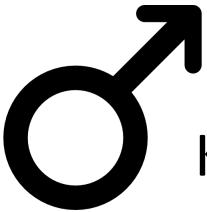


Caso clínico

Paola Riffo Ubilla

Nefróloga Pediátrica Hospital Base de Osorno



KMRS.

Healthy

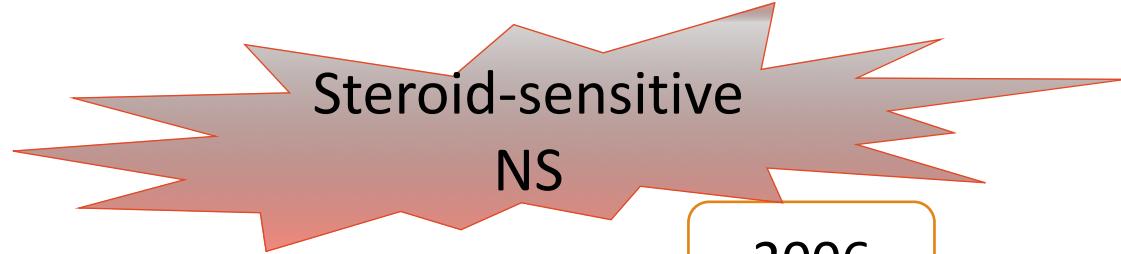
2006 (2 years old)
Nephrotic syndrome
debut

- Creat → normal
- C3-C4 → normal
- VIH, hepatitis B y C (-)

Infrequently relapsing
nephrotic syndrome
+
Hypertension
(enalapril, losartan, furosemide)

2009 (years old)
Renal Biopsy

Steroid-sensitive NS



2006

2011



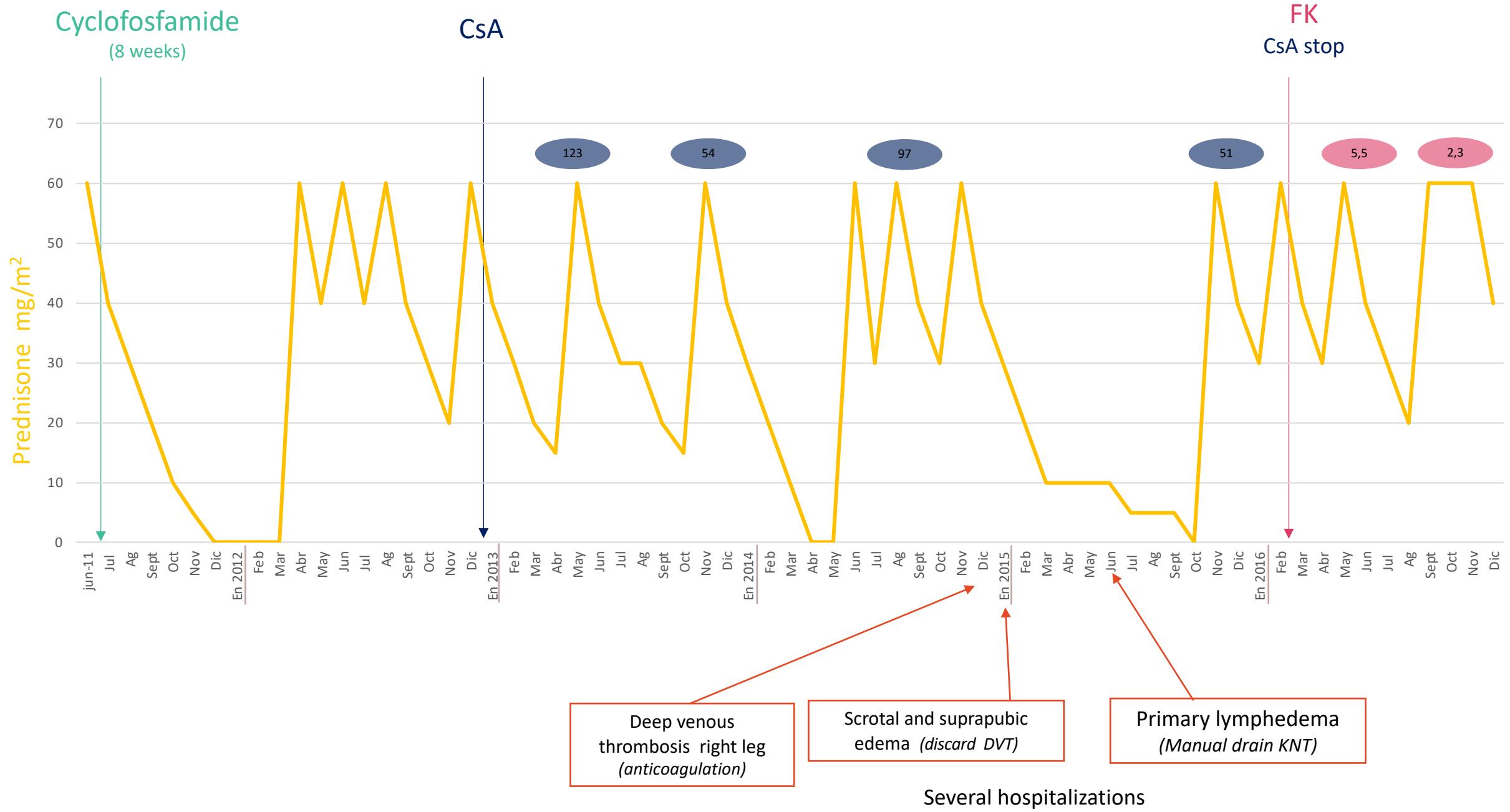
CDNS (Minimal change glomerulopathy)

Duration of disease → 5 years

7 years old



eGFR: 143 ml/min/1.73m²
Height Z score: -0.5 (119 cm)
BMI Z score: +2.2 (31 kg)



Primary Lymphedema

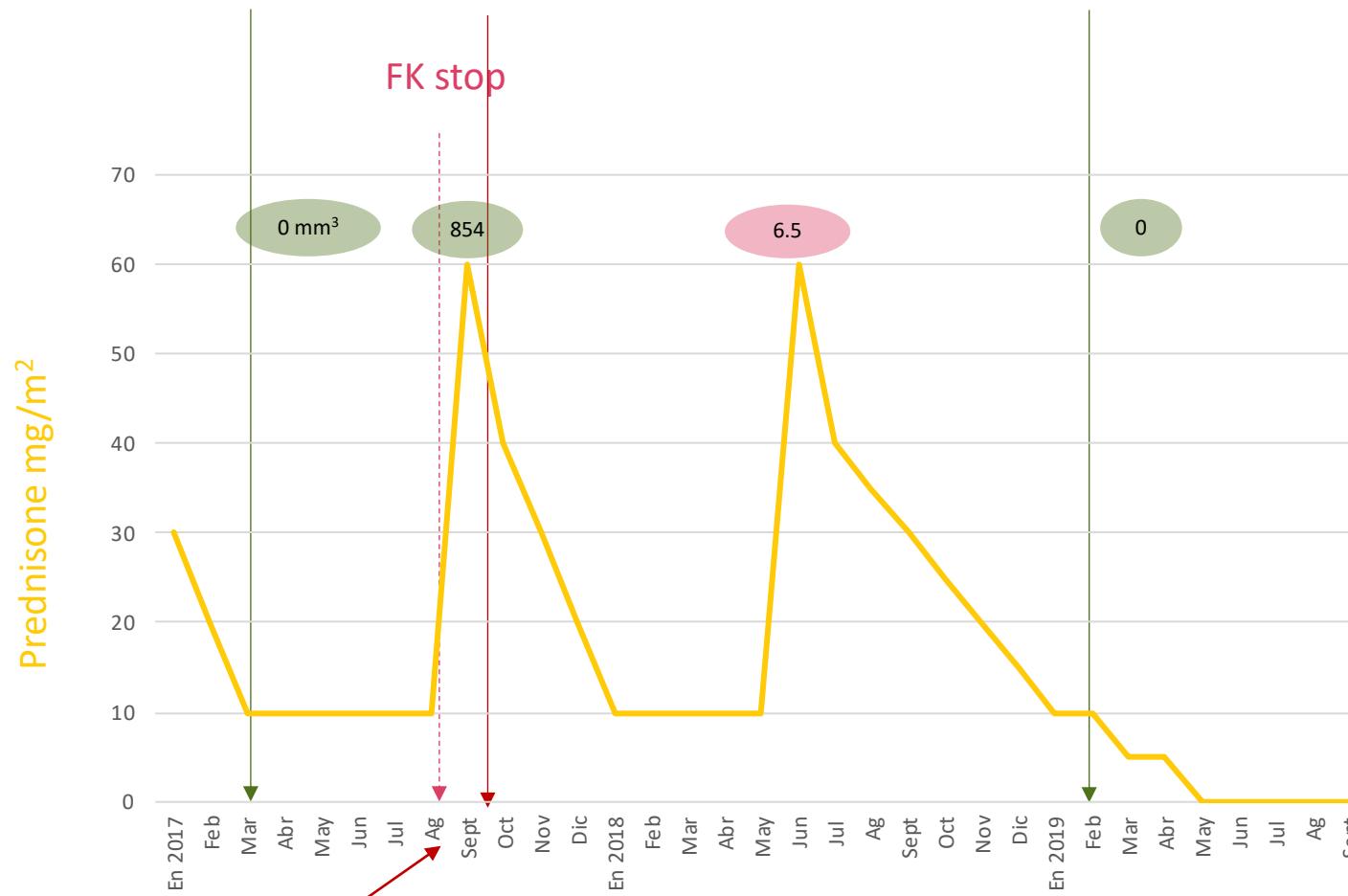


Legs, scrotal and suprapubic edema
Persistent (still in remission)

Rituximab 500mg x 2

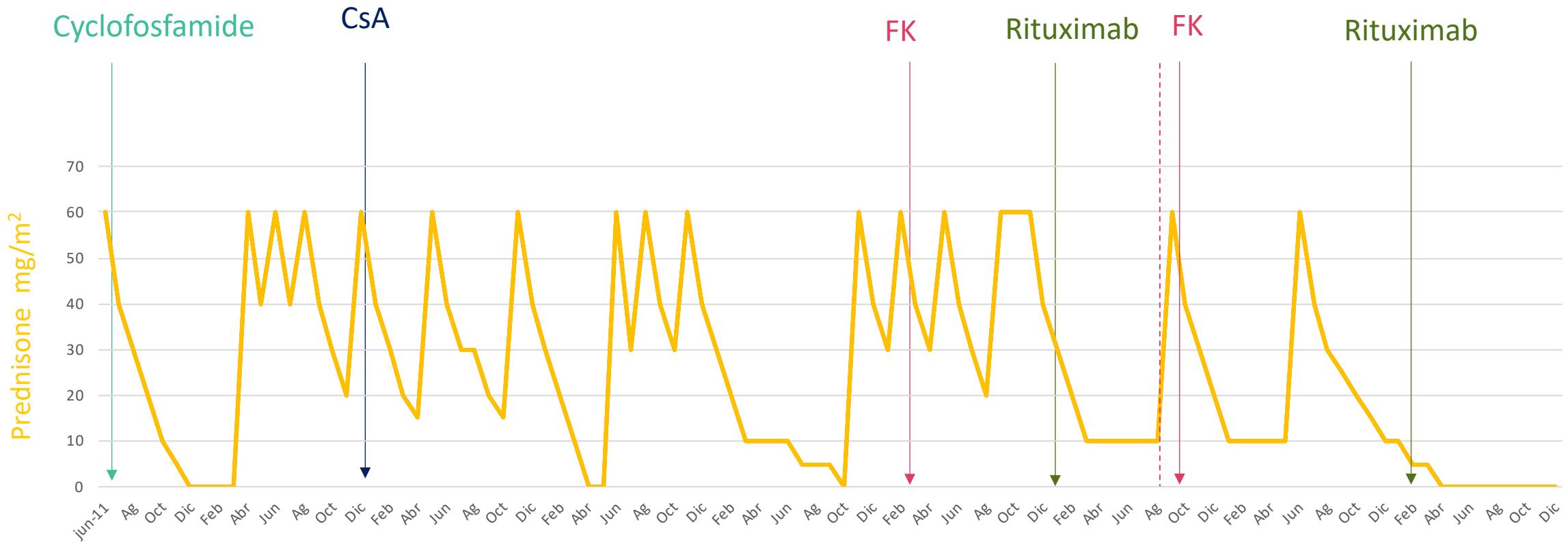
FK

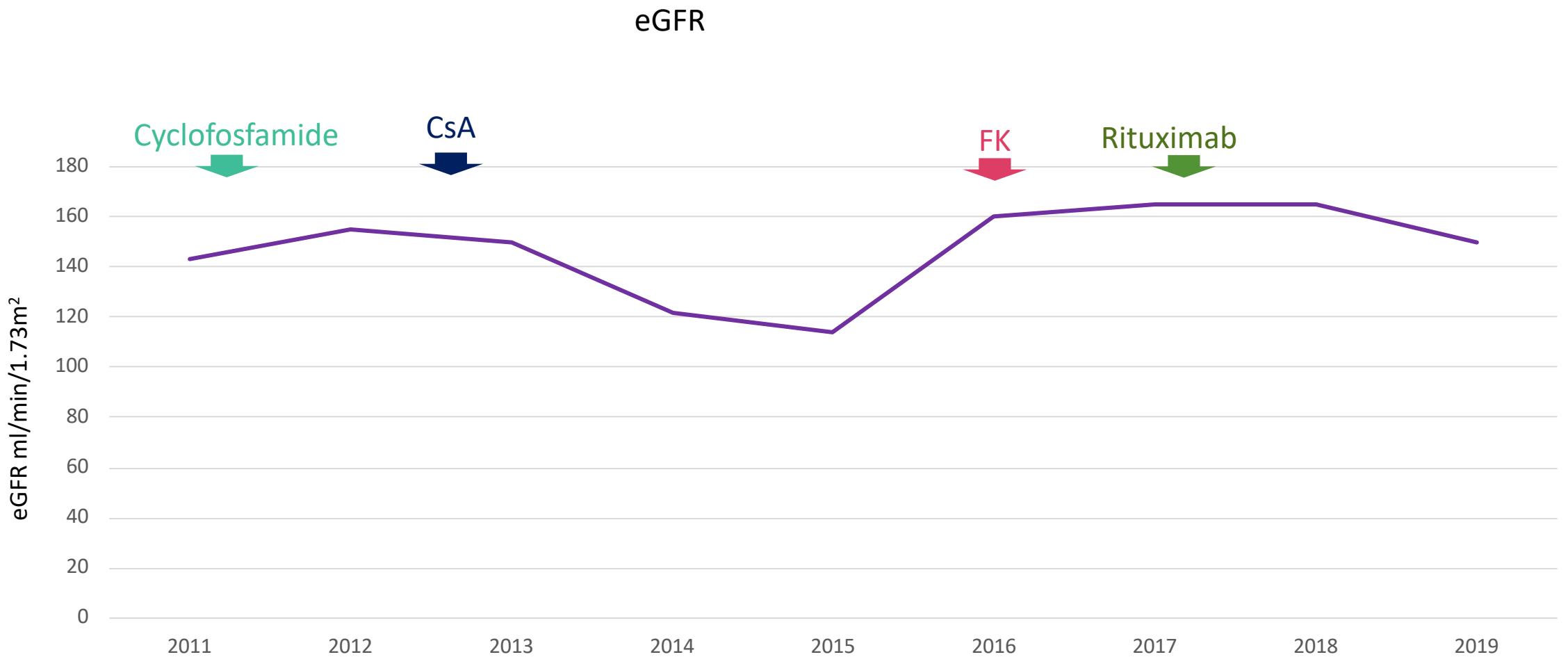
Rituximab 500mg x 2

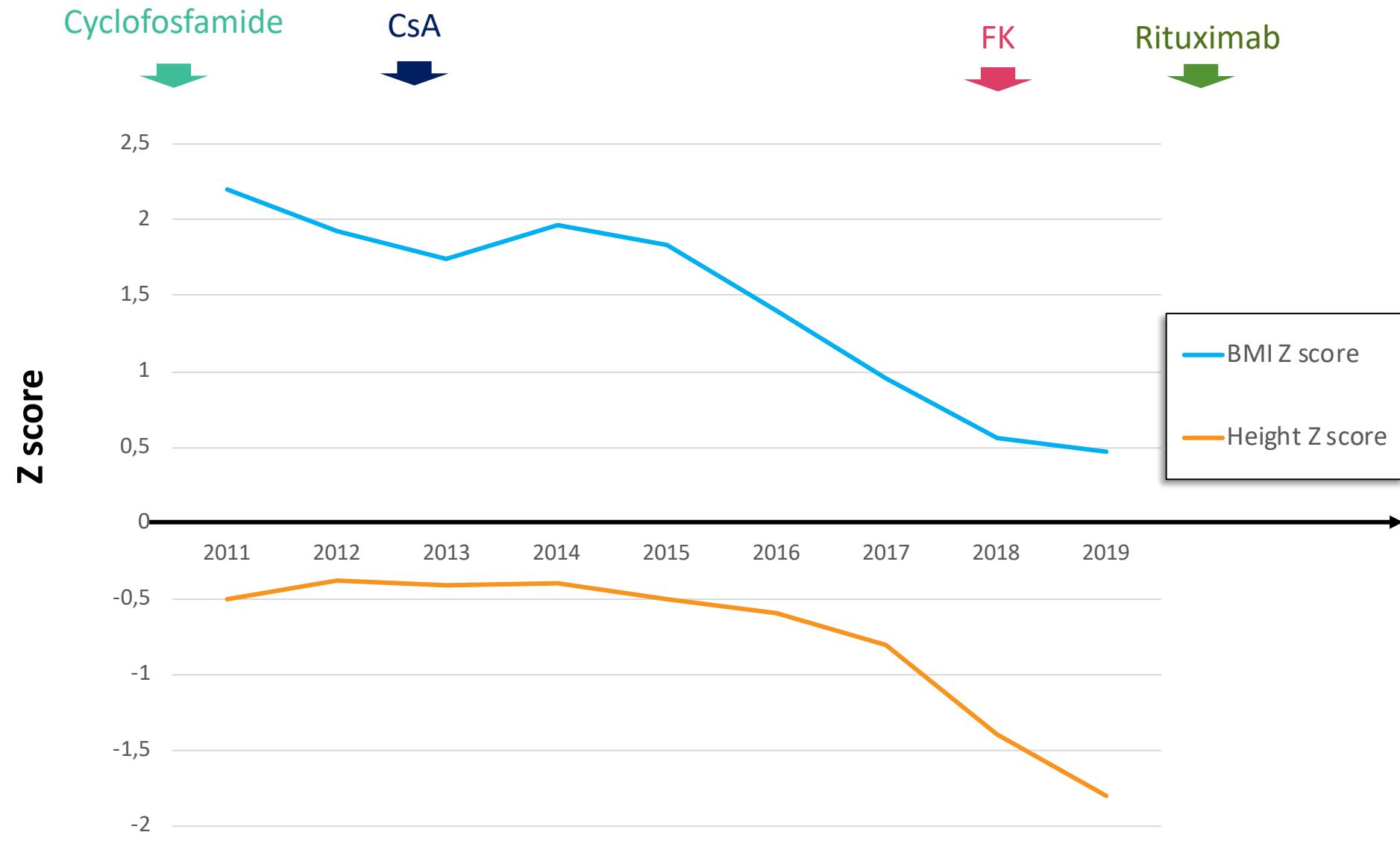


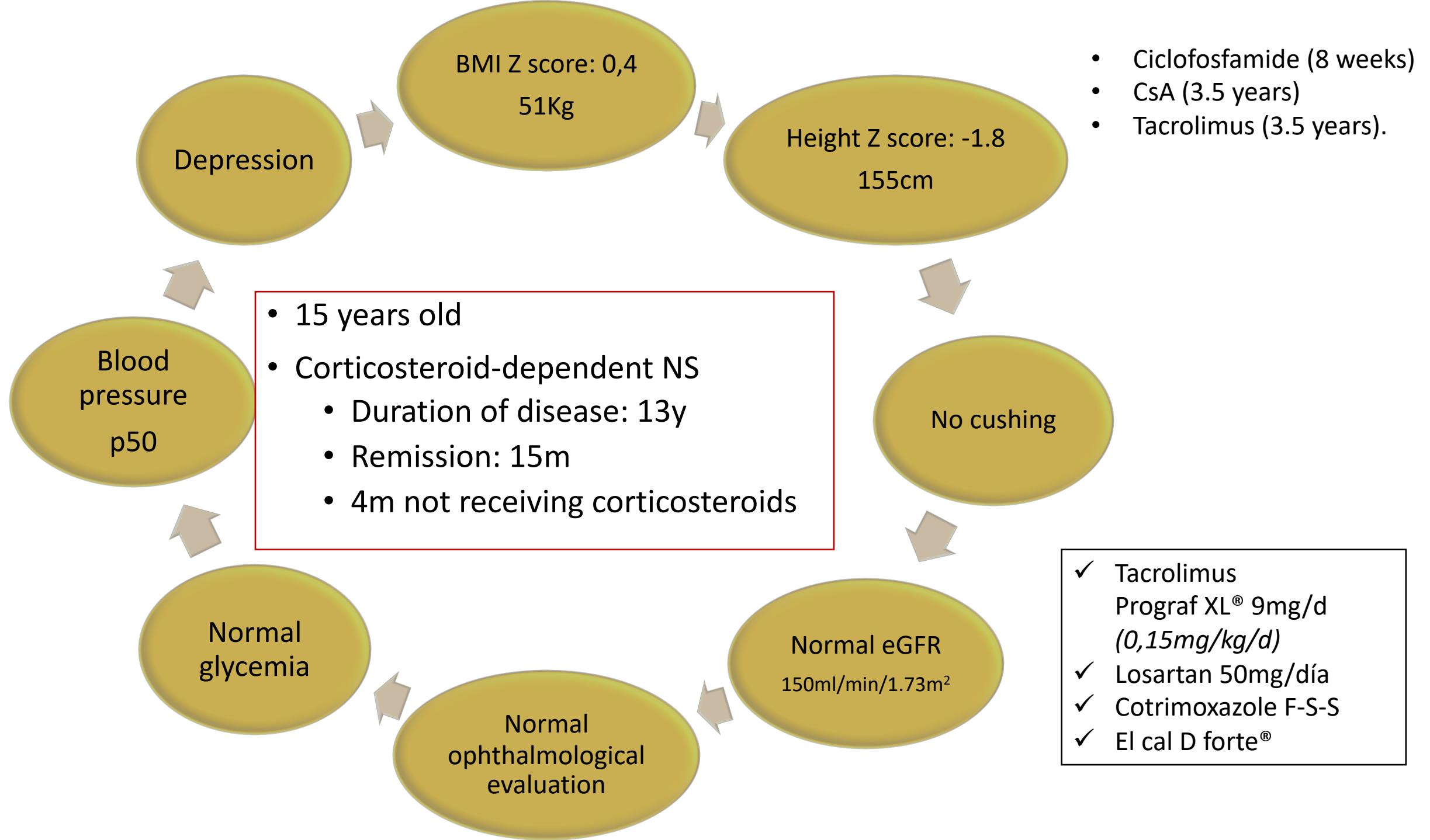
Skin infection
Sepsis

Moderate
depression









What do we do now???...continue whith tacrolimus?

YES

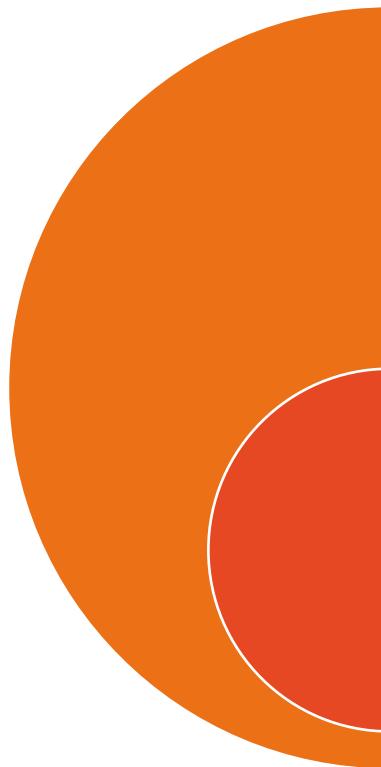
NO

Biopsy and decide according to result

If he relapses again...what immunosuppression should you use?

- A. Rituximab
- B. Mycophenolate
- C. Biopsy and decide according to result
- D. Only prednisone

Conclusions



Idiopathic NS is the most common disorder of glomerular function in children

Long-term prognosis:
Complete resolution
Normal kidney function

- 80-90% steroid-sensitive
- 40-50% CDNS/FRNS:
chronic glucocorticoid treatment

- Limiting the long term adverse effects
- Steroid-sparing treatment



Rituximab: B-lymphocyte– depleting monoclonal antibody

Guidelines KDIGO

Treatment option for childhood onset complicated FRNS/CDNS

Efficacy and safety established

Rituximab could be a first-line treatment for uncomplicated FRNS/CDNS

- A single course of rituximab reliably retains disease remission for 6 -12 months (relative)
- Minimize corticosteroid exposure
- Good tolerability and lack of nephrotoxic effects
- Is the most efficacious in maintaining relapse-free survival in children with CDNS???

Efficacy of Rituximab vs Tacrolimus in Pediatric Corticosteroid-Dependent Nephrotic Syndrome A Randomized Clinical Trial

Biswanath Basu, MD; Anja Sander, PhD; Birendranath Roy, MD; Stella Preussler, MSc; Shilpita Barua, MD; T. K. S. Mahapatra, MD; Franz Schaefer, MD

- N:120, 3 -16y
- A single course of rituximab vs tacrolimus
- Relapse-free survival rate : 90% vs 63.3%
- The relative risk of developing a relapse: 5 times >tacrolimus vs rituximab
- Median time to first relapse: 40 w vs 29m
- The mean cumulative corticosteroid dose during the 12-month study period was lower with rituximab compared with tacrolimus (25.8 vs 86.3 mg/kg).

