



Anticoagulant related nephropathy in a patient with IgA nephropathy

Ariana Azevedo¹, Mário Góis¹, Fernanda Carvalho¹, Fernando Nolasco¹

1- Nephrology Department, Centro Hospitalar Lisboa Central, EPE - Hospital Curry Cabral, Lisbon

INTRODUTION AND AIMS

+ Anticoagulant-related nephropathy (ARN) is defined as acute kidney injury caused by over-coagulation and since the renal biopsy performed in most cases the diagnosis is frequently presumptive. The risk of occurrence of this condition is higher in patients with diabetes, hypertension, heart CKD and glomerulonephritis. Morphologically, it's characterized by glomerular hemorrhage and acute tubular necrosis due to obstruction by red blood cell casts (RBC) and ultimately, by heme toxicity.

METHODS AND RESULTS

+ 84-year-old, ∂

- + Past medical history: arterial hypertension, coronary heart disease, hypothyroidism, prostate cancer, atrial fibrillation; Treated with ramipril+hydrochlorothiazide, amlodipine, levothyroxine, esomeprazole, acenocoumarol, tamsulosin, bicalutamide and goserelin
- Haematoproteinuria + AKI during a phase of excessive anticoagulation

Pu	82 mg/dl	Hb	10 8 a/dl	ANA / anti-dsDNA	neg	Serum	
Pcr	4,68 mg/dl (1 mg/dl					electrophoresis and	normal
	one month before)	WBC	6200^9 g/L	ANCAs/ anti-GBM	neg		
	prot 100 ma/dl	Platelets	176^9 g/L	C3/C4	normal	Anti-HIV, Anti-	
urinalysis	RBC 3394/uL						
24h-protein	uria 3,6g	INR	2,03 (6,96 one	Cryoglobulins	neg	HCV, HBsAg	neg
Renal US	S Normal		ween beidiej			and HDSAC	



RENAL BIOPSY







Fig.1 - RBC casts; acute tubular necrosis Fig.2 - cytoplasmic iron deposition in (Masson's trichrome stain; 400x) tubular epithelial cells (Perls stain; 400x)

+ ARN

Fig.3 - Immunofluorescence: IgA mesangial deposits

ariana.cerqueira.azevedo@gmail.com

DIAGNOSIS

+ IgA nephropathy (M1E0S0T0)



EVOLUTION

- Acenocoumarol was withdrawal and switch to enoxaparin; Scr at discharged of 3.45mg/dl
- + 2 months latter: SCr decreased to 2.7mg/dl but proteinuria remained in nephrotic range (4.6g/24h). Thus, enalapril 5mg qd was prescribed and enoxaparin was replaced by apixaban 2.5mg bid
- + 11 months latter: SCr 1.7mg/dl and proteinuria markedly improved (400mg/24g)

CONCLUSION

- Three cases of ARN in patients with IgA nephropathy have been reported.
- + In addition to hypertension, cardiovascular disease and age, the presence of IgA nephropathy appears to be a predisposing factor to ARN.
- + The most important therapeutic approach is the prevention and closely monitoring the patients under anticoagulation

