

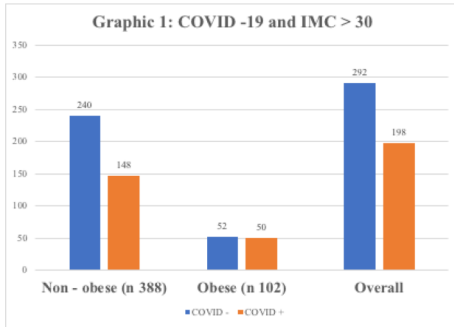
OBESITY AND ACUTE KIDNEY INJURY IN ICU ADULT PATIENTS DURING COVID-19 PANDEMIC IN A FOURTH LEVEL HOSPITAL IN BOGOTÁ, COLOMBIA.

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Background: During COVID – 19 pandemic, Obesity has been associated with worse outcomes in ICU. We wanted to evaluate the association between obesity and AKI as a predictor of mortality and need of RRT.

Results: From 1204 new ICU patients, we found 490 patients, with mean age 61,3 y.o (18-98). 37% were women.



Methods: Retrospective analysis of critical Care Nephrology database in LaCardio hospital in Bogotá- Colombia.

Inclusion Criteria: adult patients admitted in our ICUs between February to august 2020.

Exclusion Criteria: AKI at admission (KDIGO criteria), sCr > 2,5 mg/dL or patients receiving dialysis (acute or chronic) or kidney transplantation.

Mean BMI: 26,5 in overall population. We found 102 obese patients (45,1%, mean BMI 33,6 (30- 46,9)).

There were 198 patients with acute COVID- 19 (40,4%), of whom 50 patients were obese: 49% (p NS). Graphic 1

Mean ICU stay : 11,8 days (1-62): obese patients 11,4 and non obese 1,9 d.

Mortality: 19,2%: obese 12,7%) vs 20,9% in non obese patients. P NS

Basal creatinine value: 0,91 mg/dL at ICU admission.

- 160 patients with some AKI KDIGO stage (32%). Table 1
- RRT requirement: 13 % of obese patients.

	Obesity		Overall
	No	Yes	
	n 388 (79%)	n 102 (20,8)	n 490
<i>AKI KDIGO</i>			
KDIGO 1	77 (19.8%)	20 (19.6%)	97 (19.8%)
KDIGO 2	31 (8.0%)	7 (6.9%)	38 (7.8%)
KDIGO 3	17 (4.4%)	8 (7.8%)	25 (5.1%)
Without AKI	263 (67.8%)	67 (65.7%)	330 (67.3%)
<i>Dialysis requirement</i>			
no	348 (89.7%)	89 (87.3%)	437 (89.2%)
CRRT	39 (10.1%)	13 (12.7%)	52 (10.6%)
PD	1 (0.3%)	0 (0%)	1 (0.2%)

We found no statistically significant differences in AKI incidence with non obese patients. (Table 1)

Conclusion: we found no difference between obese or non-obese patients in AKI incidence, mortality or time in ICU.

In our hospital, Obese patients with diagnosis of COVID 19 admitted to ICU, did not have more frequent AKI than non-obese COVID patients.

39th Vicenza Course
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