



UMC Utrecht

Nieuwe behandelingen voor systemische lupus erythematodes (SLE)

Dr. Maarten Limper, internist – klinisch immunoloog

Opleider klinische immunologie

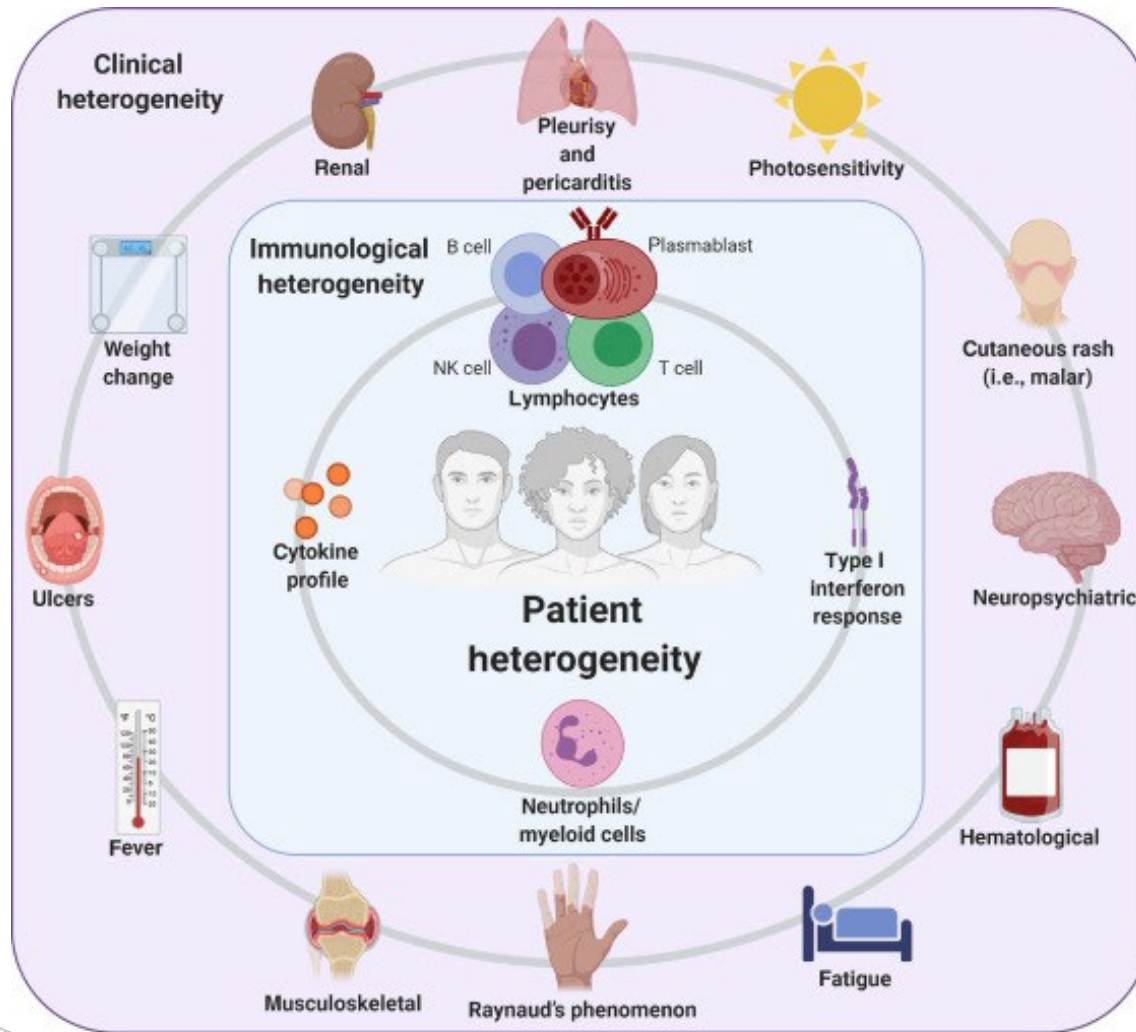
Afdeling Reumatologie en Klinische Immunologie, UMC Utrecht

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Mei 2023



University Medical Center Utrecht



Trends in Molecular Medicine



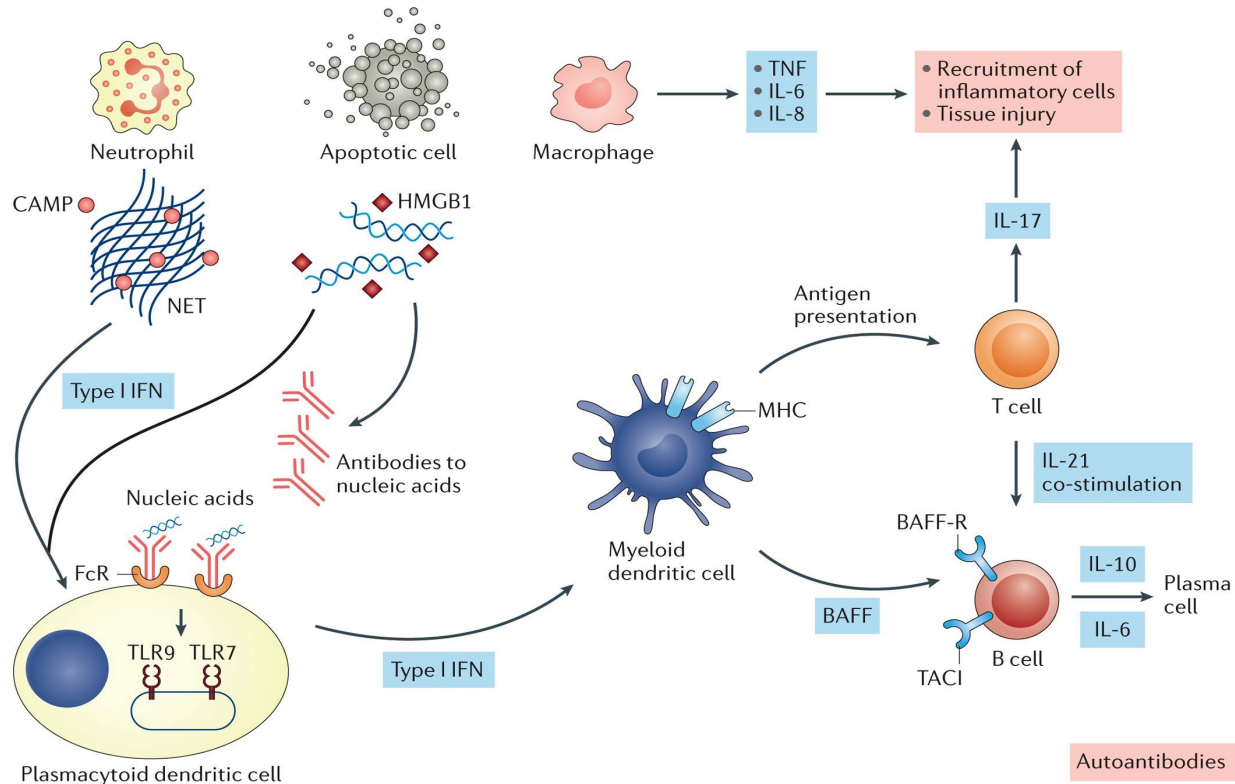
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European
Reference
Network

Connective Tissue and Musculoskeletal
Diseases (ERN ReCONNECT)

Ontstaan SLE



Tsokos, G. C. *et al.* (2016) New insights into the immunopathogenesis of systemic lupus erythematosus
Nat. Rev. Rheumatol. doi:10.1038/nrrheum.2016.186

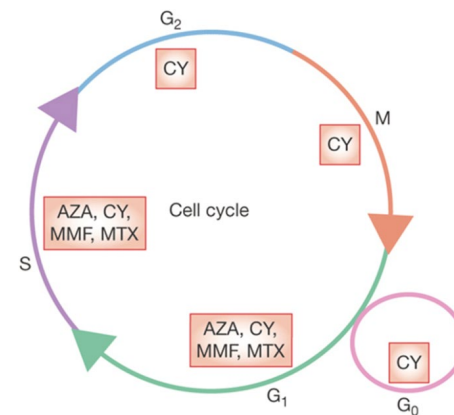
Nature Reviews | Rheumatology



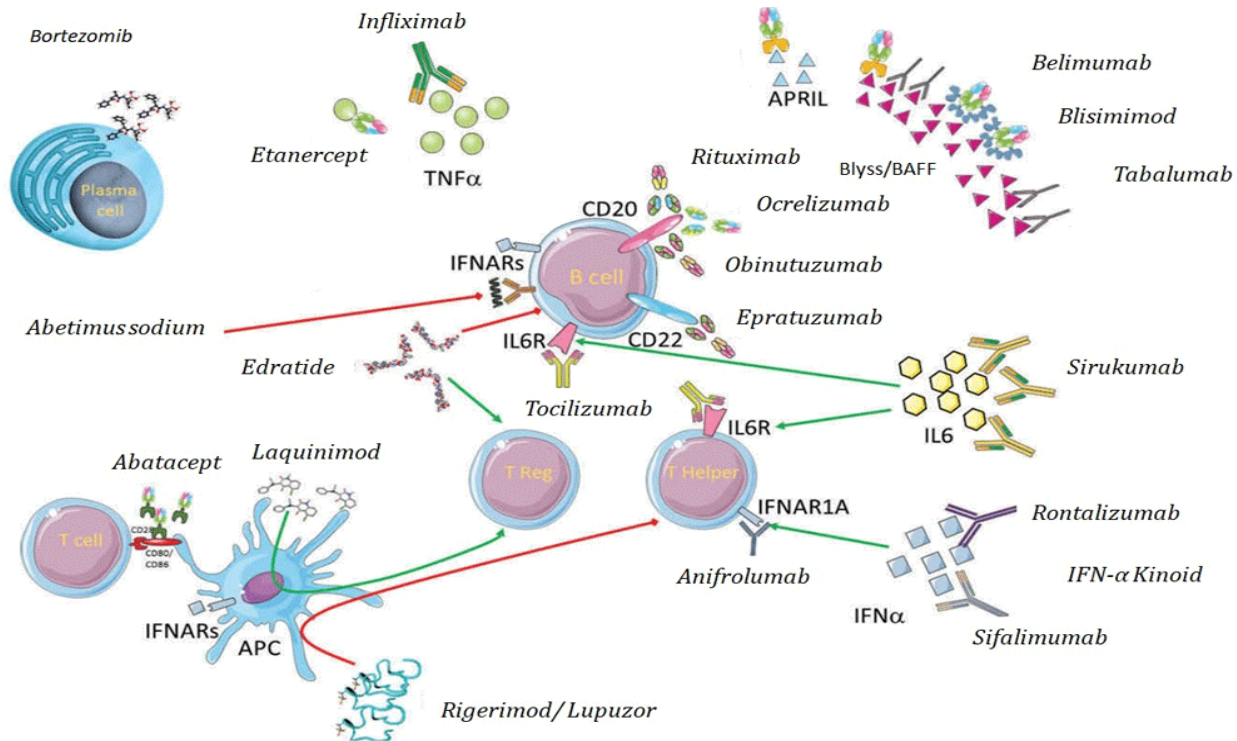
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SLE: behandeling (DMARDs)

- Vermijd zonlicht; UV-blockers
- Glucocorticoiden: prednison, dexamethason
- Hydroxychloroquine (plaquenil)
- Azathioprine (imuran)
- Methotrexaat
- Cyclofosfamide
- Mycofenolaat mofetil (cellcept)



Immunotherapie



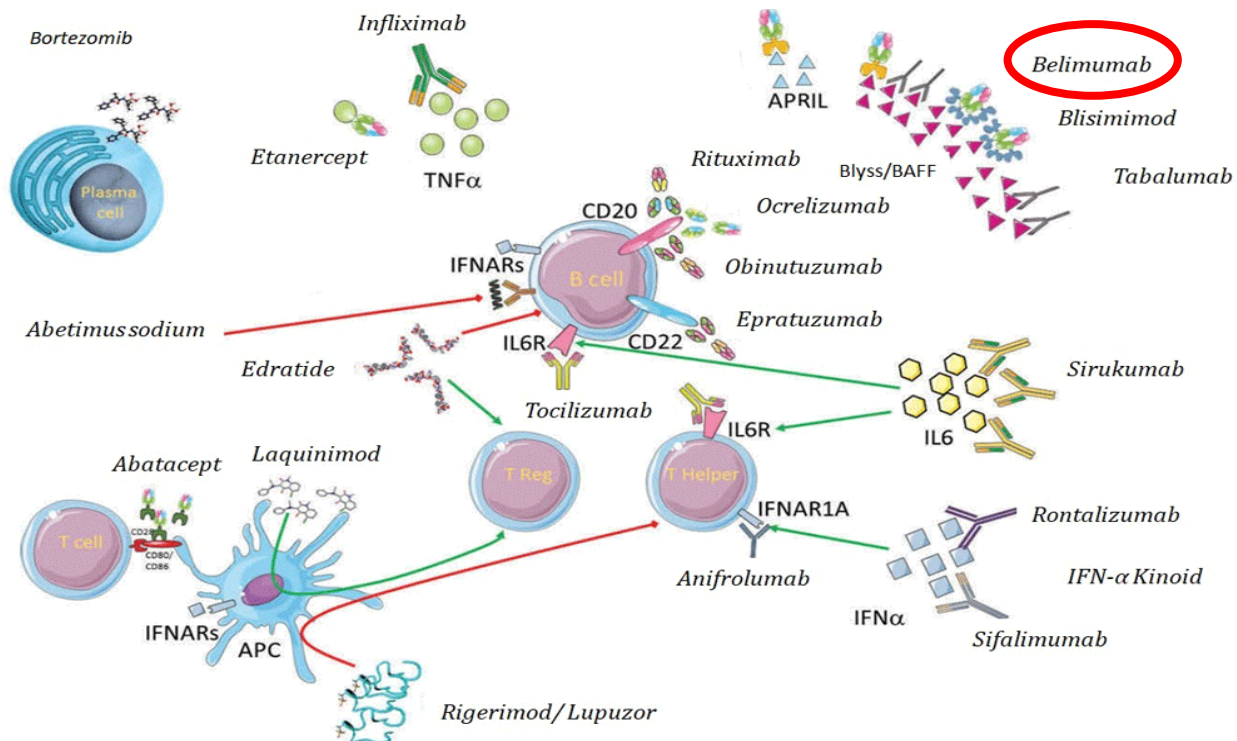
Sciascia S, Radin M, Roccatello D et al. Recent advances in the management of systemic lupus erythematosus. *F1000Research* 2018, 7:970 (doi: 10.12688/f1000research.13941.1)

Nieuwe medicijnen

- belimumab
- anifrolumab
- voclosporin



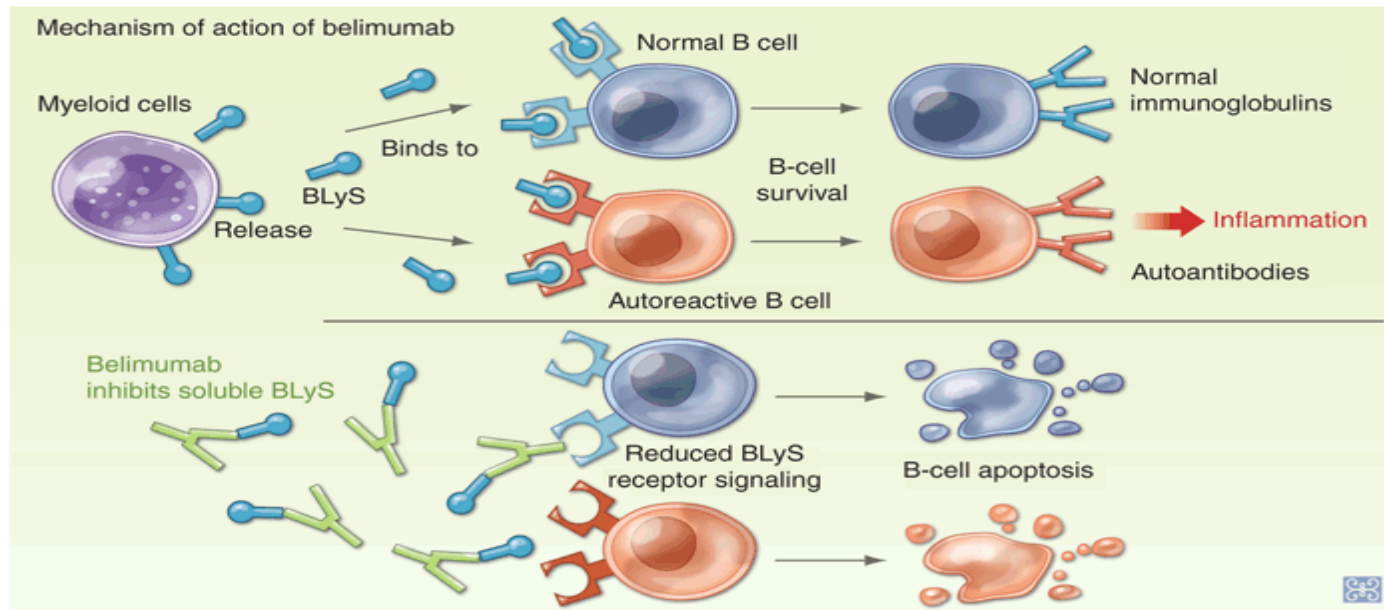
Immunotherapie



Sciascia S, Radin M, Roccatello D et al. Recent advances in the management of systemic lupus erythematosus. *F1000Research* 2018, 7:970 (doi: 10.12688/f1000research.13941.1)

Belimumab: werkingsmechanisme

I.v. of s.c.; EMA-goedgekeurd 2011, actieve SLE met SLEDAI > 6



Does addition of belimumab to standard therapy improve kidney outcomes in lupus nephritis?



Methods and Cohort		Intervention	Partial Renal response	Complete Renal Response
Multicentre, double-blind RCT, n=448 		Placebo versus Belimumab Study duration = 104 weeks	32%	20%
Lupus Nephritis Class III to V	GFR >30 ml/min/1.73 m ²		OR 1.6 95% CI 1.0 to 2.3 p = 0.03	OR 1.7 95% CI 1.1 to 2.7 p = 0.02
Mean age 33.4±10.6 yrs Females: 88%	50% Asian 30% White 14% Black		43%	30%

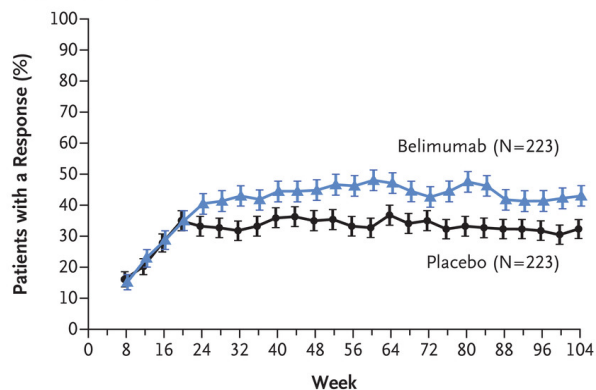
Conclusions: In active lupus nephritis, more patients who received belimumab plus standard therapy had a primary efficacy renal response than those who received standard therapy alone

Reference: Furie R, Rovin BH et al. Two-Year, Randomized, Controlled Trial of Belimumab in Lupus Nephritis. NEJM, 2020

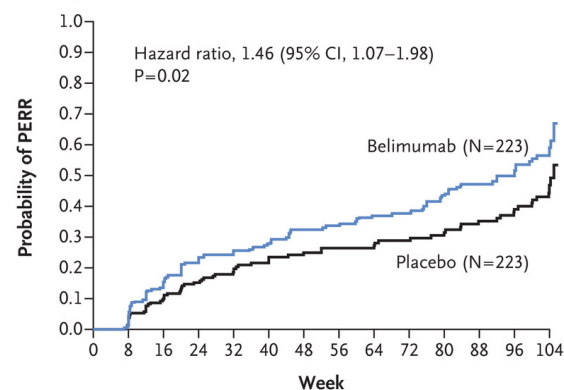
VA by Swasti Chaturvedi @SwastiThinks

<http://www.nephjc.com/news/2020/11/24/visual-abstract-for-bliss>

A PERR over Time



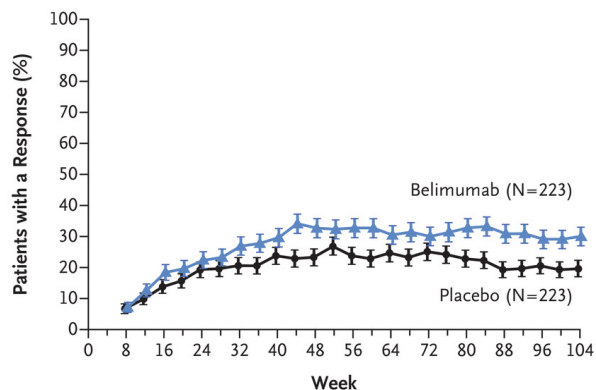
B Probability of PERR



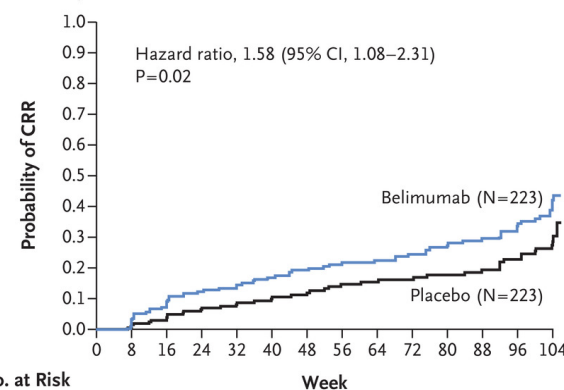
No. at Risk

Belimumab	211	170	150	128	117	106	102	91	81	72	61	55	33
Placebo	207	182	165	135	120	107	97	93	84	78	68	64	43

C CRR over Time



D Probability of CRR



No. at Risk

Belimumab	211	184	169	150	138	131	126	118	106	101	92	85	58
Placebo	209	196	183	156	143	132	120	115	108	102	95	90	62

N Engl J Med 2020; 383:1117-1128



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Event	Belimumab (N = 224)	Placebo (N = 224)
	<i>no. of patients (%)</i>	
All adverse events†	214 (96)	211 (94)
All treatment-related adverse events†	123 (55)	119 (53)
Upper respiratory tract infection	26 (12)	24 (11)
Urinary tract infection	15 (7)	13 (6)
Herpes zoster	13 (6)	10 (4)
Bronchitis	11 (5)	10 (4)
Nasopharyngitis	8 (4)	8 (4)
Headache	9 (4)	5 (2)
Nausea	8 (4)	5 (2)
Rash	6 (3)	5 (2)
All serious adverse events†	58 (26)	67 (30)
All treatment-related serious adverse events†	23 (10)	25 (11)
Most common treatment-related serious adverse events, according to system organ class, occurring in ≥1% of patients in either group		
Infections and infestations	15 (7)	18 (8)
Respiratory, thoracic, and mediastinal disorders	5 (2)	1 (<1)
Blood and lymphatic system disorders	3 (1)	2 (1)
Nervous system disorders	0	3 (1)
Most common treatment-related serious adverse events occurring in ≥1% of patients in either group		
Pneumonia	3 (1)	4 (2)
Herpes zoster	3 (1)	2 (1)
Adverse events resulting in discontinuation of trial drug	29 (13)	29 (13)
Adverse events of special interest‡		
Cancer		
Excluding nonmelanoma skin cancer§	2 (1)	0
Including nonmelanoma skin cancer§	3 (1)	0
Postinfusion reactions¶	26 (12)	29 (13)
All infections of special interest, including opportunistic infections, herpes zoster, tuberculosis, and sepsis	30 (13)	34 (15)
Serious infections	9 (4)	7 (3)
Depression, suicide, or self-injury	11 (5)	16 (7)
C-SSRS suicidal ideation or behavior during trial intervention	7 (3)	12 (5)
Death	6 (3)	5 (2)
Fatal serious adverse events that began during trial intervention	4 (2)	3 (1)
Fatal serious adverse events that did not begin during trial intervention	2 (1)	2 (1)

* Only adverse events that occurred during the intervention period (from the first infusion to the first missed infusion or the last infusion, whichever was later, plus 28 days) are listed. Patients were counted once in each row and column for any adverse event that met the criterion. Adverse events were coded with the use of the *Medical Dictionary for Regulatory Activities* (MedDRA), version 22.0.

† This category includes all patients who had at least one event. Relatedness of the intervention to the event was determined by the site investigators.

‡ These events were determined according to a custom MedDRA query.

§ This category includes tumors of unspecified cancer that were adjudicated as cancer.

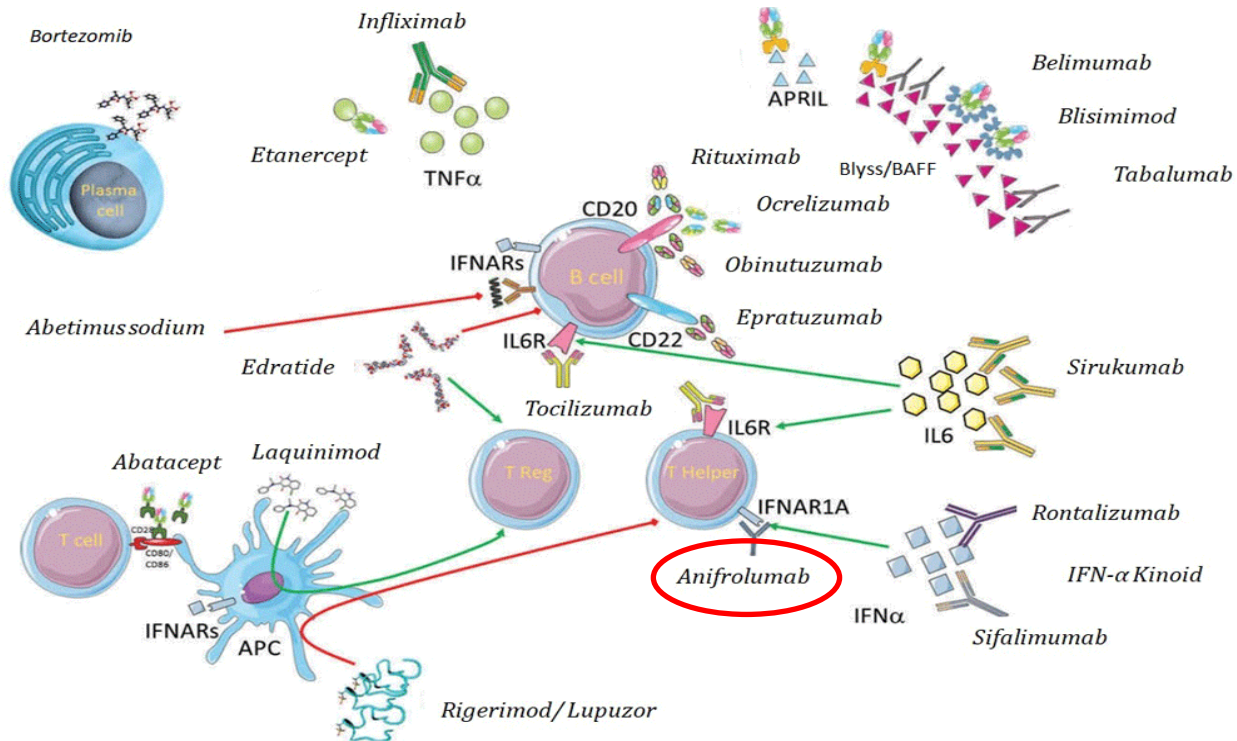
¶ These events were determined according to a custom MedDRA query or sponsor adjudication.



- © Sinds 2021 gereigstreerd als add-on behandeling lupus nefritis
- © Onderzoek naar combinatietherapie rituximab/belimumab bezig, phase 2-studies veelbelovend, fase 3-studie (BLISS-BELIEVE) negatieve resultaten
- © Mogelijk meer effectief bij zeer actieve SLE -> SYNBIOSE-2

1. Ann Intern Med doi:10.7326/M21-2078
2. Nephrol Dial Transplant. 2021;36(8):1474-83
3. ACR abstract L13 2021

Immunotherapie



Sciascia S, Radin M, Roccatello D et al. Recent advances in the management of systemic lupus erythematosus. *F1000Research* 2018, 7:970 (doi: 10.12688/f1000research.13941.1)

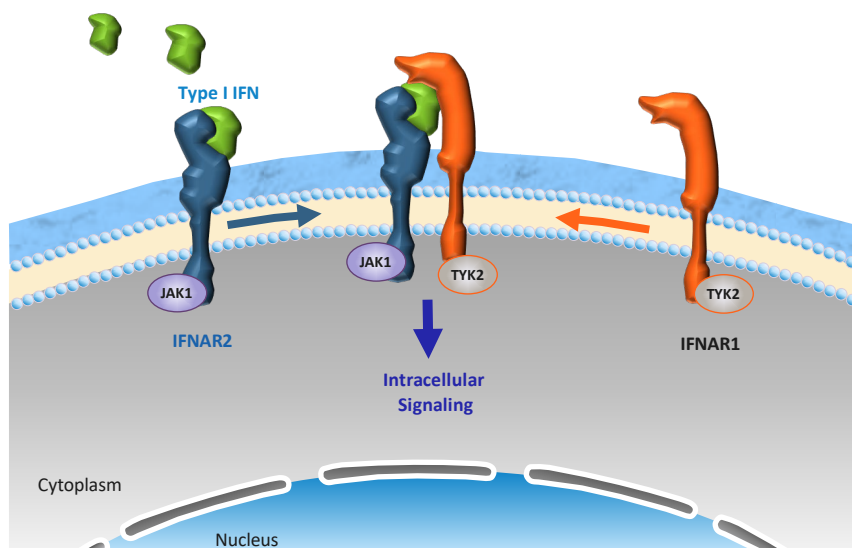
Anifrolumab

- © Humaan IgG-monoklonaal tegen IFN-receptor
- © Fase 2b-trial (MUSE)¹
- © Twee fase 3-trials (TULIP-1 en -2)^{2, 3}

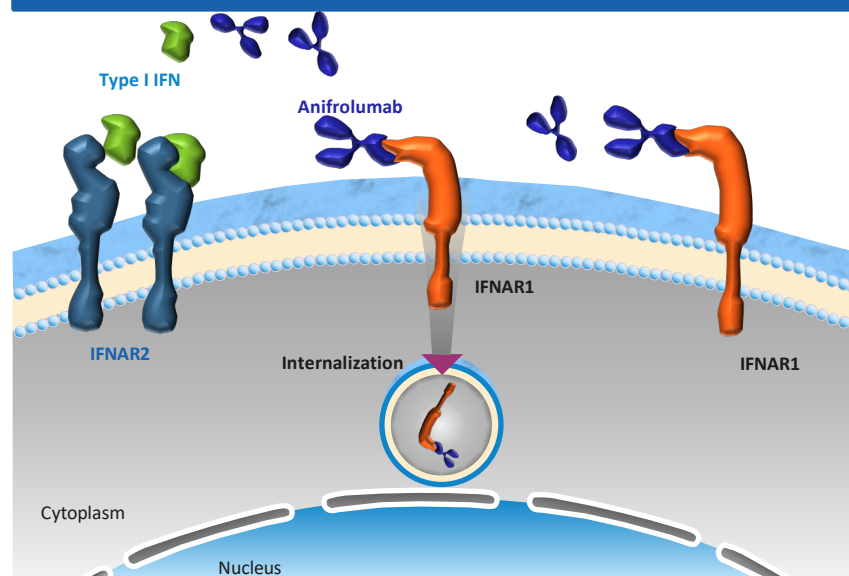
1. Arthritis Rheumatol. 2017 Feb; 69(2): 376–386
2. Furie RA, et al. *Lancet Rheumatol.* 2019;1:e208–19
3. Morand EF, et al. *N Engl J Med.* 2020;382:211–21

Anifrolumab

Type I IFN binds to IFNAR causing dimerization resulting in intracellular signaling¹



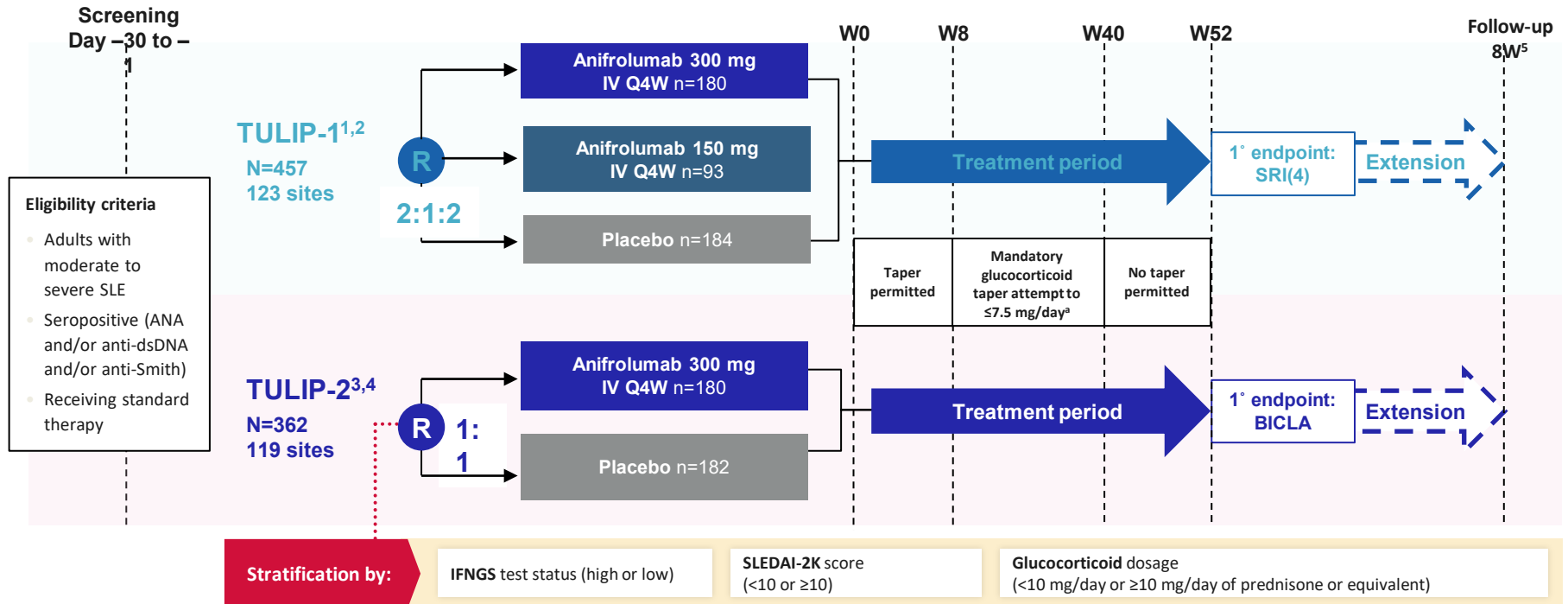
Anifrolumab binds to the Type I IFN Receptor and blocks receptor dimerization and induces receptor internalization¹



IFN = interferon; IFNAR = IFN- α receptor; JAK = janus kinase; TYK = tyrosine kinase.

1. Riggs JM et al. *Lupus Sci Med*. 2018;5(1):e000261. 2. Ivashkiv LB, Donlin LT. *Nat Rev Immunol*. 2014;14(1):36-49.

TULIP-1 and -2



ANA, antinuclear antibody; anti-dsDNA, anti-double-stranded DNA; BICLA, British Isles Lupus Assessment Group-based Composite Lupus Assessment; IFNGS, interferon gene signature; IV, intravenous; LTE, long-term extension; Q4W, every 4 weeks; R, randomization; SLE, systemic lupus erythematosus; SLEDAI-2K, SLE Disease Activity Index 2000; SRI(4), SLE Responder Index of 4; W, week.

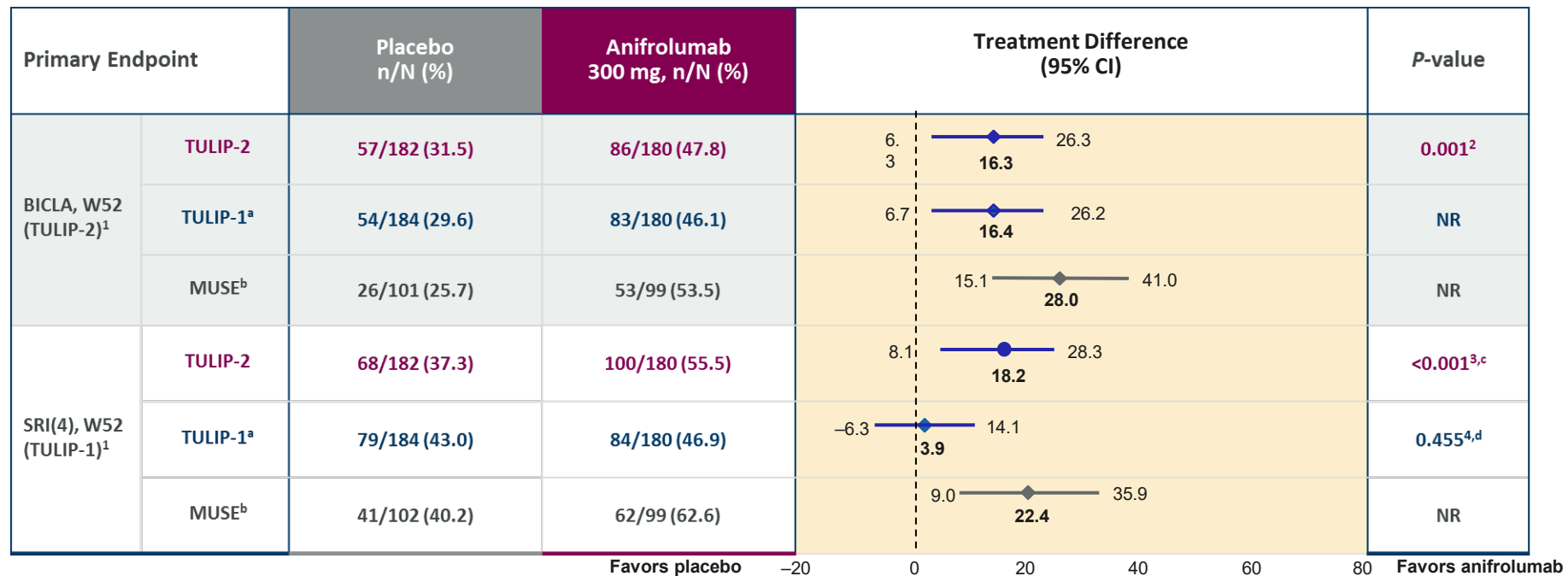
^aFor patients with baseline glucocorticoid dosage ≥10 mg/day prednisone or equivalent.

1. Furie RA, et al. Supplementary Appendix. *Lancet Rheumatol.* 2019;1:e208–19. 2. Furie RA, et al. *Lancet Rheumatol.* 2019;1:e208–19.

3. Morand EF, et al. *N Engl J Med.* 2020;382:211–21. 4. Morand EF, et al. Supplementary Appendix. *N Engl J Med.* 2020;382:211–21.

5. Morand EF, et al. Poster 1828 presented at: American College of Rheumatology All-Virtual Annual Meeting; November 5–9, 2020.

Primaire eindpunten



BICLA, BILAG-based Combined Lupus Assessment; BILAG-2004, British Isles Lupus Assessment Group-2004; CI, confidence interval; NR, not reported; NSAID, nonsteroidal anti-inflammatory drug; SRI(4), Systemic Lupus Erythematosus Responder Index of 4; W, Week.

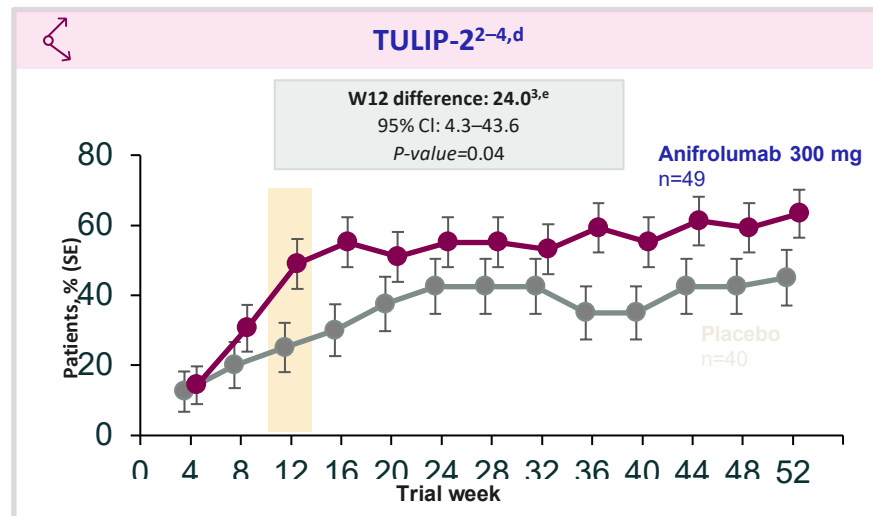
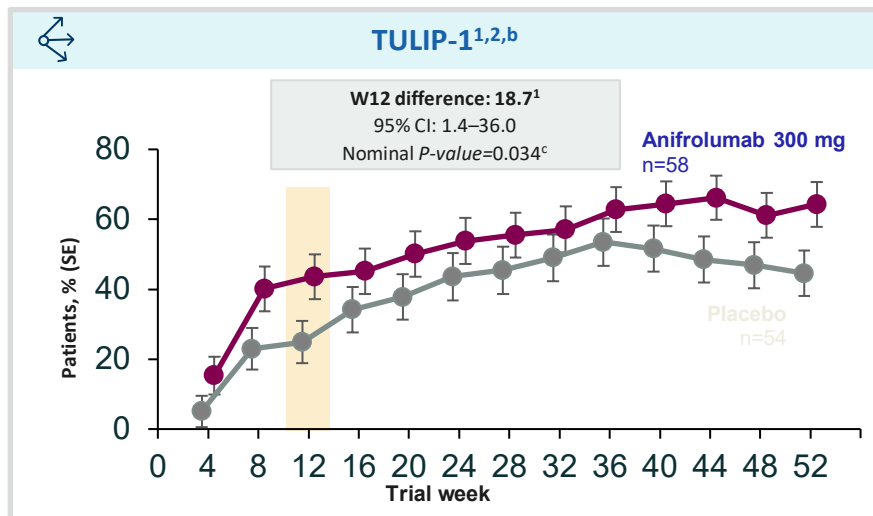
Analytic methods and definitions differ across trials.

^aValue after the restricted medication rules were amended to correct for inappropriately classified NSAID use; ^bThe primary publication of MUSE⁵ expressed these data as odds ratios rather than CIs; ^cNominal P-value that is not multiplicity adjusted; ^dThe primary outcome in TULIP-1 was not significant per the prespecified analysis plan, so all other comparisons were considered nonsignificant.

1. Tanaka Y, Tummala R. *Mod Rheumatol*. 2020;1-12;doi:10.1080/14397595.2020.1812201. 2. Morand EF, et al. *N Engl J Med*. 2020;382:211-21. 3. Morand EF, et al. Supplementary Appendix. *N Engl J Med*. 2020;382:211-21. 4. Furie RA, et al. *Lancet Rheumatol*. 2019;1:e208-19. 5. Furie R, et al. *Arthritis Rheumatol*. 2017;69:376-86.

CLASI-respons

Proportion of Patients With a $\geq 50\%$ Reduction in CLASI Activity Score^a



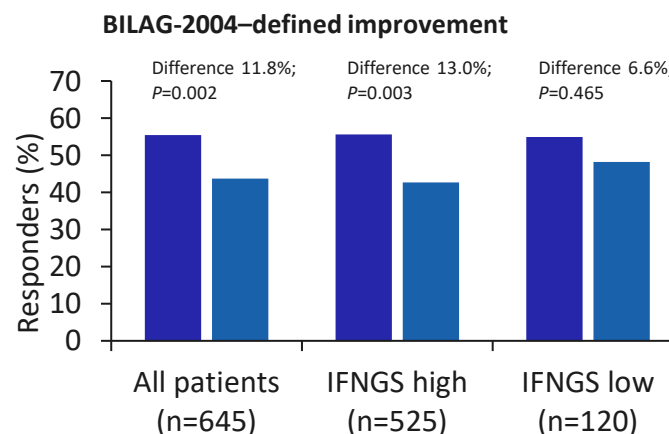
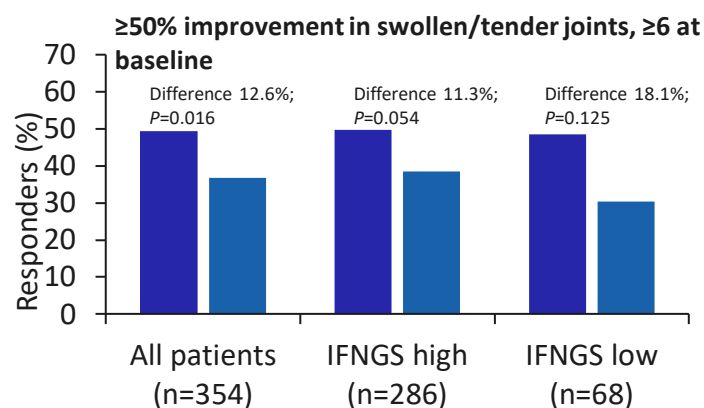
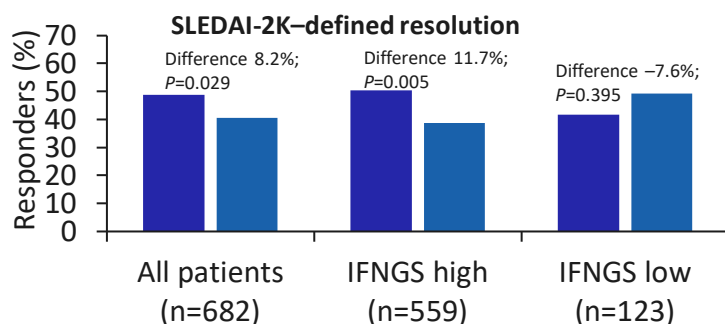
CI, confidence interval; CLASI, Cutaneous Lupus Erythematosus Disease Area and Severity Index; NSAID, nonsteroidal anti-inflammatory; SE, standard error; W, week.

^aAmong patients with at least moderately active skin disease (CLASI activity score ≥ 10) at baseline; ^bRestricted medication rules were amended to correct for inappropriately classified NSAID use; ^cAs the primary outcome was not significant per the prespecified analysis plan, all other comparisons were considered nonsignificant; ^dAmended restricted medication rules from TULIP-1 were applied before study unblinding; ^eThe differences between the two groups and the associated 95% CIs were adjusted for the factors which randomization was stratified using the stratified Cochran–Mantel–Haenszel method. *P*-values were adjusted with the use of a weighted Holm procedure.

1. Furie RA, et al. *Lancet Rheumatol*. 2019;1:e208–19. 2. AstraZeneca Data on File. 3. Morand EF, et al. Supplementary Appendix. *N Engl J Med*. 2020;382:211–21.

3. Tanaka Y, Tummala R. *Mod Rheumatol*. 2020;1–12;doi:10.1080/14397595.2020.1812201.

Effect anifrolumab op gewrichten



■ Anifrolumab 300 mg

■ Placebo

BILAG-2004, British Isles Lupus Assessment Group-2004; IFNGS, interferon gene signature; SLEDAI-2K, Systemic Lupus Erythematosus Disease Activity Index 2000.

Data pooled from TULIP-1 and TULIP-2 trials.

Resolution defined as SLEDAI-2K arthritis component score of 0 in patients with SLEDAI-2K arthritis component score of ≥4 at baseline; improvement defined as BILAG-2004 arthritis, musculoskeletal baseline score A change to B, C, or D, or baseline B change to C or D. All P-values are nominal.

Merril JT, Werth VP, Furie RA et al. Anifrolumab Effects on Rash and Arthritis in Patients With SLE and Impact of Interferon Signal in Pooled Data From Phase 3 Trials. Oral presentation at EULAR 2021

Table 1 AEs in patients during treatment in pooled MUSE, TULIP-1 and TULIP-2 data

	Anifrolumab 300 mg (n=459)		Placebo (n=466)		EAIR risk difference (anifrolumab 300 mg – placebo) (95% CI)
	n (%)	EAIR	n (%)	EAIR	
Any AE*	399 (86.9)	290.1	370 (79.4)	225.2	NR
SAE	54 (11.8)	13.6	78 (16.7)	20.7	–7.2 (–12.5 to –1.9)
Death	2 (0.4)	0.5	0	0	0.5 (–0.5 to 1.7)
DAE	19 (4.1)	4.5	24 (5.2)	6.0	–1.4 (–4.7 to 1.7)
AESI†‡	61 (13.3)	15.5	47 (10.1)	12.2	3.3 (–1.5 to 8.2)
Non-opportunistic serious infections	22 (4.8)	5.4	26 (5.6)	6.6	–1.3 (–4.7 to 2.1)
Opportunistic infections	1 (0.2)	0.2	1 (0.2)	0.2	–0.0 (–1.2 to 1.1)
Anaphylaxis	0	0	0	0	0
Malignancy	3 (0.7)	0.7	3 (0.6)	0.7	–0.0 (–1.5 to 1.4)
Herpes zoster	28 (6.1)	6.9	6 (1.3)	1.5	5.4 (2.8 to 8.4)
Active TB	0	0	0	0	0
Latent TB§	4 (0.9)	1.0	1 (0.2)	0.2	0.7 (–0.5 to 2.2)
Influenza	12 (2.6)	2.9	9 (1.9)	2.3	0.6 (–1.7 to 3.0)
Non-SLE-related vasculitis	0	0	2 (0.4)	0.5	–0.5 (–1.8 to 0.4)
Major adverse cardiovascular event	1 (0.2)	0.2	3 (0.6)	0.7	–0.5 (–2.0 to 0.7)

EAIR was reported per 100 patient-years and calculated as the number of patients with an event/[sum of time at risk in days/(365.25×100)].

*AEs were coded by MedDRA V.22.1. An AE during intervention period was defined as an AE with a date of onset on or after the day of the first dose of anifrolumab or placebo and on or before the day of the last dose of anifrolumab or placebo plus 28 days.

†AESIs differed from the individual MUSE and TULIP trials and were identified using standardised MedDRA queries and custom preferred term groupings.

‡Hypersensitivity was included as an AESI in MUSE but not in the TULIP trials and is not included in this table.

§Patients with latent TB (not active TB) were interferon gamma release assay positive without radiographic or clinical manifestations of active TB.

AE, adverse event; AESI, AE of special interest; DAE, AE leading to discontinuation of investigational product; EAIR, exposure-adjusted incidence rate; MedDRA, Medical Dictionary for Regulatory Activities; NR, not reported; SAE, serious AE; TB, tuberculosis.

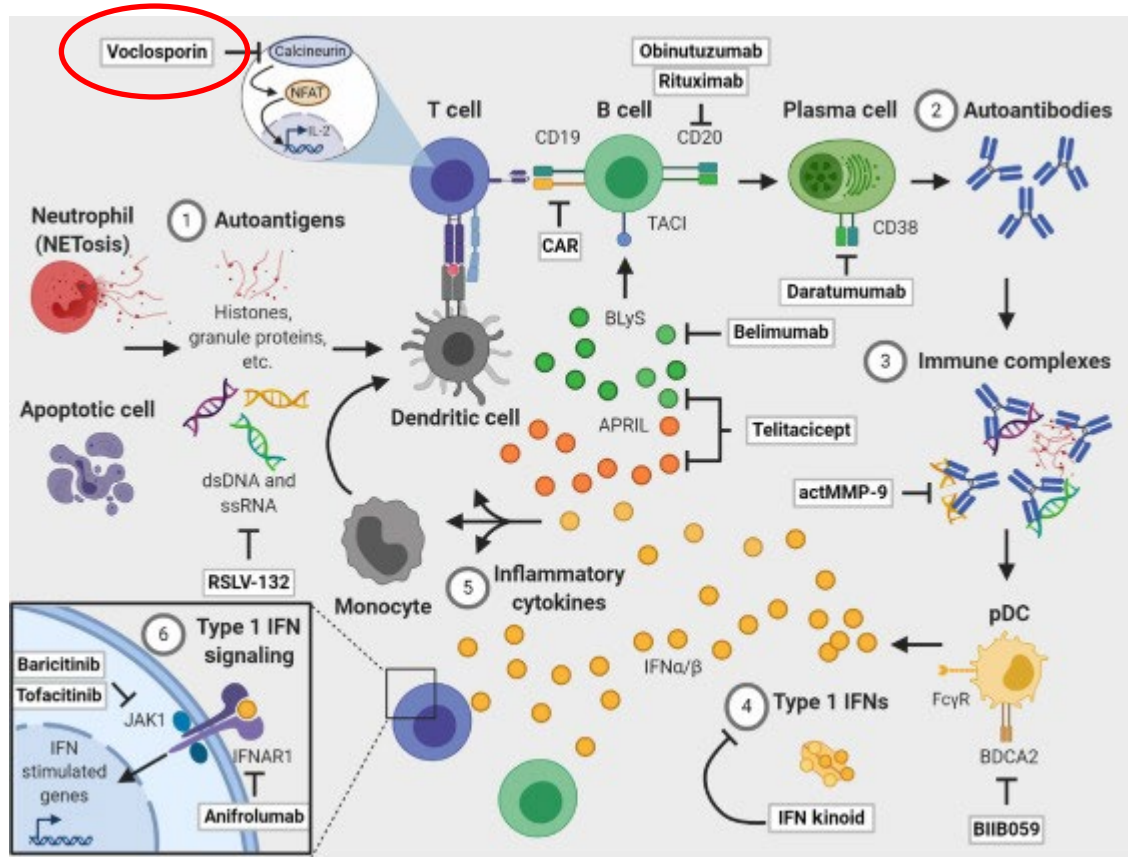


Anifrolumab

EMA-goedgekeurd 2022

Studies naar lupus-nefritis bezig

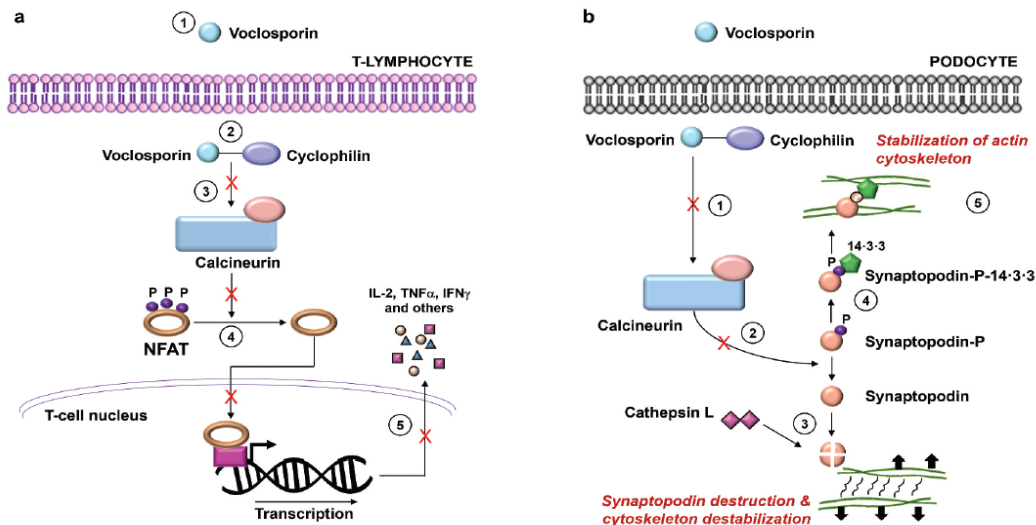
Voclosporin



Trends in Molecular Medicine

Voclosporin

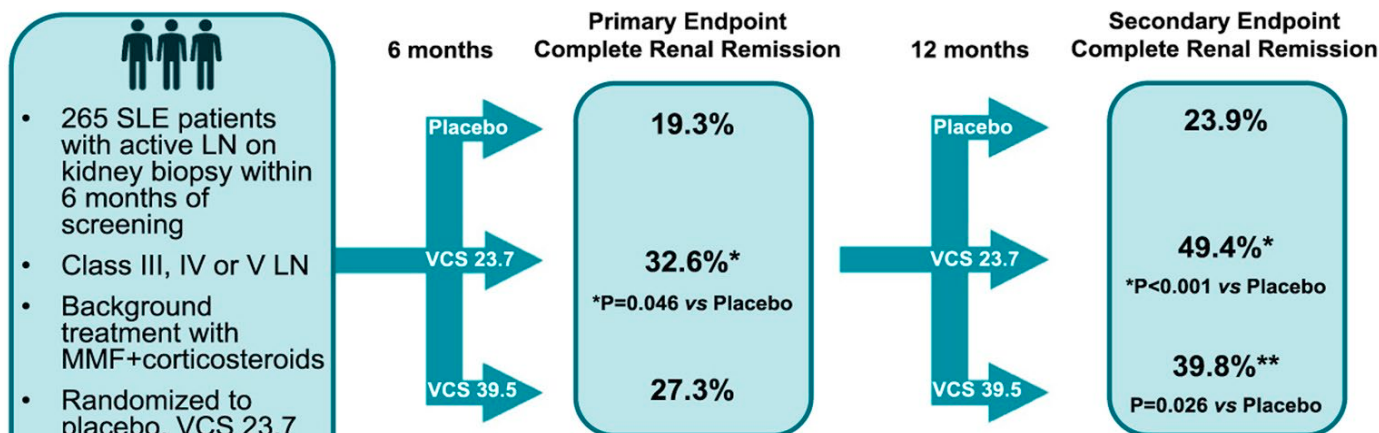
Calcineurineremmer FDA-geregistreerd voor behandeling van lupus-nefritis



Expert Review of Clinical Immunology, 2021;17:9, 937-945

Fase 2 – AURA-LV

A Randomized, Controlled Double-blind Study Comparing the Efficacy and Safety of Dose-Ranging Voclosporin (VCS) with Placebo in Achieving Remission in Patients with Active Lupus Nephritis (LN)



CONCLUSION:

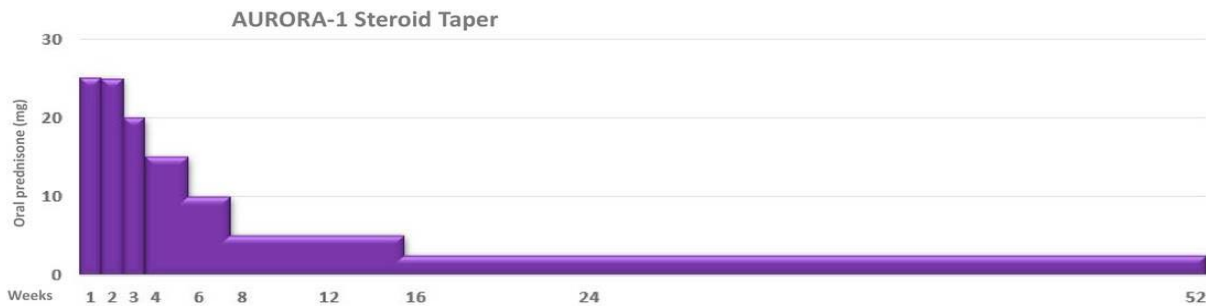
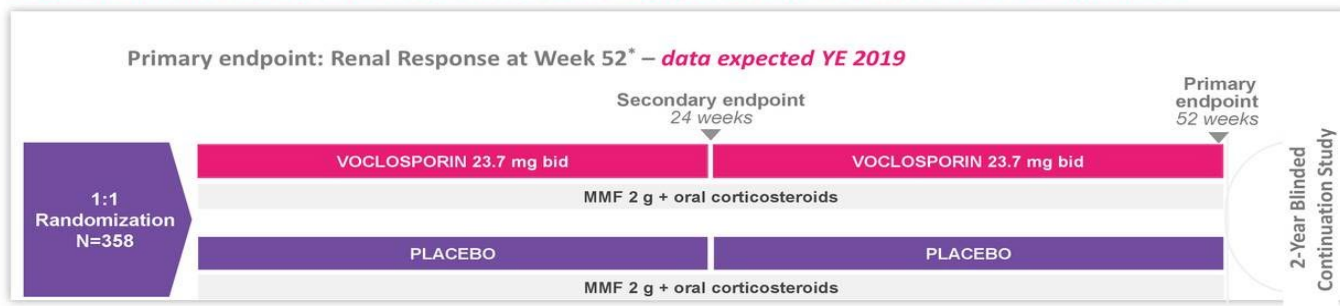
The addition of low-dose voclosporin to mycophenolate mofetil and corticosteroids for induction treatment of active LN results in a superior renal remission than mycophenolate mofetil and corticosteroids alone

Fase 3 – AURORA

AURORA Phase 3 Study Design Mimics AURA Phase 2 Study

Global, double-blind, placebo controlled study to evaluate whether voclosporin in combination w/background standard of care of MMF/CellCept® can increase speed of & overall remission rates in the presence of low steroids;

Target enrollment of 324 patients was surpassed due to high patient demand with 358 subjects randomized



*Similar to AURA-LV definition of complete remission, ref: Kidney Int. 2019 Jan;95(1):219-231. doi: 10.1016/j.kint.2018.08.025. Epub 2018 Nov 9.

AURORA-1: Is voclosporin superior to placebo for treatment of lupus nephritis?



Methods



142 hospitals
27 countries
Double-blind



357 patients with
active class III-V
lupus



All received 2g/day
MMF and tapered
steroids

Complete Renal Response

- ✓ UPCR <.5 mg/mg
- ✓ stable GFR
- ✓ no rescue Rx

52 week

24 week

Serious Adverse Events

Placebo
n= 178



23%

OR 2.65
95% CI (1.64- 4.27)

Voclosporin
n=179



41%

20%

OR 2.23
95% CI (1.34-3.72)

32%

21%

21%

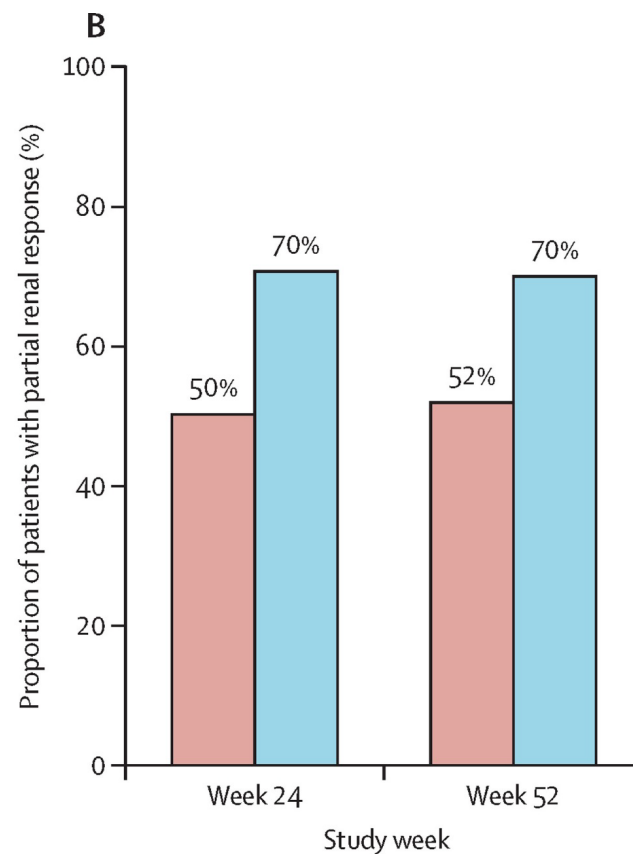
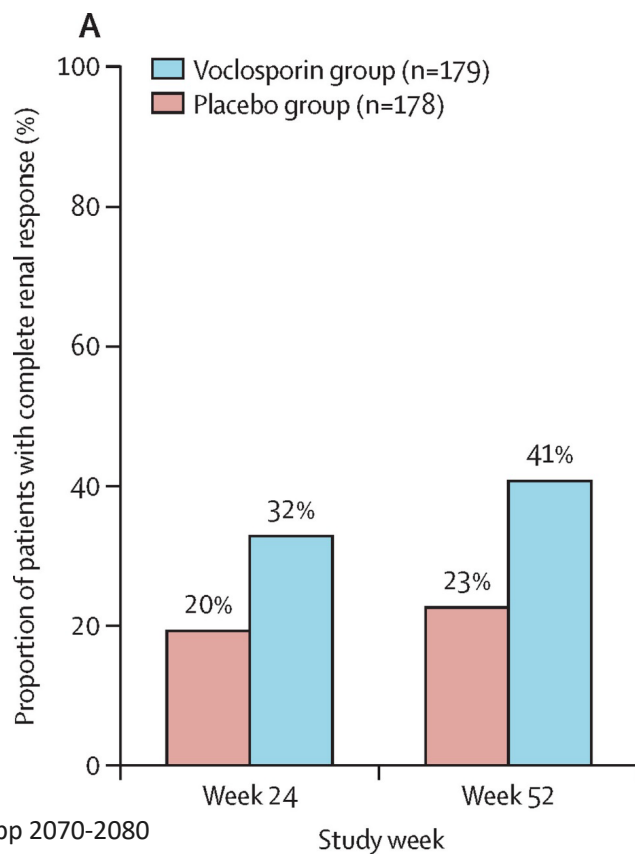
Conclusions: There was superior efficacy of voclosporin compared with placebo in combination with MMF and lose-dose steroids in the treatment of class III-V lupus nephritis, with comparable safety profile.

Rovin BH et al. Lancet 2021.
PMID 33971155

@katierizzolo

<http://www.nephjc.com/news/2021/6/21/the-aurora-1-visual-abstract>

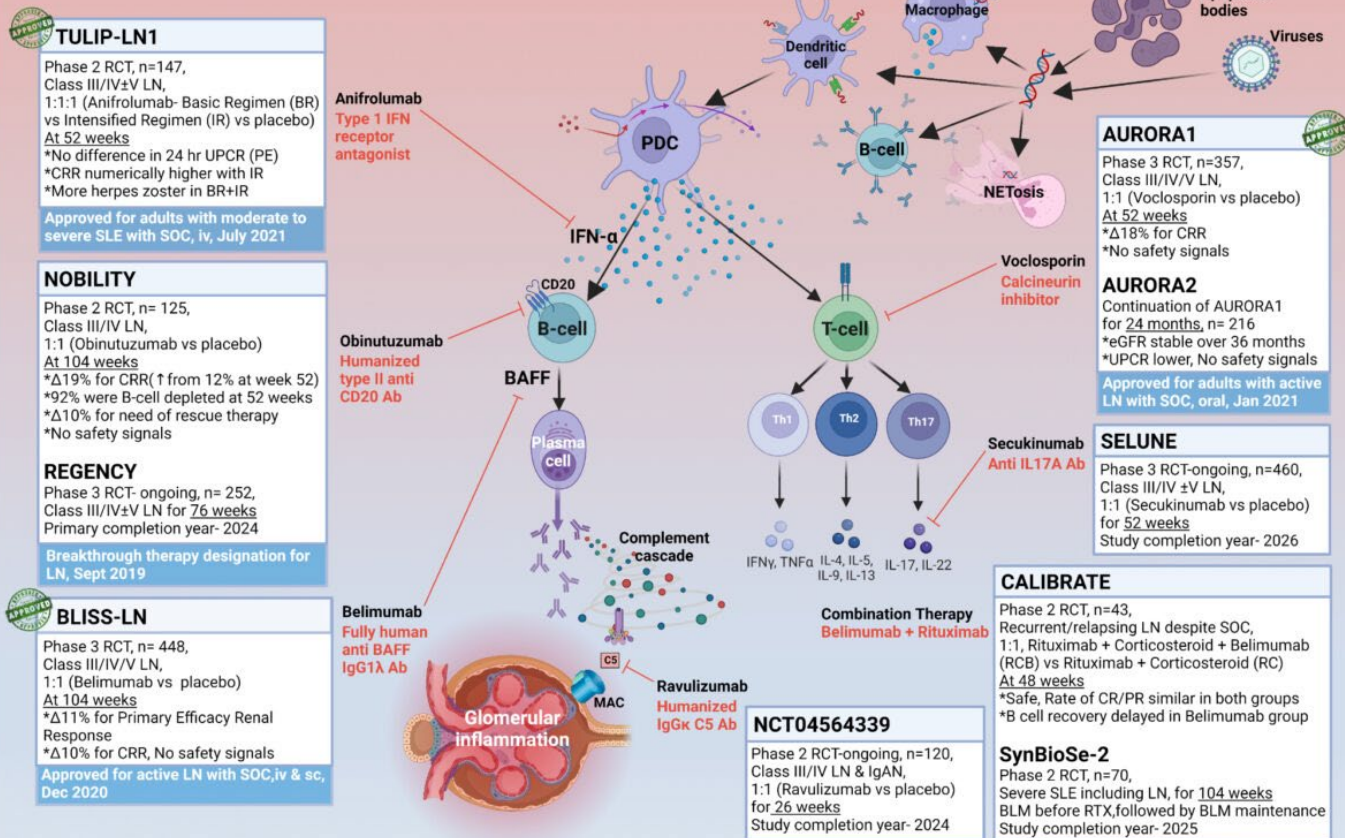
AURORA: primair/secundair eindpunt



	Voclosporin group (n=178)	Placebo group (n=178)
Adverse event summary		
Adverse event	162 (91%)	158 (89%)
Serious adverse event	37 (21%)	38 (21%)
Serious adverse event of infections and infestations	18 (10%)	20 (11%)
Treatment-related serious adverse event	8 (4%)	8 (4%)
Adverse event leading to study drug discontinuation	20 (11%)	26 (15%)
Death*	1 (<1%)	5 (3%)
Treatment-related adverse event leading to death	0	0
Adverse events (reported ≥4% of patients)		
Infections and infestations	115 (65%)	101 (57%)
Gastrointestinal disorders	83 (47%)	61 (34%)
Investigations and infestations	60 (34%)	31 (17%)
Nervous system disorders	47 (26%)	27 (15%)
Skin and subcutaneous tissue disorders	42 (24%)	31 (17%)
Musculoskeletal and connective tissue disorders	40 (22%)	46 (26%)
Vascular disorders	38 (21%)	23 (13%)
General disorders and administration site conditions	36 (20%)	32 (18%)
Blood and lymphatic system disorders	35 (20%)	29 (16%)
Respiratory, thoracic, and mediastinal disorders	26 (15%)	17 (10%)
Renal and urinary disorders	26 (15%)	37 (21%)
Metabolism and nutritional disorders	25 (14%)	37 (21%)
Adverse events are defined as an adverse event that occurs on or after the day of the first dose and up to 30 days after the last dose of voclosporin or placebo, with the exception of death. *Includes two deaths in placebo group and one death in voclosporin group that occurred >30 days after discontinuation of study drug.		
Table 3: Adverse events (safety population)		

Newer Therapies for Lupus Nephritis

An overview of therapeutic targets, status of trials, FDA approval

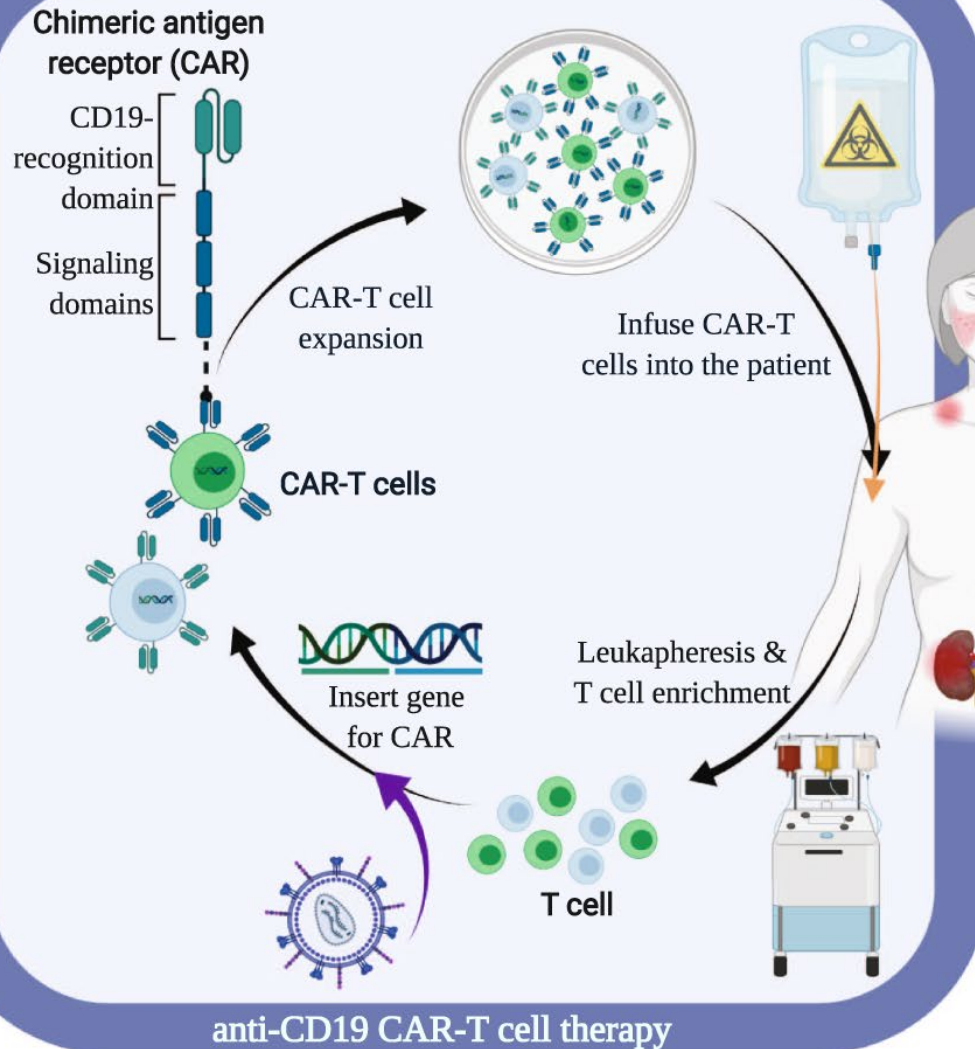


*BAFF- B-cell activating factor, BLM- Belimumab, CR- Complete remission, CRR- Complete renal response, IFN- Interferon, iv- intravenous, LN- Lupus nephritis, MAC- Membrane attack complex, NET- Neutrophil extracellular traps, PDC- Plasmacytoid dendritic cell, PE- Primary endpoint, PR- Partial remission, RCT- Randomised controlled trial, RTX- Rituximab, sc- subcutaneous, SOC- Standard of care, UPCR- Urinary protein creatinine ratio, vs- versus. *All drugs were assessed as add-on therapies to SOC.

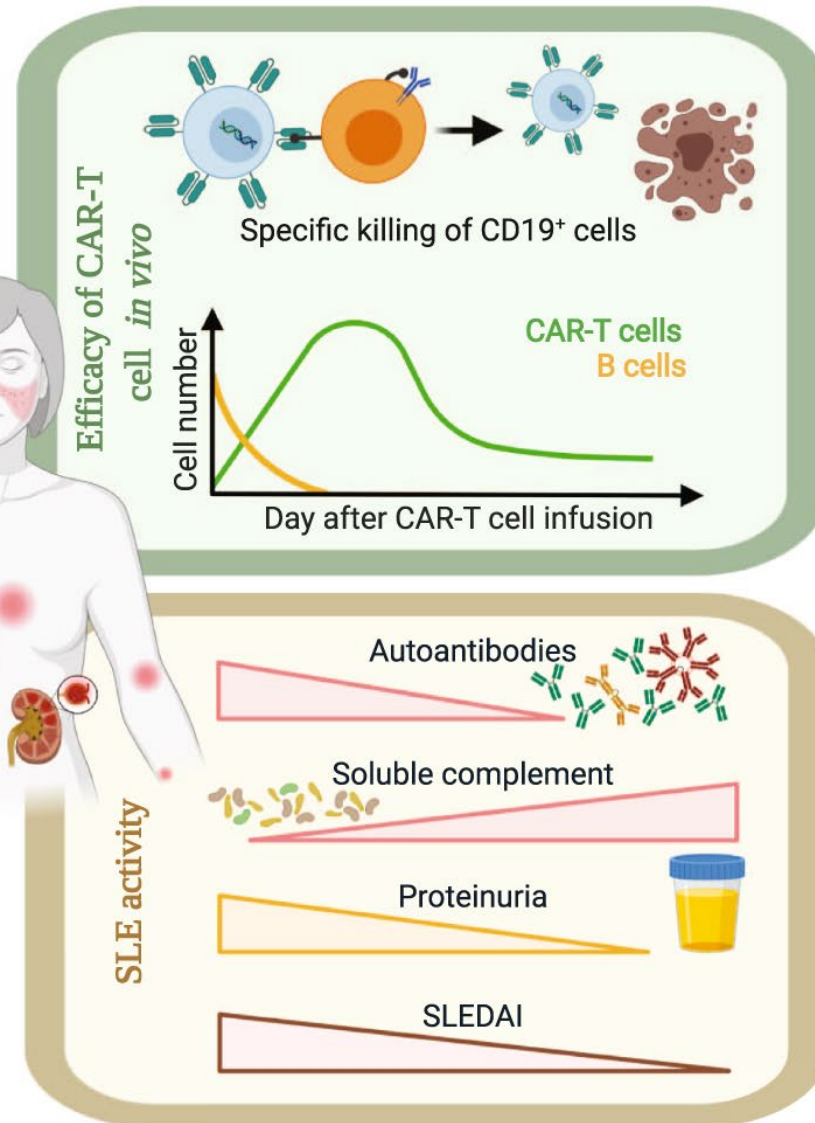
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CAR-T-cells

Strategy of Treatment



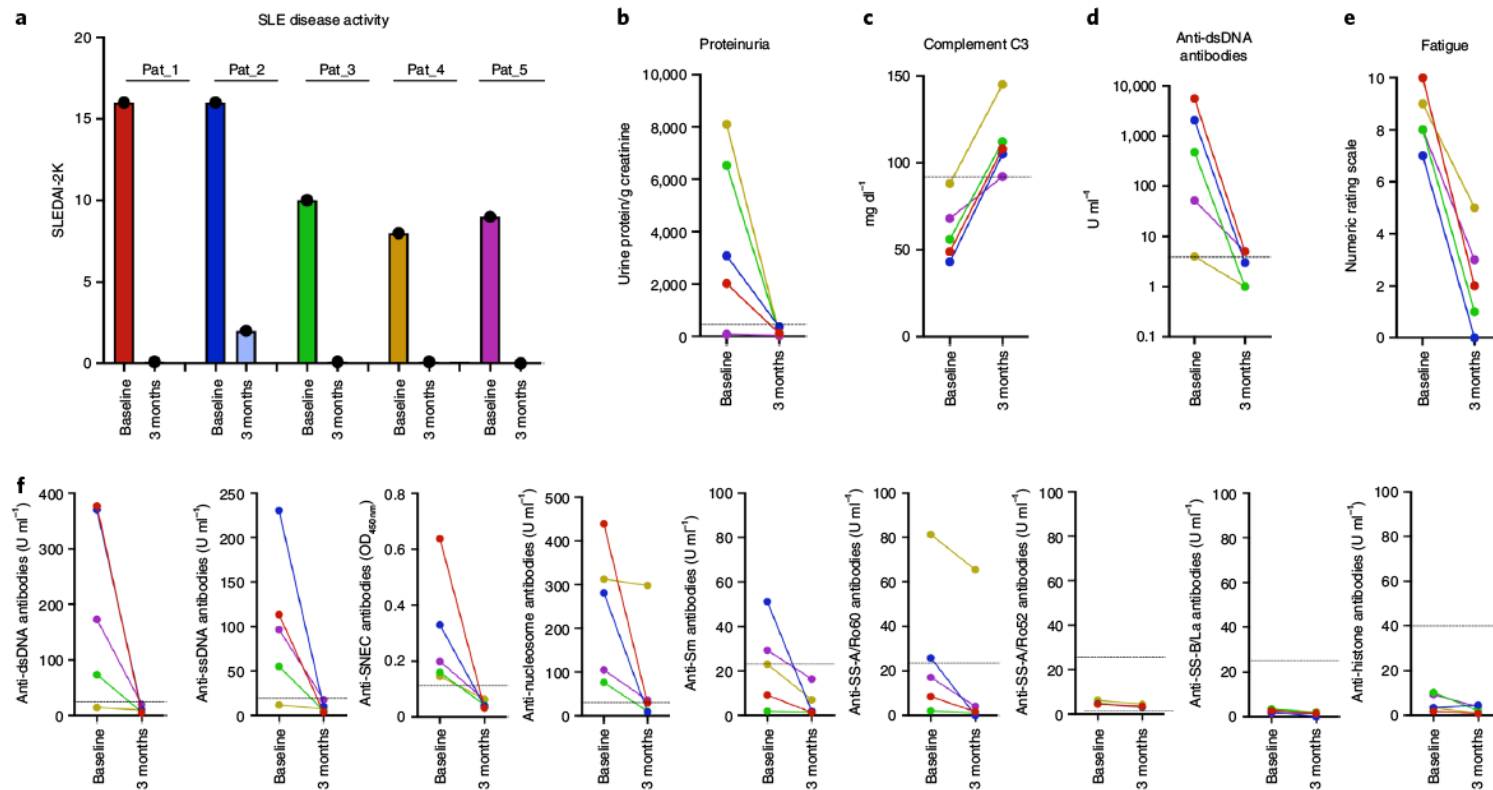
Assessment





Anti-CD19 CAR T cell therapy for refractory systemic lupus erythematosus

Andreas Mackensen^{1,2,8}, Fabian Müller^{1,2,8}, Dimitrios Mougiakakos^{1,2,3,8}, Sebastian Böltz^{2,4}, Artur Wilhelm^{2,4}, Michael Aigner^{1,2}, Simon Völkl^{1,2}, David Simon^{2,4}, Arnd Kleyer^{2,4}, Luis Munoz^{2,4}, Sascha Kretschmann^{1,2}, Soraya Kharboutli^{1,2}, Regina Gary^{1,2}, Hannah Reimann^{1,2}, Wolf Rösler^{1,2}, Stefan Uderhardt^{2,4}, Holger Bang⁵, Martin Herrmann^{2,4}, Arif Bülent Ekici⁶, Christian Buettner⁶, Katharina Marie Habenicht⁷, Thomas H. Winkler^{1,7}, Gerhard Krönke^{2,4,8} and Georg Schett^{2,4,8}✉



Conclusie

- In laatste jaren nieuwe middelen voor SLE
- Belimumab / anifrolumab nu te gebruiken
- Voclosporin komt eraan
- Nieuwe middelen niet beter dan oude, maar toevoeging
- Behandeling met CAR-T-cells veelbelovend, maar nog ver van dagelijkse praktijk



WHY DO WHALES JUMP
WHY ARE WITCHES GREEN
WHY ARE THERE MIRRORS ABOVE BEDS

WHY DO I SAY UH
WHY IS SEA SALT BETTER
WHY ARE THERE TREES IN THE MIDDLE OF FIELDS

WHY IS THERE NOT A POKEMON MMO
WHY IS THERE LAUGHING IN TV SHOWS
WHY ARE THERE DOORS ON THE FREEWAY

WHY ARE THERE SO MANY SACHS/DX/E RUNNING
WHY AREN'T THERE ANY COUNTRIES IN ANTARCTICA
WHY ARE THERE SCARY SOUNDS IN MINECRAFT

WHY IS THERE KICKING IN MY STOMACH
WHY ARE THERE TWO SLASHES AFTER HTTP
WHY ARE THERE CELEBRITIES

WHY DO SNAKES EXIST
WHY DO OYSTERS HAVE PEARLS
WHY ARE DUCKS CALLED DUCKS

WHY DO THEY CALL IT THE CLAP
WHY ARE KYLE AND CARTMAN FRIENDS
WHY IS THERE AN ARROW ON AANG'S HEAD

WHY ARE TEXT MESSAGES BLUE
WHY ARE THERE MUSTACHES ON CLOTHES
WHY ARE THERE MUSTACHES ON CARS

WHY ARE THERE MUSTACHES EVERYWHERE
WHY ARE THERE SO MANY BIRDS IN OHIO
WHY IS THERE SO MUCH RAIN IN OHIO

WHY IS OHIO WEATHER SO WEIRD
WHY ARE THERE MALE AND FEMALE BIKES
WHY ARE THERE BRIDESMAIDS

WHY DO DYING PEOPLE REACH UP
WHY AREN'T THERE VARIOUS AFTERGIFTS
WHY ARE OLD KINGDOMS DIFFERENT

WHY ARE THERE TINY SPIDERS IN MY HOUSE
WHY DO SPIDERS COME INSIDE
WHY ARE THERE HUGE SPIDERS IN MY HOUSE

WHY DO TESTICLES MOVE
WHY ARE THERE PSYCHICS
WHY ARE HATS SO EXPENSIVE

WHY IS THERE CAFFEINE IN MY SHAMPOO
WHY DO YOUR BOOBS HURT
WHY DO ISUAPAS DIE

WHY AREN'T THERE DINOSAUR GHOSTS
WHY ARE THERE SO MANY AVENGERS
WHY ARE THE AVENGERS FIGHTING THE X-MEN

WHY IS WOLVERINE NOT IN THE AVENGERS
WHY ARE THERE SO MANY CROWS IN ROCHESTER
WHY IS PSYCHIC WEAK TO BUG

WHY DO CHILDREN GET CANCER
WHY IS POSEIDON ANGRY WITH ODYSSEUS
WHY IS THERE ICE IN SPACE

WHY ARE THERE ANTS IN MY LAPTOP
WHY IS EARTH TILTED
WHY IS SPACE BLACK

WHY IS OUTER SPACE SO COLD
WHY ARE THERE PYRAMIDS ON THE MOON
WHY IS NASA SHUTTING DOWN

WHY ARE THERE TINY SPIDERS IN MY HOUSE
WHY DO SPIDERS COME INSIDE
WHY ARE THERE HUGE SPIDERS IN MY HOUSE

WHY ARE THERE LOTS OF SPIDERS IN MY HOUSE
WHY ARE THERE SPIDERS IN MY ROOM
WHY ARE THERE SO MANY SPIDERS IN MY ROOM

WHY DO SPIDER BITES ITCH
WHY IS DYING SO SCARY
WHY IS THERE NO GPS IN LAPTOPS

WHY DO KNEES CLICK
WHY AREN'T THERE E GRADES
WHY IS ISOLATION BAD

WHY DO BOYS LIKE ME
WHY DON'T BOYS LIKE ME
WHY IS THERE ALWAYS A JAMA UPDATE

WHY ARE THERE SLAVES IN THE BIBLE
WHY DO TWINS HAVE DIFFERENT FINGERPRINTS
WHY ARE AMERICANS AFRAID OF DRAGONS

WHY IS HTTPS CROSSED OUT IN RED
WHY IS THERE A LINE THROUGH HTTPS
WHY IS THERE A RED LINE THROUGH HTTPS ON FACEBOOK

WHY IS HTTPS IMPORTANT
WHY AREN'T MY ARMS GROWING
WHY ARE THERE DUCKS IN MY BACKYARD

WHY IS THERE AN OWL IN MY BACKYARD
WHY IS THERE AN OWL OUTSIDE MY WINDOW
WHY IS THERE AN OWL ON THE DOLLAR BILL

WHY DO OWLS ATTACK PEOPLE
WHY ARE AK 47s SO EXPENSIVE
WHY ARE THERE HELICOPTERS CIRCLING MY HOUSE

WHY ARE THERE GODS
WHY ARE THERE TWO SPOOKS
WHY IS MT VESUVIUS THERE

WHY DO THEY SAY T MINUS
WHY ARE THERE OBELISKS
WHY ARE WRESTLERS ALWAYS WET

WHY ARE OCEANS BECOMING MORE ACIDIC
WHY IS ARWEN DYING
WHY AREN'T MY QUAIL LAYING EGGS

WHY AREN'T MY QUAIL EGGS HATCHING
WHY AREN'T THERE ANY FOREIGN MILITARY BASES IN AMERICA
WHY ARE THERE DUCKS IN MY POOL

WHY IS JESUS WHITE
WHY IS THERE LIQUID IN MY EAR
WHY DO Q TIPS FEEL GOOD

WHY DO GOOD PEOPLE DIE
WHY AREN'T THERE GUNS IN HARRY POTTER
WHY ARE ULTRASOUNDS IMPORTANT

WHY ARE ULTRASOUND MACHINES EXPENSIVE
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QUESTIONS

FOUND IN GOOGLE AUTOCOMPLETE

