

Supplementary Table 4.Characteristics of patients in the RCTs

First author	Year	Study design	Intervention		PR/CR	Adverse Events	Notes
			T-Group	C-Group	Y/N	Y/N	
TAC vs CTX							
Chen	2010	MC/NB/no placebo/RCT	<p>TAC (the initial dosage was 0.1 mg/kg/d,q12h.Later doses were adjusted to achieve a whole-blood 12 hours trough level of 5-10 ng/mL in the first 6 months and 2-5 ng/mL in the next 3 months)</p> <p>Prednisone(1mg/kg/d for 4 weeks, tapered gradually, and discontinued by 8 months).</p>	<p>CTX (100 mg/d oral daily for 4 months. Dosage was reduced by 50 mg/d if the total white blood cell count fell below 4000/L)</p> <p>Prednisone (1mg/kg/d for 4 weeks, tapered gradually, and discontinued by 8 months).</p>	Y	Y	None
He	2013	SC/NB/no placebo/RCT	<p>TAC(initial dosage was 1 mg/d for 1 week. Later an alternative dosage of 1 mg one day and 2 mg the other was used. The dosage of 2 mg was divided into 2 equal doses at 12-hour intervals. Dosage was titrated according to a whole blood concentration, with a target of 2-4 ng/mL)</p> <p>Prednisone (1mg/kg/d for 4 weeks, 5 mg per 2 weeks down to a dosage of 30 mg/day).</p>	<p>CTX (dosage was 750 mg/m² body surface, intravenous once every 4 weeks for 24 weeks)</p> <p>Prednisone (1mg/kg/d for 4 weeks, by 5 mg per 2 weeks down to a dosage of 30 mg/day).</p>	Y	Y	None
Liang	2017	SC/NB/no placebo/RCT	<p>TAC (initial dosage was 0.05-0.1mg/kg/d,q12h. Later doses were adjusted to achieve a whole-blood 12 hours trough level of 5-10 ng/mL in the first 6 months and 2-5ng/mL in the next 3 months. Then, the dose was tapered gradually and discontinued at the end of 12 months)</p>	<p>CTX (dosage was 0.5–0.75 g/m² once every month for the initial 6 months and once in every 2–3 months for the later period)</p> <p>Prednisone (1mg/kg/d for 4 weeks, by 5 mg per 2 weeks down to a dosage of 30 mg/day).</p>	Y	Y	None
Peng	2016	SC/NB/no placebo/RCT	<p>Group A: TAC (initial dosage was 0.05</p>	<p>Group B: CTX(dosage was 0.75 g/m²</p>	Y	Y	None

			<p>mg/kg/d,q12h. Later doses were adjusted to achieve a whole-blood 12 hours trough level 4-8 ng/mL in the first 6 months and 2-4ng/mL in the next 3 months)</p> <p>Prednisone (0.5mg/kg/d for 8 weeks, then decreased by 5 mg per 2 weeks down to a dosage of 20 mg/day).</p>	<p>once every month for the initial 6 months and once in every 3 months for the later period)</p> <p>Prednisone(1 mg/kg/d for 8 weeks, decreased by 5 mg per 2 weeks down to a dosage of 20 mg/day).</p>			
			<p>Group C:</p> <p>MMF (1.5-2.0 g/d in two doses)</p> <p>Prednisone (1 mg/kg/d for 8 weeks, decreased by 5 mg per 2 weeks down to a dosage of 20 mg/day).</p>				
Ramachandran	2017	SC/NB/no placebo/RCT	<p>TAC (initial dosage was 0.1 mg/kg/d,q12h. Later doses were adjusted to achieve a whole-blood 12 hours trough level of 5-10 ng/mL in the first 6 months and 4-8 ng/mL in the next 6 months)</p> <p>Prednisone (0.5mg/kg/d for 6 months, then tapered and stopped).</p>	<p>Intravenous methylprednisolone 1 g/day in 100 mL normal saline was administered over 60 min on three consecutive days followed by oral prednisolone at 0.5 mg/kg per day for 27 days in the first, third, and fifth month and oral CTX at 2 mg/kg per day in the second, fourth, and sixth month</p>	Y	Y	All the patients were continued on a maximum tolerable dose of ACEI or ARBs and statins
Xu	2013	SC/NB/no placebo/RCT	<p>TAC (initial dosage was 0.1 mg/kg/d,q12h. Later doses was in accordance to the measured serum concentration)</p> <p>Prednisone (initial dose was 0.5mg/kg/d , then tapered and stopped).</p>	<p>CTX(dosage was 0.5-0.75 g/m² once every month for the initial 6 months and once every 3 months for the later period)</p> <p>Prednisone (initial dose was 1mg/kg/d, then tapered and stopped).</p>	Y	Y	None
TAC vs Control							
Praga	2007	SC/NB/no placebo/RCT	<p>TAC (initial dosage was 0.05mg/kg/d,q12h. Later doses were adjusted to achieve a whole-blood 12 hours trough level 3-5 ng/mL)</p>	<p>Renin-angiotensin blockers, statins, low-salt and low-protein diet</p>	Y	Y	All the patients were instructed to maintain the same doses of ACEI or ARB that

							they were taking at randomization until the end of the study
TAC vs CsA							
Li	2017	SC/NB/no placebo/RCT	<p>TAC (initial dosage was 0.05-0.1 mg/kg/d,q12h. Later doses were adjusted to achieve a whole-blood 12 hours trough level 5-10 ng/mL)</p> <p>Prednisone (initial dosage was 0.5 mg/ kg/d. Then the dosage was tapered slowly by 5 mg per month down to a dosage of 10 mg/d and maintained that dosage throughout the remainder of the 6-month therapy period).</p>	<p>CsA (initial dose was 3-5 mg/kg, and the dosage was adjusted to maintain a 100-200 ng/mL trough blood level)</p> <p>Prednisone (initial dosage was 0.5 mg/ kg/d. Then the dosage was tapered slowly by 5 mg per month down to a dosage of 10 mg/d and maintained that dosage throughout the remainder of the 6-month therapy period).</p>	Y	Y	None
MMF vs Control							
Dussol	2008	MC/NB/no placebo/RCT	<p>MMF (initial dose was 250 mg/d, progressively increased by 250 mg every other day to 2g/d)</p>	<p>Renin-angiotensin blockers, statins, low-salt and low-protein diet, and diuretics in case of edema</p>	Y	Y	The supportive treatment was also used in the MMF group
MMF vs CTX							
Senthil	2008	SC/NB/no placebo/RCT	<p>MMF (2.0 g/d in two doses)</p> <p>Prednisone (0.5 mg/kg/d for 8-12 weeks,).</p>	<p>Intravenous methylprednisolone 1 g/day in 100 mL for three consecutive days followed by oral prednisolone at 0.5 mg/kg per day for 27 days alternating with oral CTX at 2 mg/kg for 30 days</p>	Y	Y	FSGS patients were also included in this study, so the baseline of the two groups were unclear
Fu	2012	SC/NB/no	MMF (The initial dose was	CTX (The dose was 1g once	Y	Y	Langue is

		placebo/RCT	2g/day, then reduced to 1.5g/day after 6 months, 1.0g/day after 18 months, 0.5d/day after 30 months, until the drug is gradually stopped.) Prednisone (The initial dose was 1 mg/kg/day once in the morning. After 6-8 weeks, the dose was reduced by 5 mg per week until to 10-20 mg/day.)	a month. After 6 months of continuous use, it was changed to 1g every 3 months, then stopped after 4-6 times of use.) Prednisone (The initial dose was 1 mg/kg/day once in the morning. After 6-8 weeks, the dose was reduced by 5 mg per week until to 10-20 mg/day.)			Chinese
Hayati	2019	SC/DB/no placebo/RCT	MMF (2 g/d in 2 divided doses for 6 months) Prednisolone (0.5 mg/kg/d for 2 to 3 months)	A course of alternate months of steroid in the first, third and fifth months and CTX at 1.5 to 2 mg/kg/d in the second, fourth, and sixth months. The steroid months were began with pulse methylprednisolone , 1 g intravenously daily for 3 consecutive days, without oral prednisone and then followed by oral prednisolone at 0.5 mg/kg/d for 27 days.	Y	N	The dose of MMF was decreased to 1.5 or 1 g/d in three or two divided doses among patients with gastrointestinal symptoms
MMF vs Chlorambucil							
Chan	2007	SC/NB/no placebo/RCT	MMF (2.0 g/d in two doses for 6 months) Prednisolone was started at 0.8 mg/kg per day p.o., then tapered by 5 mg/day every fortnight until reaching 10 mg/day at around 4 months, then tapered by 2.5 mg/day every fortnight, until total withdrawal at around 6 months from baseline.	Methylprednisolone i.v. 1 g daily for 3 days, followed by prednisolone 0.4 mg/kg per day p.o. for 3 weeks, then 0.2 mg/kg per day till the end of the month. Alternating with chlorambucil at 0.2 mg/kg per day for 1 month, for a total duration of 6 months	Y	Y	The general characteristics of each group was unclear

MMF vs CsA							
Choi	2018	MC/NB/no placebo/RCT	MMF (0.5 g twice daily in patients weighing less than 50 kg, or 0.75-1.0g twice daily in patients weighing more than 50 kg) Prednisolone (0.15 mg/kg up to a maximum dose of 15 mg/day)	CsA (initial dose was 4 mg/kg and the dosage was adjusted to maintain a 100 ± 50 ng/mL trough blood level) Prednisolone (0.15 mg/kg up to a maximum dose of 15 mg/day)	Y	Y	None
CsA vs Steroids							
Cattran	2001	MC/SB/PC/RCT	CsA (initial dose was 3.5 mg/kg and the dosage was adjusted to maintain a 125-225 ug/L trough blood level) Prednisolone (0.15 mg/kg up to a maximum dose of 15 mg/day. Dosage was reduced after 26 weeks by thirds at 4-week intervals and was stopped after 8 weeks)	Placebo (dosage was 0.035ml /kg/day) Prednisolone (0.15 mg/kg up to a maximum dose of 15 mg/day. Dosage was reduced after 26 weeks by thirds at 4-week intervals and was stopped after 8 weeks)	Y	Y	All included patients were steroid-resistant
CsA vs CTX vs Control							
Kosmadakis	2010	SC/NB/no placebo/RCT	Cyclosporine (3-3.5 mg/kg/day oral) Methylprednisolone (12.5 mg/day oral)	Cyclophosphamide (2 mg/kg/24 hour oral) Methylprednisolone (1.5 mg/kg/48 hour oral)	Y	Y	ACEIs and angiotensin receptor blockers were not prescribed to the other two patients
			Angiotensin-converting enzyme inhibitor (ACEI) Lisinopril				
CsA vs Control							
Cattran	1995	SC/SB/PC/RCT	CsA (initial dose was 3.5 mg/kg and the dosage was adjusted to maintain a 110-170 ug/L trough blood level)	Placebo (dosage was 0.035ml /kg/day)	Y	Y	None
CTX vs Control							
Donadio	1974	SC/NB/no placebo/RCT	CTX (1.5 to 2.5 mg/kg/day by oral administration)	No drug	Y	Y	None
Jha	2007	SC/NB/no placebo/RCT	CTX (2mg/kg/day by oral administration in the second,	Supportive therapy (dietary sodium restriction, diuretics,	Y	Y	ACEI /ARB were

			fourth, and sixth months); Intravenous methylprednisolone 1 g/d for 3 consecutive days followed by oral prednisolone 0.5mg/kg per d for 27 d in the first, third, and fifth months	and antihypertensive agents)			withheld for at least 1 yr in both groups.
Murphy	1992	SC/NB/no placebo/RCT	CTX (1.5mg/kg/day by oral administration for six months)	Supportive therapy (dietary sodium restriction, diuretics, and antihypertensive agents)	Y	N	Dipyridam ole and warfarin were used in both groups

CTX vs Chlorambucil

Branten	1998	SC/NB/no placebo/RCT	Methylprednisolone i.v. 1 g daily for 3 days, followed by prednisolone 0.5 mg/kg per day p.o. for 27 days Chlorambucil 0.15 mg/kg per day by oral administration for 1 month, for a total duration of 6 months	CTX (1.5-2.0mg/kg/day by oral administration for one year) Prednisone 60 mg/day or 125 mg every other day by oral administration for at least 8 weeks	Y	Y	None
Ponticeli	1998	MC/NB/no placebo/RCT	Three cycles of treatment with methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4 mg/kg body weight per day given orally for 27 days), each cycle was followed by 1 month of treatment with CTX (2.5 mg/kg per day, orally)	Three cycles of treatment with methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4 mg/kg body weight per day given orally for 27 days), each cycle was followed by 1 month of treatment with chlorambucil (0.2 mg/kg per day, orally)	Y	Y	None
Reichert	1994	SC/NB/no placebo/RCT	Intravenous CTX (750 mg/m ² body surface area once every month for 6 months) Methylprednisolone (three intravenous 1 g pulses in months 1, 3, and 5).	Chlorambucil (0.15 mg/kg body weight per day orally in months 2, 4, and 6) Prednisone (three intravenous pulses of 1 g of methylprednisolone followed by oral prednisone at 0.5 mg/kg per day in months 1, 3, and 5)	Y	Y	The patients with serum creatinine levels lower than 150 mmol/L were excluded.

Steroids vs Control

Cameron	1990	SC/SB/PC/RCT	Prednisone (125 mg every other day by oral administration for at least 8 weeks, if patients who weighed more than 80 kg, the dosage was 150 mg)	Placebo	Y	Y	None
Cattran	1989	SC/NB/no placebo/RCT	Prednisone (45 mg per square meter of body-surface area in a single dose on alternate days for six months)	No specific treatment	Y	Y	None
Coggins	1979	SC/DB/PC/RCT	Prednisone (Subjects weighing 45 to 80 kg received 125mg, given as a single dose every other morning. Those weighing less received 100mg and those weighing more, 150mg)	Placebo	Y	Y	None

Chlorambucil vs Steroids

Ponticeli	1992	MC/NB/no placebo/RCT	Three cycles of treatment with methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4mg/kg body weight per day given orally for 27 days), each cycle was followed by 1 month of treatment with chlorambucil (0.2 mg/kg per day,orally)	Methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4mg/kg body weight per day given orally)	Y	Y	None
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Chlorambucil vs Control

Ponticeli	1995	SC/NB/no placebo/RCT	Three cycles of treatment with methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4mg/kg body weight per day given orally for 27 days), each cycle was followed by 1 month of treatment with chlorambucil (0.2 mg/kg per day,orally)	Symptomatic therapy	Y	Y	None
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Ponticeli	1984	SC/NB/no placebo/RCT	Three cycles of treatment with methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4mg/kg body weight per day given orally for 27 days), each cycle was followed by 1 month of treatment with chlorambucil (0.2 mg/kg per day, orally)	Supportive therapy (dietary sodium restriction, diuretics, and antihypertensive agents)	Y	Y	None
Ponticeli	1983	MC/NB/no placebo/RCT	Three cycles of treatment with methylprednisolone (1 g given intravenously on 3 consecutive days then 0.4mg/kg body weight per day given orally for 27 days), each cycle was followed by 1 month of treatment with chlorambucil (0.2 mg/kg per day, orally)	Supportive therapy	Y	N	None

Rituximab vs Control

Dahan	2016	MC/NB/no placebo/RCT	Rituximab (Dosage was 375 mg/m ² by intravenous administration on days 1 and 8 after randomization) NIAT (angiotensin–converting enzyme inhibitors and/or angiotensin 2 receptor blockers, diuretics, and statin)	NIAT (angiotensin–converting enzyme inhibitors and/or angiotensin 2 receptor blockers, diuretics, and statin)	Y	Y	None
Fervenza	2019	MC/NB/no placebo/RCT	Rituximab (Dosage was 100 mg by intravenous administration on days 1 and 15 after randomization)	CsA (initial dose was 3.5 mg/kg, divided into two equal doses given at 12-hour intervals. The dosage was adjusted to maintain a 125-175ug/L trough blood level)	Y	Y	None

Rituximab vs CTX

Fernández -Juárez G	2019	MC/NB/no placebo/RCT	Patients received oral TAC (0.05 mg/Kg/day), to reach target blood levels of	Patients received methylprednisolone at months 1, 3 and 5 (1 g	Y	Y	Treatment group is TAC-rituxi
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			5–7 ng/mL, for six months. At day 180, patients received intravenous rituximab (1 g) and TAC dosage was reduced by 25% per month, with complete withdrawal at the end of month 9	intravenously at days 1, 2, 3, then 0.5 mg/Kg/day orally from day 4 to 30). At months 2, 4 and 6, patients received oral CTX adjusted for age and renal function (1.0–2.0 mg/Kg/day for 30 days)			mab
Scolari	2021	MC/NB/no placebo/RCT	Patients received rituximab at a dose of 1 g on days 1 and 15, without concomitant or subsequent drug therapies. Methylprednisolone (2 mg/kg infused in 30 intravenous diluted in 100 mL of normal saline)	The first month of each 2-month cycle (months 1, 3 and 5) began with a 1 g pulse of iv. Methylprednisolone , repeated daily for three consecutive days followed by oral methylprednisolone (0.4 mg/kg/day) or prednisone (0.5 mg/kg/day) for the remaining days of that month. In the second month of each 2-month cycle (months 2, 4 and 6), the steroid was stopped and oral CTX (2.0 mg/kg/day) was given daily for that month.	Y	Y	None

**Note: MC: Multi centre, SC: Single centre, DB: Double blinded, SB: Single blinded, NB: Non-blinded, PC: Placebo controlled, RCT: Randomized controlled trial.*