ACR 2017 San Diego

Highlights in Systemic Sclerosis

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Επιμελητής Ρευματολογικής Κλινικής
251 ΓΝΑ

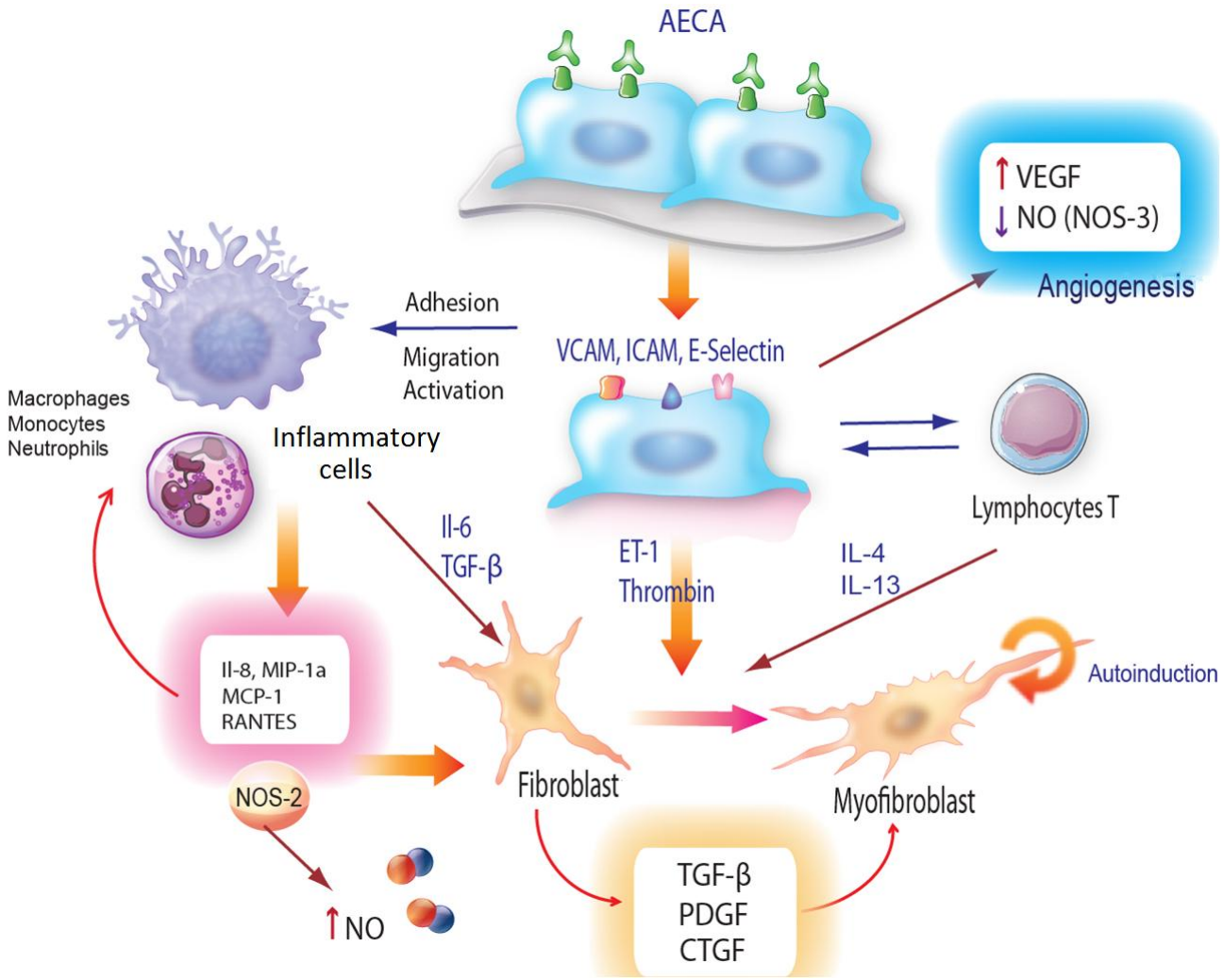
Σύγκρουση Συμφερόντων

Καμία για αυτή την παρουσίαση

Τι ειπώθηκε στο ACR meeting για το Σκληρόδερμα

- Παθοφυσιολογία (Basic science)
- Γενετική (Genetics)
- Κλινική πρακτική (Clinical Practice)
- Θεραπεία (Treatment)
- Μελλοντικοί στόχοι (what’s next..?)

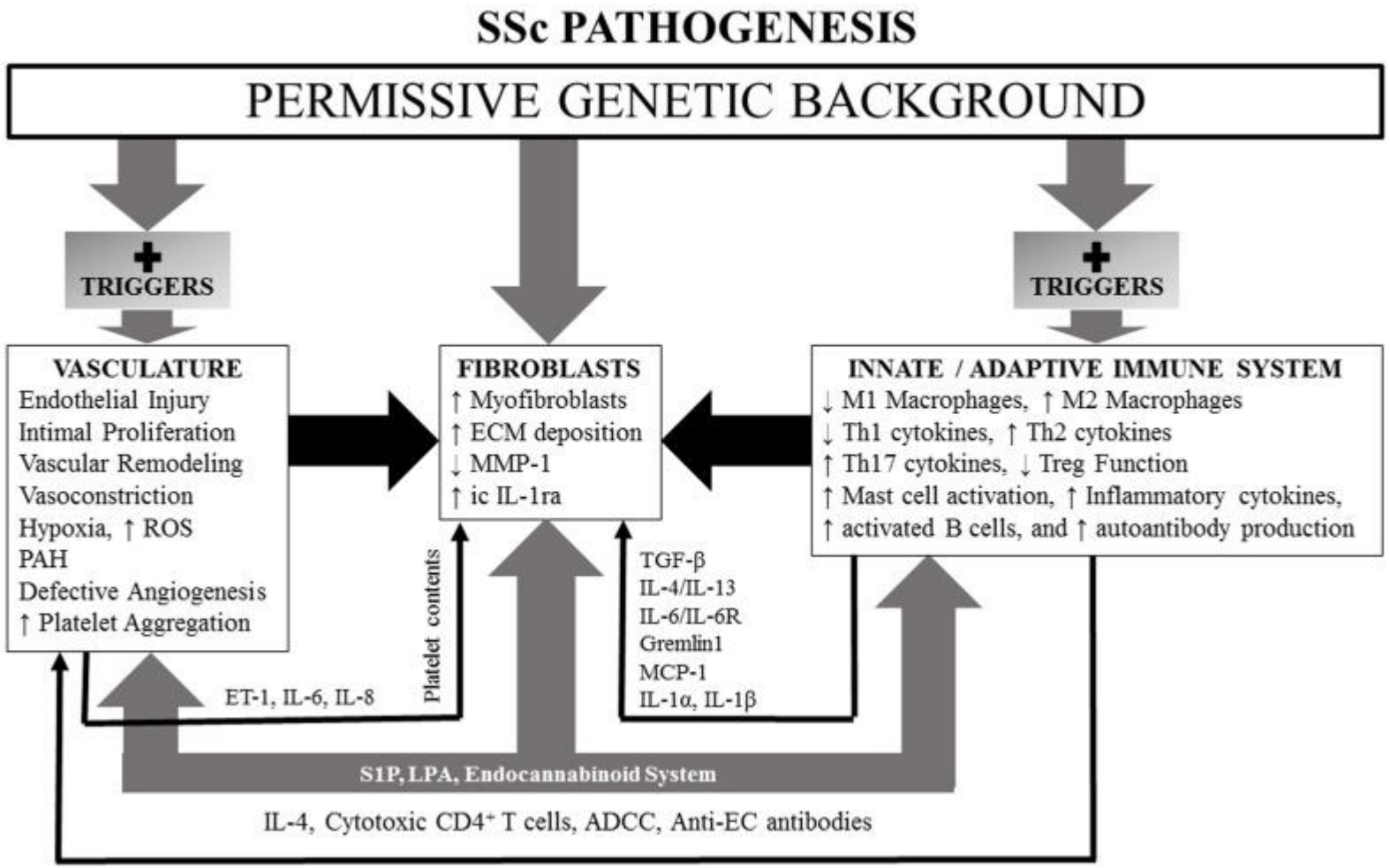
Παθοφυσιολογία στο Σκληρόδερμα



Mediators	Role in fibrogenesis
CTGF	Regulation of fibroblast proliferation and migration
ET-1	Regulation of ECM production and contraction
FGF	Regulation of fibroblast growth
IL-1	Inflammatory mediator
IL-4	Regulation of collagen synthesis
IL-6	Regulation of α-SMA expression in myofibroblasts
IL-10	Anti-inflammatory mediator; lymphocyte B proliferation
IL-12	Regulation of collagen synthesis
IL-13	Induction of TGF-β
IL-17	Fibroblast proliferation
MCP-1	Inflammatory mediator; regulation of collagen synthesis
MCP-3	Regulation of collagen synthesis
PDGF	Induction of TGF-β receptor expression; Recruitment of progenitor cells and fibroblasts
TGF-β	Extracellular matrix (ECM) synthesis; Fibroblast proliferation, activation, and migration
TNF-α	Lymphocyte recruitment, pro-inflammatory et anti-fibrotic effects

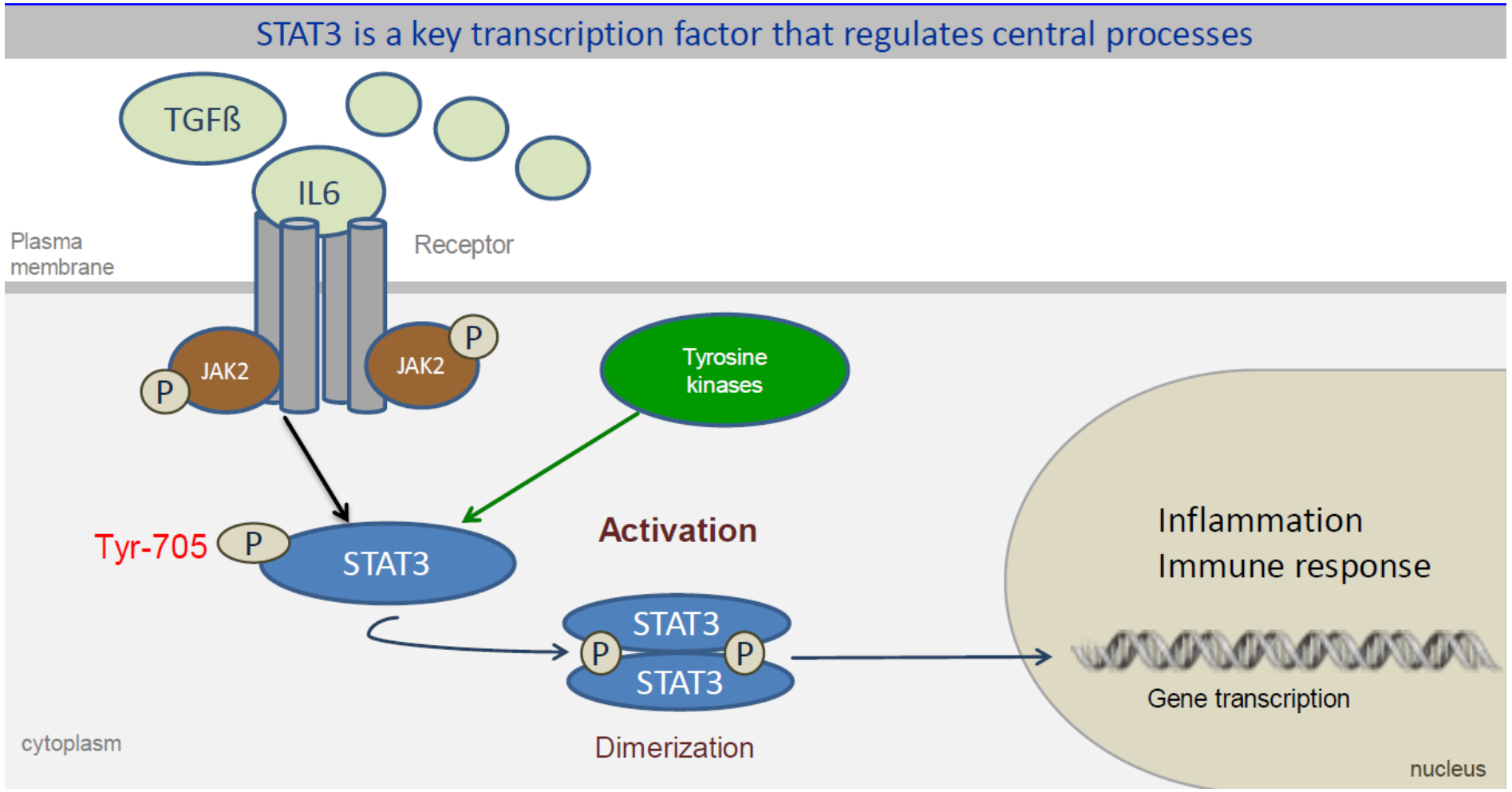
Cellular and molecular mechanisms in the pathophysiology of systemic sclerosis. Hua-Huy T, Dinh-Xuan AT Pathol Biol (Paris). 2015 Apr

Παθοφυσιολογία



Pattanaik D, Brown M, Postlethwaite BC and Postlethwaite AE (2015) Pathogenesis of systemic sclerosis. Front. Immunol. 6:272

STAT3 και «ενεργοποιητές»



‘Ινωση

- AB1730: *IL-6* upregulates expression of IL-4Ra, and stimulation of SSc monocytes with IL-4/IL-13 results in enhanced CCL2 expression in an IL-6-dependent manner
- AB1725: *IGFBP-4* exerts anti-fibrotic effects by reducing the levels of CXCR4 and pro-fibrotic factor CTGF. Reduced IGFBP-4 levels in SSc lung fibroblasts may contribute fibrotic phenotype
- AB1718: *Peripheral blood monocytes* are able to differentiate to the functional myofibroblast phenotype (potential sources of pathological tissue myofibroblasts in SSc) with sustained pro-fibrotic cytokines secretion
- AB1716: *XIAP* is upregulated in SSc fibroblasts in a TGFβ-dependent manner and promotes fibroblast activation by fostering *canonical WNT signaling*
- AB1924: *RORα* as a key checkpoint of TGF-β- and WNT- induced fibroblast activation

Αγγειακή Βλάβη - Αυτοφαγία

- AB761: Increased Expression of *LIGHT/TNFSF14* and Its Receptor (TNFRSF14) in Patients with Systemic Sclerosis → seem to reflect vascular injury in SSc

- AB1926: *The TGFβ/fra-2 axis regulates the autophagy process*, leading in turn to stromal-to-myofibroblast transition
- AB1925: *Epigenetic control of autophagy is disturbed* by a TGFβ-dependent downregulation of MYST1 in SSc and promotes fibroblast-to-myofibroblast transition and tissue fibrosis

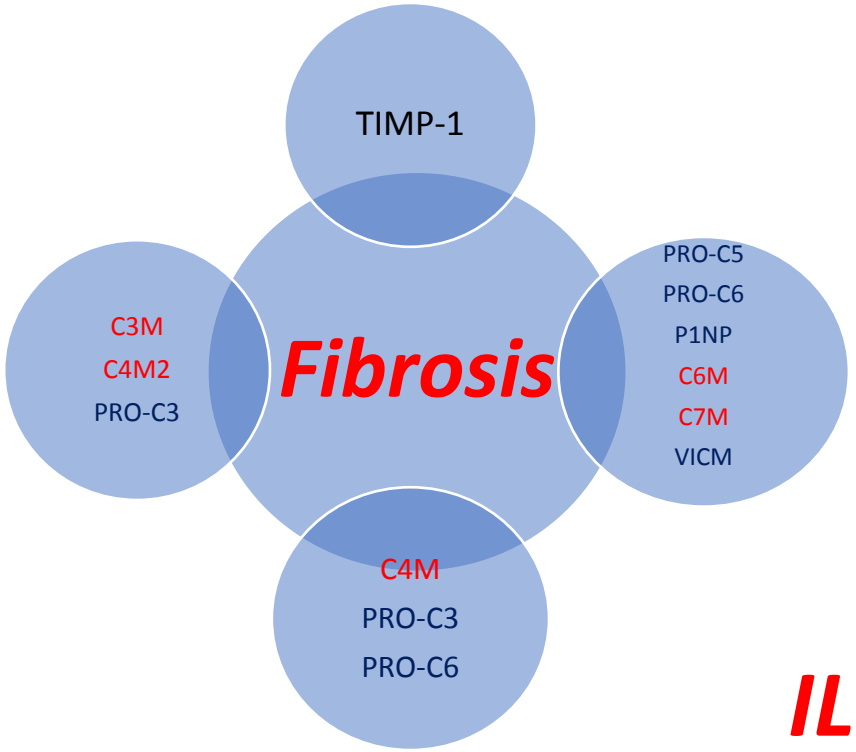
Γενετική

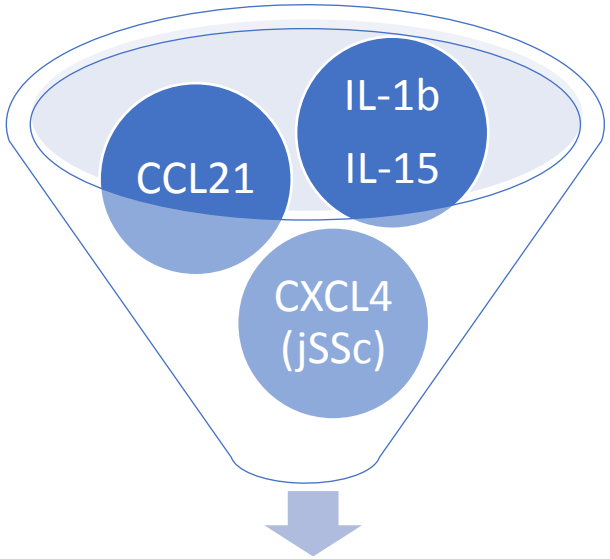
- AB1727: *Hypomethylation of type I IFN-associated genes* may be involved in the pathogenesis of SSc
- AB1713: *CTNND2 and GPATCH2L genes* identified as candidates for investigation of SRC aetiopathogenesis (antiRNA polymerase III related)
- AB754: Numerous *ISGs* are differentially overexpressed in SSc pulmonary microvascular EC, suggesting that events leading to an *interferon response* in these cells may play a role in the pathogenesis of SSc lung vasculopathy

Κλινική Πρακτική- Μετρολογία

ACR 2017 Abstract	Δείκτης	Κοορτή	Στόχος/Σκοπός Μελέτης	Αποτέλεσμα
726 2981	CRISS (mRSS,FVC%,HAQ-DI,PT&MD GA)	SLS-(134p) FaSScinate	CYC vs PLB in ILD TCZ vs PLB in Skin (FaSScinate)	Can discriminate (caution on GA)
728	COMPASS-31 (autonomic dysfunction)	J.Hopkins (104p)	Compare according to type of SSc and Abs	GI most important irrespective of type/Abs
734	CRISS (mRSS,FVC%,HAQ-DI,PT&MD GA)	Italy (31p)	Relate CRISS to biomarkers (TIMP-1, PIIINP, HA)	TIMP-1 higher baseline in CRISS responders
735	CPET (cardiopulmonary exercise) (+DETECT)	Italy (39p)	CPET in DETECT eligible for RHC patients	reduce useless invasive RHC (39 to 17), without increasing missed diagnosis rate
1676	mRSS	Retrospect (61p)	Compare finger mRSS to “fingerless” mRSS	“fingerless” mRSS correlates better to change
2662	ScleroID	Multicenter (224p)	Compare ScleroID to SHAQ, EQ5D, SF36	Raynaud, hand function and fatigue: main patient reported drivers of disease impact

Κλινική Πρακτική– Πρόγνωση – Πιθανοί Βιοδείκτες





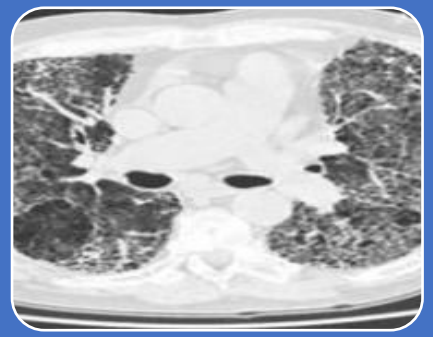
PAH

ILD

- the integrin αvβ3-specific 177Lu-c(RGDfK)-ligand
- the FR-β-specific 18F-Azafol
- the SSTR2-specific 177Lu-DOTA-NOC

18F-FDG-PET and pulmonary CT scan

Κλινική Πρακτική – Θεραπεία: ILD / PAH



ILD

- Rituximab (iRTX- "Graz Protocol") [RTX,500mgx2/3m→500mgx1/3m] → DLCO(~), EScSG(+),mRSS(-)
- Cyclophosphamide pos (SLS I,II) → Δεν διατηρείται το αποτελέσμα μετά τη διακοπή
- Tacrolimus (single center, retrospective)→ TAC+χαμηλή δόση ΚΣ μετά CYC διατήρησε την ανταπόκριση σε DLCO,FVC χωρίς σοβαρές ανεπιθυμ. ενεργ.

PAH

- Δεξιά καρδιακή ανεπάρκεια (baseline)→ PAH → αυξημένη θνησιμότητα (απαίτηση για εντατικόποίηση της θεραπείας)
- DETECT follow-up → 40% (1y) PAH επιδεινώθηκε παρά τη θεραπεία – Συσχέτιση της επιδείνωσης με: PFT, Λειτουργική χωρητικότητα, άρρεν φύλο

Κλινική Πρακτική – Θεραπεία: Δέρμα/Μυοπάθεια

Δέρμα

Tadalafil

ABSTRACT NUMBER: 2885

Tadalafil Reduces Skin Fibrosis and Profibrotic Genes Expression in Patients with Systemic Sclerosis

Sakir Ahmed, Mohit Kumar Rai, Durga Prasanna Misra and Vikas Agarwal, Clinical Immunology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

Meeting: 2017 ACR/ARHP Annual Meeting

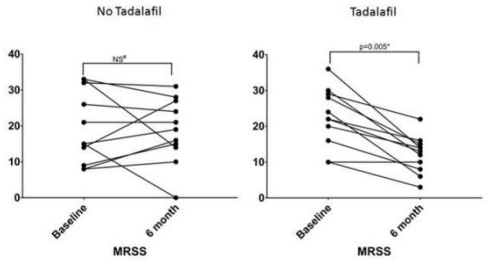


Figure1: MRSS in patients not receiving and receiving Tadalafil
*Wilcoxon Signed rank (*NS-Not Significant)

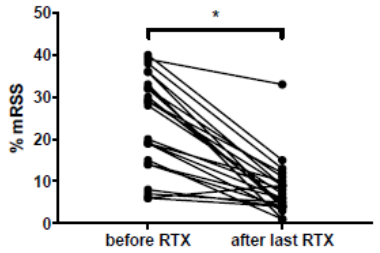
Rituximab

ABSTRACT NUMBER: 2886

Safety and Efficacy of Long-Time Intensified Rituximab Treatment in Patients with Systemic Sclerosis

Hans-Peter Brezinschek[1], Sonja Kielhauser[2], Winfried Graninger[3] and Florentine Moazedi-Fürst[2], [1]Internal Medicine/Division of Rheumatoloy and Immunology, Rheumatology and Immunology, Medical University Graz, Austria, Graz, Austria, [2]Rheumatology and Immunology, Medical University Graz, Austria, Graz, Austria, [3]Rheumatology and Immunology, Medical University of Graz, Graz, Austria

Meeting: 2017 ACR/ARHP Annual Meeting



Μυοπάθεια

ASCS Algorythm

ABSTRACT NUMBER: 948

Application of a Diagnostic Algorithm to Identify Inflammatory Myopathy in Systemic Sclerosis

Vandana Bhushan[1,2], Adam Maundrell[1], Charlotte Proudman[1,2], Leah McWilliams[1], Llew Spargo[1], Robert Metcalf[1], Jennifer Walker[3], Mandana Nikpour[4,5], Wendy Stevens[4], Vidya Limaye[1,2] and Susanna Proudman[1,2], [1]Rheumatology Unit, Royal Adelaide Hospital, South Australia, Adelaide, Australia, [2]Discipline of Medicine, University of Adelaide, South Australia, Adelaide, Australia, [3]Flinders University of South Australia, Adelaide, Australia, [4]St Vincent's Hospital, Melbourne, Victoria, Melbourne, Australia, [5]Department of Medicine, University of Melbourne, Victoria, Melbourne, Australia

Meeting: 2017 ACR/ARHP Annual Meeting

Συνδυασμός MSA+MRI → 4πλασια πιθανότητα για θετική βιοψία μυός

IVIG (+CS)

ABSTRACT NUMBER: 2888

Corticosteroid-Sparing Benefit of Intravenous Immunoglobulins in Systemic Sclerosis-Associated Inflammatory Myopathy: A Retrospective Study of 54 Patients

Benjamin Chaigne[1], Simao Rodeia[2], Nouria Benmostefa[2,3,4], Alice Bérezné[5], Pascal Cohen[6], Alexis Regent[7], Benjamin Terrier[6], Nathalie Costedoat-Chalumeau[8], Loïc Guillevin[9], Claire Le Jeunne[6] and Luc Mouthon[10], [1]Service de Médecine Interne, Centre de Référence Maladies Systémiques Autoimmunes Rares d'Ile de France, hôpital Cochin, DHU Authors, Assistance Publique-Hôpitaux de Paris, Paris, France, [2]Service de Médecine Interne, Centre de Référence Maladies Systémiques Autoimmunes Rares d'Ile de France, hôpital Cochin, Assistance Publique-Hôpitaux de Paris, Paris, France, [3]Service de Médecine Interne CHU de Sétif, Algérie, Sétif, Algeria, [4]Faculté de Médecine, Université de Sétif 1, Sétif, Algeria, [5]Internal Medicine, National Referral Center for Rare Systemic Autoimmune Diseases, Hôpital Cochin, Paris, France, [6]Service de Médecine Interne, Hôpital Cochin, Centre de référence national pour les maladies systémiques autoimmunes rares d'Ile de France, DHU Authors, Assistance Publique-Hôpitaux de Paris (AP-HP), Paris, France, Paris, France, [7]National Referral Center for Rare Systemic Autoimmune Diseases, Hôpital Cochin, AP–HP, Université Paris Descartes, Paris, France, [8]Service de médecine interne Pôle médecine, Hôpital Cochin, Centre de référence maladies auto-immunes et systémiques rares de l'Ile de France, Paris, France, [9]Internal medicine, Cochin University Hospital, paris, France, [10]Service de Médecine Interne, Hôpital Cochin, Centre de référence national pour les maladies systémiques autoimmunes rares d'Ile de France, DHU Authors, Assistance Publique-Hôpitaux de Paris (AP-HP), Paris, France ;Université Paris Descartes Sorbonne Paris, Paris, France

Meeting: 2017 ACR/ARHP Annual Meeting

Ασθενείς σε θεραπεία με IVIG μπόρεσαν να απογαλακτιστούν ευκολότερα και γρηγορότερα από τα ΚΣ

Κλινική Πρακτική– Θεραπεία: Νεφρική κρίση/Raynaud/ΓΟΠΝ

ABSTRACT NUMBER: 750

Diltiazem Gel As a New Local Treatment for Scleroderma Digital Ulcers

Mohammad Ali Nazarinia[1], Elmira Esmaeilzadeh[2] and Saeedeh Shenavandeh[2], [1]Shiraz Geriatric Research Center, Shiraz University of Medical Sciences, Shiraz, Iran, Shiraz, Iran (Islamic Republic of), [2]Department of Internal Medicine, Division of Rheumatology, Shiraz University of Medical Sciences, Shiraz, Iran., Shiraz, Iran (Islamic Republic of)

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 2889

Aminaphtone Ameliorates Clinical Symptoms and Increases Skin Blood Perfusion in Patients with Both Primary and Secondary Raynaud Phenomenon: A Six-Month Open Study

Alberto Sulli[1], Maurizio Cutolo[2], Carmen Pizzorni[2], Sabrina Paolino[2], Elisa Alessandri[2], Emanuele Gotelli[2] and Barbara Ruaro[2], [1]Research Laboratory and Academic Division of Clinical Rheumatology, Department of Internal Medicine, University of Genova, IRCCS San Martino, Genoa, Italy, Genova, Italy, [2]Research Laboratory and Academic Division of Clinical Rheumatology, Department of Internal Medicine, University of Geno… San Martino, Genoa, Italy, Genoa, Italy

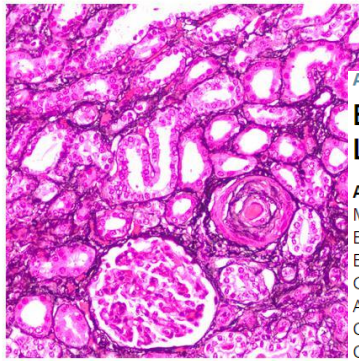
Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 1686

Topical Nitroglycerine (NTG) Vs Matching Vehicle in Secondary Raynaud Phenomenon (RP) – a Double-Blind Crossover Study of Subjective and Physiologic Responses to Controlled Cold Challenge

Dinesh Khanna[1], Lorele Mendez[2], Rajaie Namas[3], Mary Ellen Csuka[4], Paul Caldron[5], Jerry A. Molitor[6], Alan J. Kivitz[7], Philip Waller[8], Lee Shapiro[9], Sabeen Najam[10], Amber Khan[11], Virginia D. Steen[12], Aneureka Chadha[13] and James R Seibold[14], [1]University of Michigan, Ann Arbor, MI, [2]Medical Research Center of Miami, Miami, FL, [3]Department of Medicine [Division of Rheumatology], University of Michigan, Ann Arbor, MI, [4]Medicine, Medical College of Wisconsin, Milwaukee, WI, [5]Arizona Arthritis & Rheumatology Research PLLC, Phoenix, AZ, [6]Rheumatic & Autoimmune Diseases, University of Minnesota, Minneapolis, MN, [7]Altoona Center for Clinical Research, Duncansville, PA, [8]Accurate Clinical Research Inc, Houston, TX, [9]Rheumatology, Albany Medical C… Albany, NY, [10]Accurate Clinical Management LLC, Baytown, TX, [11]Accurate Cli… Management LLC, Houston, TX, [12]Division of Rheumatology, Department of … MedStar Georgetown University Hospital, Washington, DC, [13]Austin Regiona… Austin, TX, [14]Scleroderma Research Consultants LLC, Litchfield, CT

Meeting: 2017 ACR/ARHP Annual Meeting



ABSTRACT NUMBER: 2671

Bosentan in Scleroderma Renal Crisis: A National Open Label Prospective Study

Alice Bérezné[1,2], Hendy ABDOUL[3], Alexandre Karras[4], Isabelle Marie[5], Antoine Huart[6], Maxence Ficheux[7], Viviane Queyrel[8], Bernard Imbert[9], Xavier Puéchal[1], Arnaud Hot[10], Boris Bienvenu[11], Elisabeth Diot[12], Bruno Moulin[13], Thomas Quémeneur[14], Jean-Emmanuel Kahn[15], Luc Mouthon[1] and Loïc Guillevin for the French Vasculitis Study Group[1], [1]Service de Médecine Interne, Centre de Référence Maladies Auto-Immunes et Auto-Inflammatoires Systémiques Rares, Hôpital Cochin, Paris, France, [2]Centre de Compétence Maladies Auto-Immunes et Auto-Inflammatoires Systémiques Rares, Centre de Compétence Eosinophiles CEREO, Hôpital Annecy Genevois, Anency, France, [3]Centre d'investigation Clinique Paris Descartes, Necker–Cochin, Paris, Unité de Recherche Clinique, paris, France, [4]Nephrology, HEGP, Paris, France, [5]Internal medicine, Hôpital Bois Guillaume, ROUEN, France, [6]Nephrology, Hôpital Rangueil, Toulouse, France, [7]Nephrologie, Hôpital Clémenceau, CAEN, France, [8]Internal medicine, Hôpital de l'Archet, NICE, France, [9]Grenoble, Grenoble, France, [10]Department of Internal Medicine, Edouard Herriot University Hospital, Hospices Civils de Lyon, Lyon cedex 03, [11]Internal Medicine, Hôpital de la côte de Nacre, Caen, France, [12]Pôle mé… …cine… …ne et gériatrique, pneumologie, Hôpital Bretonneau, Tours, France, [13]Neph… …gy… …tal Civil, STRASBOURG, France, [14]Service de néphrologie, médecine interne… Hôpital de Valenciennes, Valenciennes, France, [15]foch hospital, foch, Fra…

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 1677

Low Baseline Impedance in Proximal Esophagus and Decreased Pspw Index May Related with Pathogenesis of Interstitial Lung Disease in Systemic Sclerosis

Yunseok Kim[1], **Hyun-Sook Kim**[2], Joon Seong Lee[1] and Jung Ran Choi[3], [1]Internal medicine, Soonchunhyang university Seoul hospital, Seoul, Korea, Republic of (South), [2]Soonchenhyang university school of medicine, Seoul, Korea, Republic of (South), [3]Department of Internal Medicine, Pohang St. Mary Hospital, Pohang, Korea, Republic of (South)

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 2676

Reduction of Dlco and FVC in Patients with GERD and Systemic Sclerosis

Rodrigo Aguila Maldonado[1], Pierina Sansinanea[2], Claudia Elizabeth Pena[1], Ana Carolina Costi[1], Ariel Vulcano[2], Adriana Testi[2], Mariana Pera[3], Lucila García[2], Valeria Arturi[3], Viviana Nagua[2] and Mercedes Garcia[1], [1]Rheumatology, HIGA General San Martin La Plata, La Plata, Argentina, [2]Rheumatology, HIGA General San Martin La Plata, la plata, Argentina, [3]HIGA General San Martin La Plata, la plata, Argentina

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 1678

Pathogenic Mechanisms of Esophageal Peristaltic Dysfunction By High Resolution Manometry in Patients with Systemic Sclerosis

Hyun-Sook Kim[1], Yunseok Kim[2], Jung Ran Choi[3] and Joon Seong Lee[2], [1]Soonchenhyang university school of medicine, Seoul, Korea, Republic of (South), [2]Internal medicine, Soonchunhyang university Seoul hospital, Seoul, Korea, Republic of (South), [3]Department of Internal Medicine, Pohang St. Mary Hospital, Pohang, Korea, Republic of (South)

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 2684

Regional and Whole Gut Transit Times in Patients with Systemic Sclerosis Using the Wireless Motility Capsule

Neetu Bali[1], Isela Valera[2], Aly Aly[3], Jeffrey Conklin[4], Daniel E. Furst[5] and **Suzanne Kafaja**[6], [1]Pediatric Gastroenterology, Hepatology, and Nutrition, David Geffen School of Medicine at UCLA, Los Angeles, CA, [2]Autoimmunity and Tolerance Laboratory, Division of Rheumatology, Department of Medicine, David Geffen School of Medicine at University of California Los Angeles, Los Angeles, CA, [3]Chamblion St., Alexandria Faculty of Medicine, Alexandria, Egypt, [4]Medicine, Division of Digestive Diseases at UCLA, Los Angeles, CA, Los Angeles, CA, [5]David Geffen School of Medicine at UCLA, Los Angeles, CA, [6]Department of Internal Medicine, University of California Los Angeles, David Geffen School of Medicine, Division of Rheumatology, Los Angeles, CA

Meeting: 2017 ACR/ARHP Annual Meeting

Connection between GERD, ILD, autonomic dysfunction and fibrosis ??

Or…not!

Κλινική Πρακτική – Τι θα δούμε στο μέλλον;

ABSTRACT NUMBER: 1707

Effect of Anabasum (JBT-101) on Gene Expression in Skin Biopsies from Subjects with Diffuse Cutaneous Systemic Sclerosis (dcSSc) and the Relationship of Baseline Molecular Subsets to Clinical Benefit in the Phase 2 Trial

Viktor Martyanov[1], Yolanda Nesbeth[2], Guoshuai Cai[1], Tammara A. Wood[1], Jake Reder[2], Scott Constantine[3], Barbara White[3], Robert F. Spiera[4] and Michael L. Whitfield[1], [1]Department of Molecular and Systems Biology, Geisel School of Medicine at Dartmouth, Hanover, NH, [2]Celdara Medical, LLC, Lebanon, NH, [3]Corbus Pharmaceuticals, Inc., Norwood, MA, [4]Rheumatology, Hospital for Special Surgery, New York, NY

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 1711

SIRT1 May Protect Against Systemic Sclerosis-Related Pulmonary Fibrosis By Decreasing Pro-Inflammatory and Pro-Fibrotic Processes

Haiyan Chu[1], Shuai Jiang[2], Qingmei Liu[3], Feng Qian[4], Xiaodong Zhou[5], Maureen D. Mayes[6], Li Jin[7] and **Jiucun Wang**[8], [1]MOE Key Laboratory of Contemporary Anthropology, State Key Laboratory of Genetic Engineering and Ministry of Education Key Laboratory of Contemporary Anthropology, Collaborative Innovation Center for Genetics and Development, School of Life Sciences, Fudan University, Shanghai, China, [2]State Key Laboratory of Genetic Engineering and Ministry of Education Key Laboratory of Contemporary Anthropology, Collaborative Innovation Center for Genetics and Development, School of Life Sciences, Fudan University, Shanghai, China, [3]State Key Laboratory of Genetic Engineering and Ministry of Education Key Laboratory of Contemporary Anthropology, Collaborative Innovation Center for Genetics and Development, School of Life Sciences, Fudan University, Shanghai, Chile, [4]Ministry of Education Key Laboratory of Contemporary Anthropology, School of Life Sciences, Fudan University, Shanghai, China, [5]Internal Medicine-Rheumatology, University of Texas McGovern Medical School, Houston, TX, [6]University of Texas McGovern Medical School, Houston, TX, [7]State Key Laboratory of Genetic Engineering, Collaborative Innovation Center for Genetics and Development, School of Life Sciences, Fudan University, Shanghai, China, [8]State Key Laboratory of Genetic Engineering, Collaborative Innovation Center for Genetics and Development, School of Life Sciences, Fudan University, Shanghai, CN

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 774

The αV Integrin Inhibitor Abituzumab Inhibits Myofibroblast Differentiation

Eileen Samy[1], Yin Wu[1], Georgianna Higginbotham[2], Roland Grenningloh[2] and Daigen Xu[2], [1]TIP Immunology, EMD Serono Research & Development Institute, Inc. (a business of Merck KGaA, Darmstadt, Germany), Billerica, MA, [2]EMD Serono Research & Development Institute, Inc. (a business of Merck KGaA, Darmstadt, Germany), Billerica, MA

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ABSTRACT NUMBER: 1720

TGF-ß-Induced Tissue Fibrosis in TBRIcaCol1Cre Transgenic Mice Is Abrogated By the Second Generation Tyrosine Kinase Inhibitor SKI-606 (Bosutinib)

Peter J. Wermuth and Sergio A. Jimenez, Jefferson Institute of Molecular Medicine, Division of Connective Tissue Diseases and Scleroderma Center, Thomas Jefferson University, Philadelphia, PA

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 1706

Dipeptidyl-Peptidase-4 (DPP4) Promotes Fibroblast Activation and Is a Potential Molecular Target for Treatment of Fibrosis

Alina Soare[1], Hermina Györfy[1], Alexandru Matei[1], Clara Dees[1], Chih-Wei Chen[1], Andreas Ramming[2], Georg Schett[3] and Jörg Distler[1], [1]Department of Internal Medicine 3 – Rheumatology and Immunology, Universitätsklinikum Erlangen, Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Erlangen, Germany, [2]Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Erlangen, Germany, [3]Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Department of Internal Medicine 3 – Rheumatology and Immunology, Universitätsklinikum Erlangen, Erlangen, Germany., Erlangen, Germany

Meeting: 2017 ACR/ARHP Annual Meeting

IL-6 Mediates Activation of Macrophages in Patients with Systemic Sclerosis

Rajan Bhandari[1], Michael Ball[2], Viktor Martyanov[3], Dillon Popovich[4], Mary A. Carns[5], Kathleen Aren[5], Monique Hinchcliff[6], Michael L. Whitfield[7] and Patricia A. Pioli[8], [1]Geisel School of Medicine at Dartmouth, lebanon, NH, [2]Geisel School of Medicine at Dartmouth, Lebanon, NH, [3]Department of Molecular and Systems Biology, Geisel School of Medicine at Dartmouth, Hanover, NH, [4]Geisel School of Medicine at Dartmouth, hanover, NH, [5]Northwestern University, Feinberg School of Medicine Scleroderma Program, Chicago, IL, [6]Rheumatology, Northwestern Medicine, Chicago, IL, [7]Molecular and Systems Biology, Geisel School of Medicine at Dartmouth, Hanover, NH, [8]Microbiology and Immunology, Geisel School of Medicine at Dartmouth, Hanover, NH

Meeting: 2017 ACR/ARHP Annual Meeting

ABSTRACT NUMBER: 1705

Inhibition of EZH2 Stops Fibrosis and Improves Angiogenesis in Scleroderma

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Και από όλα αυτά τι να κρατήσω...?

- ✓STAT3, JAK, TGFβ, ενεργοποίηση και «μετατροπή» μακροφάγων
- ✓Η ίνωση είναι ο νέος θεραπευτικός στόχος
- ✓Χρειάζεται έγκαιρη διάγνωση και πιθανότερα συνεχής παρέμβαση (ILD και PAH)
- ✓Rituximab, Tocilizumab, DPP4s, Tadalafil = χρήσιμα
- ✓Triplex καρδιάς, ΗΚΓφημα για PAH στην κλινική πράξη
- ✓Aminaphtone, Anabasum = άμεσο μέλλον