

GERIATRIC NEPHROLOGY. ACUTE KIDNEY INJURY IN ELDERLY PATIENT. DIFFERENCES IN ETIOLOGY, MORBIDITY AND MORTALITY. AGE IS NOT A PROGNOSTIC FACTOR.

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#### BACKGROUND AND AIM

There is an increase in age of hospitalizated patients. Age is considered an acute kidney injury (AKI) prognostic factor. But can be more important than biologic age, the" clinical age" that include morbidity and health status. The objective is evaluate acute kidney injury (AKI) in elderly patient, and the influence of age as a prognostic factor.

### MATERIAL AND METHODS

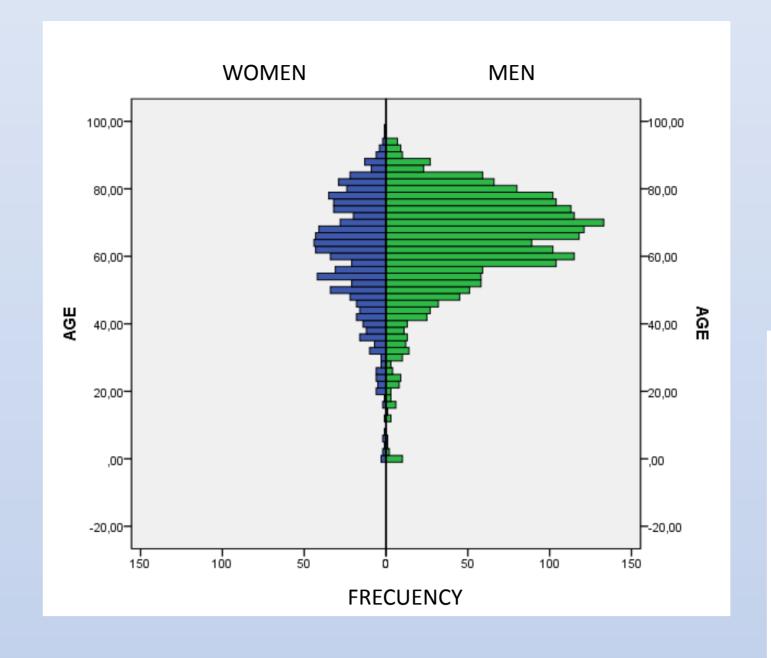
In a cohort with 2714 hospitalizated patients (medium age 62 years, SD 0.3; 66.3 % males) with AKI (KDIGO).

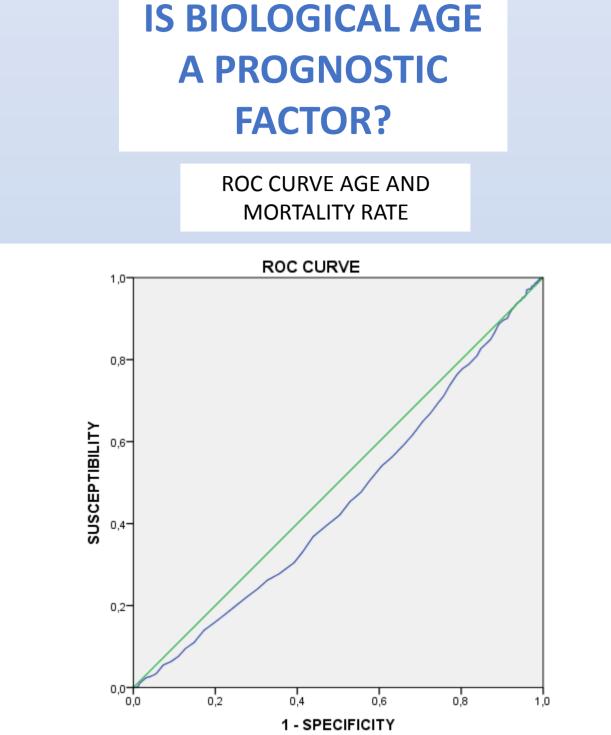
We made three groups:

Group A age lower than 65 years. age between 65 to 85 years. Group B age more than 85 years. Group C

We evaluate AKI etiology, therapy and prognostic index (ISI –individual severity index-), chronic morbidity (cancer, chronic renal and cardiac failure, diabetes), health chronic status (Karnofsky) and acute morbidity (inflammatory status, lower hemoglobin level –anemia-).

We use SPSS 20.0.





**MULTIVARIATE ANALYSIS ISI VARIABLES AND EXITUS** 

		В	E.T.	Wald	gl	Sig.	Exp(B)
Paso 1ª	ndecedad	,019	,030	,403	1	,526	1,019
	sexo	-,237	,131	3,261	1	,071	,789
	hipotil	,896	,148	36,556	1	,000	2,450
	ictil	1,271	,133	91,172	1	,000	3,563
	oligil	,978	,152	41,587	1	,000	2,659
	comail	1,817	,239	57,936	1	,000	6,152
	consil	,098	,219	,201	1	,654	1,103
	respasis	,274	,170	2,609	1	,106	1,315
	ntxil	-,103	,130	,630	1	,427	,902
	Constante	-3,207	,301	113,563	1	,000	,040

Ndecedad: AGE. Sexo: sex. Hipotil: hypotension. Ictil: jaundice. Oligil: oliguria. Comail: Coma. Consil: Aware. Respasis: ventilatory support. Ntxil: nephrotoxicity.

#### RESULTS

Exitus 17.1%. We found LOWER mortality in elderly patients.

The AKI in these patients were:

More functional (hypovolemic) and less complex (ATN with functional) with lower renal replacement therapy requeriment. The ISI was higher but this prognostic index include age —confounding factor?-).

Lower incidence of oncological and inflammatory disease but more incidence of other chronic diseases (renal and cardiovascular).

Lower Karnofsky but with higher hemoglobin level.

Table 1

Table 1.										
Group / %	AKI	ATN	Complex	Renal	Chronic	EXITUS				
	functional		AKI	replacem	renal					
				ent	disease					
				therapy						
A	33.1%	22%	39.1%	28.4%	34.4	19.5%				
В	48%	18.7%	27.6%	24.4%	55.1	14.6%				
С	64%	14%	20.9%	14%	66.3	14%				
p	0.001	0.001	0.001	0.001	0.001	0.003				
Group / %	Inflammat	Surgical	Diabetes	Chronic	Cancer					
	ory	procedur		heart						
	disease	е		disease						
A	46.8%	16.8%	6.7%	2.9%	62.9%					
В	35.6%	25.3%	12.3%	4.9%	41%					
С	29.1%	28.4%	16.3%	12.8%	14%					
p	0.001	0.001	0.001	0.001	0.001					
Group /	C reactive	Lower	ISI	Karnofsk						
Medium	protein	hemoglo		y						
(SD)	peak	bin level								
A	15.1 (0.4)	8.5	0.2818	69.5						
		(0.07)		(0.4)						
В	15.4	9.2	0.3272	68.28						
	(0.42)	(0.15)		(0.4)						
С	11.3	9.82	0.3651	61.3						
	(1.39)	(0.3)		(2.02)						
p	0.038	0.001	0.001	0.001						

## CONCLUSIONS

BIOLOGICAL Age is NOT prognostic factor in AKI. Is more important others (some acute diseases –inflammatory-, chronic diseases –cancer-, health chronic status and AKI etiology-complexity related with previous clinical factors-).

# BIOLOGICAL AGE VERSUS CLINICAL AGE

BIOLOGICAL AGE: CHRONOGRAPHY CLINICAL AGE: HEALH CHRONIC AND ACUTE STATUS WE CAN MEASURE THIS AGE????







