PreCOVID19	SARS-CoV-2 pos vs SARS-Cov-2 neg	SARS-CoV-2 neg vs Pre-COVID-19
N.	51681	10062	9026	1036			
Discharge diagnosis, %							
Respiratory diseases ^a	9.93	20.22	15.91	55.02	<0.0001	<0.0001	<0.0001
Infectious diseases ^a	1.17	1.11	0.8	0.39	<0.0001	0.147	0.002
Cardiovascular diseases	22.68	21.35	22.04	12.55	<0.0001	<0.0001	0.176
Gastrointestinal disease	11.31	10.38	10.75	5.79	0.002	<0.0001	0.119
Urogenital diseases	5.18	4.57	4.69	2.90	0.004	0.008	0.048
CNS Diseases	6.81	6.15	6.47	2.51	0.006	<0.0001	0.239
Mental disease	7.29	5.19	5.44	2.32	<0.0001	<0.0001	<0.0001
Endocrine disorders	2.14	1.43	1.48	0.77	<0.0001	0.066	<0.0001
Hematological disorders	1.52	1.24	1.21	1.35	0.024	0.690	0.023
Pregnancy complications	1.56	1.47	1.07	0.19	<0.0001	0.006	<0.0001
Bone disease	1.14	1.09	0.91	0.1	0.006	0.006	0.054
Poisoning	14.60	14.48	14.38	5.21	0.002	<0.0001	0.590

^a In Italy, SARS-CoV-2 infection was codified as a respiratory disease instead of an infectious disease.

Abbreviations: CNS, central nervous system; COVID-19, Coronavirus Disease-19 SARS-CoV-2, severe acute respiratory syndrome coronavirus 2

Supplementary Table S2. AKI incidence and staging during all the observational period

	Year (Jan-Dec)	no AKI n, (%)	AKI stage 1 n, (%)	AKI stage 2 n, (%)	AKI stage 3 n, (%)	Total
Pre-COVID-19 period	2016	11,270	2,761	625	282	14,938
		(75.45)	(18.48)	(4.18)	(1.89)	100.00
	2017	10,349	2,670	596	260	13,875
		(74.59)	(19.24)	(4.30)	(1.87)	100.00
	2018	7,700	1,948	402	145	10,195
		(75.53)	(19.11)	(3.94)	(1.42)	100.00
	2019	8,971	2,824	612	266	12,673
		(70.79)	(22.28)	(4.83)	(2.10)	100.00
COVID-19 period	2020	6,871	2,308	581	302	10,062
		(68.29)	(22.94)	(5.77)	(3.00)	100.00
Total		45,161	12,511	2,816	1,255	61,743
		(73.14)	(20.26)	(4.56)	(2.03)	100.00

Abbreviations: AKI, acute kidney injury; COVID-19, Coronavirus Disease-19