PROGNOSTIC EVALUATION TOOLS IN IGA NEPHROAPTHY. OXFORD **CLASSIFICATION (MEST SCORE) AND IGAN PROGRESSION** CALCULATOR

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BACKGROUND:

IgA nephropathy (IgAN) is the most common glomerular nephropathy in the world. Its clinical course can variate from an asymptomatic hematuria to rapidly progressive renal failure. Several strategies have been used to determine the risk of progression to ESRD, some of them based on renal biopsy and others on clinical and analytical findings at diagnosis. The most standardized method of prediction is based on histology at diagnosis (Oxford classification/MEST score). In last years, IgAN Progression Calculator (IgANPC) based only in 4 clinical and analytical findings at diagnosis was developed and it has been only validated in Chinese population. We evaluate these two methods in our population at biopsy diagnosis of IgAN, and compare their ability to predict further development of GFR below 30ml/min.

METHODS:

We performed a retrospective study of biopsied patients with diagnosis of IgA nephropathy from 1995 to 2015. All biopsies were classified according to MEST score. We also calculated the risk of progression with the online IgANPC

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IgA Nephropathy Progression C	alcu

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s risk score is based on the analysis of 619 bionsy-diagnosed Chinese nationts with IgA nenbronathy followed for an average of 41.3 months from th



http://www.columbi c_progression.php

with the data obtained at the time of the biopsy. The results were divided in three different risk groups: low risk (<-0.887), average risk (-0.887 to 0.993) and high risk (>0.993).





Pearson correlation for IgANPC Score and % of Crescents.



Mean values of score are related with E1>E0.

We analyzed 48 biopsies, 83% men and with a mean age of 40.8 ± 18.8 years at the time of biopsy.

RESULTS:

The mean follow-up time was 10.68 ± 9.62 years. The mean risk score was $1.02 \pm$ 2.07. The distribution of the risk groups were 25.0% for low risk group, 27.1% for average risk group and 47.9% for high risk

/lean Age	45 years	Proteinuria	2850mg	Situation	
6 Males	75.0	%RAAS Bloq	62.5	Dead	10.4%
reatinine	2.05mg/dl	%Steroids	50.0		
iFR	<mark>62.11ml/min</mark>	%AZA	10.4		89.6%
BP	141mmHg	%MMF	16.7	ESRD	13.3%
BP	80mmHg	%CFM	14.6	GFR>30ml/min	77.8%

GFR<30ml/min and score



T at time of Biopsy

P = 0.02

-4- Nann-Whitney	- at this of biopsy						HR	CI	significance
0 1 2 T-OXFORD	GFR	0.939	95%	0.896-0.939	p=0.009	E at time of Biopsy	1.447	95% 0.343-6.10	08 p=0.615
	Score 3	5.464	95%	1.806-16.532	p=0.003	T at time of Biopsy	1.986	95% 0.752-5.24	48 p=0.116
	Score (continous variable)	3.280	95%	1.768-6.085	p=0.000	IgANPC score (continous variable)	2.825	95% 1.497-5.32	29 p=0.001

CONCLUSION:

- IgANPC score is an easy way to calculate the outcome of IgAN.
- In the population of our study, the IgA Progression Calculator score predicts the time to GFR<30ml/min, and adds information independent of renal biopsy score.
- The MEST classification score and IgA Progression calculator are useful and independent tools for prognostic prediction, but more studies are needed to validate the use of these equations in global population.







