

Meet the expert

Case Report

Presenter: Moysidou Eleni, MD
Nephrology Resident

*First Department of Nephrology, AUTH, Hippokration Hospital of
Thessaloniki*



Case Report

- 39-year-old man of Pakistan origin
- Non-smoker
- Medical History (-)
- Medication (-)

- Presentation (12/2022): **Nephritic Syndrome**
 - Proteinuria → 7-10gr/24h
 - Microscopic Hematuria
 - SCr 1.3-1.4mg/dl – eGFR (CKD-EPI):61ml/min/1,73m²
 - Hypertension (SBP 145mmHg, DBP 100mmHg)
 - Mild Edema (+)

Case Report

Laboratory Tests at Presentation

WBC	6700	<i>K/μL</i>
NEUT	70	%
LYMPH	19	%
MONO	7	%
EOS	3	%
BASO	0.5	%
HCT	46.6	%
HGB	14.9	<i>g/dl</i>
MCV	79	<i>fL</i>
MCH	25	<i>pg</i>
MHCH	32	<i>g/dl</i>
PLT	238.000	<i>K/μL</i>

GLU	79	<i>mg/dl</i>
Serum urea	49	<i>mg/dl</i>
Serum creatinine	1.14	<i>mg/dl</i>
eGFR (CKD-EPI)	81	<i>ml/min/1.73m²</i>
Uric acid	6.6	<i>mg/dl</i>
Ca	8.3	<i>mg/dl</i>
P	2.9	<i>mg/dl</i>
K	4.5	<i>mmol/L</i>
Na	137	<i>mmol/L</i>
Total Protein	5.6	<i>g/dl</i>
Albumin	3.3	<i>g/dl</i>
CRP	1.3	<i>mg/L</i>

Case Report

Laboratory Tests at Presentation

SGOT	25	U/L
SGPT	27	U/L
Cholesterol	252	mg/dl
TG	358	mg/dl
HDL	38	mg/dl
LDL	144	mg/dl

GLU	79	mg/dl
Serum urea	49	mg/dl
Serum creatinine	1.14	mg/dl
eGFR (CKD-EPI)	81	ml/min/1.73m ²
Uric acid	6.6	mg/dl
Ca	8.3	mg/dl
P	2.9	mg/dl
K	4.5	mmol/L
Na	137	mmol/L
Total Protein	5.6	g/dl
Albumin	3.3	g/dl
CRP	1.3	mg/L

Case Report

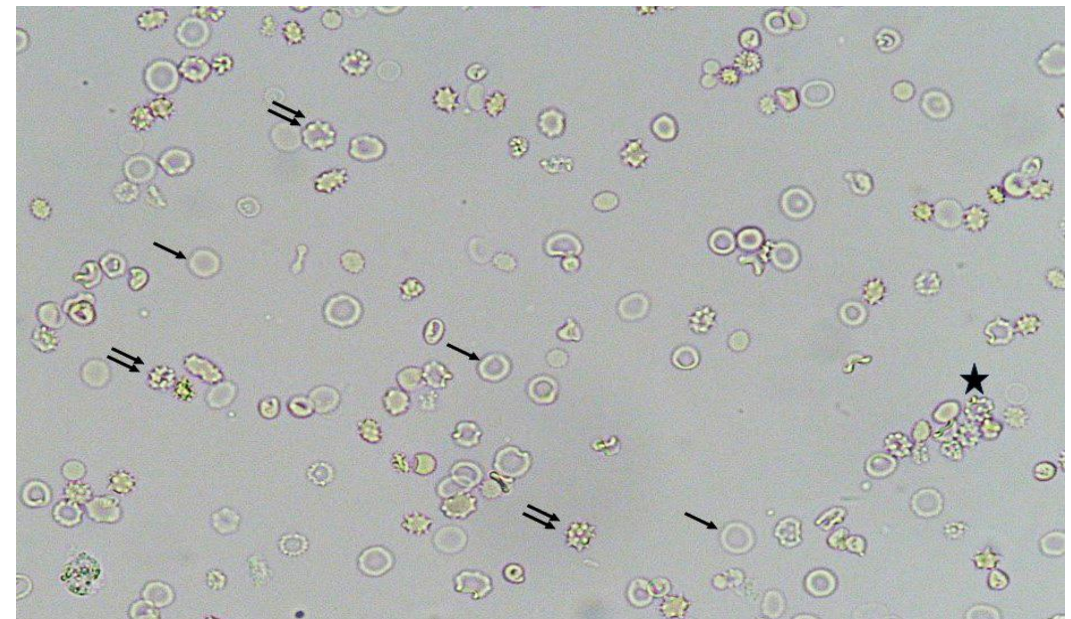
Laboratory Tests at Presentation (Urine)

Urine Spot

Color	Yellow
pH	5
Specific gravity	1006
Protein	(+++)
Glu	(-)
Ketones	(-)
Nitrite	(-)
WBC	0-1 HPF
RBC	51-80 HPF
UPCR	5510 mg/g

Urine 24h

Urine Volume	2600	ml/24h
Urea	20.9	gr/24h
Creatinine	1316	mg/24h
Protein	7136	mg/24h



Case Report

More Laboratory Tests

ANA (IFA)	1/160 (-)		
MPO ANCA	0.83	<5	(U/ml)
PR3 ANCA	0.87	<5	(U/ml)
anti-GBM	0.43	<6.7	(RU/ml)
Immunofixation	(-)		
IgA	286	82-453	(mg/dl)
IgM	47	46-304	(mg/dl)
IgG	840	751-1560	(mg/dl)
C3	127	79-152	(mg/dl)
C4	28	16-38	(mg/dl)
anti-PLA2R IgG	4	<14	(RU/ml)
HBV,HCV,HIV	(-)		

Kidney Ultrasound

Kidney size

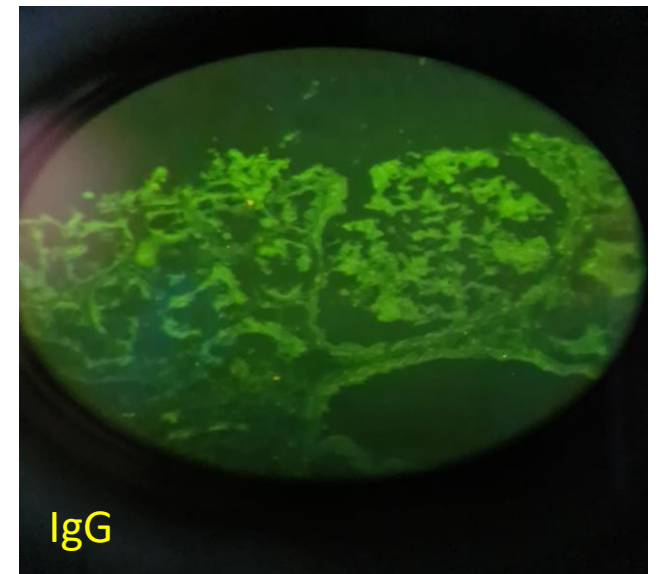
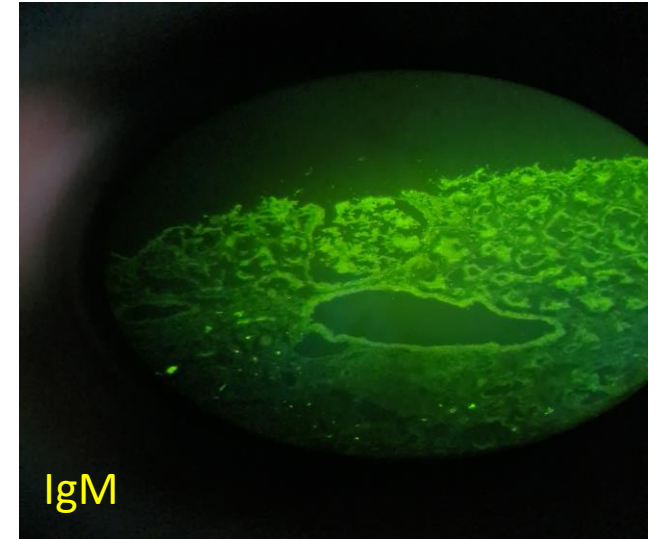
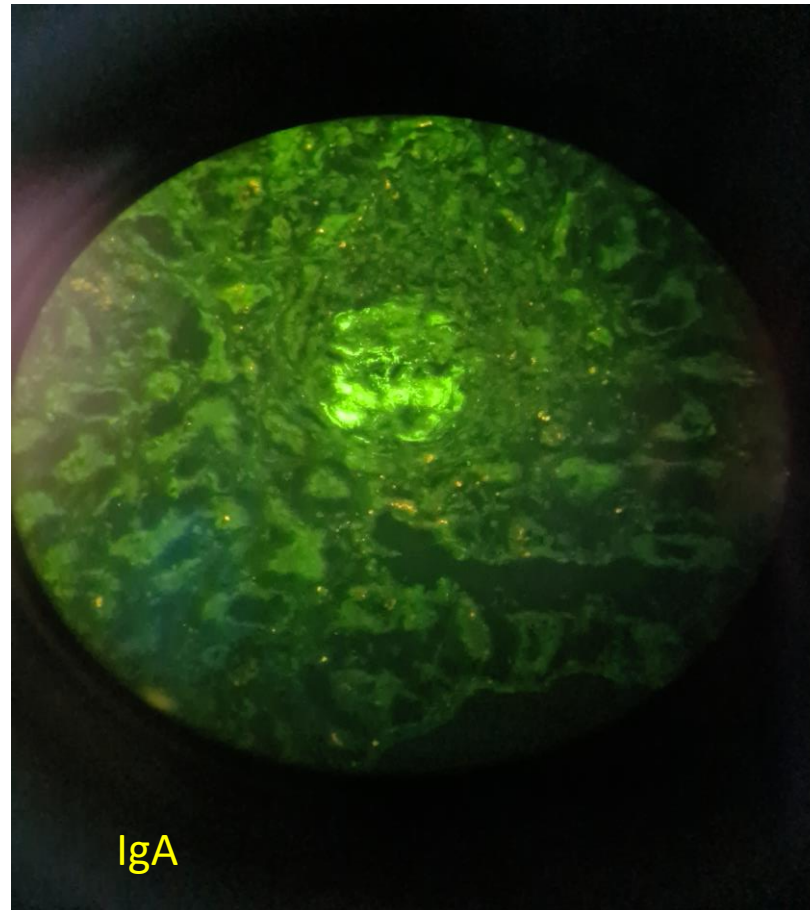
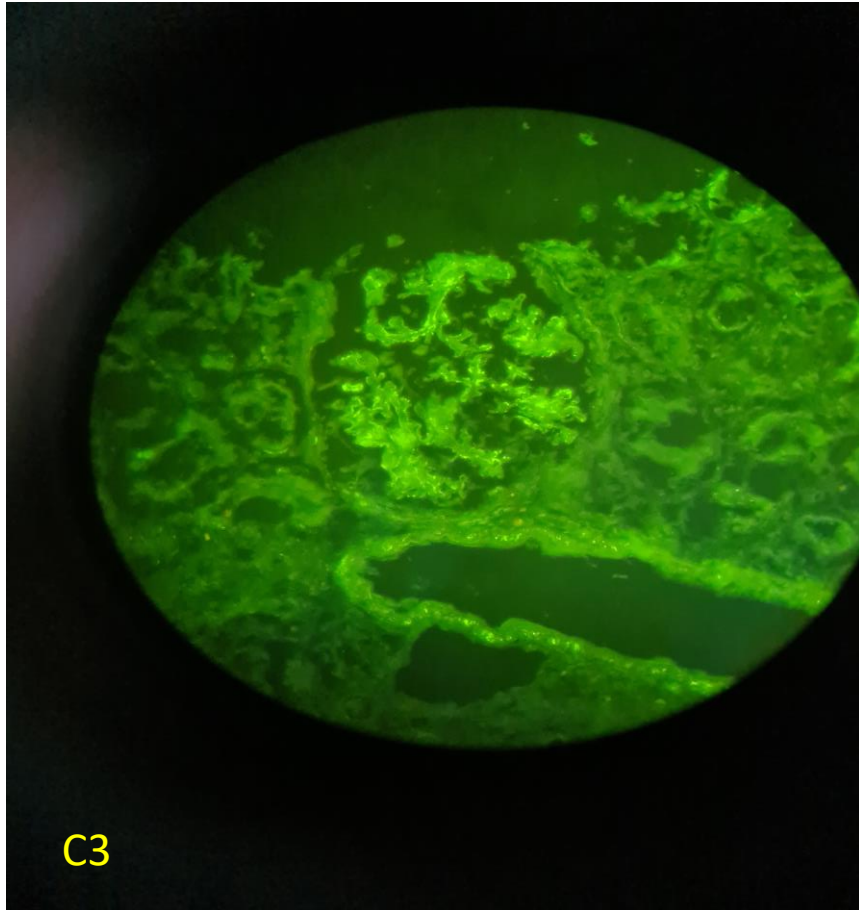
- Right Kidney: 10cm
- Left Kidney: 9.7cm

Homogeneous echotexture

Distinct corticomedullary differentiation

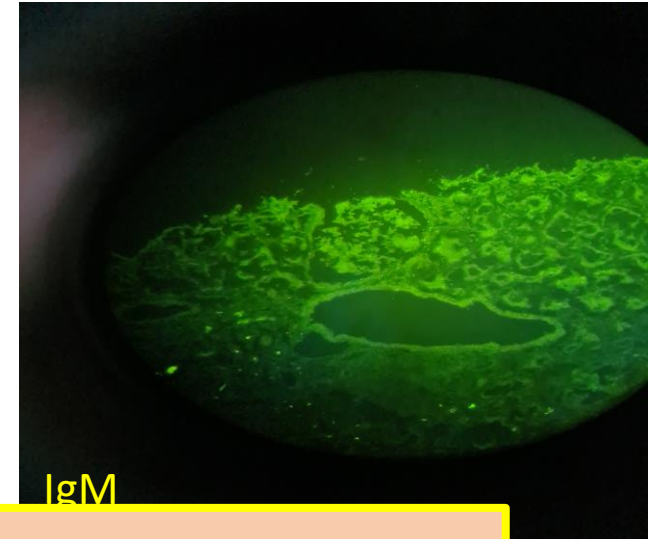
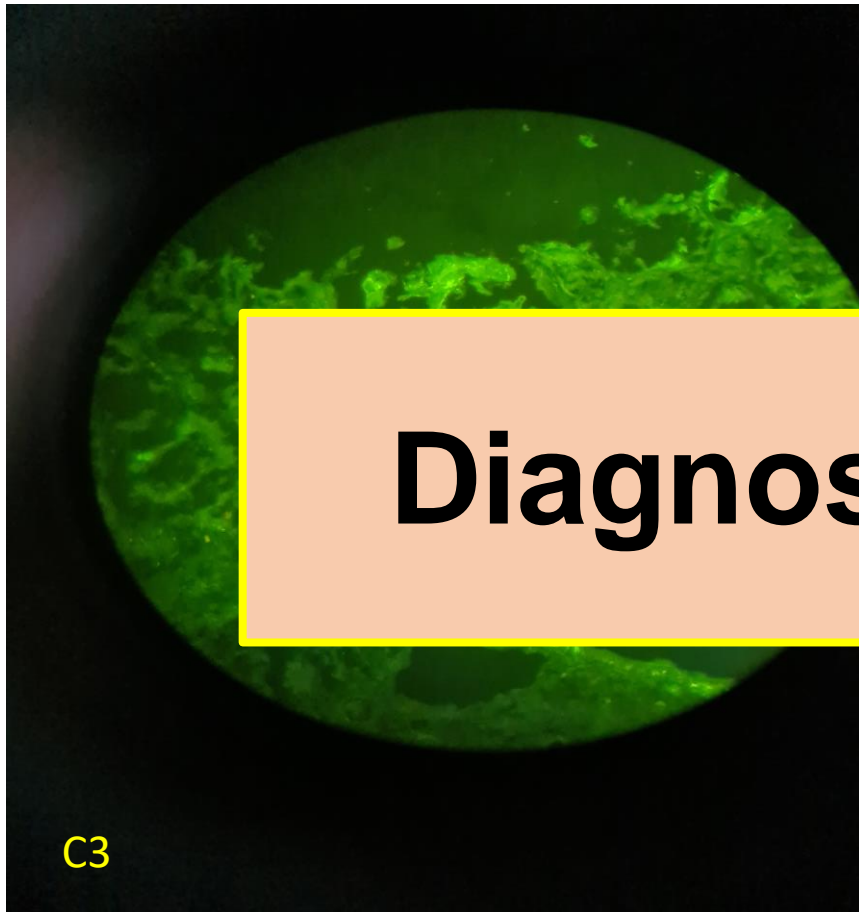
KIDNEY BIOPSY

Immunofluorescence



KIDNEY BIOPSY

Immunofluorescence

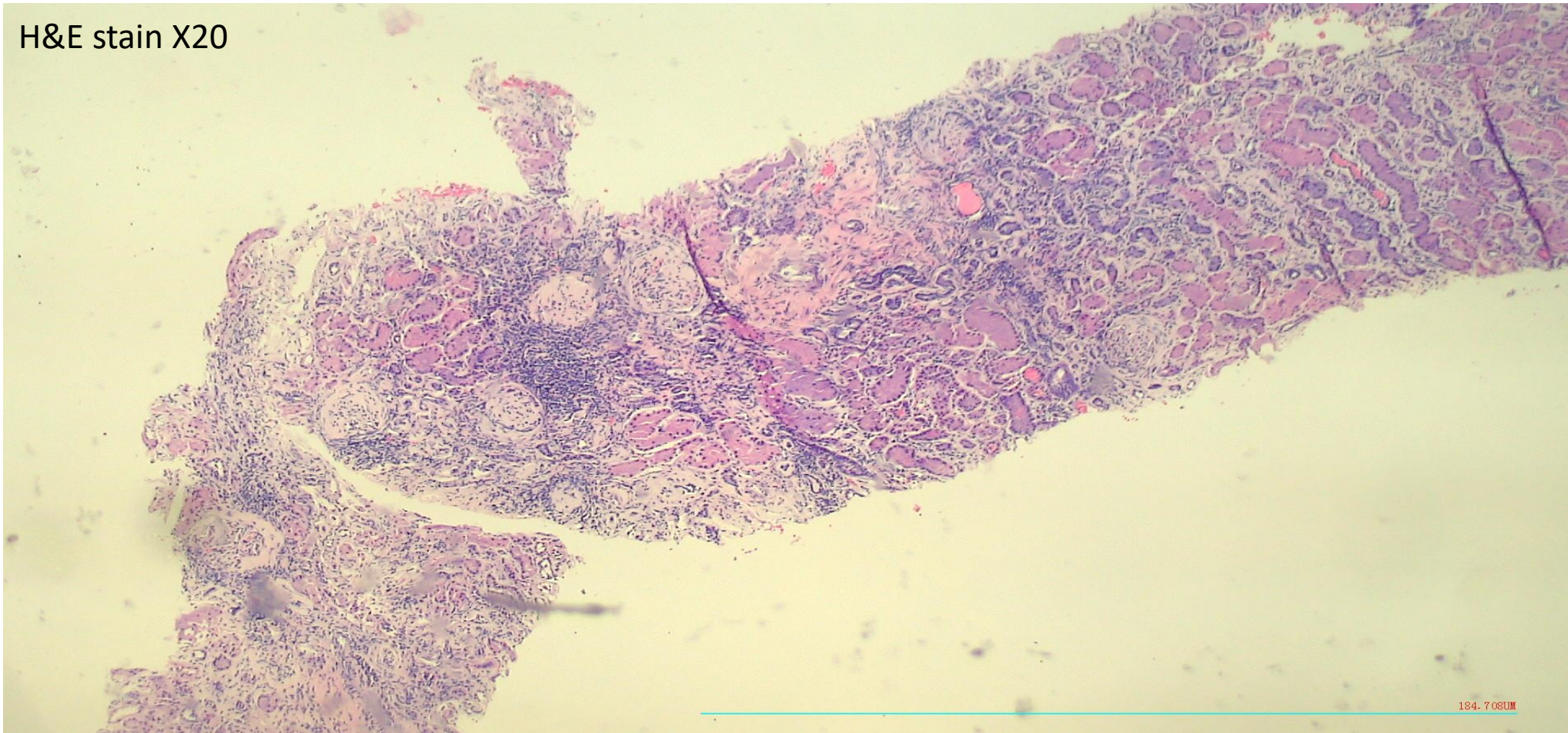


Diagnosis: IgA Nephropathy

KIDNEY BIOPSY

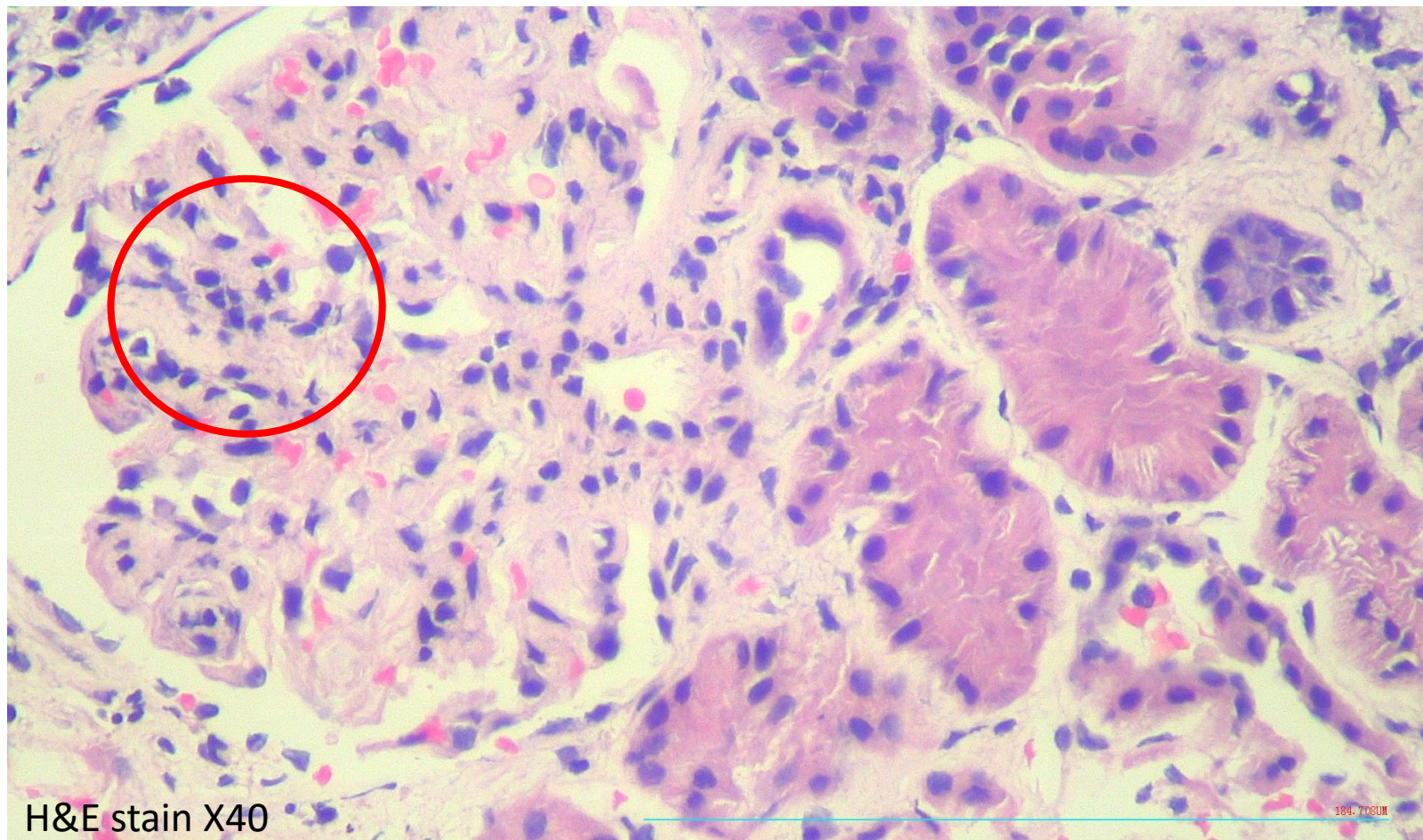
Light Microscopy

H&E stain X20



KIDNEY BIOPSY

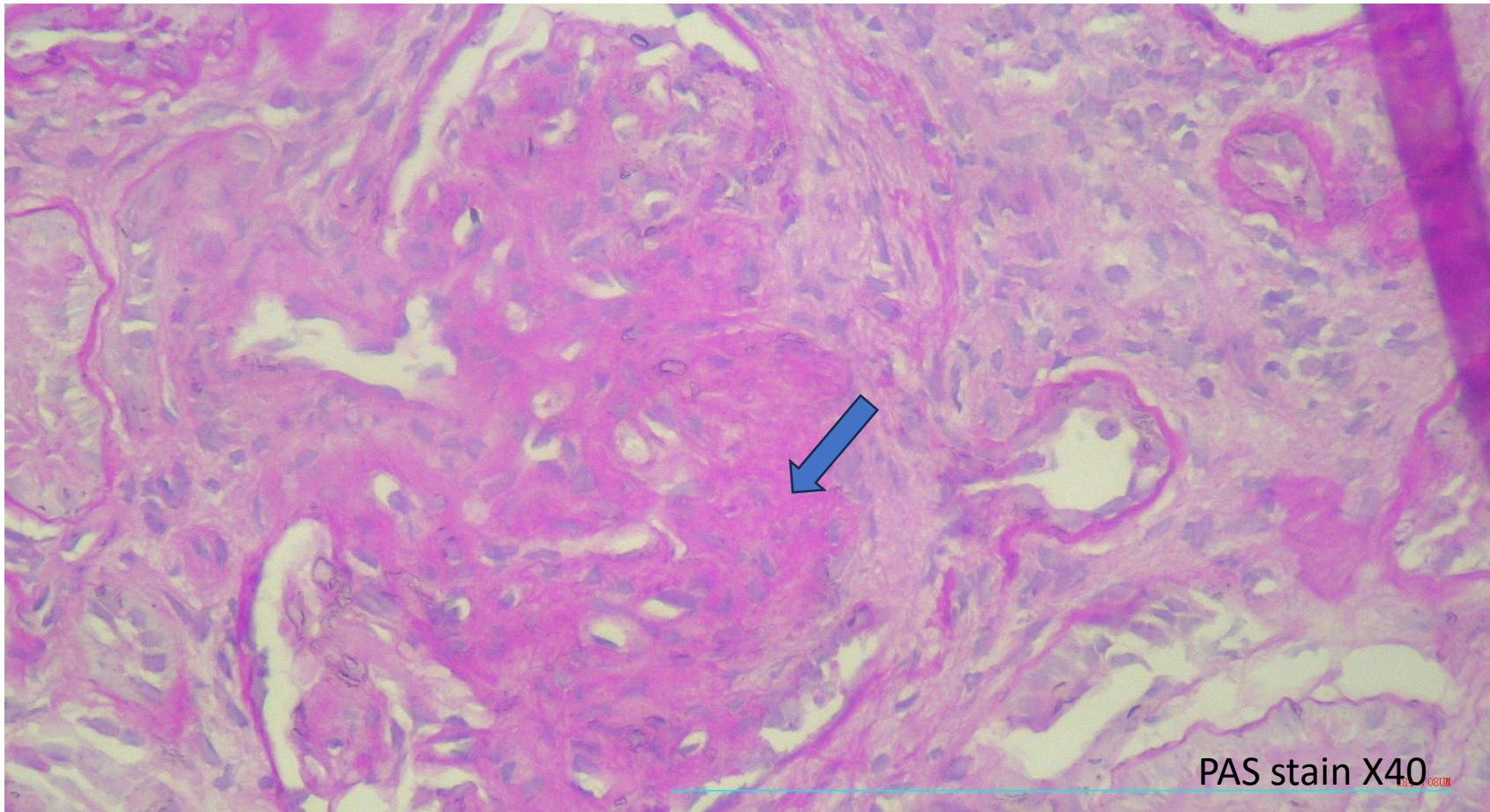
Light Microscopy



M1E1S1T0 - C1 score

KIDNEY BIOPSY

Light Microscopy



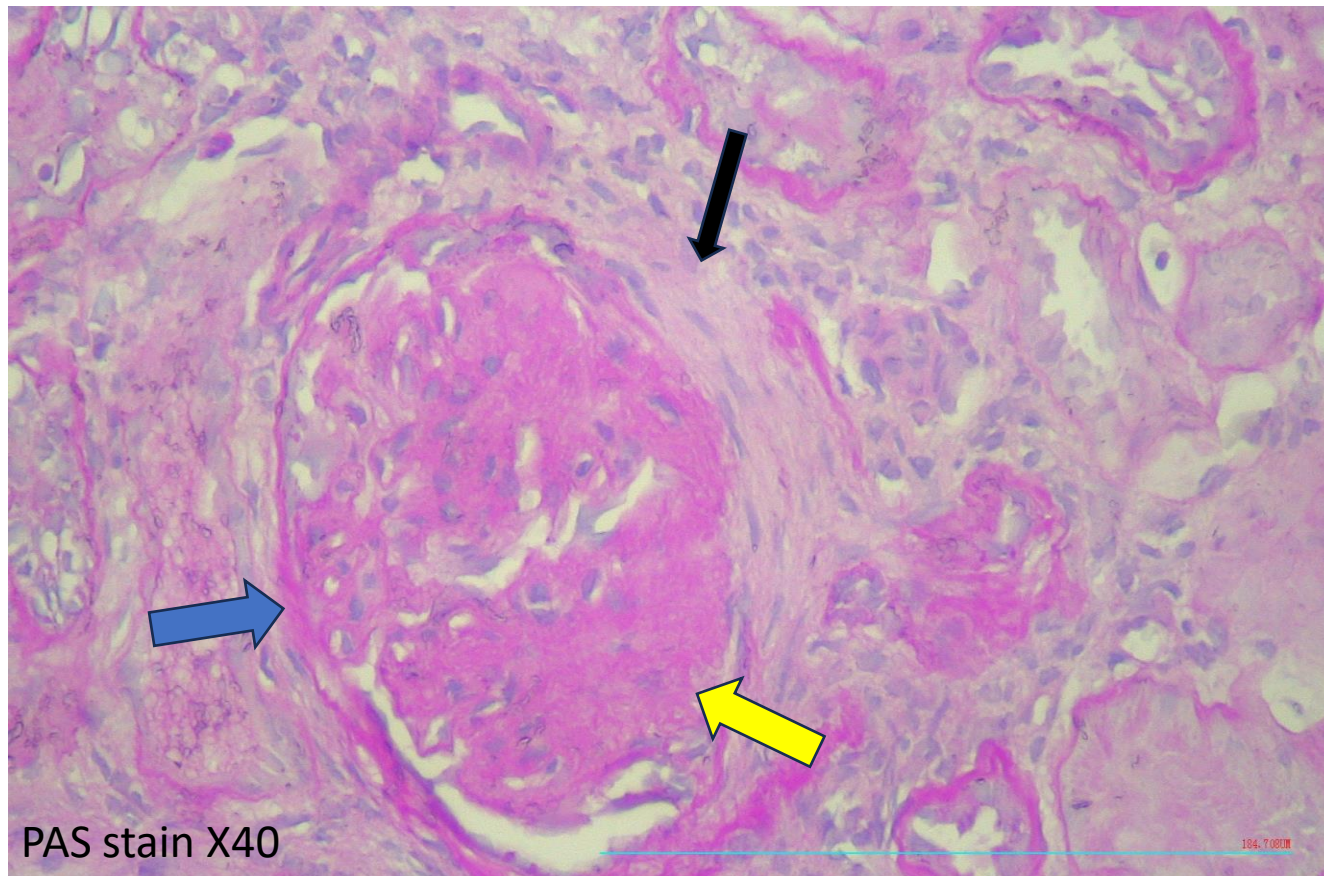
M1E1S1T0 - C1 score

PAS stain X40

KIDNEY BIOPSY

Light Microscopy

M1E1S1T0 - C1 score



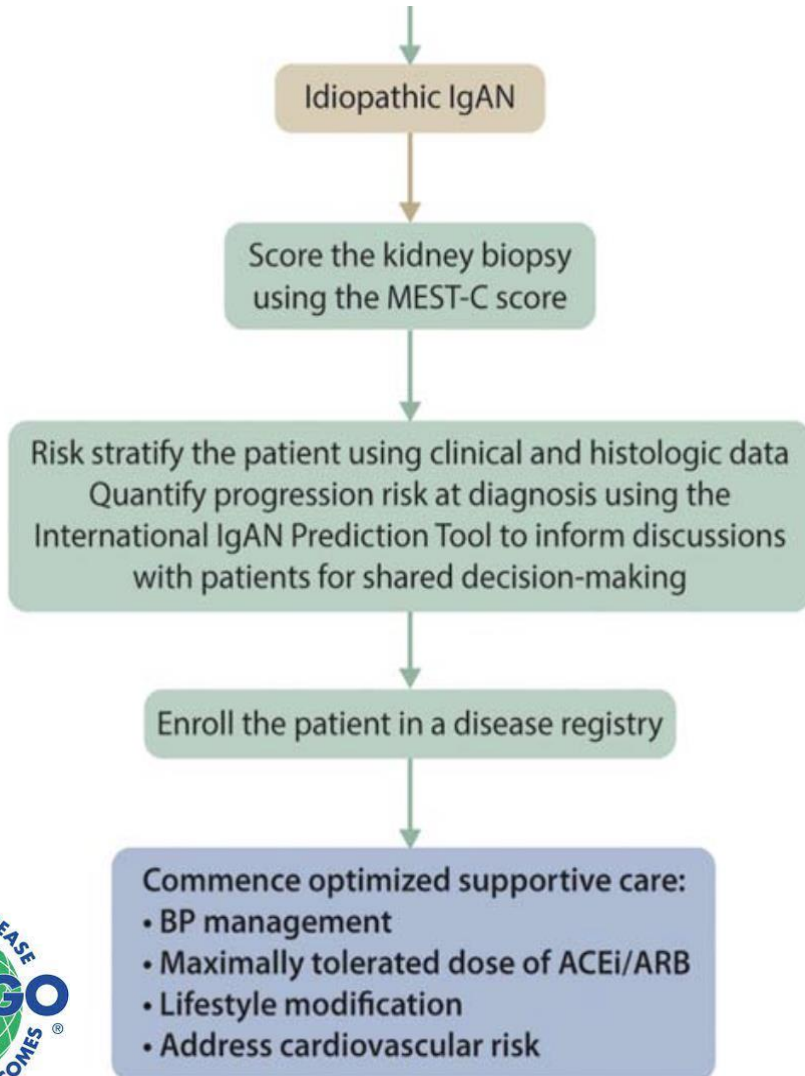
KIDNEY BIOPSY

Light Microscopy



M1E1S1T0 - C1 score

Case Report



International IgAN Prediction tool

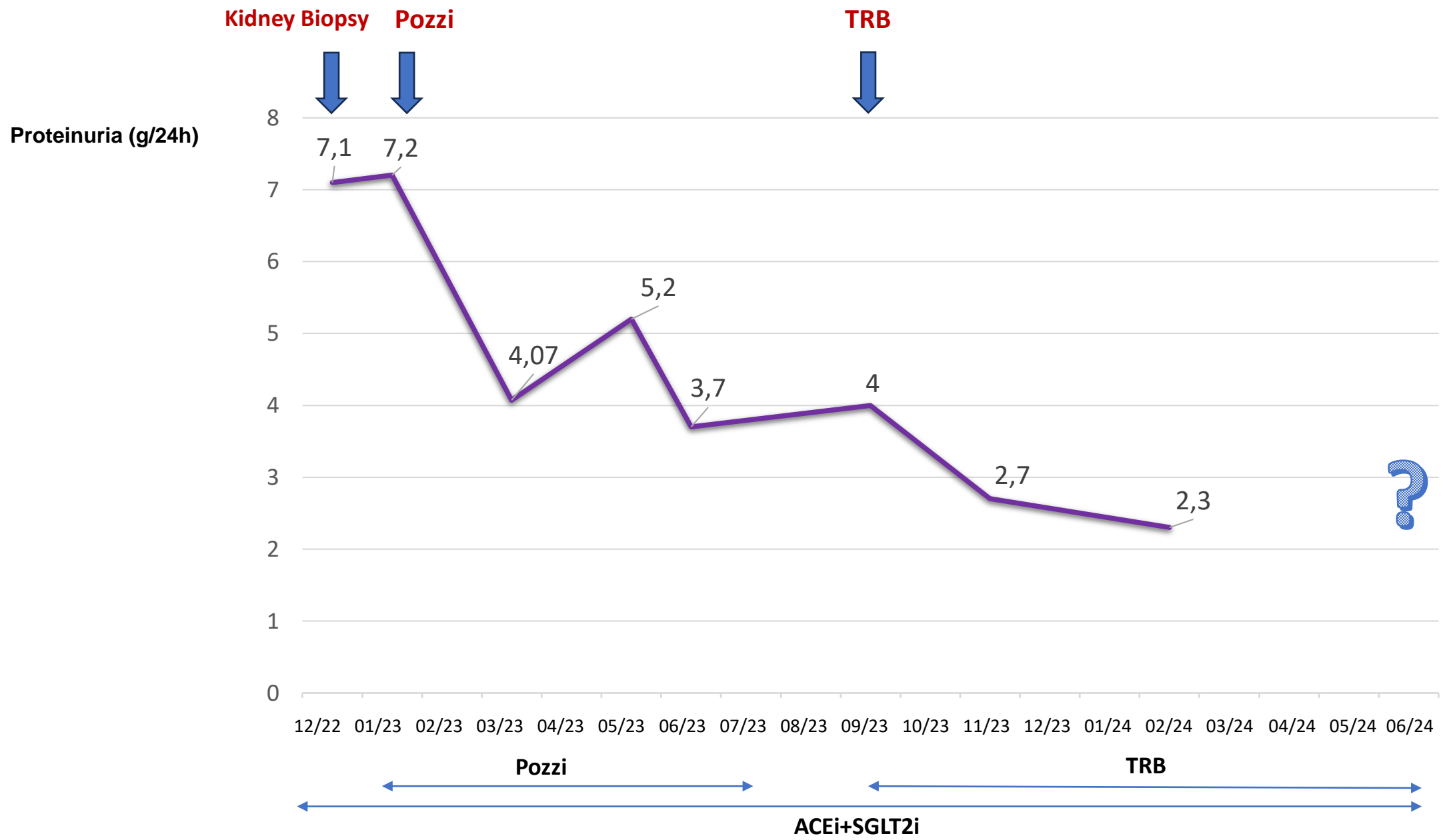
Calculator	About	References
Determine prognosis in adults with IgA nephropathy		
Questions		
1. Estimated GFR at biopsy		81 ml/min/1.73m2
2. Systolic blood pressure at biopsy		130 mmHg
3. Diastolic blood pressure at biopsy		90 mmHg
4. Proteinuria at biopsy		7.1 g/day
5. Age at biopsy		39 Years
6. Race		Other
7. Use of ACE inhibitor or ARB at the time of biopsy		No
8. MEST M-score		1
9. MEST E-score		1
10. MEST S-score		1
11. MEST T-score		0
12. Immunosuppression use at or prior to biopsy		No
13. At how many months after renal biopsy would yo...		60 Months

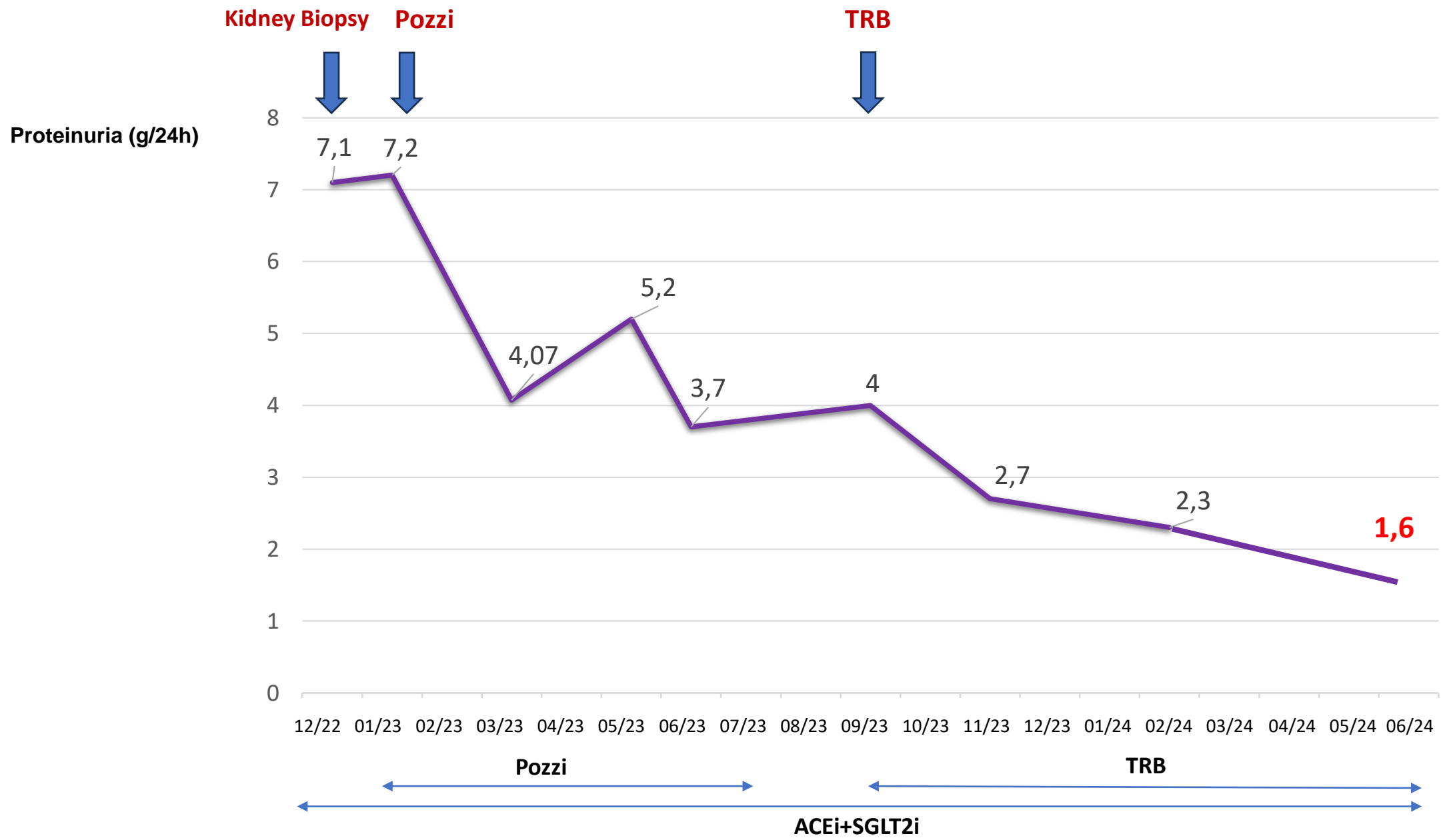
Results

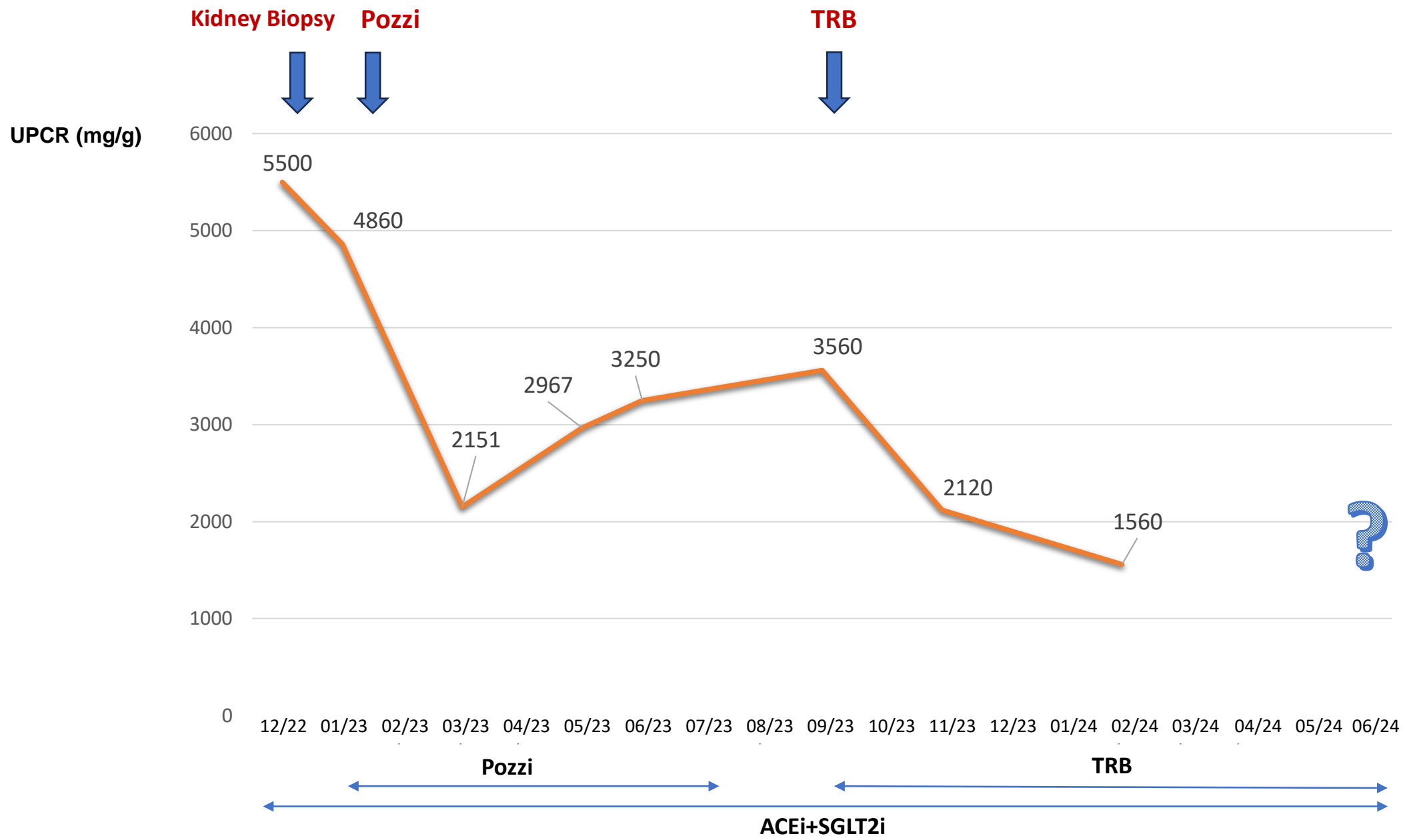
[★ Save](#) [📄 Copy Results](#)

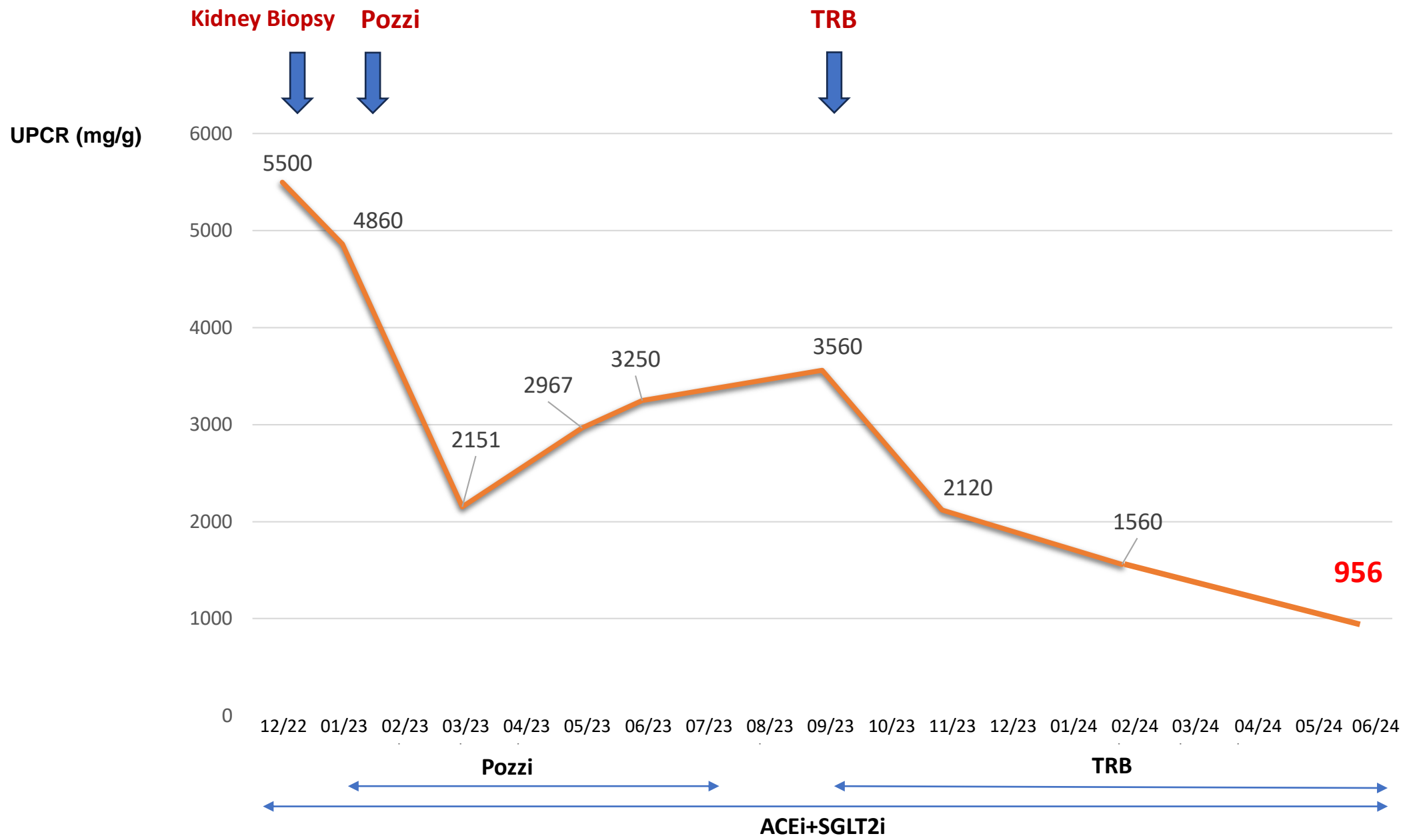
Risk of Progression

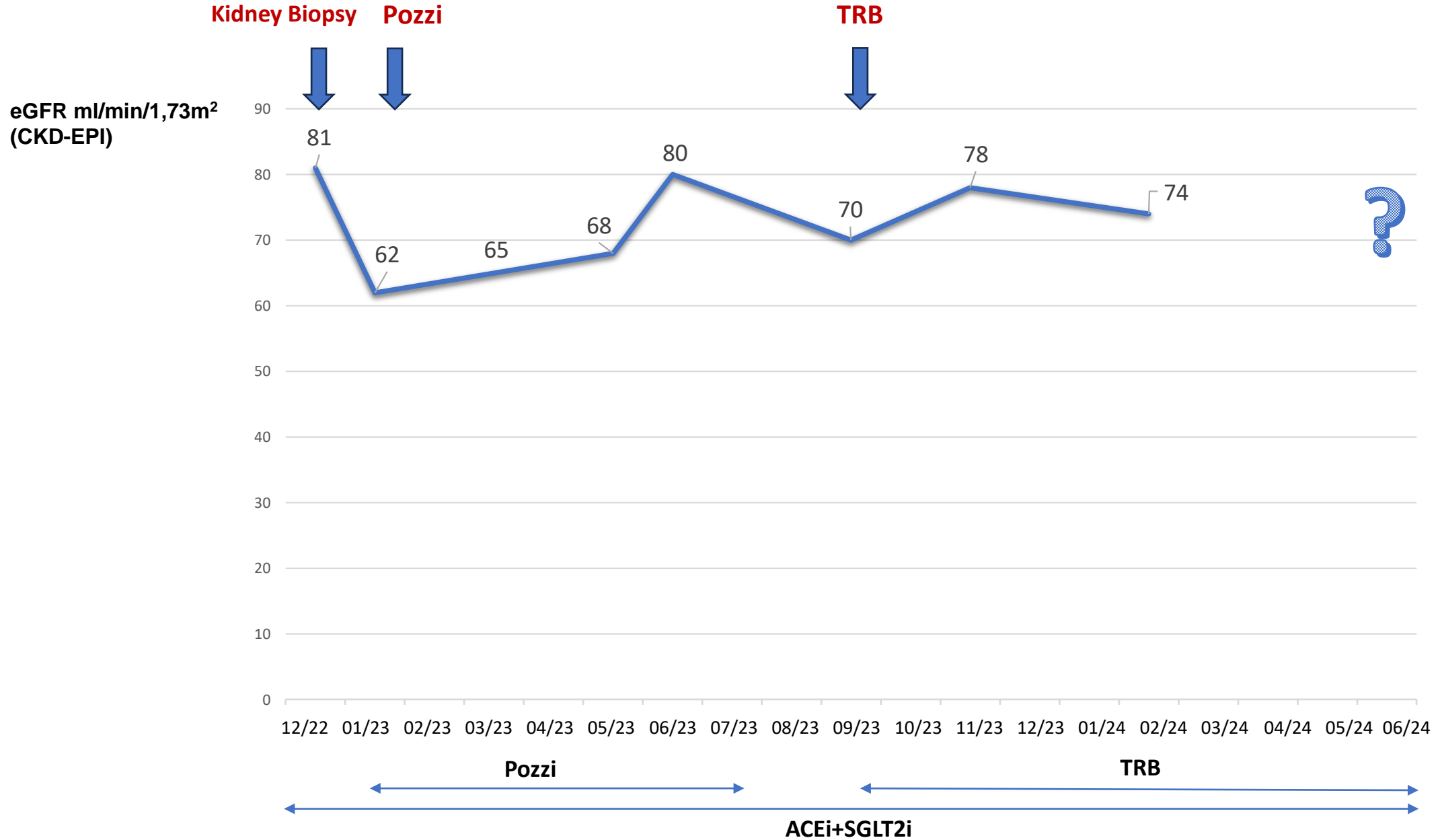
The risk of a 50% decline in estimated GFR or progression to end-stage renal disease 5.0 years after renal biopsy is 13.61%

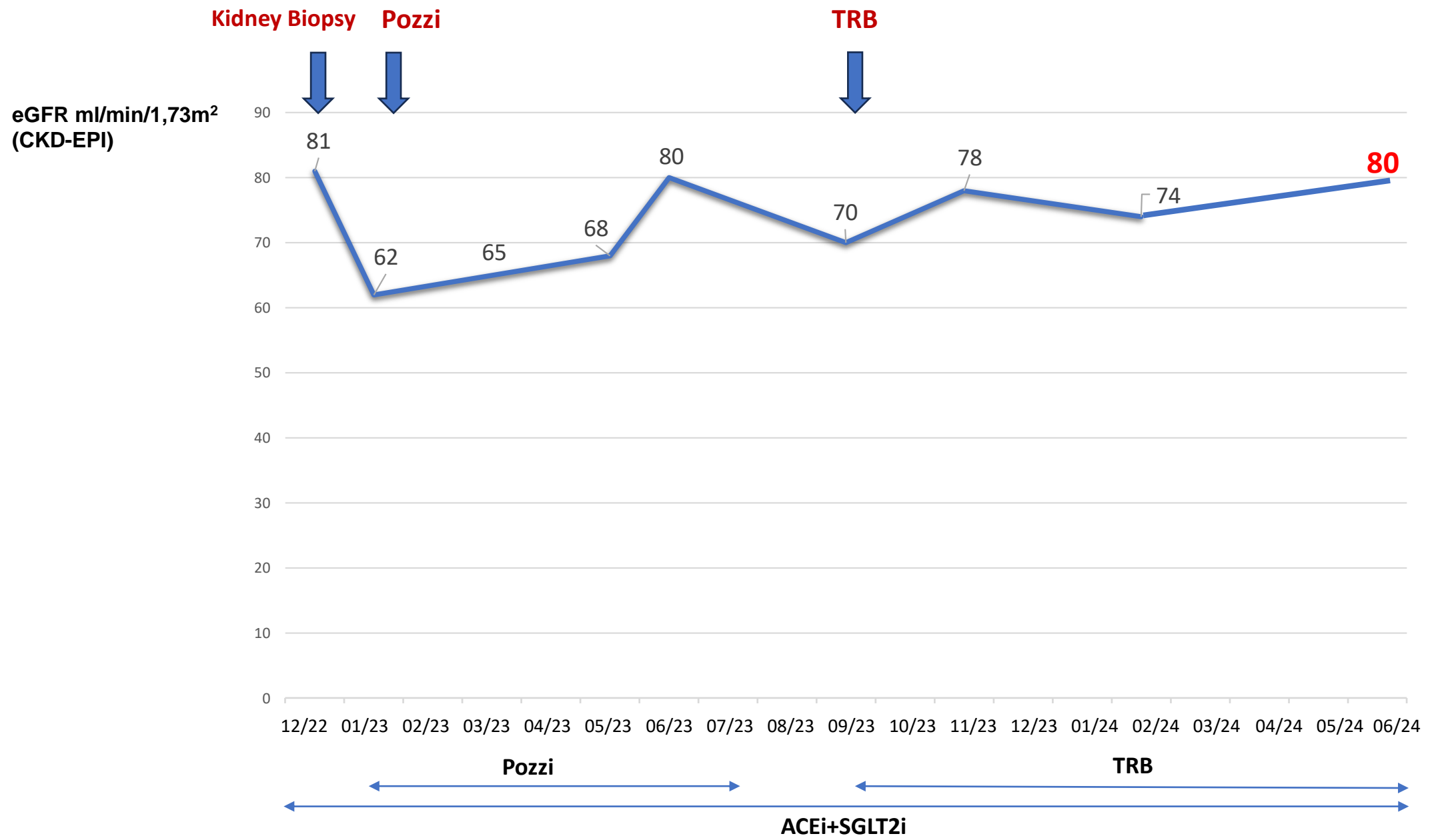












Topics to be discussed

- A. IgA Nephropathy with nephritic syndrome– Should we wait for 90 days with an angiotensin-converting enzyme inhibitor (ACEi)/angiotensin II receptor blocker (ARB) and SGLT2i before commencing steroids?
- B. Which steroid protocol is the best? (IV pulses-Pozzi protocol or PO steroids- TESTING, Manno, Lv)
- C. Partial remission with Pozzi regime – next step?
- D. Kidney biopsy – should subclassification of FSGS be assessed? (Kidney Int 2024;1279-1290)
- E. Is there a need for a second biopsy, if no remission with budesonide?