

#### MYCOPHENOLATE MOFETIL IN IgA NEPHROPATHY WITH DETERIORATING RENAL FUNCTION.

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# BACKGROUND

Information about treatment of IgA nephropathy (IgAN) showing progressive deterioration of kidney function is scarce. We designed a therapeutic protocol with corticosteroids (CS) plus mycophenolate mofetil (MMF) in this type of patients. Here we report on the results of the first 13 patients who received this treatment.

### METHODS

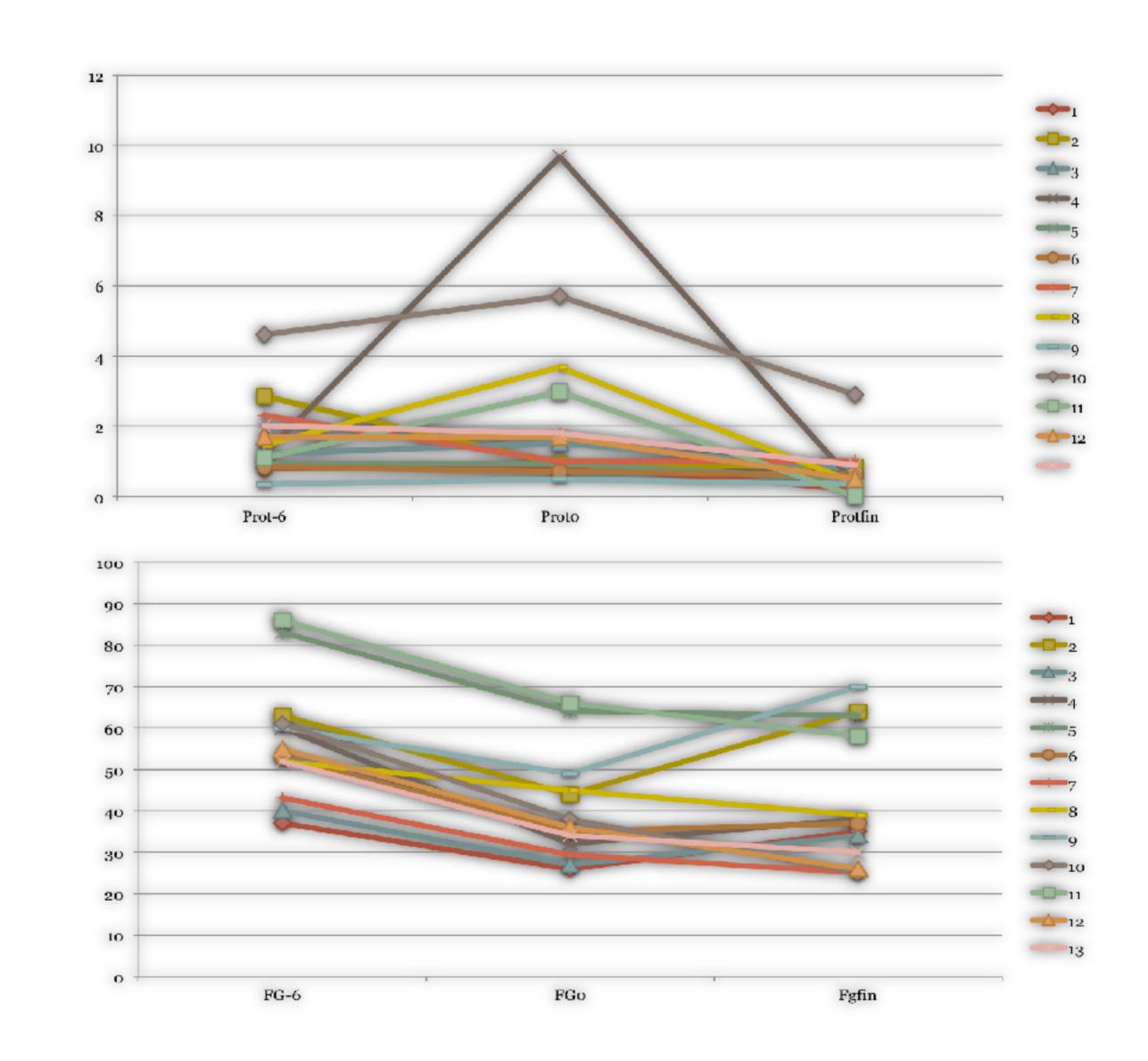
Included in the protocol were 13 patients with biopsy-proven IgAN showing a progressive decline of renal function (GFR decline of 30±9% during the previous 6 months before treatment). All of them were receiving renin-angiotensin blockers that were maintained during immunosuppressive therapy. Treatment consisted of oral prednisone (1 mg/Kg/d in the first month, 0.5 mg/kg/d in the second month, tapering doses during the third month to maintenance therapy with 5-10 mg/d for 9 ±4 months and MMF (1-2 g/d, according to digestive tolerance) for a total duration of 21 ±14 months. A linear regression model was used to calculate the slope of GFR. Non-parametrical tests were used to compare the slope of GFR and proteinuria changes after treatment.

## RESULTS

All the patients but one (Asian origin) were Caucasians; there were 8 men and 5 women. Age at baseline (onset of treatment) was 48 ±13 years, serum creatinine 1.81±0.33 mg/dl, and eGFR 40±13 ml/min/1.73m2 (CKD-EPI). Mean 24hr urine protein excretion was 2.5±2.6 g/day and all the patients showed microhematuria. A significant change was found when comparing eGFR slope during the 6 month-period before treatment (-2.82±0.93 ml/min/month) with eGFR slope during CS+MMF treatment (+0.24±0.74 ml/min/month; p=001). Proteinuria showed a significant decline after treatment (2.5±2.6 to 0.71±0.72 g/day, p=0.002). The amount of microhematuria (52±39 erythrocytes per h.p.f) showed a significant decline in all the patients, and hematuria disappeared in 11 patients. Follow-up after CS+MMF withdrawal was 34±33 months. eGFR slope during this post-treatment period was +0.07±0.32 ml/min/month and proteinuria remained stable in comparison with the treatment period. CS+MMF were well tolerated. Adverse effects included herpes zoster infection in 1 patient and mild gastrointestinal disturbances in 3 that did not require treatment withdrawal. No patient developed diabetes or other serious side effects

No Patients	13			
Sex	8 Men y 5 Women			
Race	12 Caucasian y 1 Asian			
Age	48 ±13 years			
Cr serum	1.81±0.33 mg/dl			
GFR	40±13 ml/min/1.73m2			
Proteinuria	2.5±2.6 g/day			
Nephrotic S.	1 pacient			
IECA/ARA	100%			
Hematuria	52±39 hpc			
HTA	61,5%			
TAS/TAD	131,1±16,4/ 75±17 mmHg			

Variables	-6month	StartTto	StopTto	
Cr ( mg/dl)	$1,3\pm00,2$	1,8±0,33	1,6±0,4	0,055
GF (ml/min/1.73m2)	57,3±14,5	40,4±12,8	44,2±14,3	0,116
Proteinuria (g/día)	1,6±1,5	2,4±2,6	0,7±0,3	0,003
Hematuria (hpc)	42	52	6	0,001



#### CONCLUSION

The combination of CS and MMF for 1-2 years, both administered at relatively low doses, was effective to halt the progression of renal insufficiency in a selected group of IgAN with deteriorating renal function, and was well tolerated. Prospective controlled studies are needed to confirm our results.





