







Red de Enfermedades Inflamatorias (REI) RICORS (RD21/0002)





Network

Connective Tissue and Musculoskeletal Diseases (ERN ReCONNET)

Member

University Hospital 12 de Octubre — Spain





Patricia E Carreira

Servicio de Reumatología, Hospital Universitario 12 de Octubre

Comunidad de Madrid







Conflicto de intereses

Asesorías y conferencias: Actelion, Lilly, VivaCell, Emerald Health Pharmaceuticals, Gesynta Pharma, Boehringer Ingelheim, Abbie, Sanofi Genzyme, Mitsubishi Tanabe

Ensayos clínicos: Inventiva, BMS, Roche, Bayer, Merck Sorono, Boehringer Ingelheim, Iltoo, Corbus, Emerald Health Pharmaceuticals, Galapagos, Idorsia, Mitsubishi Tanabe, Certa, Prometheus, Pfizer, Alexion, Horizon, Argenx, Genentech

Se comentan indicaciones/dosis/pautas fuera de las aprobadas en Ficha Técnica AEMPS

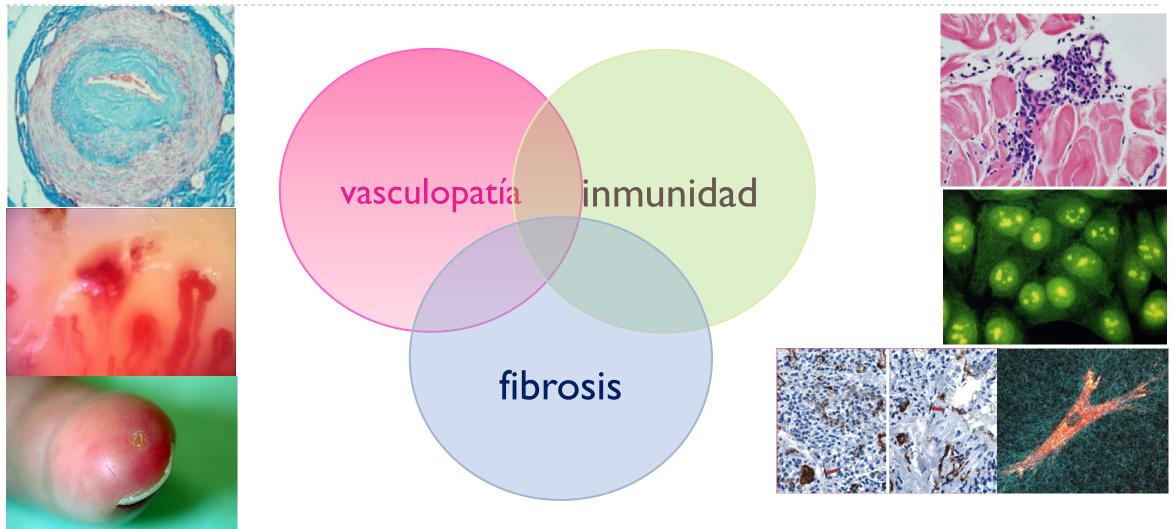


agenda

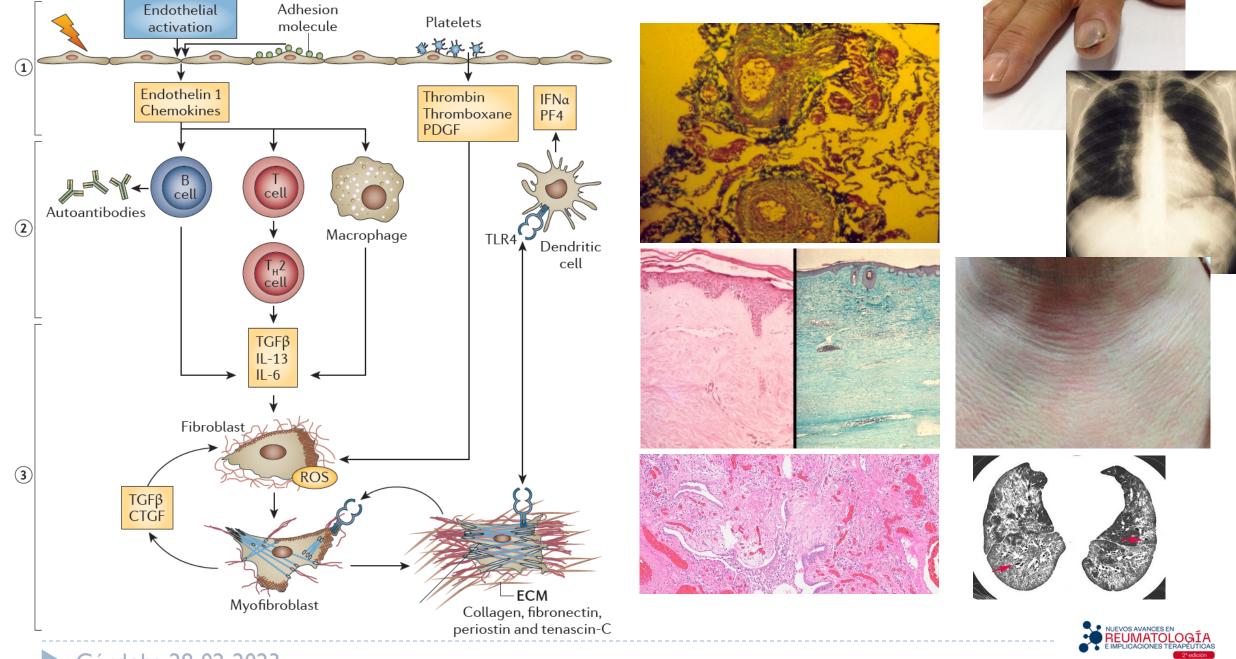
- Fisiopatología (muy breve) de la fibrosis
- Antifibróticos con evidencia en la esclerosis sistémica y otras enfermedades reumáticas: NINTEDANIB y PIRFENIDONA
- Evidencias con otros fármacos (antifibróticos?)
- Fármacos para el futuro
- Conclusiones

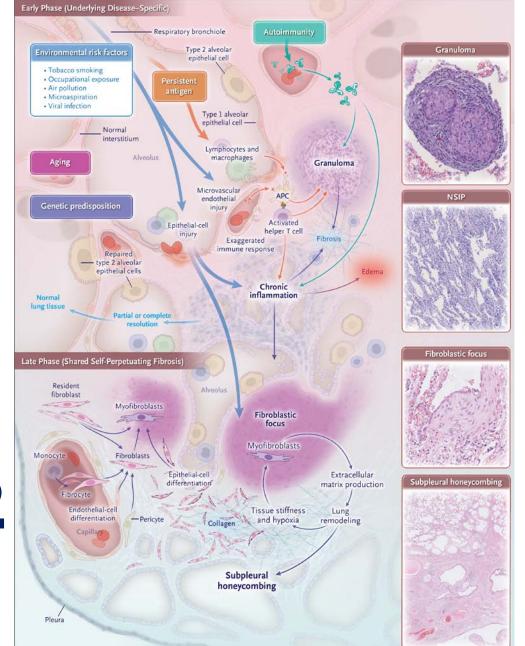


Fisiopatología de la esclerosis sistémica







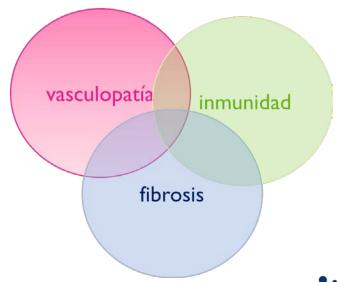


Spectrum of Fibrotic Lung Diseases

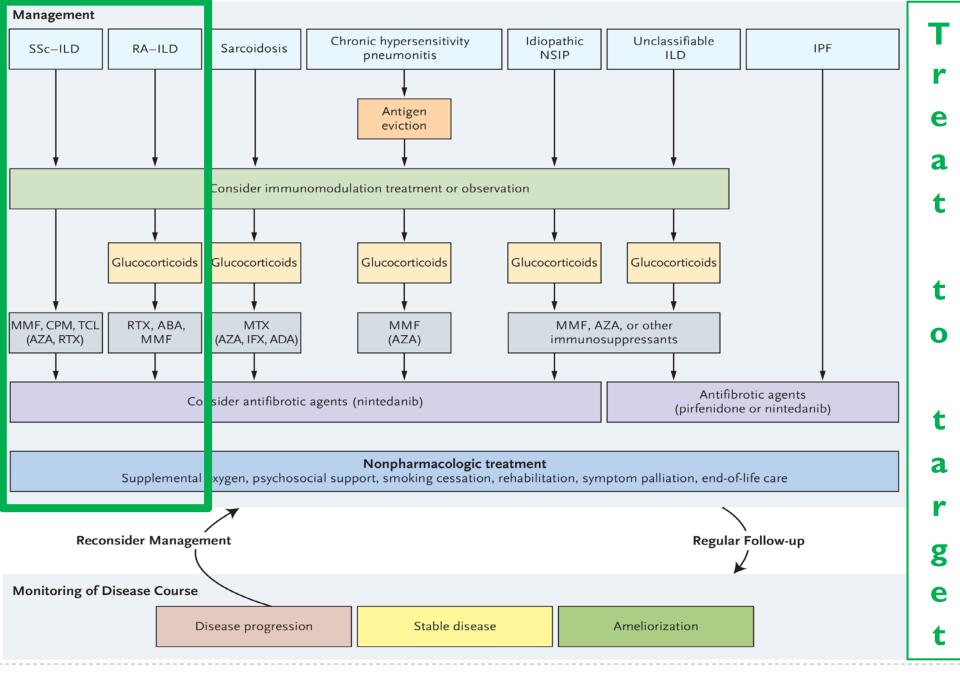
Marlies Wijsenbeek, M.D., and Vincent Cottin, M.D.







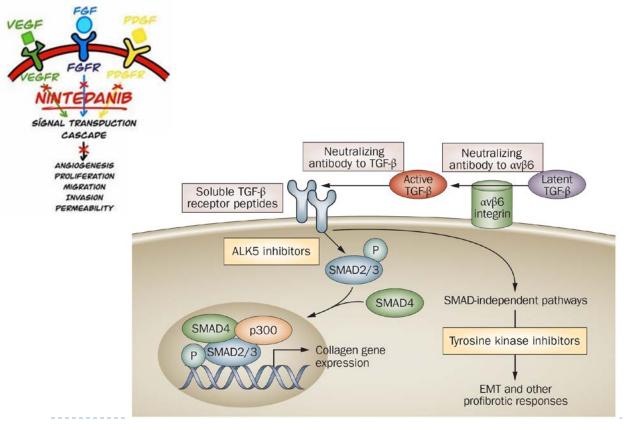






Nintedanib for Systemic Sclerosis– Associated Interstitial Lung Disease

Oliver Distler, M.D., Kristin B. Highland, M.D., Martina Gahlemann, M.D., Arata Azuma, M.D., Aryeh Fischer, M.D., Maureen D. Mayes, M.D., Ganesh Raghu, M.D., Wiebke Sauter, Ph.D., Mannaig Girard, M.Sc., Margarida Alves, M.D., Emmanuelle Clerisme-Beaty, M.D., Susanne Stowasser, M.D., Kay Tetzlaff, M.D., Masataka Kuwana, M.D., and Toby M. Maher, M.D., for the SENSCIS Trial Investigators*



N Engl J Med 2019;380:2518-28.

CRITERIOS DE INCLUSIÓN

- < 7 años de evolución</p>
- EPI > 10% en TACar
- FVC > 40%
- DLCO: 30-89%
- Prednisona ≤ 10 mg/d
- Metotrexate
- Micofenolato

CRITERIOS DE EXCLUSIÓN

- HAP que requiere tratamiento vasodilatador
- Fracaso VD
- Índice cardiaco ≤ 2 l/min/m²







Nintedanib for Systemic Sclerosis– Associated Interstitial Lung Disease

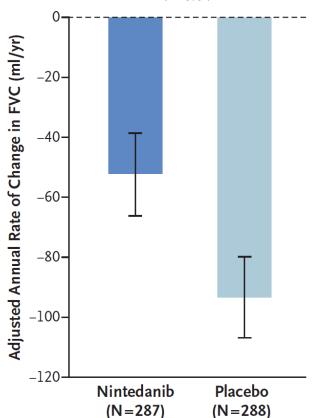
Oliver Distler, M.D., Kristin B. Highland, M.D., Martina Gahlemann, M.D., Arata Azuma, M.D., Aryeh Fischer, M.D., Maureen D. Mayes, M.D., Ganesh Raghu, M.D., Wiebke Sauter, Ph.D., Mannaig Girard, M.Sc., Margarida Alves, M.D., Emmanuelle Clerisme-Beaty, M.D., Susanne Stowasser, M.D., Kay Tetzlaff, M.D., Masataka Kuwana, M.D., and Toby M. Maher, M.D., for the SENSCIS Trial Investigators*

N Engl J Med 2019;380:2518-28.

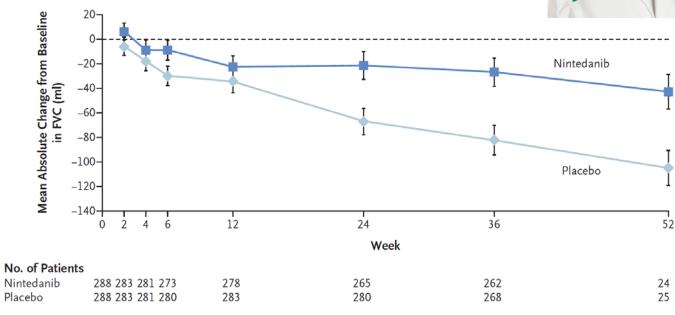




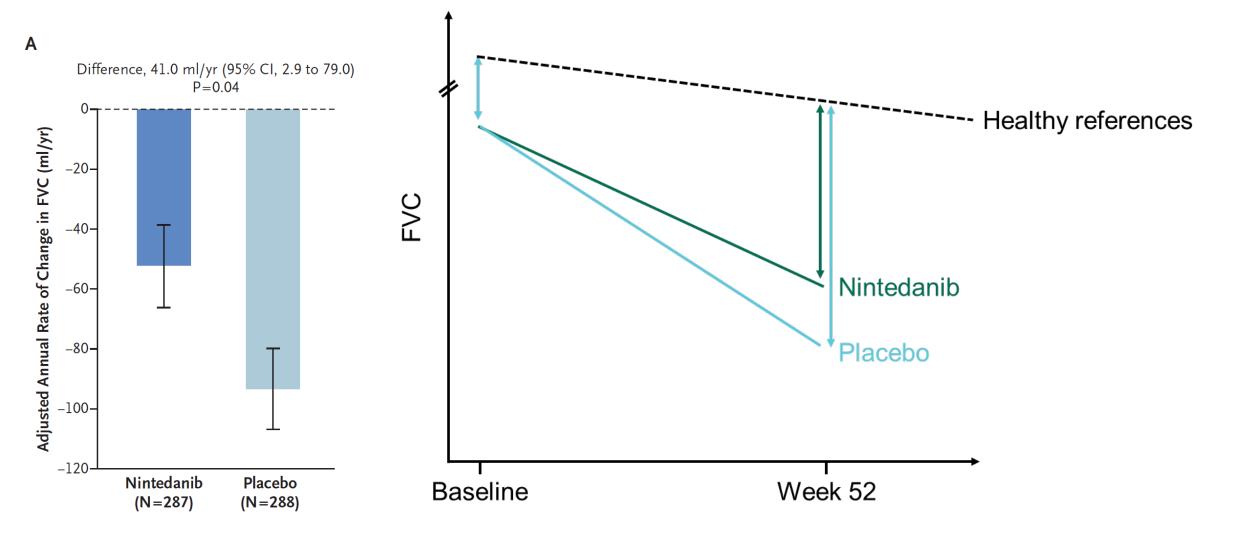
A Difference, 41.0 ml/yr (95% CI, 2.9 to 79.0) P=0.04



Estudio SENSCIS



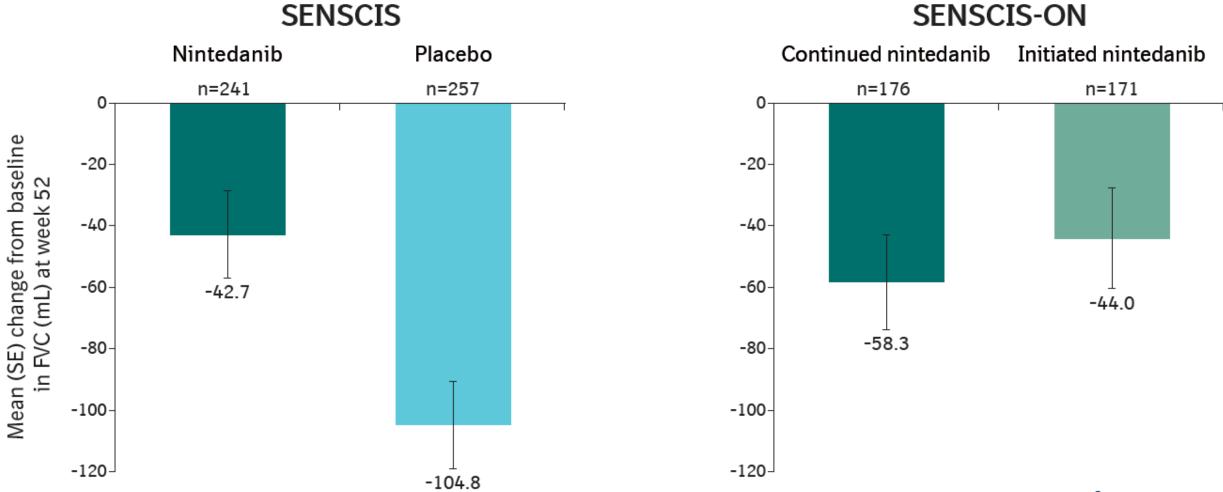






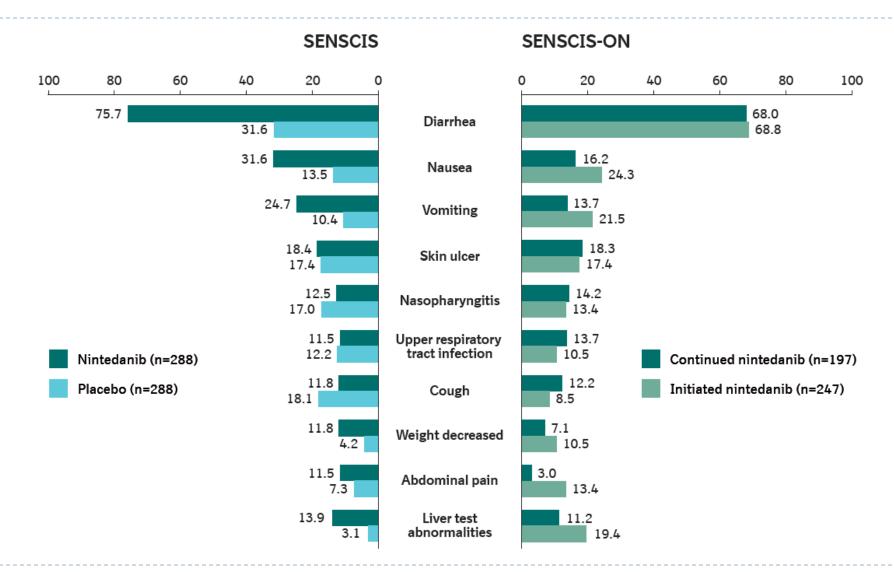
Continued treatment with nintedanib in patients with systemic sclerosis-associated interstitial lung disease: data from SENSCIS-ON

Ann Rheum Dis 2022;81:1722-1729.





Nintedanib: efectos adversos



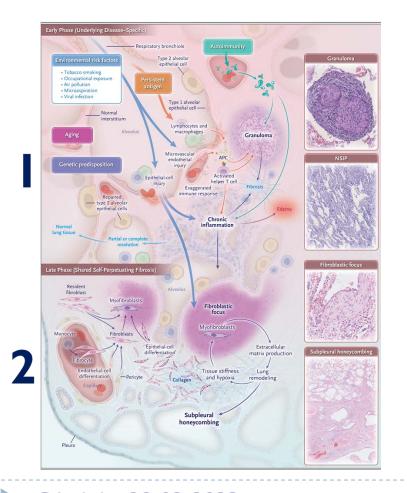


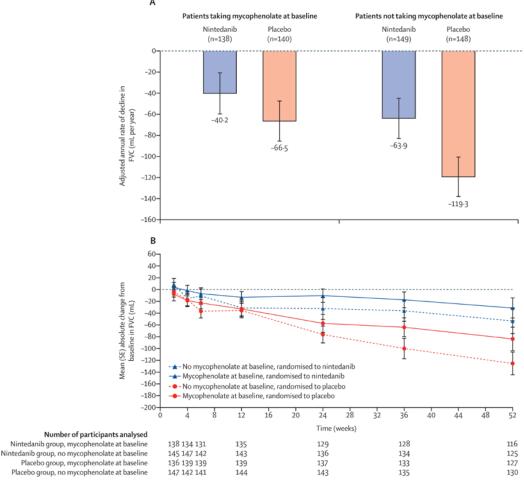
Efficacy and safety of nintedanib in patients with systemic sclerosis-associated interstitial lung disease treated with mycophenolate: a subgroup analysis of the SENSCIS trial

Lancet Respir Med 2021;

9: 96-106

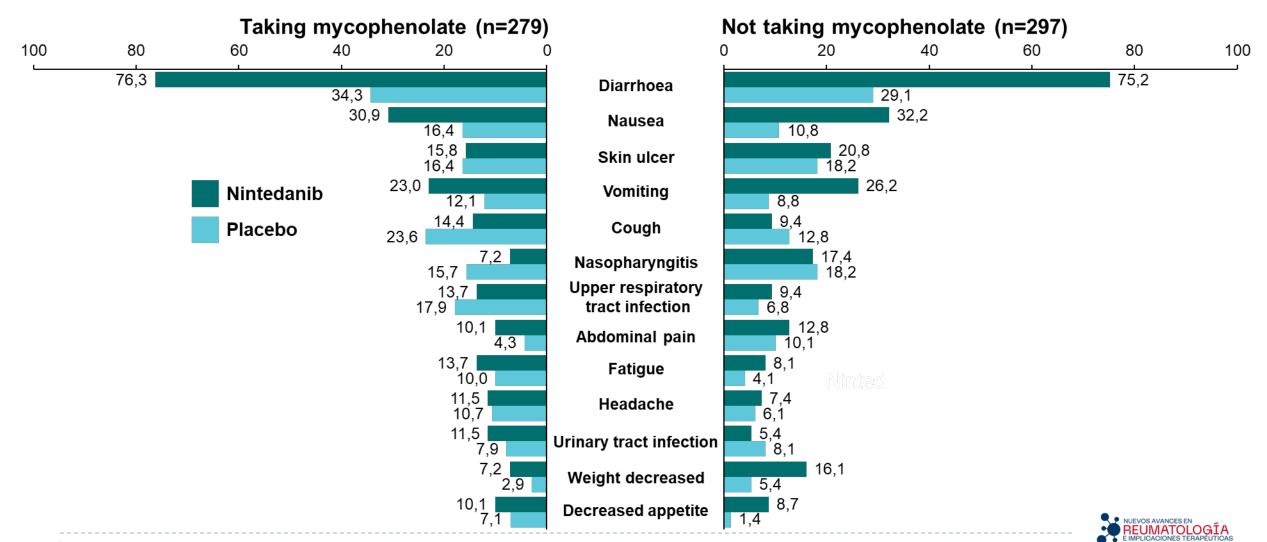
Kristin B Highland*, Oliver Distler*, Masataka Kuwana, Yannick Allanore, Shervin Assassi, Arata Azuma, Arnaud Bourdin,
Christopher P Denton, Jörg H W Distler, Anna Maria Hoffmann-Vold, Dinesh Khanna, Maureen D Mayes, Ganesh Raghu, Madelon C Vonk,
Martina Gahlemann, Emmanuelle Clerisme-Beaty, Mannaig Girard, Susanne Stowasser, Donald Zoz, Toby M Maher, on behalf of the SENSCIS
trial investigators†





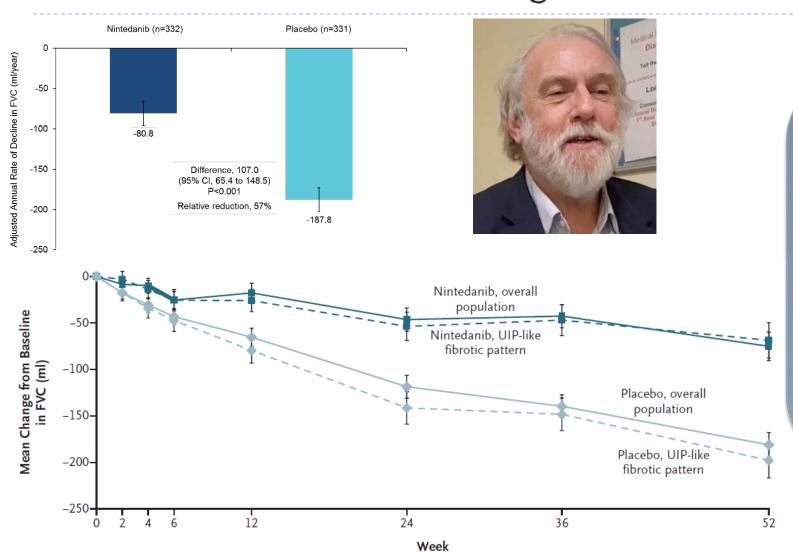


Nintedanib: efectos adversos



Nintedanib in Progressive Fibrosing Interstitial Lung Diseases





Estudio INBUILD

Fibrosis progresiva:

- FVC% ≥ 10% en 24 meses preinclusión
- FVC% 5-10% +
 empeoramiento síntomas
 o ↑ extensión TCAR
- empeoramiento síntomas+ ↑ extensión TCAR



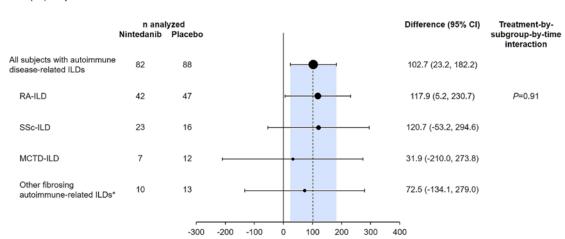
Arthritis & Rheumatology

Vol. 74, No. 6, June 2022, pp 1039-1047

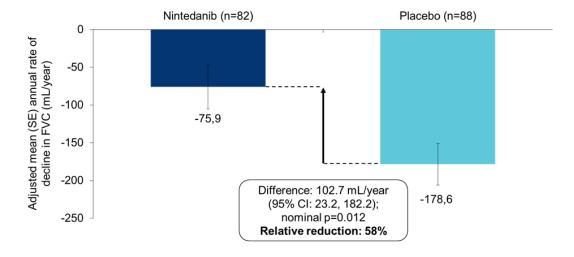
Nintedanib in Patients With Autoimmune Disease-Related Progressive Fibrosing Interstitial Lung Diseases: Subgroup Analysis of the INBUILD Trial

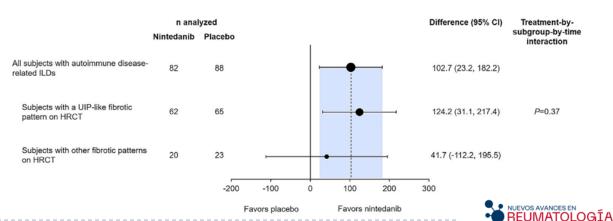
Nintedanib (n=332) 84 (25.3) 82 (24.7)	Placebo (n=331) 89 (26.9) 88 (26.6)
84 (25.3)	89 (26.9)
82 (24.7)	88 (26.6)
42 (12.7)	47 (14.2)
23 (6.9)	16 (4.8)
7 (2.1)	12 (3.6)
10 (3.0)	13 (3.9)
64 (19.3)	61 (18.4)
64 (19.3)	50 (15.1)
38 (11.4)	43 (13.0)
	23 (6.9) 7 (2.1) 10 (3.0) 64 (19.3) 64 (19.3)

Data are no (%) of patients.



Rate of decline in FVC over 52 weeks in patients with autoimmune disease-related ILDs





Idiopathic Pulmonary Fibrosis (an Update) and Progressive

Pulmonary Fibrosis in Adults Am J Respir Crit Care Med Vol 205, Iss 9, pp e18-e47, May 1, 2022

An Official ATS/ERS/JRS/ALAT Clinical Practice Guideline





PPF guideline criteria²

Clinical, physiological and radiological criteria to identify PPF (≥2 of the following occurring within the past year, with no alternative explanation):

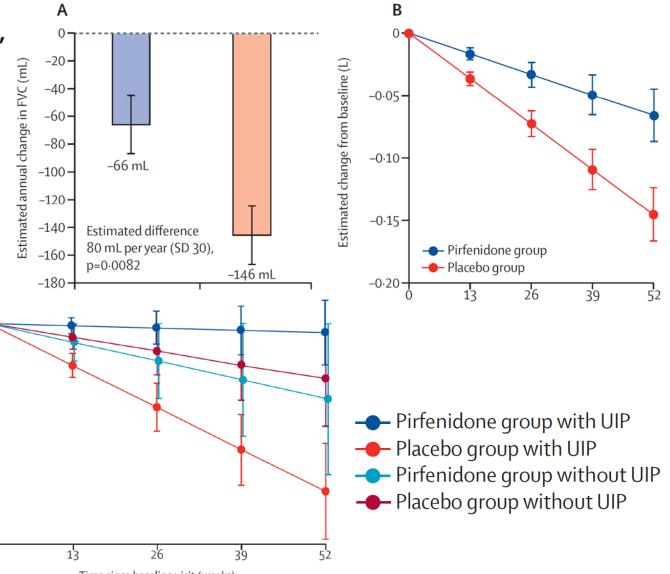
- Worsening respiratory symptoms
- Physiological evidence of disease progression
 - Absolute decline in FVC ≥5% predicted within 1 year of follow-up
 - Absolute decline in DL_{co} ≥10% (corrected for Hb) predicted within 1 year of follow-up
- Radiological evidence of disease progression

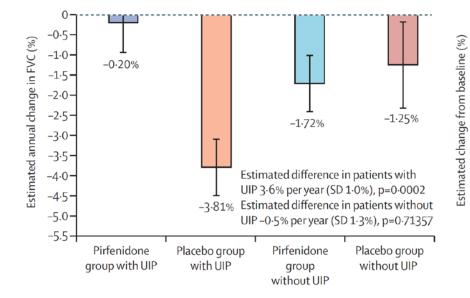


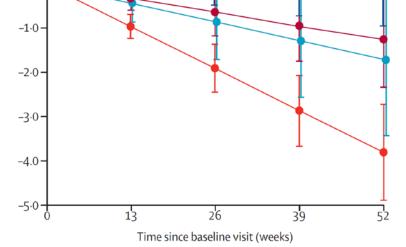
Safety, tolerability, and efficacy of pirfenidone in patients with rheumatoid arthritis-associated interstitial lung disease: a randomised, double-blind, placebo-controlled, phase 2 study

	Pirfenidone group (n=63)	Placebo group (n=60)	p value
Primary endpoint			
Decline in percent predicted FVC by 10% or more or death	7 (11%)	9 (15%)	0.48

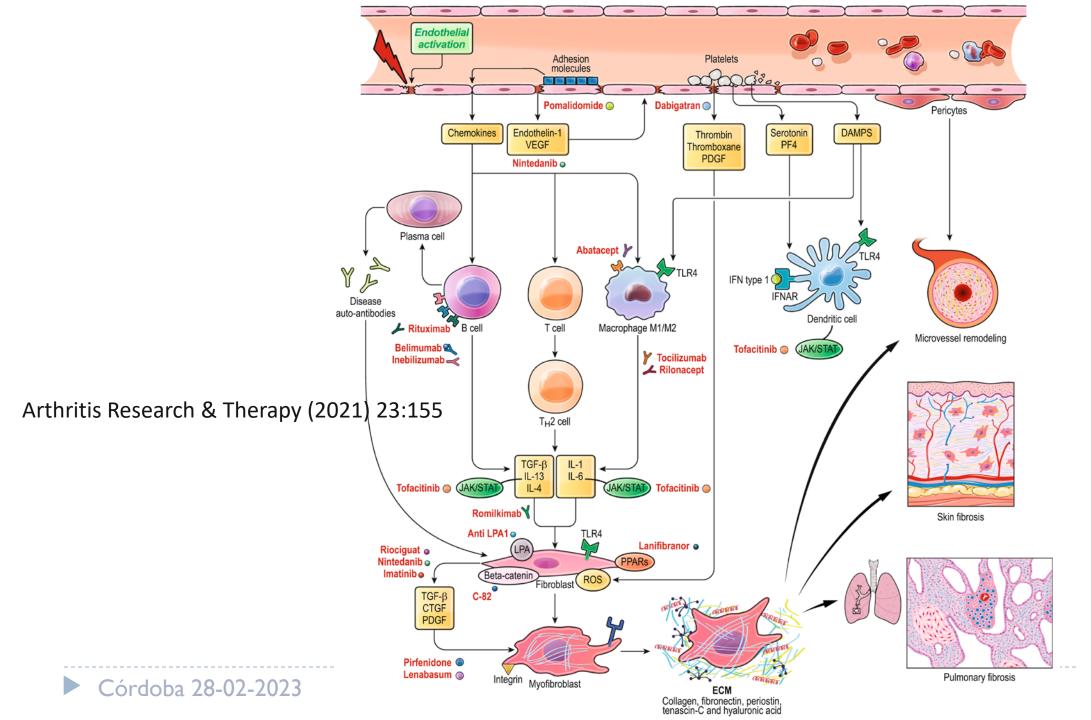
Lancet Respir Med 2022





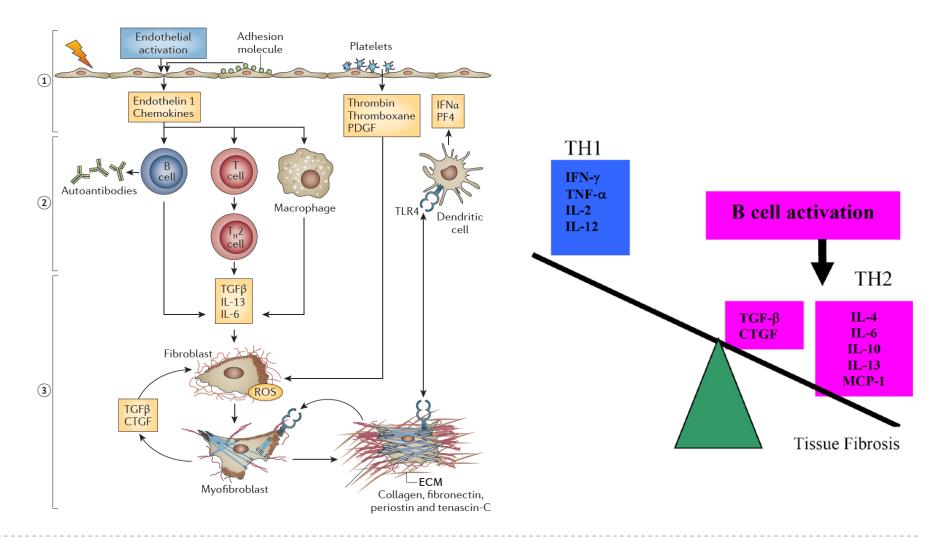








Células B en esclerosis sistémica





Células B en esclerosis sistémica



Intravenous cyclophosphamide *vs* rituximab for the treatment of early diffuse scleroderma lung disease: open label, randomized, controlled trial

Geetabali Sircar¹, Rudra Prosad Goswami¹, Dipankar Sircar², Alakendu Ghosh¹ and Parasar Ghosh¹



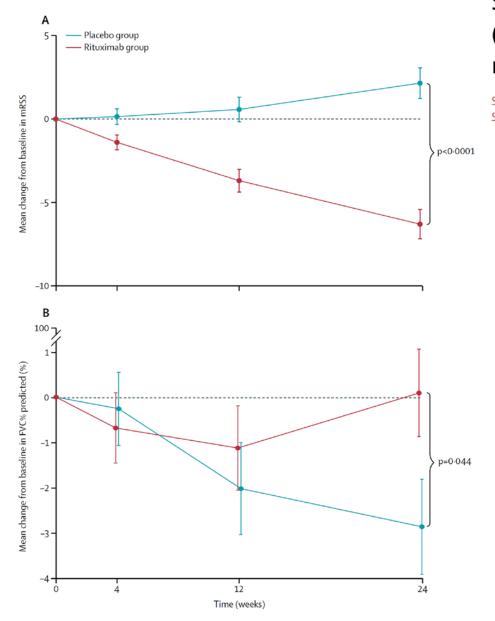
Rheumatology 2018;57:2106-2113

Rituximab (n=30)			CYC (n=30)			Difference of Consults	Danahar	
Parameter	Baseline, mean (s.b.)	6 months, mean (s.b.)	<i>P</i> -value	Baseline, mean (s.ɒ.)	6 months, mean (s.p.)	<i>P</i> -value	Difference at 6 months Mean (95% CI)	<i>P</i> -value
Forced vital capacity, %	61.30 (11.28)	67.52 (13.59)	0.002 ^a	59.25 (12.96)	58.06 (11.23)	0.496 ^a	9.46 (3.01 to 15.90)*	0.003 ^b
Forced vital capacity, I	1.51 (0.45)	1.65 (0.47)	< 0.001	1.42 (0.49)	1.42 (0.46)	0.356	0.23 (-0.013 to 0.47)**	0.091 ^b
Modified Rodnan skin score at baseline	21.77 (9.86)	12.10 (10.14)	< 0.001	23.83 (9.28)	18.33 (7.69)	< 0.001	-6.23 (-10.88, -1.58)***	0.001 ^b
Medsgers severity scale	8.33 (3.04)	4.67 (2.35)	< 0.001	9.60 (2.44)	5.96 (2.81)	< 0.001	$-1.30 (-2.64, 0.04)^{\#}$	0.036 ^b
6-min walking test, m	359.63 (65.95)	409.60 (69.29)	< 0.001	335.90 (89.30)	349.14 (99.75)	0.428	60.46 (16.07, 104.84)****	0.001 ^b
Pulmonary hypertension present (%)	4 (13)	5 (16)		5 (16)	5 (16)		##	

Rheumatology key messages

- Interstitial lung disease is an important cause of morbidity and mortality in SSc.
- Rituximab is an effective treatment of interstitial lung disease in early SSc, with improvement in skin and lung function.
- The adverse event profile of rituximab is superior to cyclophosphamide.





Safety and efficacy of rituximab in systemic sclerosis (DESIRES): a double-blind, investigator-initiated, randomised, placebo-controlled trial

Lancet Rheumatol 2021; 3: e489-97

Satoshi Ebata*, Ayumi Yoshizaki*, Koji Oba, Kosuke Kashiwabara, Keiko Ueda, Yukari Uemura, Takeyuki Watadani, Takemichi Fukasawa, Shunsuke Miura, Asako Yoshizaki-Ogawa, Yoshihide Asano, Naoko Okiyama, Masanari Kodera, Minoru Hasegawa, Shinichi Sato*

	Rituximab group (n=28)	Placebo group (n=26)
Sex		
Female	25 (89%)	24 (92%)
Male	3 (11%)	2 (8%)
Age, years	49.1 (14.4)	48.3 (9.2)
Diffuse cutaneous systemic sclerosis	23 (82%)	22 (85%)
Disease duration, months	58.5 (0-268)	52.0 (9-248)
mRSS	14.4 (3.7)	15.7 (5.5)
Interstitial lung disease present	25 (89%)	23 (88%)
FVC% predicted	87.9% (15.8)	89.4% (17.9)





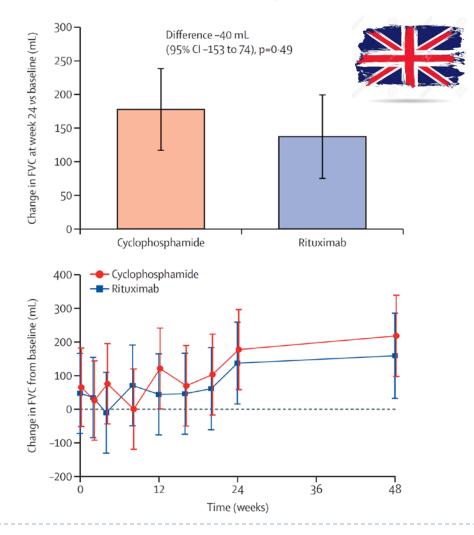






Rituximab versus intravenous cyclophosphamide in patients with connective tissue disease-associated interstitial lung disease in the UK (RECITAL): a double-blind, double-dummy, randomised, controlled, phase 2b trial

Toby M Maher, Veronica A Tudor, Peter Saunders, Michael A Gibbons, Sophie V Fletcher, Christopher P Denton, Rachel K Hoyles, Helen Parfrey, Elisabetta A Renzoni, Maria Kokosi, Athol U Wells, Deborah Ashby, Matyas Szigeti, Philip L Molyneaux, on behalf of the RECITAL Investigators*



Lancet Respir Med 2022

44 miopatías37 esclerodermia16 EMTC

	Cyclophosphamide group (n=50)	Rituximab group (n=51)
All events	646	445
Blood and lymphatic system disorders	3 (<1%)	0
Cardiac disorders	10 (2%)	6 (1%)
Ear and labyrinth disorders	2 (<1%)	1 (<1%)
Eye disorders	16 (2%)	9 (2%)
Gastrointestinal disorders	170 (26%)	71 (16%)
General disorders and administration site conditions	91 (14%)	52 (12%)
Hepatobiliary disorders	1 (<1%)	1 (<1%)
Immune system disorders	0	2 (<1%)
Infections and infestations	50 (8%)	46 (10%)
Injury, poisoning, and procedural complications	8 (1%)	5 (1%)
Investigations	11 (2%)	8 (2%)
Metabolism and nutrition disorders	5 (1%)	3 (1%)
Musculoskeletal and connective tissue disorders	44 (7%)	40 (9%)
Nervous system disorders	72 (11%)	35 (8%)
Psychiatric disorders	9 (1%)	10 (2%)
Renal and urinary disorders	8 (1%)	1 (<1%)
Reproductive system and breast disorders	5 (1%)	4 (1%)
Respiratory, thoracic, and mediastinal disorders	94 (15%)	101 (23%)
Skin and subcutaneous tissue disorders	38 (6%)	32 (7%)
Surgical and medical procedures	1 (<1%)	0
Vascular disorders	7 (1%)	16 (4%)
Data are number of events (% of total events reported per co	hort).	

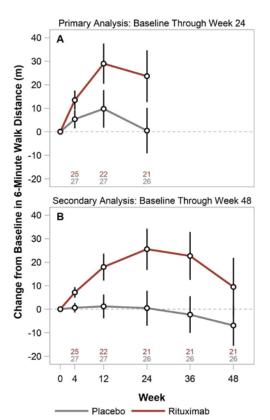


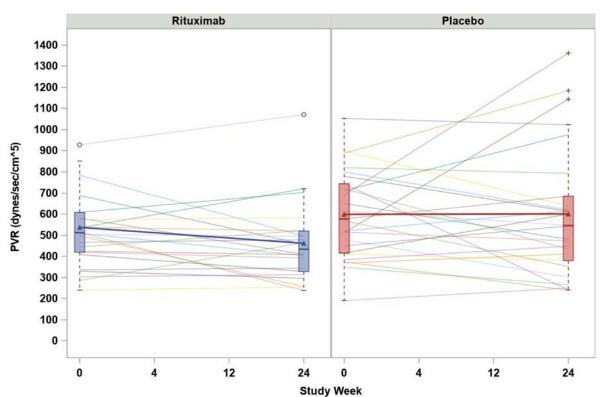


Safety and Efficacy of B-Cell Depletion with Rituximab for the Treatment of Systemic Sclerosis—associated Pulmonary Arterial Hypertension Am J Respir Crit Care Med Vol 204, Iss 2, pp 209–221, Jul 15, 2021



A Multicenter, Double-Blind, Randomized, Placebo-controlled Trial





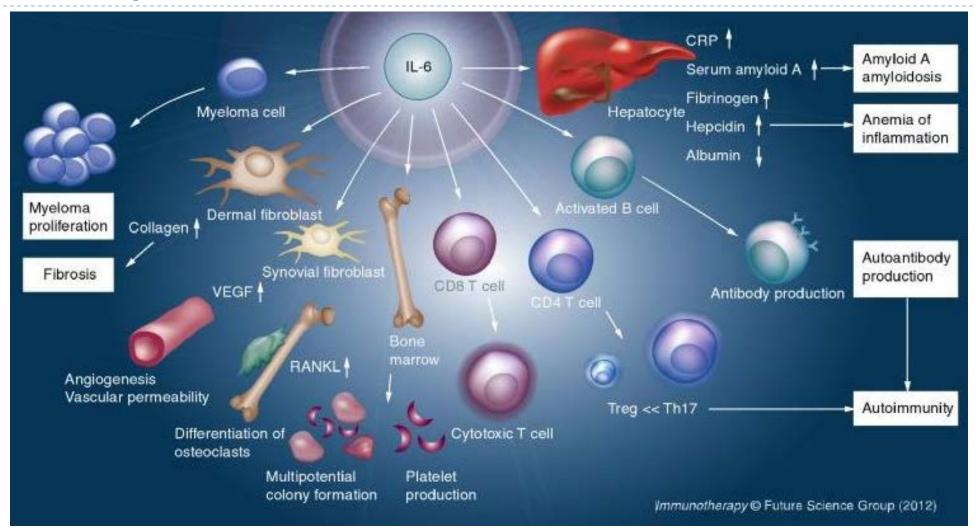


T cell Tissue fibrosis activation (abnormal Cytokines Th2>Th1 Cytokines Chronic B cell Breakdown of activation Autoimmunity Polymorphism or mutation of B cell esponse regulators Vascular Injury SSc-PAH

57 pacientes con esclerodermia e hipertensión arterial pulmonar (< 5 a)



IL-6 y fibrosis





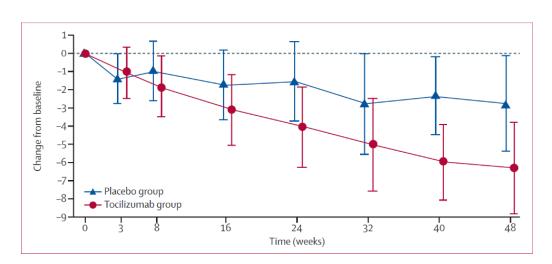


Safety and efficacy of subcutaneous tocilizumab in adults with systemic sclerosis (faSScinate): a phase 2, randomised, controlled trial

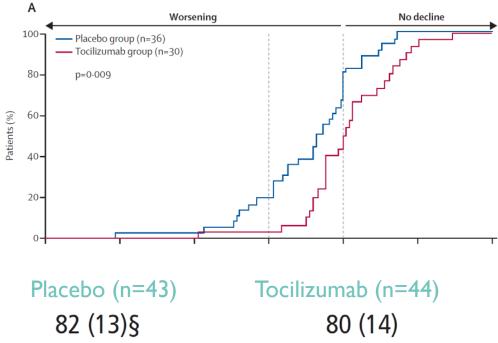
Lancet 2016; 387: 2630-40

Dinesh Khanna, Christopher P Denton, Angelika Jahreis, Jacob M van Laar, Tracy M Frech, Marina E Anderson, Murray Baron, Lorinda Chung, Gerhard Fierlbeck, Santhanam Lakshminarayanan, Yannick Allanore, Janet E Pope, Gabriela Riemekasten, Virginia Steen, Ulf Müller-Ladner, Robert Lafyatis, Giuseppina Stifano, Helen Spotswood, Haiyin Chen-Harris, Sebastian Dziadek, Alyssa Morimoto, Thierry Sornasse, Jeffrey Siegel, Daniel E Furst

Piel (mRSS)



Pulmón (FVC)



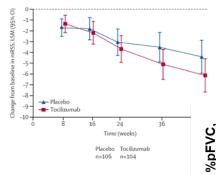
%pFVC 82 (13)§ 80 (14) %pDLCO (Hb corr) 74 (21)‡ 73 (19)§

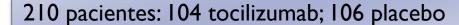


Tocilizumab in systemic sclerosis: a randomised, double-blind, placebo-controlled, phase 3 trial

Lancet Respir Med 2020; 8: 963–74

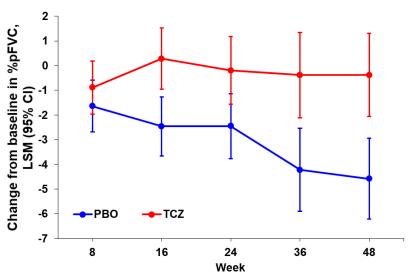
Dinesh Khanna, Celia J F Lin, Daniel E Furst, Jonathan Goldin, Grace Kim, Masataka Kuwana, Yannick Allanore, Marco Matucci-Cerinic, Oliver Distler, Yoshihito Shima, Jacob M van Laar, Helen Spotswood, Bridget Wagner, Jeffrey Siegel, Angelika Jahreis*, Christopher P Denton*, for the focuSSced investigators†











ς Σ	2	Pa	tients	With S	Sc-ILD ^a	
Change From Baseline in %pFVC (ITT population), LSM (95% CI)	3					
Change From Ba (ITT population	-4- -5- -6- -7- - 8	→ PBO	→ TC2	Т		
	9	8	16	Week	36	48

%pFVC	PBO n=106	TCZ n=104	Difference (95% CI) Nominal p Value
LSM change from baseline at week 48	-4.6	-0.4	4.2 (2.0, 6.4) p=0.0002
Absolute change in FVC, mL	-190	-24	167 (83, 250) p=0.0001

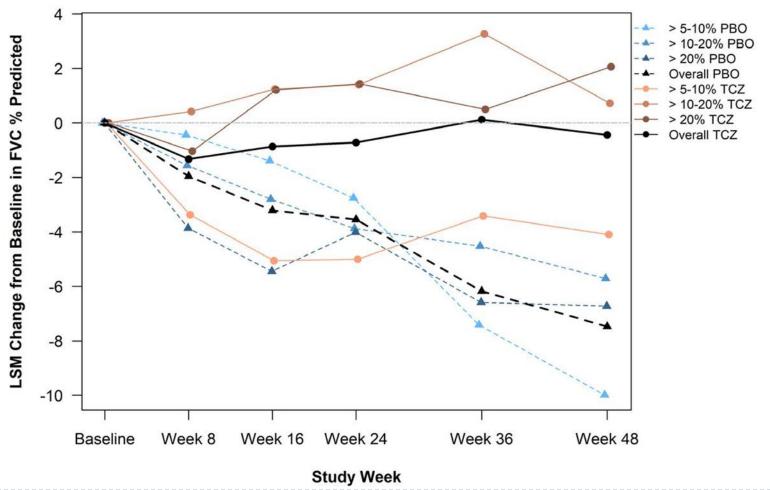
%pFVC	PBO n=63	TCZ n=67	Difference (95% CI) Nominal p Value
LSM change from baseline at week 48	-6.5	-0.1	6.4 (3.3, 9.4) p<0.0001
Absolute change in FVC, mL	-257	-20	238 (119, 357) p=0.0001



Tocilizumab Prevents Progression of Early Systemic Sclerosis-Associated Interstitial Lung Disease

Arthritis & Rheumatology Vol. 73, No. 7, July 2021, pp 1301–1310

David Roofeh,¹ Celia J. F. Lin,² Jonathan Goldin,³ Grace Hyun Kim,³ Daniel E. Furst,⁴ Christopher P. Denton,⁵ Suiyuan Huang,¹ and Dinesh Khanna,¹ on behalf of the focuSSced Investigators















Home

About Scleroderma v

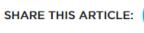
Treatments v

News > FDA Approves Actemra to Treat Adults With SSc-ILD

FDA Approves Actemra to Treat Adults With SSc-ILD



by Steve Bryson PhD | March 8, 2021

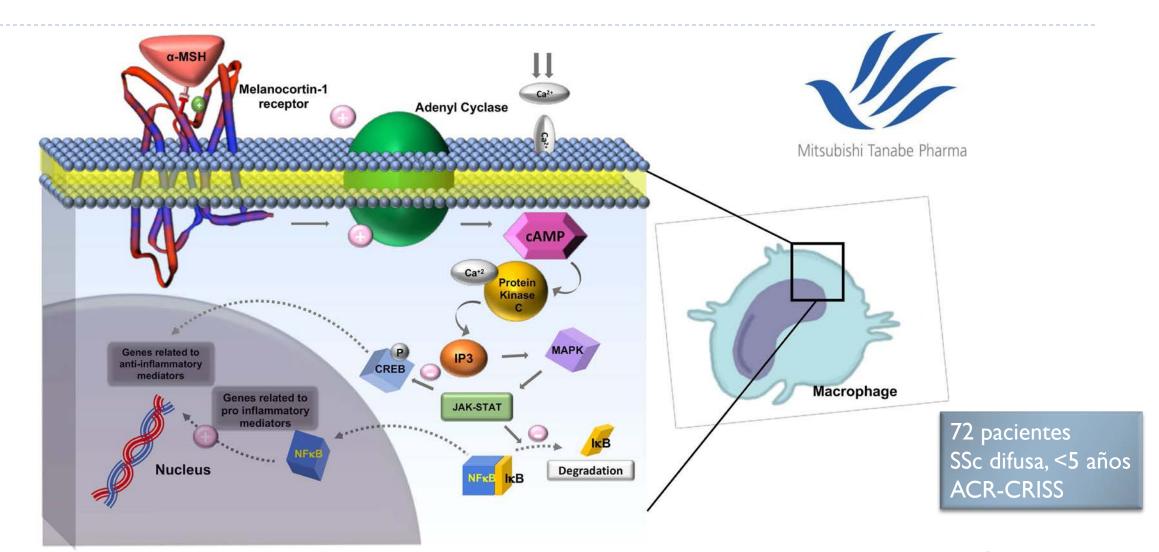






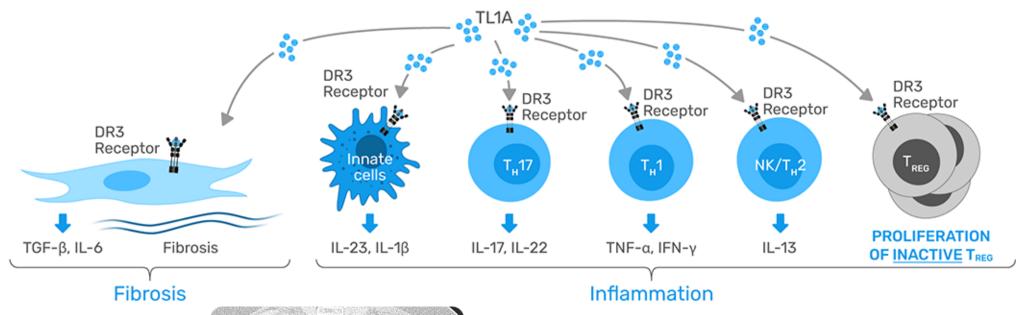


MT-7117 (dersimelagon) Agonista del receptor I de la melanocortina





Anti-TLIA en EPID-SSc



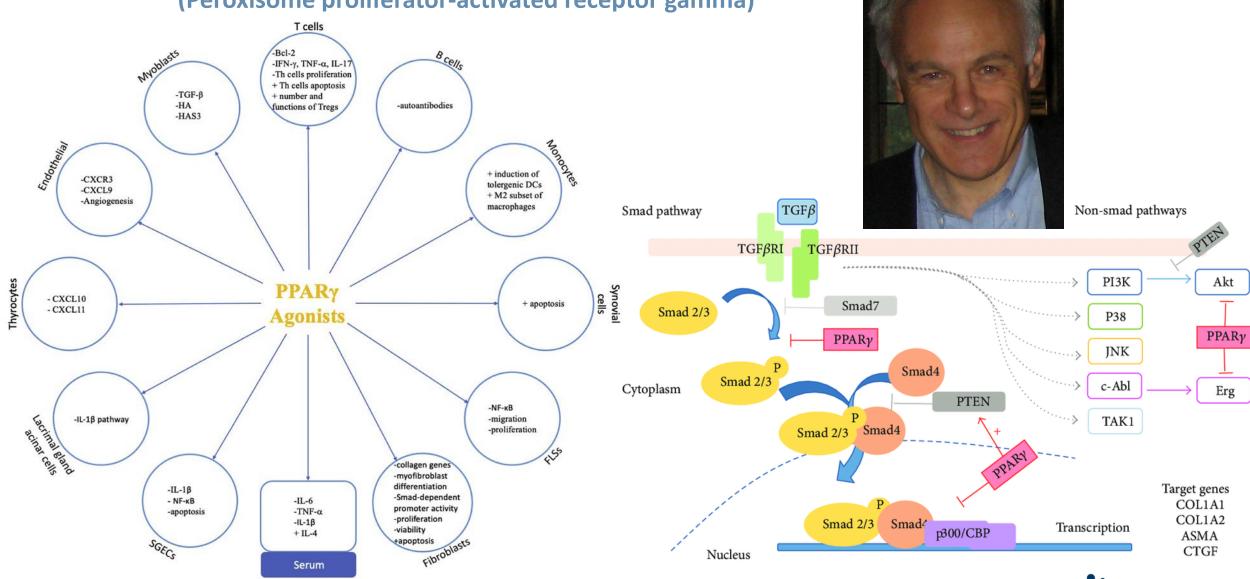


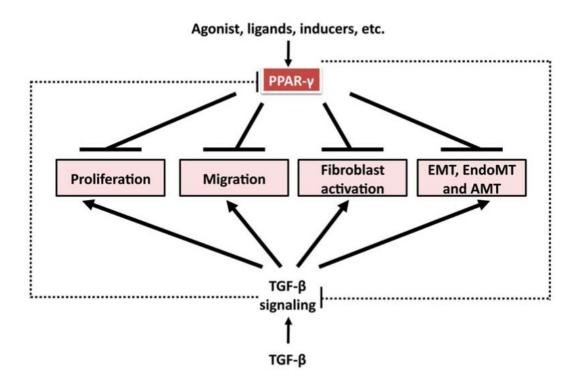




AGONISTAS DE PPAR-GAMMA

(Peroxisome proliferator-activated receptor gamma)









PPARγ agonistas

Lanifibranor (iva 337)

	800mg lanifibranor	1200mg lanifibranor	Placebo
Number of patients	49	48	48
Mean baseline mRSS (SD1)	18.2 (3.8)	17.8 (3.9)	17.1 (-3.7)
Mean absolute change of mRSS from baseline to week 48 (SD ³)	-3.7 (4.2)	-4.3 (5.0)	-4.9 (4.6)

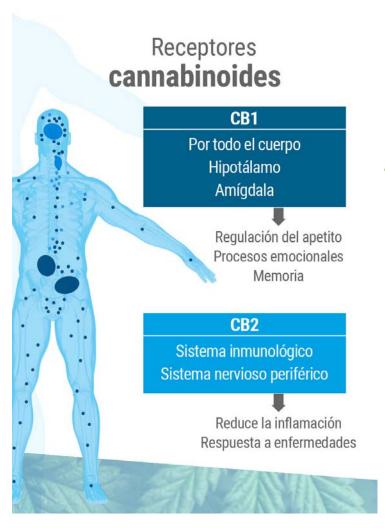


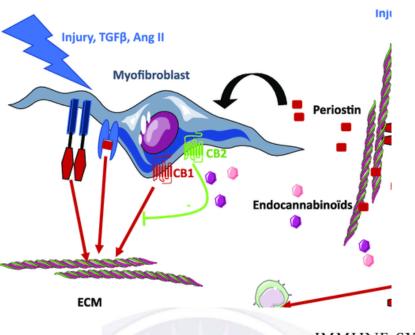
▶ Decision to discontinue further developments in the treatment of Systemic Sclerosis ("SSc")





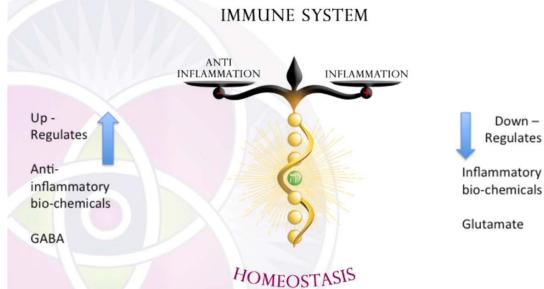
cannabinoides







Raphael Mechoulam







Safety and Efficacy of Lenabasum in a Phase II, Randomized, Placebo-Controlled Trial in Adults With Systemic Sclerosis

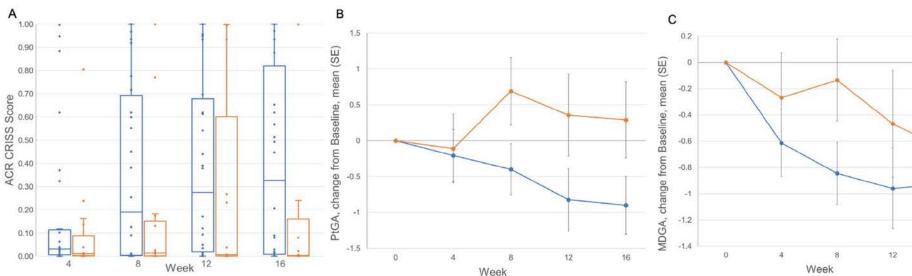
Robert Spiera, 1 Laura Hummers, 2 Lorinda Chung, 3 Tracy M. Frech, 4 Robyn Domsic, 5 Vivien Hsu, 6 Daniel E. Furst, 7 Jessica Gordon, 1 Maureen Mayes, 8 Robert Simms, 9 Robert Lafyatis, 5 Viktor Martyanov, 10 Tammara Wood, 10 Michael L. Whitfield, 10 Scott Constantine, 11 Elizabeth Lee, 11 Nancy Dgetluck, 11 and Barbara White 11

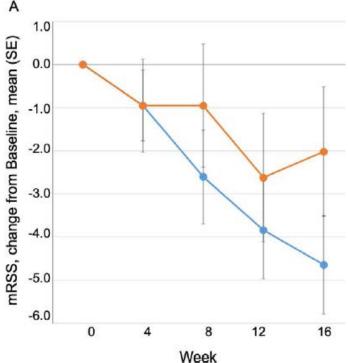
Arthritis & Rheumatology

Vol. 72, No. 8, August 2020, pp 1350-1360



Lenabasum 27 pacientes Placebo 15 pacientes







Índice CRISS (Composite Response Index for clinical trials in Systemic Sclerosis)

- √ Índice compuesto, de mejoría desde el inicio
- ✓ Algoritmo exponencial, ponderado
- ETAPA I: Empeoramiento o nueva aparición de afectación grave puntúa "0".
 Específicamente:
 - ✓ Nueva crisis renal
 - ✓ Disminución FVC ≥ 15% y/o nueva EPID
 - ✓ Nueva disfunción VI (FEVI ≤ 45%)
 - ✓ Nueva HAP confirmada por cateterismo
- ✓ ETAPA 2: Para los pacientes que no son "0" en la etapa I, se calcula la probabilidad de mejoría mediante una ecuación compleja, que incluye los siguientes parámetros:
 - ✓ Cambio en el mRSS (piel)
 - ✓ Cambio en la FVC (pulmón)
 - ✓ Cambio en la evaluación global del médico
 - ✓ Cambio en la evaluación global del paciente
 - ✓ Cambio en el HAQ



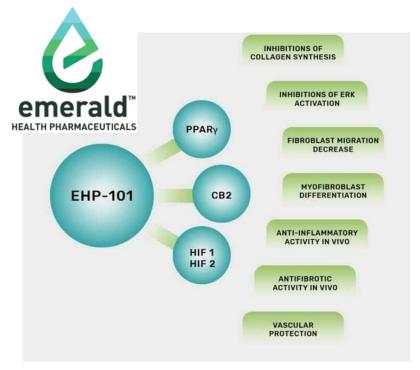
RESOLVE-1, a Phase 3 Trial of Lenabasum, a CB2 Agonist, for the Treatment of Diffuse Cutaneous Systemic Sclerosis

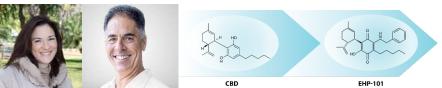
ClinicalTrials.gov Identifier: NCT03398837

	Outcome	Lenabasum 20 mg BID $N = 100$	Lenabasum 5 mg BID N = 113	Placebo BID N = 115	eular
	Primary				EUROPEAN CONGRESS OF RHEUMATOLOGY
	ACR CRISS Step $1 = 0$	n = 1, 1 ILD	N = 4, 1 CHF, 3 ILD	N = 4, 1 renal crisis, 3 ILD	RHEUMATOLOGY 2021 2-5 JUNE
	ACR CRISS score, median (IQR)	0.8880 (0.9360)	0.8270 (0.9180)	0.8870 (0.0710, 0.9990)	
	P-value - Ranked Score, MMRM	0.4972	0.3486		_
					CUDDIIC)
	Secondary				COUDO
	Change in mRSS, mean (SD)	-6.7 (6.59)	-7.1 (6.24)	-9.1 (7.72)	PHARMACEUTICALS
	Change in HAQ-DI, mean (SD)	-0.133 (0.4363)	-0.060 (0.3917)	-0.127 (0.4677)	1
	Change in FVC, %, L, mean (SD)	-1.602 (6.9106)	-2.248 (6.2099)	-0.993 (8.6840)	
4 —				■ Lenabasum 20 mg BID, N = 38 ■ Place	cebo, N = 26
		Nominal $P = 0.039$ Week 52, 2-sample t-test	70%	64%	
2 +			60%	6	Nominal P = 0.035
0 🔶		N = 38	50%	50%	Week 52, Fisher's exact test
E -2 +					
S) L			% 40% \$1	35%	
2 - 0 -2		N = 26	Subjects,	6	
Ĕ ₋₆			∽ 20%	19%	17% 15%
		' T '			15%
-4 - -6 - -8 -	Lenabasum 20 mg BID		10%	6	
-10 [⊥]	Placebo		0%		Incompany 50
0	4 8 12 16 20 24 28 32	36 40 44 48 52		Decline > 5% Stability within 5% Categories of change in FVC % predicted, re	
	Weeks			Week 52	NUEVOS AVANCES EN REUMATOLO

Córdoba 28-02-2023

VCE 004.8 / EHP-101





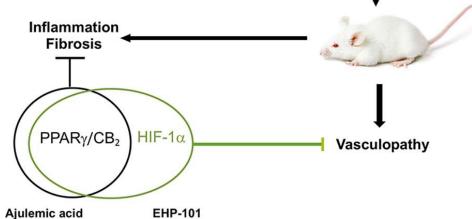






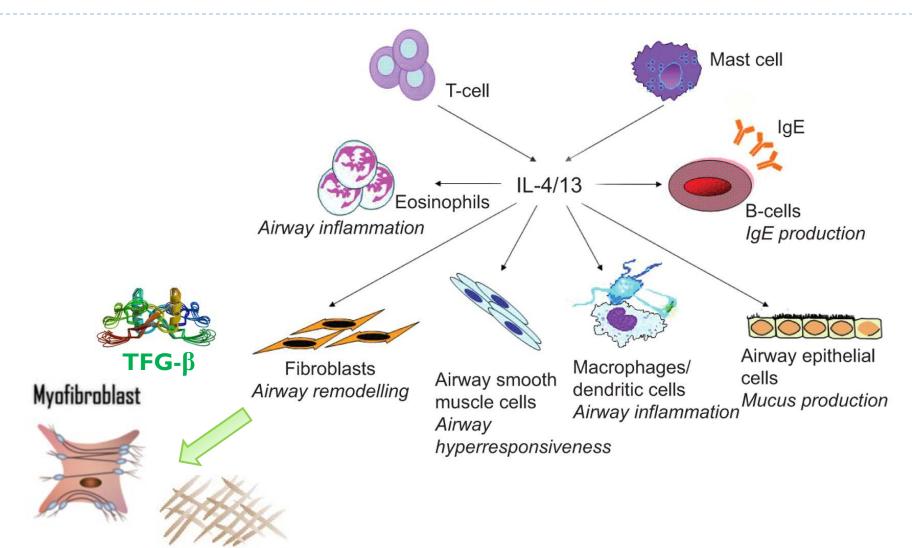


Bleomycin

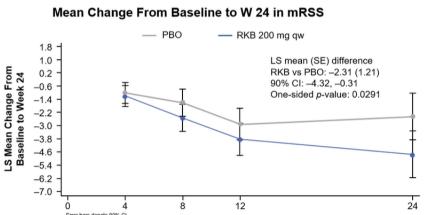




IL-4 / 13 en fibrosis





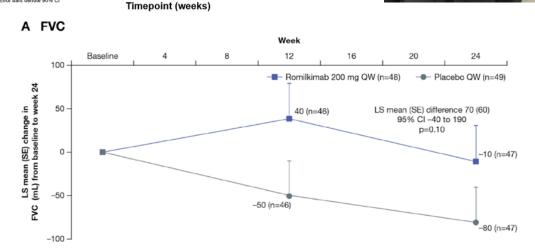


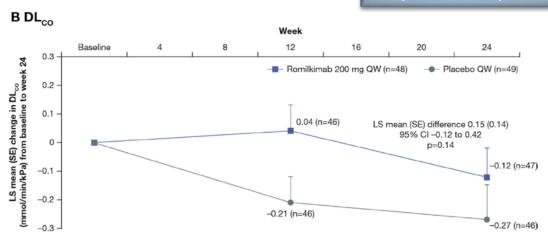


A randomised, double-blind, placebo-controlled, 24week, phase II, proof-of-concept study of romilkimab (SAR156597) in early diffuse cutaneous Ann Rheum Dis 2020; systemic sclerosis

Yannick Allanore , ¹ Peter Wung, ² Christina Soubrane, ³ Corinne Esperet, ³ Frederic Marrache, ⁴ Raphael Bejuit, ⁵ Amel Lahmar, ⁶ Dinesh Khanna , ⁷ Christopher P Denton , ⁸ On behalf of the Investigators

47 pacientes romilkimab 47 pacientes placebo





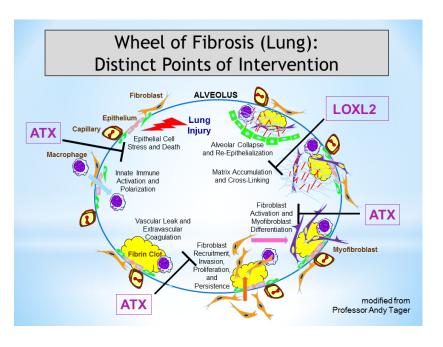
Baseline FVC (% predicted)

Mean (SD)	89.5 (15.8)	96.1 (17.4)
Median (range)	91.9 (48–127)	97.3 (54–127)
Baseline DL _{co} (% haemoglobin corrected)		
Mean (SD)	66.5 (14.6)	72.4 (14.2)
Median (range)	67.3 (38–102)	72.7 (39–102)



SANOFI

Autotaxina en la fibrosis pulmonar



- ✓ Pfizer Pizer
- ✓ Mitsubishi Tanabe Pharma



- ✓ Biogen Biogen



✓ Novartis

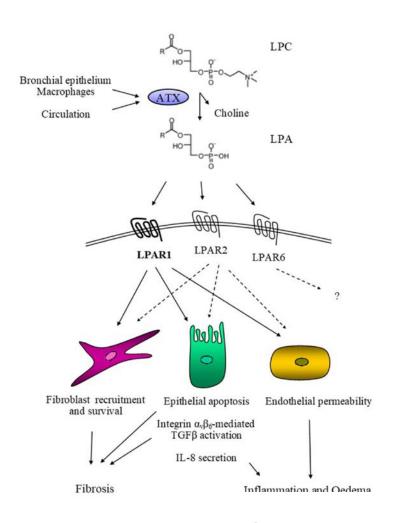


√ Galapagos





- ✓ ONO Pharmaceuticals
- ✓ Janssen Biotech Janssen





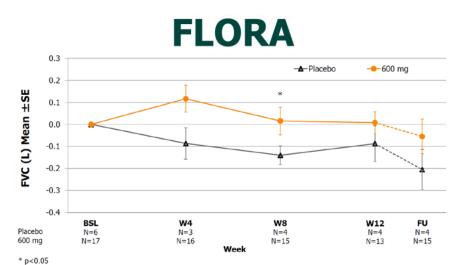
Safety, tolerability, pharmacokinetics, and pharmacodynamics of GLPG1690, a novel autotaxin inhibitor, to treat idiopathic pulmonary fibrosis (FLORA): a phase 2a randomised placebo-controlled trial

Lancet Respir Med 2018; 6: 627–35





Toby M Maher, Ellen M van der Aar, Olivier Van de Steen, Lisa Allamassey, Julie Desrivot, Sonia Dupont, Liesbeth Fagard, Paul Ford, Ann Fieuw, Wim Wuyts



	Wk4 Wk8		Wk12		Follow-up			
	Placebo	'1690	Placebo	'1690	Placebo	'1690	Placebo	'1690
FVC (Δ baseline, mL)	-87	+116	-140	+15	-87	+8	-205	-55



ClinicalTrials.gov Identifier: NCT03976648





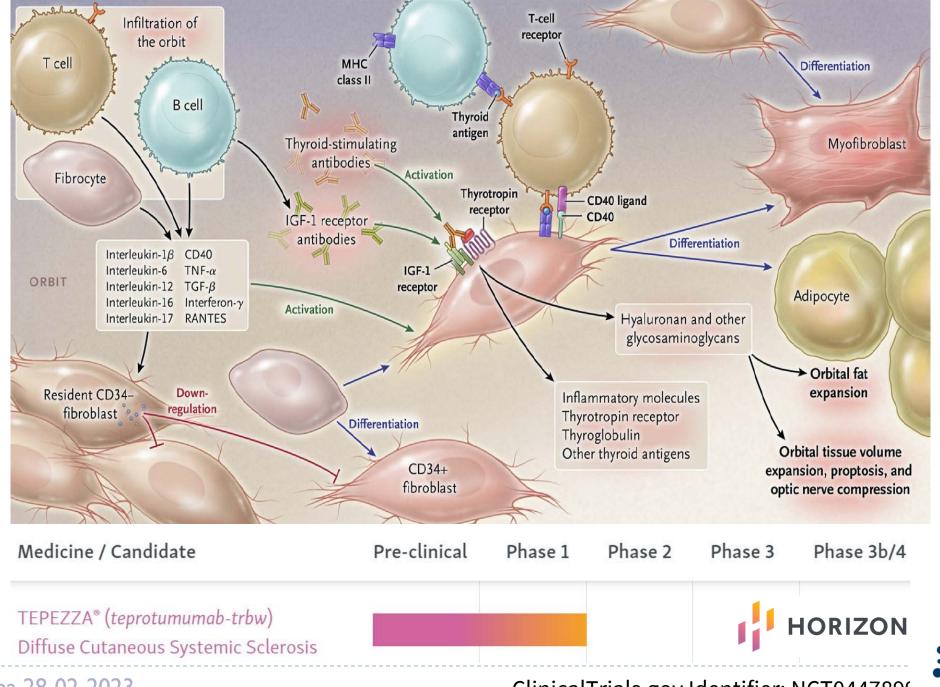


Galapagos and Gilead discontinue ISABELA Phase 3 trials in IPF

Foster City, CA and Mechelen, Belgium, 10 February 2021, 15.00 CET; regulated informa

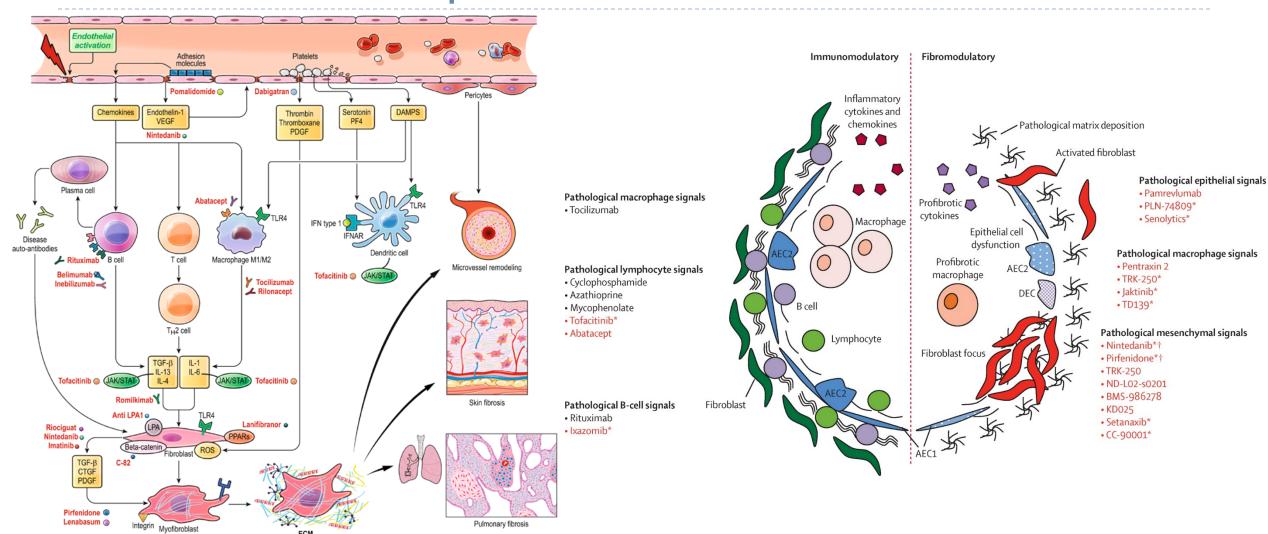








Nuevas terapias en esclerosis sistémica





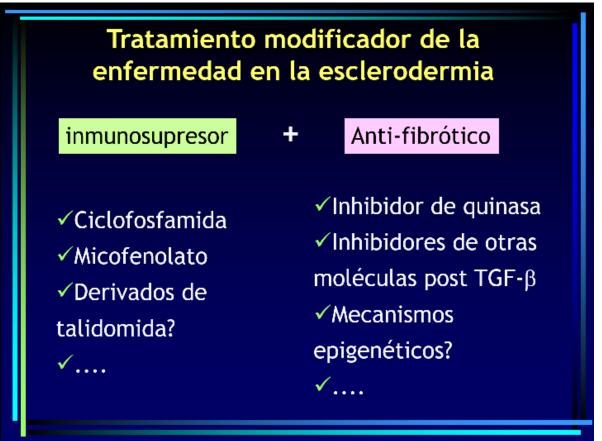
Collagen, fibronectin, periostin, tenascin-C and hyaluronic acid

conclusiones

- Los antifibróticos han llegado para quedarse (en la esclerosis sistémica y en otras enfermedades con fibrosis: AR, miopatías, etc)
- Es muy posible que los antifibróticos se utilicen asociados a tratamientos inmunosupresores / antiinflamatorios de forma habitual
- Al igual que ocurre en otras enfermedades inflamatorias y autoinmunes crónicas, es probable que el tratamiento precoz (con inmunosupresores y antifibróticos combinados) sea capaz de modificar el curso de la enfermedad







Zaragoza, Congreso SER, mayo 2012







for rare or low prevalence complex diseases

Network

Connective Tissue and Musculoskeletal Diseases (ERN ReCONNET)

Member

University Hospital 12 de Octubre — Spain



