



Podonet

Registry for Steroid Resistant Nephrotic Syndrome

Rituximab-Infusion

- Dosing:** 375 mg/m², single dose
- Administration:** 45 min before administration: Premedication with antihistamine (e.g. clemastin) and paracetamol to prevent infusion-related reactions
- Start rituximab infusion at a final concentration 1-4 mg/ml.
Initial infusion rate 50 mg/hour
- Increase infusion rate in 50 mg/hour increments every 30 minutes to maximum infusion rate of 400 mg/hour as tolerated.
- If hypersensitivity or infusion-related reactions occur, slow or interrupt the infusion. If symptoms resolve completely, resume infusion at 50% of previous infusion rate. Epinephrine, clemastin and glucocorticoid should be available for immediate use in case of hypersensitivity reaction.
- Monitoring:**
- Before** rituximab administration:
CBC with differential count and immunogram (peripheral CD20+ cells)
Serum IgG level: If < 50% of age-appropriate level, substitute IgG.
- During** rituximab infusion:
Pulsoxymetry and cardiac monitoring
Vital signs before start and every 15 min during first 2 hours of infusion, every 30 min thereafter
Check body temperature every hour
Check fluid balance
- After** rituximab administration:
Check CBC with differential count and immunogram (peripheral CD20+ cells) every 2 month for at least 1 year or until normalization of B lymphocyte count.
Measure IgG level after 2 month, thereafter every 4 month for at least 1 year or until normalization of B-lymphocyte count.
Serum electrolytes
Renal function tests
Liver function tests
- PCP prophylaxis:** Apply **cotrimoxazole** prophylaxis of *Pneumocystis jirovecii* pneumonia for 4 months after rituximab administration.
- Dosing:** Children < 13 years: 150 mg TMP/m²/day + 750 mg SMX/m²/d p.o. in 3 divided doses every 8 hours at 3 days/week (e.g. Mo – Wed – Fri)
Adolescents > 13 years: 160 mg TMP + 800 mg SMX p.o. once daily 3 days/week (e.g. Mo – Wed – Fri)
Dose reduction in CKD:
GFR 15-30 ml/min/1.73 m²: 50%;
GFR < 15 ml/min/1.73 m²: Administration not recommended
(alternative prophylaxis: monthly pentamidine inhalations)