



ANMAR
Associazione Nazionale
Malati Reumatici
Onlus



“La gestione clinica e organizzativa
delle malattie reumatiche”

Importanza della diagnosi precoce

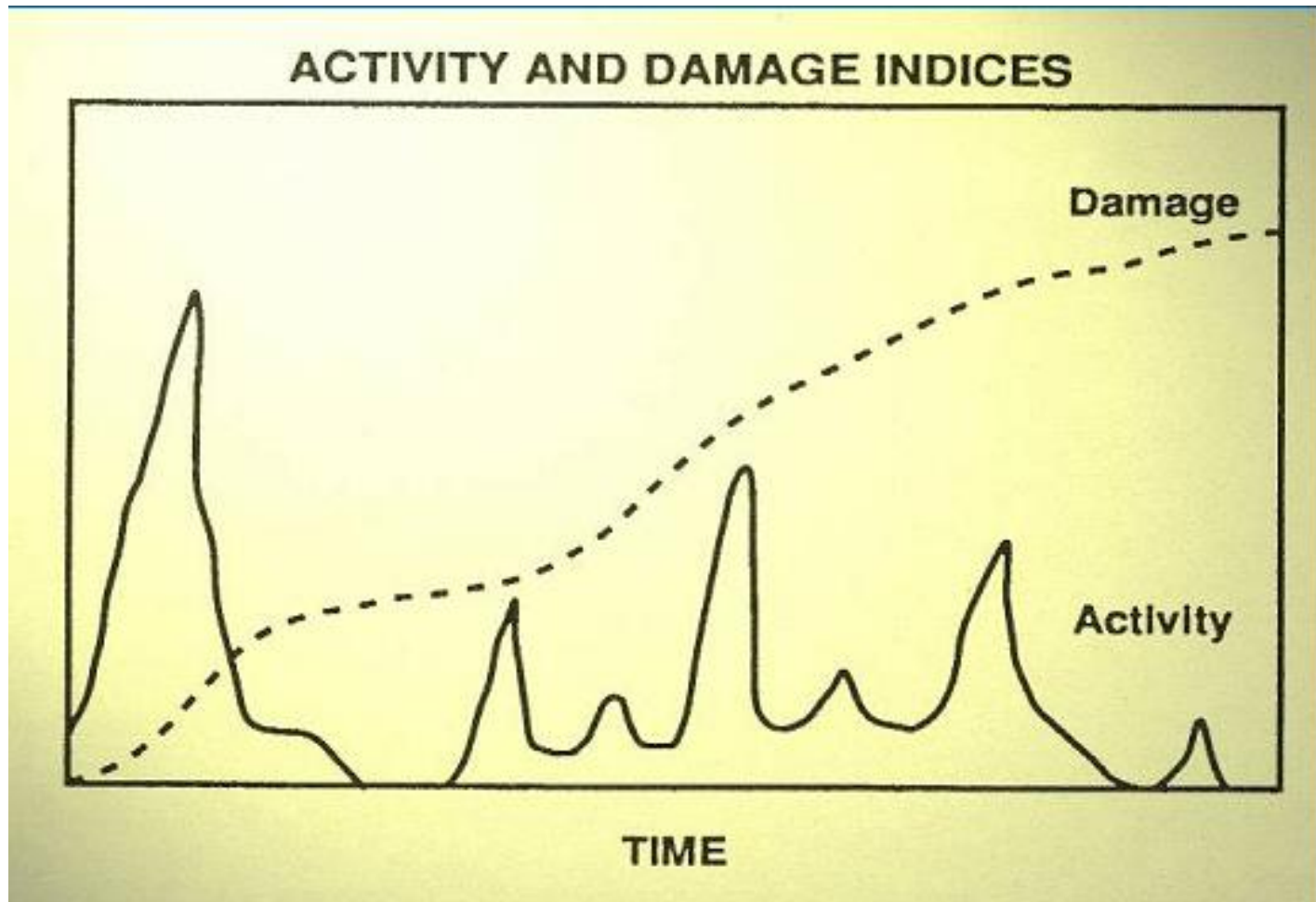
Chiara Baldini

U.O. Reumatologia, Università di Pisa

Agenda

- Diagnosi precoce:
 - Razionale patogenetico
 - Razionale clinico
- Il ritardo diagnostico: l'esperienza delle Early Clinics
- Prospettive future per la diagnosi precoce

Malattie reumatiche: dall'infiammazione al danno



Artrite reumatoide: evoluzione dall'inflammazione ...



Artrite reumatoide: dall'inflammazione ... al danno



La Scleroderma: dal fenomeno di Raynaud alla sclerodattilia





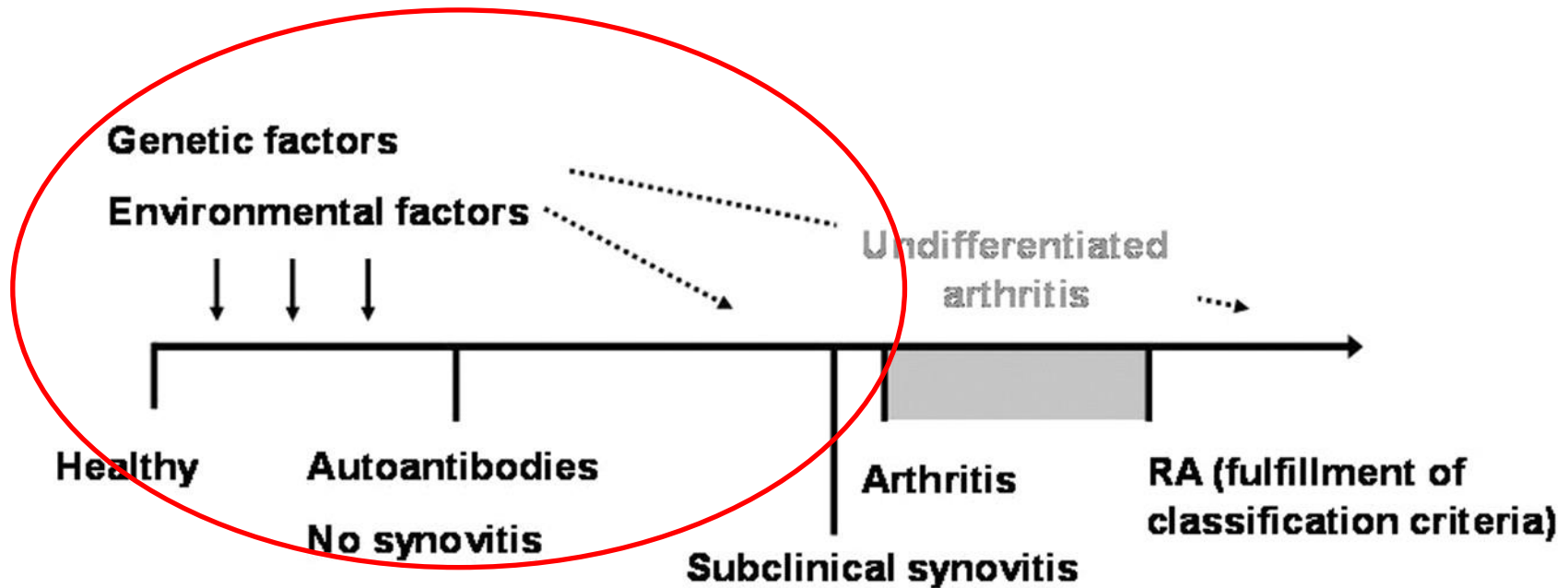


Early arthritis e «Window of opportunity»

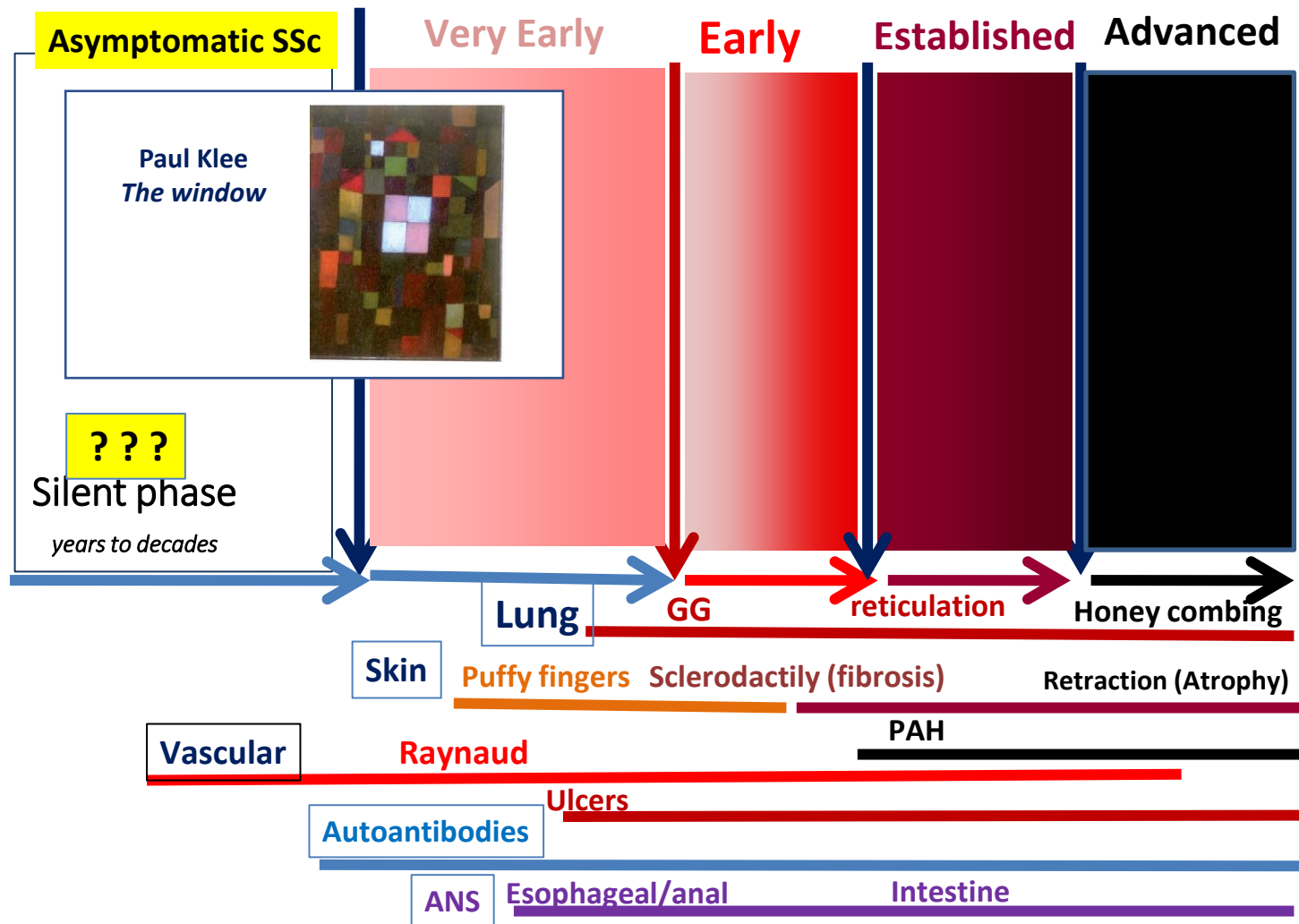


diagnosi precoce → terapia precoce → blocco o rallentamento della malattia

«Diagnosi precoce»: rationale patogenetico



Diagnosi precoce»: razionale patogenetico



Prediction of Sjögren's Syndrome Years Before Diagnosis and Identification of Patients With Early Onset and Severe Disease Course by Autoantibody Profiling

Elke Theander,¹ Roland Jonsson,² Bitte Sjöström,³ Karl Brokstad,⁴ Peter Olsson,¹
and Gunnel Henriksson³

Results. Considering all patients with primary SS who were autoantibody positive after diagnosis, at least one autoantibody specificity was detected in 81% up to 20 years (median 4.3–5.1 years) before diagnosis. Those found most often were ANAs, followed by RF, anti-Ro 60/SSA, anti-Ro 52/SSA, and anti-La/SSB. Anti-Ro/SSA and anti-La/SSB antibodies were strongly associated with the risk of developing primary SS, especially early-onset disease and a severe disease course. When Bayesian prior prevalence estimates for primary SS were included in the calculation, prediagnostic anti-Ro 60/SSA and anti-Ro 52/SSA had the highest positive predictive values (25% and 100%, respectively).

The NEW ENGLAND JOURNAL of MEDICINE

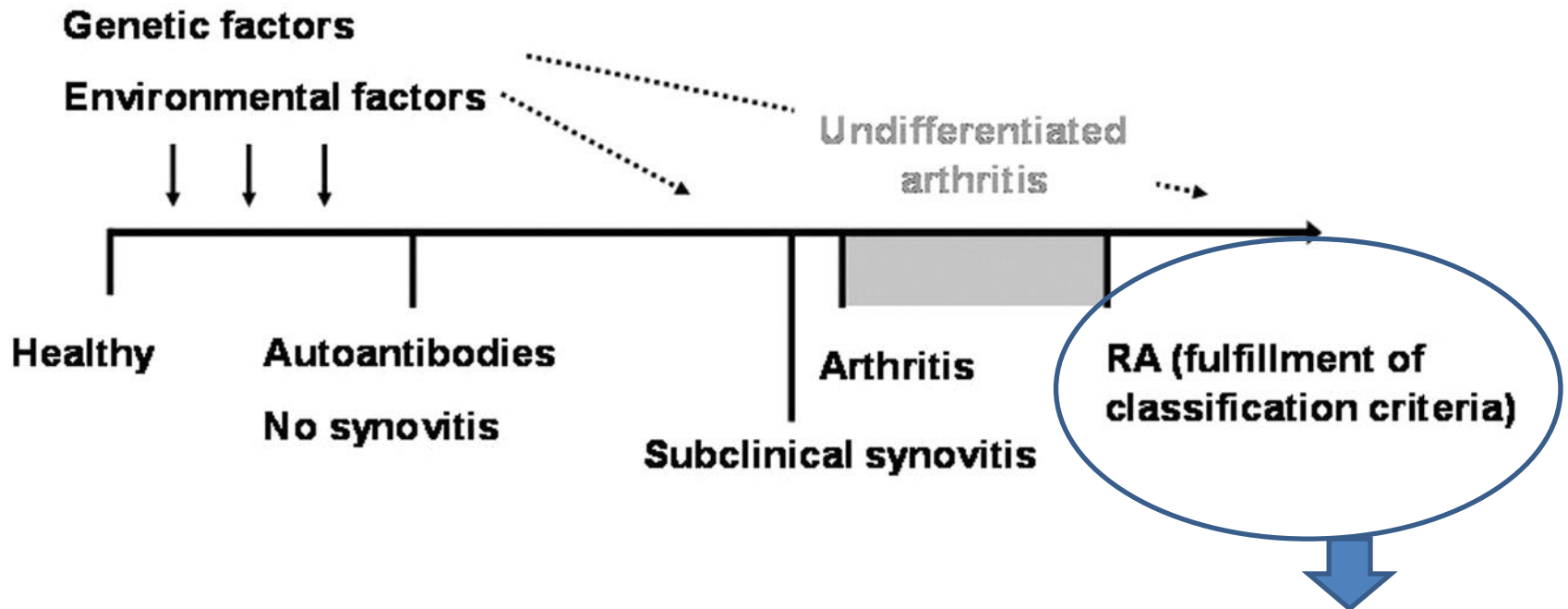
ORIGINAL ARTICLE

Development of Autoantibodies before the Clinical Onset of Systemic Lupus Erythematosus

Melissa R. Arbuckle, M.D., Ph.D., Micah T. McClain, Ph.D.,
Mark V. Rubertone, M.D., R. Hal Scofield, M.D., Gregory J. Dennis, M.D.,
Judith A. James, M.D., Ph.D., and John B. Harley, M.D., Ph.D.

N Engl J Med 2003;349:1526-33.

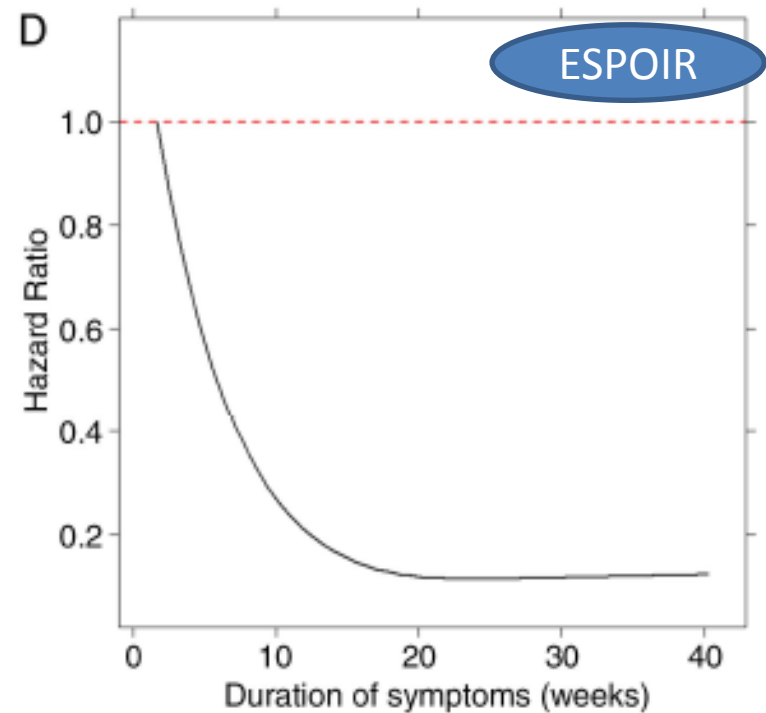
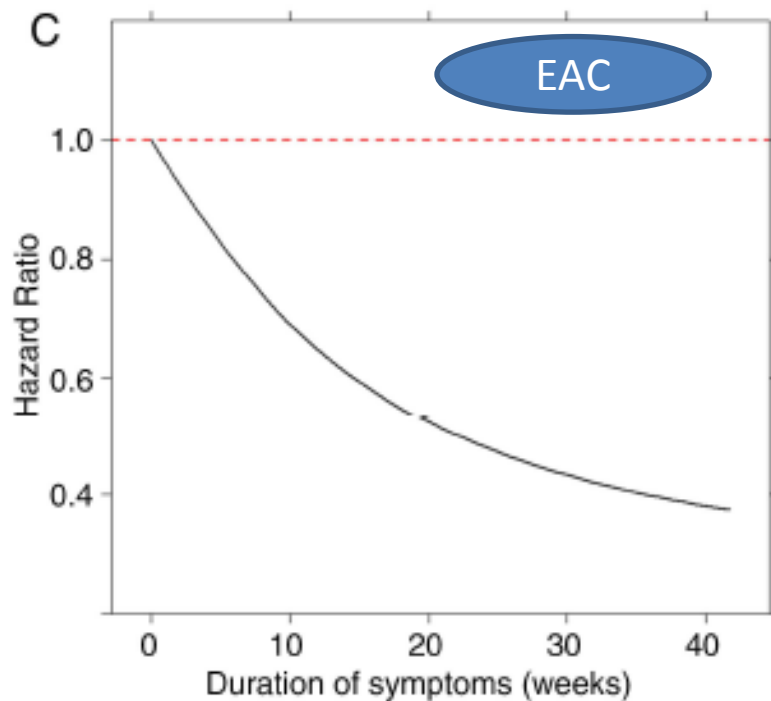
«Diagnosi precoce»: razionale clinico



Maggiore è la durata dei sintomi → Minore è la reversibilità della malattia

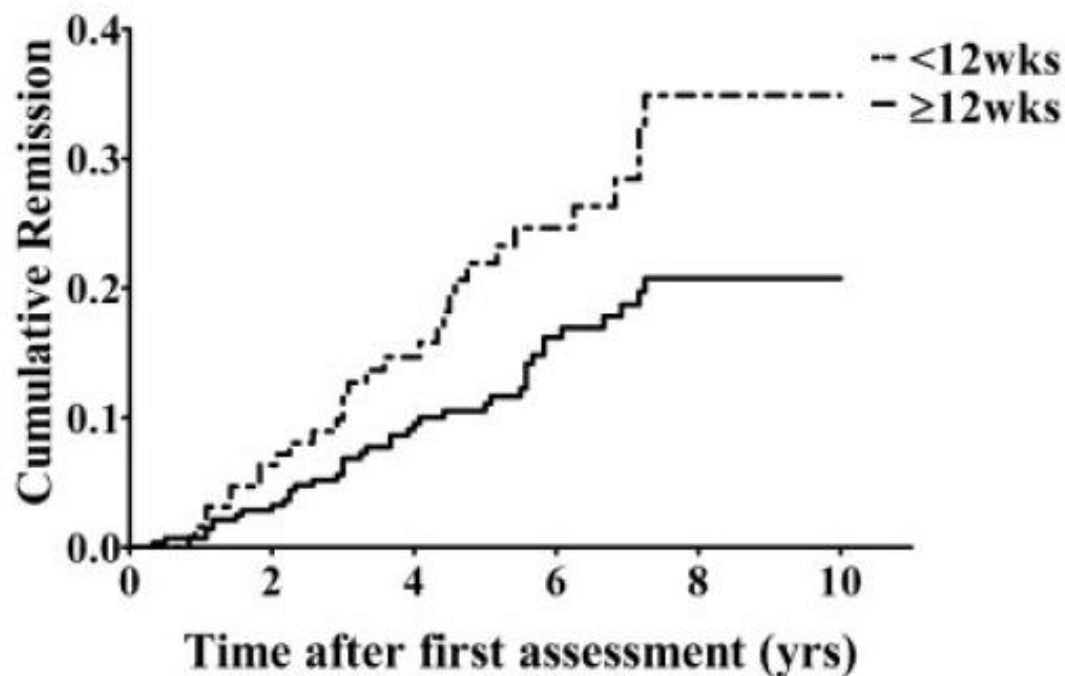
Evaluating relationships between symptom duration and persistence of rheumatoid arthritis: does a window of opportunity exist? Results on the Leiden Early Arthritis Clinic and ESPOIR cohorts

J A B van Nies,¹ R Tsonaka,² C Gaujoux-Viala,³ B Fautrel,⁴
A H M van der Helm-van Mil¹

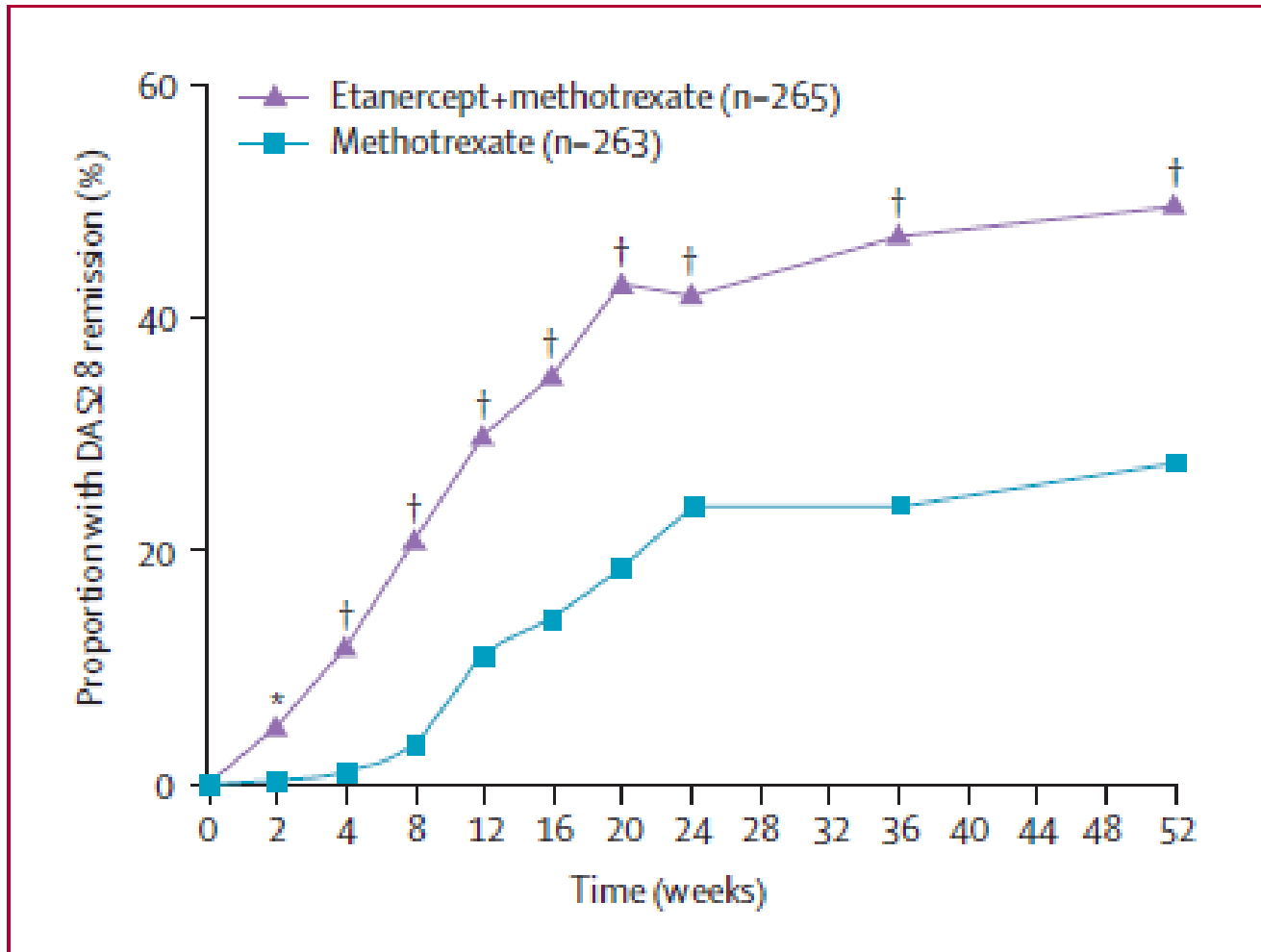


Long-Term Impact of Delay in Assessment of Patients With Early Arthritis

Michael P. M. van der Linden,¹ Saskia le Cessie,¹ Karim Raza,² Diane van der Woude,¹ Rachel Knevel,¹ Tom W. J. Huizinga,¹ and Annette H. M. van der Helm-van Mil¹

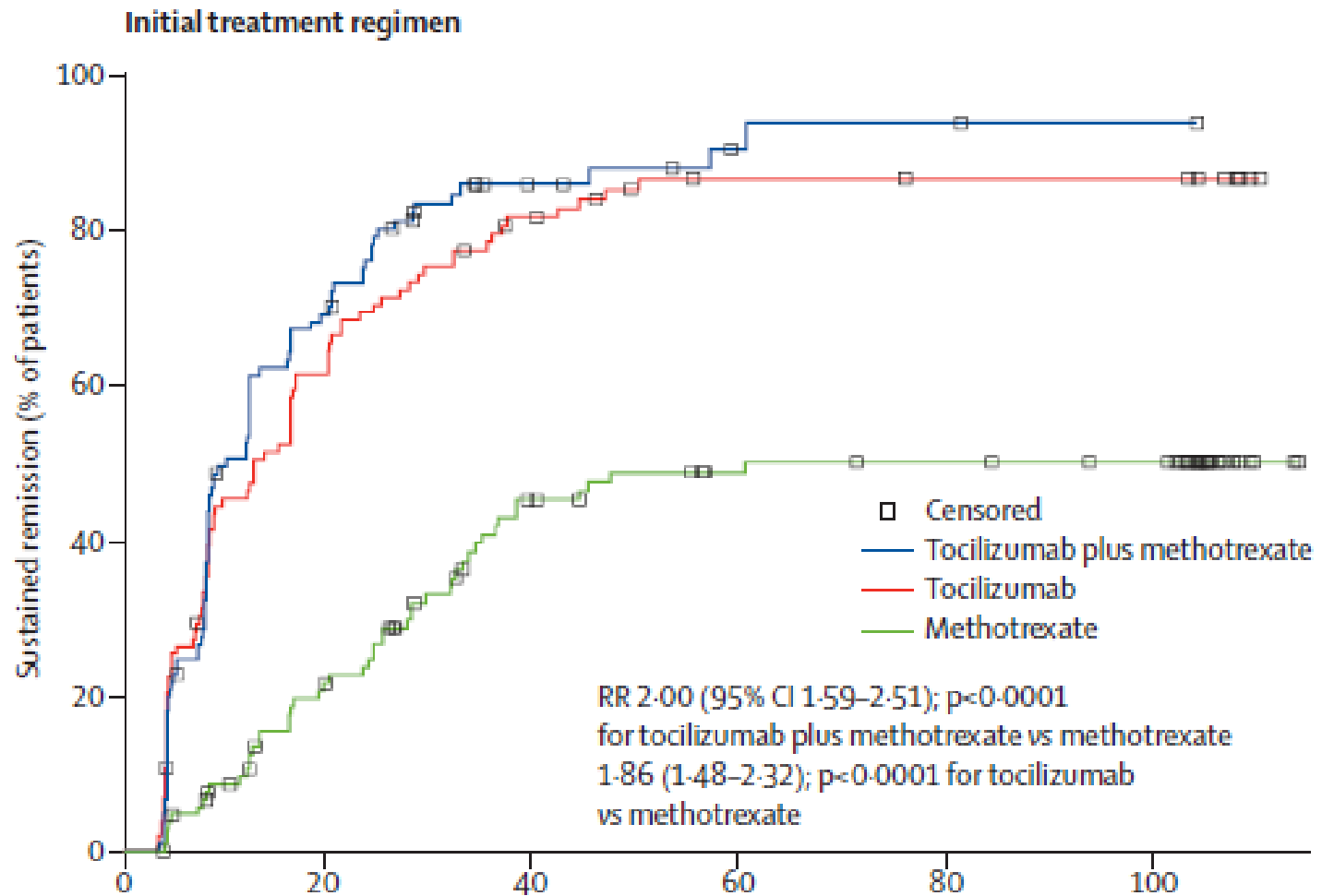


COMET trial



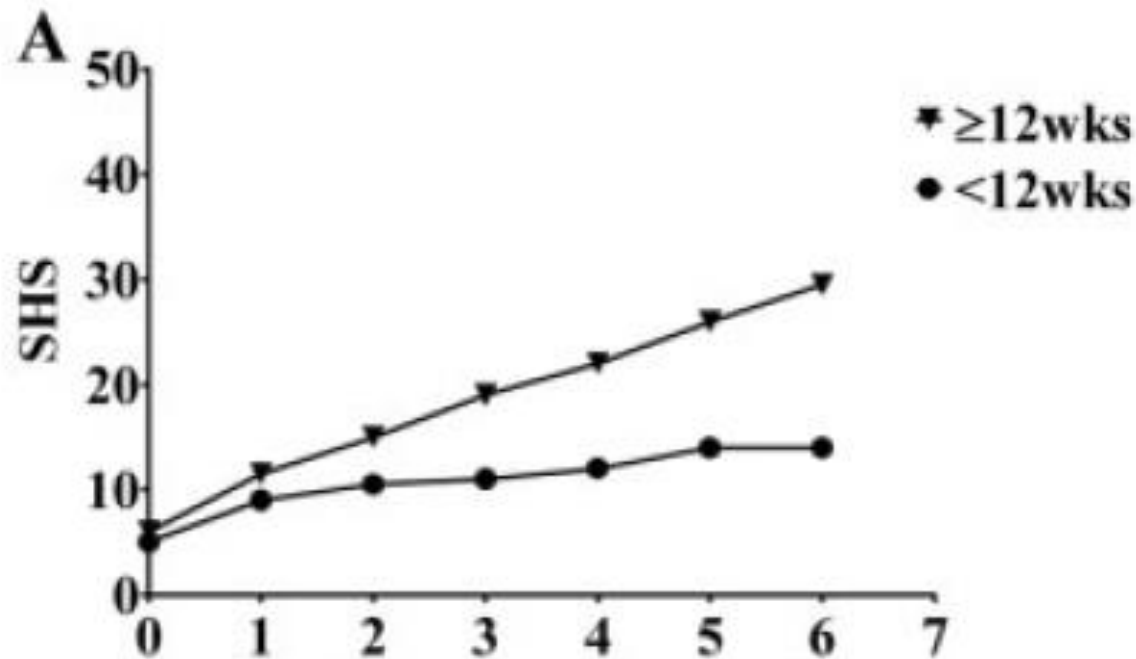
Emery P. et al Lancet 2009

U ACT Early Strategy trial



Long-Term Impact of Delay in Assessment of Patients With Early Arthritis

Michael P. M. van der Linden,¹ Saskia le Cessie,¹ Karim Raza,² Diane van der Woude,¹ Rachel Knevel,¹ Tom W. J. Huizinga,¹ and Annette H. M. van der Helm-van Mil¹



Evoluzione del danno articolare nella AR: polsi

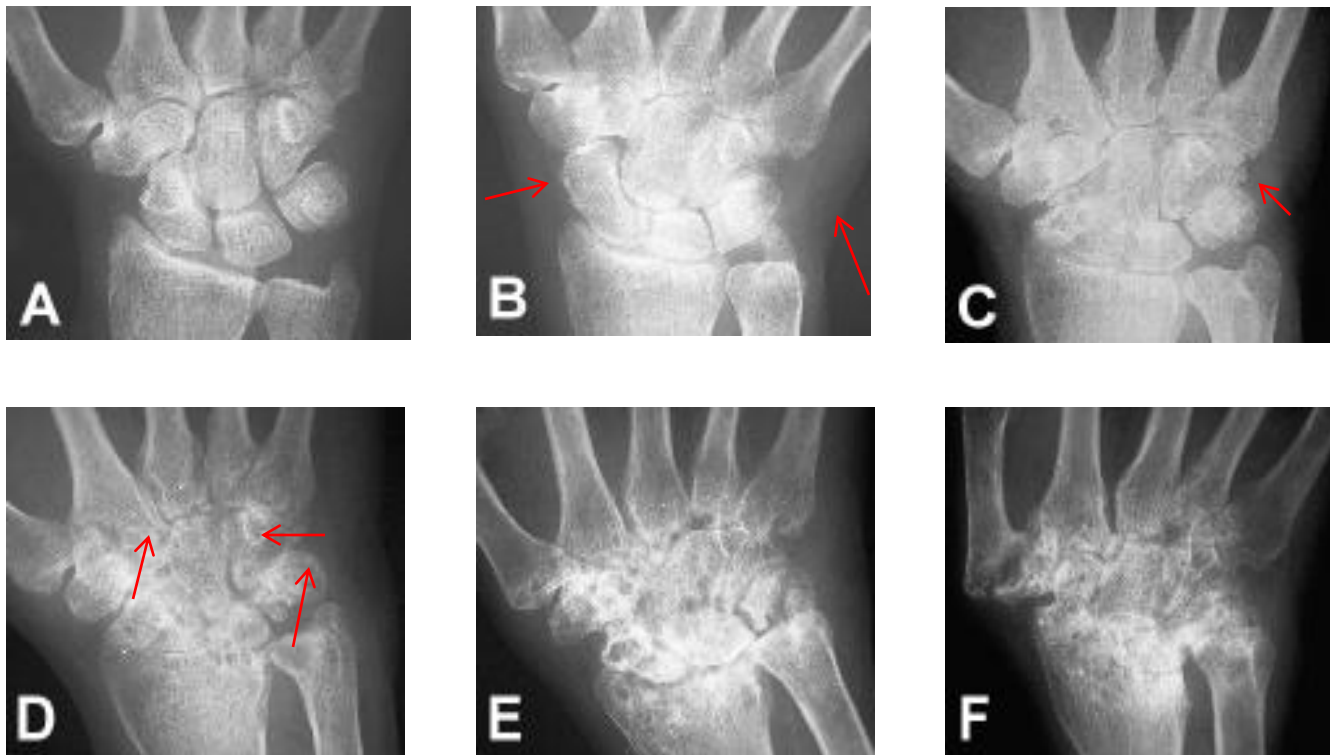


Fig. A: Articolazioni normali (3/1989);

Fig. B: Tumefazione dei tessuti molli e riduzione degli spazi articolari (11/1990);

Fig. C: Numerose piccole erosioni e chiaro restringimento degli spazi articolari (3/1992);

Fig. D: Erosioni multiple con marcata riduzione degli spazi articolari (11/1993);

Fig. E: Erosioni multiple con alterazioni distruttive. Rimangono piccole parti delle superfici articolari (1/1995);

Fig. F: Completa distruzione delle superfici articolari prossimali e distali (6/1996).

Evoluzione del danno articolare nella AR: articolazioni interfalangee prossimali

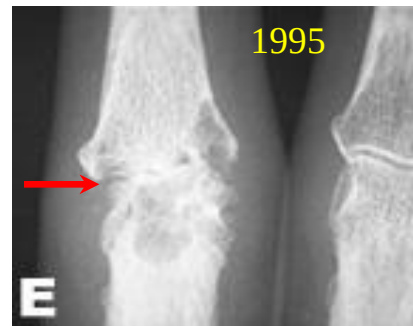
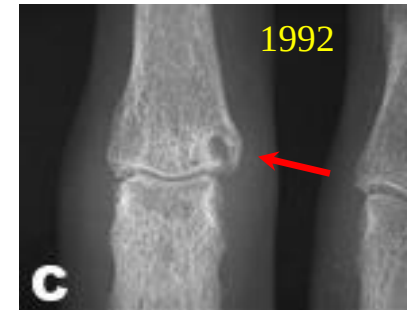


Fig. A: Articolazione normale (3/1989);
Fig. B: Tumefazione dei tessuti molli (11/1990);
Fig. C: piccola erosione e restringimento dello spazio articolare (3/1992);
Fig. D: erosioni più grosse con marcato restringimento dello spazio articolare (11/1993);
Fig. E: gravi erosioni (1/1995);
Fig. F: Erosioni mutilanti (6/1996).

Association of Early Radiographic Damage With Impaired Physical Function in Rheumatoid Arthritis

A Ten-Year, Longitudinal Observational Study in 238 Patients

Sigrid Ødegård,¹ Robert Landewé,² Désirée van der Heijde,² Tore K. Kvien,¹
Petter Mowinckel,¹ and Till Uhlig¹

Artrite Reumatoide: Aspetti Invalidanti

Authors	Disability
Yelin et al. 1987	Social relations, religious activities, leisure pursuits, transportation
Katz 1995	Service, cultural, leisure, social participation areas
Cornelissen et al. 1988	Social relations, transportation
Reisine et al. 1987	Social relations
Ostenssen et al 1992	Household activities, bathing, dressing, lifting, carryng children

La work disability è solo un aspetto delle potenziali invalidità correlate all'artrite reumatoide che può influenzare tutti gli aspetti sociali e personali della vita di un paziente

ARTRITE REUMATOIDE: INABILITA' AL LAVORO

Anni di follow-up	Prevalenza (%)
1	15-30
3	30-40
10	40-50
20	80

Conclusioni: la inabilità lavorativa tra pazienti con AR è 4-5 volte maggiore rispetto alla popolazione generale (2.6%)

Differential impact of systemic lupus erythematosus and rheumatoid arthritis on health-related quality of life

Benjamin Chaigne¹ · Axel Finckh² · Deshire Alpizar-Rodriguez² · Delphine Courvoisier² · Camillo Ribi³ · Carlo Chizzolini¹ · For The Swiss Clinical Quality Management Program For Rheumatoid ArthritisThe Swiss Systemic Lupus Erythematosus Cohort Study Group

Accepted: 21 February 2017 / Published online: 11 March 2017

Sindrome di Sjögren: impatto sulla qualità di vita e sulla work disability

Arthritis Care & Research
Vol. 64, No. 11, November 2012, pp 1760–1764
DOI 10.1002/acr.21738
© 2012, American College of Rheumatology

BRIEF REPORT

Impaired Functional Status in Primary Sjögren's Syndrome



69 pts

KATIE L. HACKETT,¹ JULIA L. NEWTON,¹ JAMES FRITH,¹ CHRIS ELLIOTT,¹ DENNIS LENDREM,²
HEATHER FOGGO,² SUZANNE EDGAR,² SHERYL MITCHELL,² AND WAN-FAI NG³

Conclusion. Primary SS patients experience significant functional disability compared to age-matched healthy controls. Impaired function is associated with reduced quality of life and symptoms such as pain, fatigue, and depression, as well as disease activity, illustrating the importance of optimal management of all aspects of the disease.

Rheumatology 2009;48:1077–1082
Advance Access publication 24 June 2009

doi:10.1093/rheumatology/kep141

Health-related quality of life, employment and disability in patients with Sjögren's syndrome

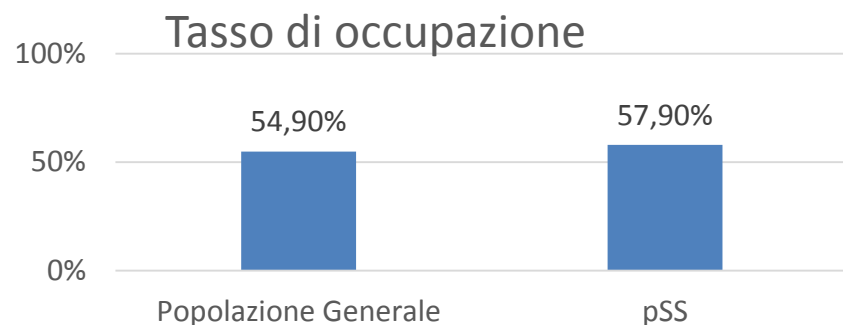
Jiska M. Meijer^{1*}, Petra M. Meiners^{1*}, James J. R. Huddleston Slater^{1,2}, Fred K. L. Spijkervet¹,
Cees G. M. Kallenberg³, Arjan Vissink¹ and Hendrika Bootsma³



235 pts

Conclusion. SS has a large impact on HR-QOL, employment and disability.

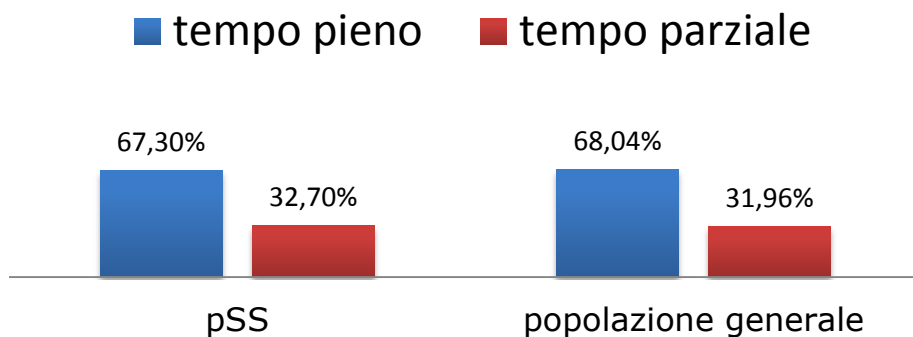
Sindrome di Sjögren: impatto sulla work disability



360 pts

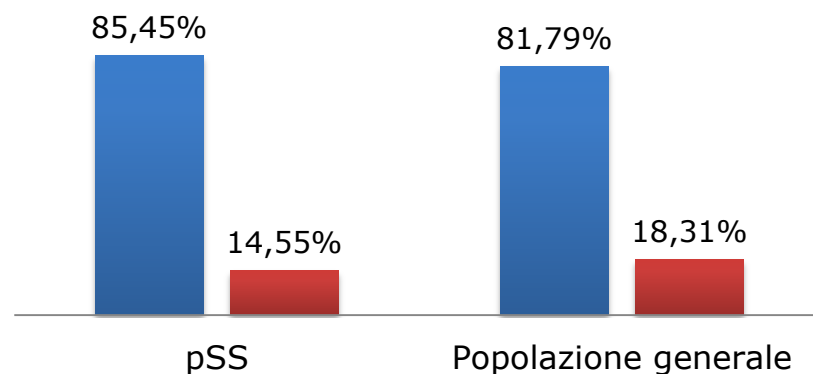
Profilo occupazionale
sovrapponibile a quello della
popolazione generale.

Regime orario



Posizione professionale

■ dipendente ■ autonomo



Abstract EULAR 2016 del Gruppo SS-SIR

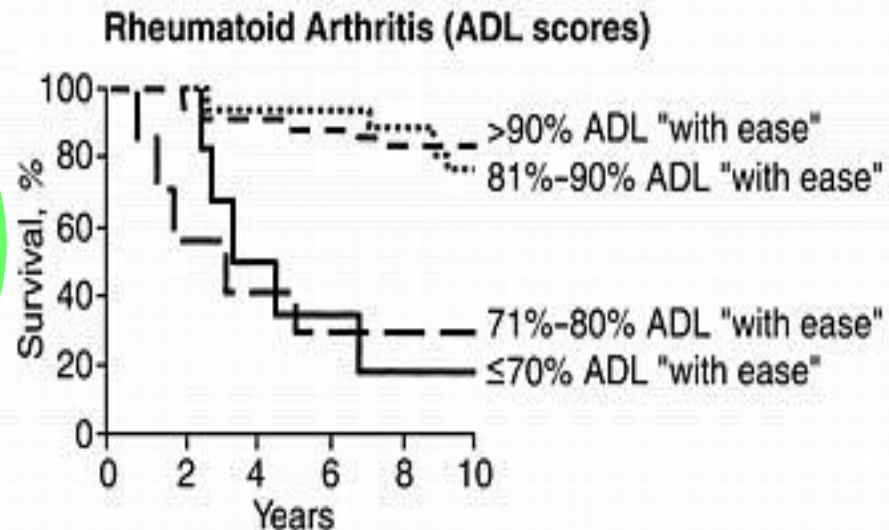
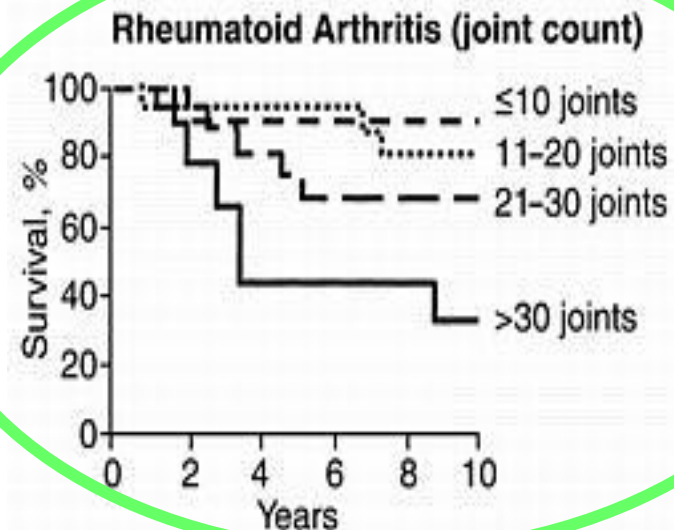
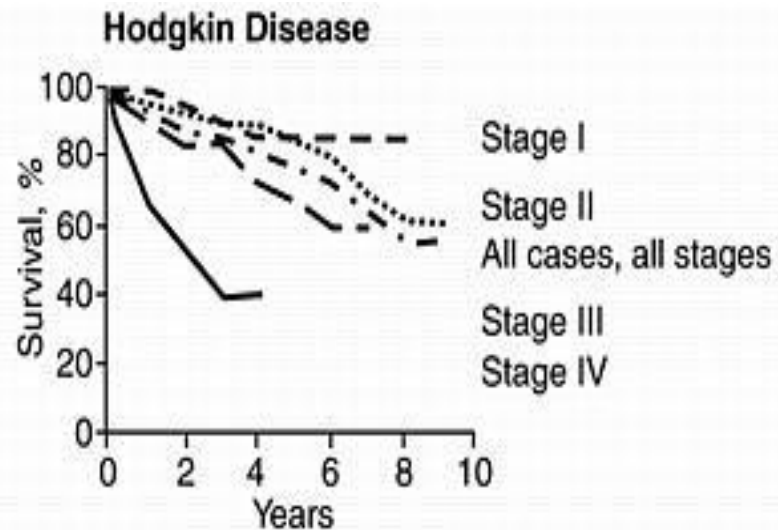
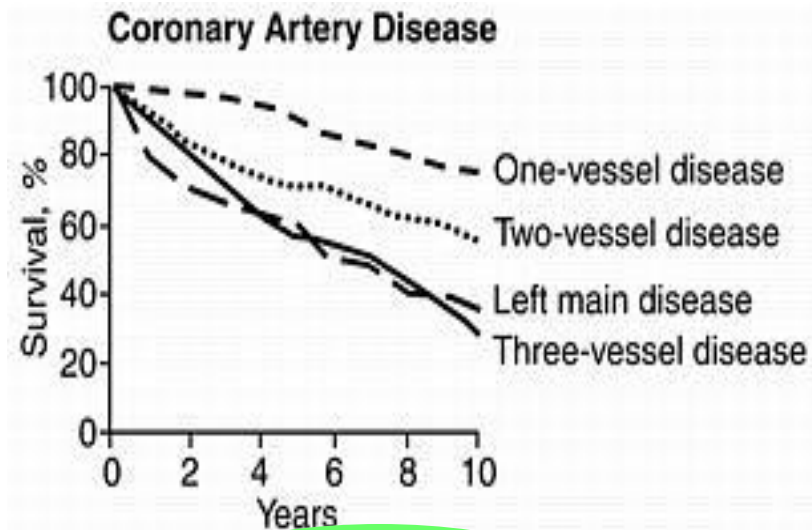
Sindrome di Sjögren: impatto sulla work disability

Disabilità Lavorativa	Media % (DS)
Assenteismo (%): media (DS)	6,7% (17)
Numero di ore perse per “salute” (DS)	2,4 (6,7)
Presenteismo (%): media (DS)	36,5 % (31)
OWI (%): media (DS)	39 % (33)
AI (%): media (DS)	51,5% (30)

Correlati a fatigue,
dolore, FM

Abstract EULAR 2016 del Gruppo SS-SIR

ARTRITE REUMATOIDE: SOPRAVVIVENZA



EXTENDED REPORT

Mapping and predicting mortality from systemic sclerosis

Muriel Elhai,¹ Christophe Meune,² Marouane Boubaya,³ Jérôme Avouac,¹ Eric Hachulla,⁴ Alexandra Balbir-Gurman,⁵ Gabriela Riemekasten,⁶ Paolo Airò,⁷ Beatriz Joven,⁸ Serena Vettori,⁹ Franco Cozzi,¹⁰ Susanne Ullman,¹¹ László Czirják,¹² Mohammed Tikly,¹³ Ulf Müller-Ladner,¹⁴ Paola Caramaschi,¹⁵ Oliver Distler,¹⁶ Florenzo Iannone,¹⁷ Lidia P Ananieva,¹⁸ Roger Hesselstrand,¹⁹ Radim Becvar,²⁰ Armando Gabrielli,²¹ Nemanja Damjanov,²² Maria J Salvador,²³ Valeria Ricciari,²⁴ Carina Mihai,²⁵ Gabriella Szücs,²⁶ Ulrich A Walker,²⁷ Nicolas Hunzelmann,²⁸ Duska Martinovic,²⁹ Vanessa Smith,³⁰ Carolina de Souza Müller,³¹ Carlo Maurizio Montecucco,³² Daniela Opris,³³ Francesca Ingegnoli,³⁴ Panayiotis G Vlachoyiannopoulos,³⁵ Bojana Stamenkovic,³⁶ Edoardo Rosato,³⁷ Stefan Heitmann,³⁸ Jörg H W Distler,³⁹ Thierry Zenone,⁴⁰ Matthias Seidel,⁴¹ Alessandra Vacca,⁴² Ellen De Langhe,⁴³ Srdan Novak,⁴⁴ Maurizio Cutolo,⁴⁵ Luc Mouthon,⁴⁶ Jörg Henes,⁴⁷ Carlo Chizzolini,⁴⁸ Carlos Alberto von Mühlen,⁴⁹ Kamal Solanki,⁵⁰ Simona Rednic,⁵¹ Lisa Stamp,⁵² Branimir Anic,⁵³ Vera Ortiz Santamaria,⁵⁴ Maria De Santis,⁵⁵ Sule Yavuz,⁵⁶ Walter Alberto Sifuentes-Giraldo,⁵⁷ Emmanuel Chatelus,⁵⁸ Jiri Stork,⁵⁹ Jacob van Laar,⁶⁰ Esthela Loyo,⁶¹ Paloma García de la Peña Lefebvre,⁶² Kilian Eyerich,⁶³ Vanesa Cosentino,⁶⁴ Juan Jose Alegre-Sancho,⁶⁵ Otylia Kowal-Bielecka,⁶⁶ Grégoire Rey,⁶⁷ Marco Matucci-Cerinic,⁶⁸ Yannick Allanore,¹ on behalf of EUSTAR group

MALATTIE REUMATICHE IN ITALIA: COSTI

- **Osteoartrosi: 2170 euro/anno per paziente:**
 - 934 euro costi diretti (terapia medica, ausili ospedalizzazione, procedure diagnostiche)
 - 1236 euro costi indiretti (36% per perdita di produttività lavorativa)

(Leardini G et al. Clin Exp Rheumatol. 2004)
- **Artrite Reumatoide nelle diverse classi funzionali:**
 - da 1643.4 a 5696.8 euro **costi diretti** (visite mediche, trattamenti farmacologici e non, indagini strumentali, degenze in ospedale, degenze in unità di riabilitazione, interventi chirurgici)
 - da 2704.9 a 17249.2 euro **costi indiretti** (perdita di produttività lavorativa legata a malattia e pre-penzionamento)

(Leardini G et al. Clin Exp Rheumatol. 2002)

Agenda

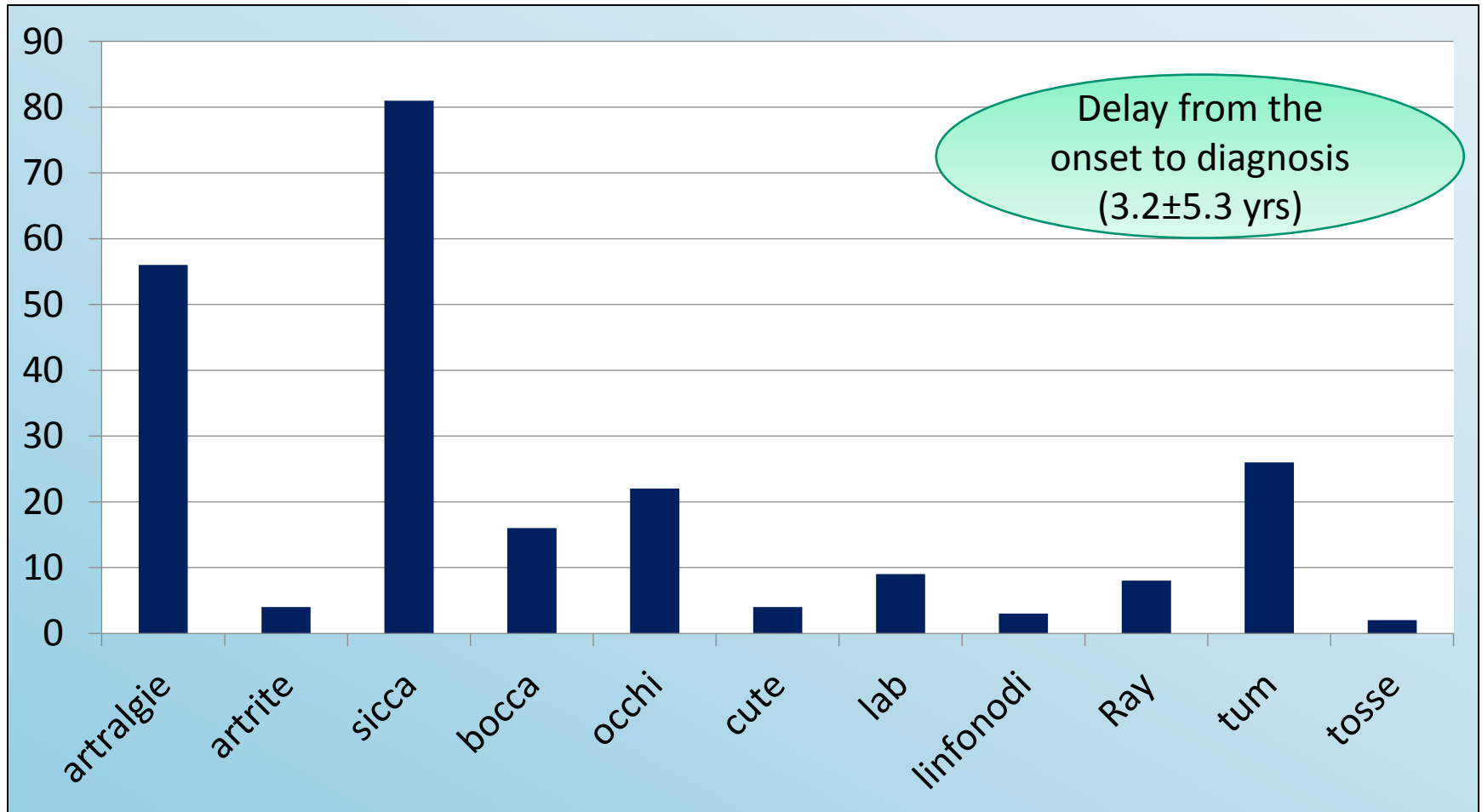
- Diagnosi precoce:
 - Razionale patogenetico
 - Razionale clinico
- L'esperienza delle Early Clinics e il ritardo diagnostico
- Prospettive future per la diagnosi precoce

L'esperienza delle Early Clinics: il ritardo diagnostico

- Rotterdam Early Arthritis CoHort:

Condizione	Ritardo diagnostico
Artrite Reumatoide	12 settimane
Artrite «acuta»	7 settimane
Artralgie infiammatorie	16 settimane

Sindrome di Sjögren: ritardo diagnostico



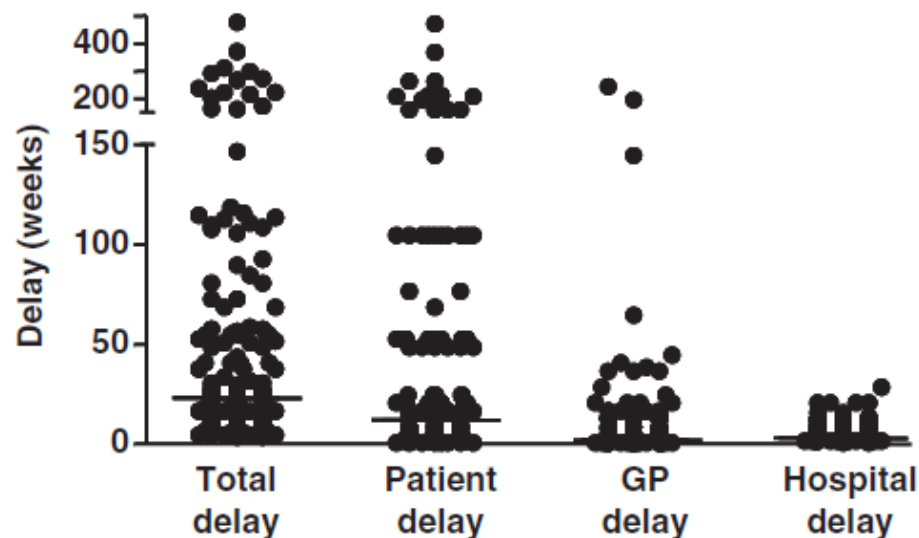
Ritardo diagnostico: possibili fattori

- Esordio «aspecifico»
- Esordio «atipico» e «eterogeneo»
- Criteri classificativi stringenti

Concise Report

Delay in presentation to primary care physicians is the main reason why patients with rheumatoid arthritis are seen late by rheumatologists

K. Kumar^{1,2}, E. Daley¹, D. M. Carruthers¹, D. Situnayake¹, C. Gordon^{1,2}, K. Grindulis¹,
C. D. Buckley^{1,2}, F. Khattak¹ and K. Raza^{1,2}



Evoluzione delle UCTD

Durata di malattia > 1 year

91 UCTD
(M: 4 / F: 87)

1 UCTD
persa al
FU

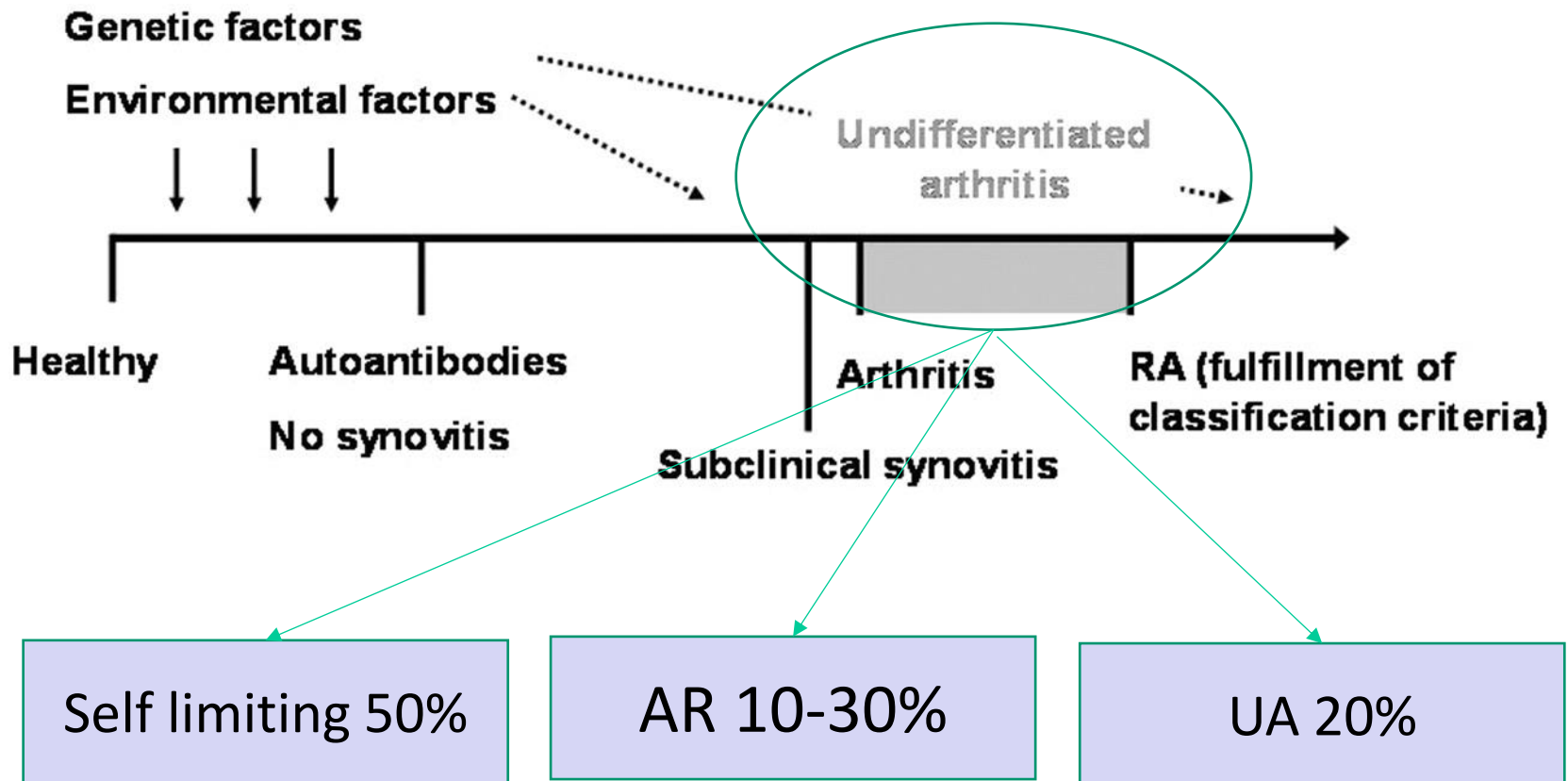
26 (29%) EVOLUTE

64 'STABILI'

22 LES
2 SS
1 RA
1 SSc

follow up medio 151.6 ± 77.4 mesi
follow up minimo: 3 anni

Le artriti indifferenziate e il rischio di under e over-treatment



Ritardo diagnostico: possibili fattori

- Esordio «aspecifico»
- Esordio «atipico» ed «eterogeneo»
- Criteri classificativi stringenti

Esordio atipico o eterogeneo



EARLY DIAGNOSIS in SS

Early diagnosis of primary Sjögren's syndrome: EULAR-SS task force clinical recommendations

Pilar Brito-Zerón, Elke Theander, Chiara Baldini, Raphaële Seror, Soledad Retamozo, Luca Quartuccio, Hendrika Bootsma, Simon J Bowman, Thomas Dörner, Jacques-Eric Gottenberg, Xavier Mariette, Stefano Bombardieri, Salvatore de Vita, Thomas Mandl, Wan-Fai Ng, Aike A. Kruize, Athanasios Tzioufas, Claudio Vitali, Jill Buyon, Peter Izmirly, Robert Fox, Manuel Ramos-Casals & on behalf of the EULAR Sjögren Syndrome Task Force

Journal [Expert Review of Clinical Immunology](#)
Volume 12, 2016 - [Issue 2](#)

Ritardo diagnostico: possibili fattori

- Esordio «aspecifico»
- Esordio «atipico» ed «eterogeneo»
- Criteri classificativi stringenti

2010 ACR/EULAR Rheumatoid Arthritis Classification Criteria

Arthritis Rheum 2010; 62 (9): 2569-2581

	Score
Popolazione obiettivo (chi deve essere testato?): pazienti che	
1. hanno almeno 1 articolazione con sinovite clinica sicura (tumefazione)*	
2. con sinovite non meglio spiegata da altra malattia†	
Criteri classificativi per AR (algoritmo a punteggio: sommare lo score delle categorie A-D); per classificare un paziente come AR definita è necessario un punteggio totale ≥ 6 †	
A. Coinvolgimento articolare §	
1 grandi articolazioni†	0
2-10 grandi articolazioni	1
1-3 piccole articolazioni (con o senza coinvolgimento di grandi articolazioni)‡	2
4-10 piccole articolazioni (con o senza coinvolgimento di grandi articolazioni)	3
>10 articolazioni (almeno 1 piccola articolazione)**	5
B. Sierologia (è necessario almeno 1 test per la classificazione)††	
FR negativo e ACPA negativi	0
FR a basso titolo o ACPA a basso titolo	2
FR ad alto titolo o ACPA ad alto titolo	3
C. Reattanti di fase acuta (è necessario almeno 1 test per la classificazione)††	
PCR normale e VES normale	0
PCR elevata o VES elevata	1
D. Durata dei sintomi §§	
<6 settimane	0
≥ 6 settimane	1

“The need to better classify and diagnose Early and Very Early Rheumatoid Arthritis”

Zeidler H. Journal of Rheum 2012; 39:212-217

How accurate is our standardized clinical assessment of synovitis?

Diagnosing early rheumatoid arthritis (RA). What are the problems and opportunities?

H.R. Schumacher, F. Pessler, L.X. Chen

- There are concerns about the **reproducibility of the clinical assessment** of synovitis and even the **sensitivity of physical examination for the detection of mild synovitis**
- Recent ultrasound and MRI studies have demonstrated apparent synovitis not appreciated on physical examination

L'esperienza delle Early Clinics: il ritardo diagnostico

ABSTRACT NUMBER: 2042

Referral Criteria to an Early Arthritis Clinic: Poor Agreement between Referring Physicians and Rheumatologists

Filipa Farinha^{1,2}, Gisela Eugénio², Mary Marques², Francisco Freitas³, José António P. da S
Cátia Duarte^{2,4}, ¹Rheumatology, Centro Hospitalar do Baixo Vouga, E.P.E., Aveiro, Portugal, ²Rheumatology, Centro Hospitalar e Universitário de Coimbra, Coimbra, Portugal, ³Center
Studies, Universidade de Coimbra, Coimbra, Portugal, ⁴Faculty of Medicine, Universidade
Coimbra, Coimbra, Portugal

Meeting: 2017 ACR/ARHP Annual Meeting

Date of first publication: September 18, 2017

Keywords: Early Rheumatoid Arthritis, Referrals and inflammatory arthritis

Conclusion: Among the clinical criteria, there was poor agreement regarding the presence of arthritis and no significant agreement regarding the characterization of the arthralgia as inflammatory, the morning stiffness and the squeeze test. The weak performance of all sets of criteria in predicting inflammatory arthritis is probably due to deficient recognition of each criterium. These results suggest the need for improving education among the physicians referring patients to the EAC.

Diagnosing early rheumatoid arthritis (RA). What are the problems and opportunities ?

H.R. Schumacher, F. Pessler, L.X. Chen

How helpful are serologic and genetic tests?

- 1) Fattore Reumatoide
- 2) Anticorpi Anticitrullina

Not all RF positive arthritides are RA!

- **CH** Chronic disease, esp hepatic and pulmonary
- **R** Rheumatoid arthritis
- **O** Other rheumatic diseases
 - SLE, Scl, MCTD,
 - Sjogrens (95%)
 - Polymyositis (10%)
 - Sarcoidosis
- **N** Neoplasms
- **I** Infections
 - AIDS, parasitic, SBE, TB, Viral
- **C** Cryoglobulinemia, esp Hepatitis C associated

CONCISE REPORT

Differences in the symptomatic phase preceding ACPA-positive and ACPA-negative RA: a longitudinal study in arthralgia during progression to clinical arthritis

Leonie E Burgers, Hanna W van Steenberg, Robin M ten Brinck, Tom WJ Huizinga, Annette HM van der Helm-van Mil

DISCUSSION

This study identified phenotypic differences between ACPA-positive and ACPA-negative patients in the symptomatic phase preceding arthritis development. Initial symptoms in ACPA-negative patients were less often located in the lower extremities. At first presentation with arthralgia, ACPA-positive patients had less tender joints, less difficulty making a fist and longer symptom duration compared with ACPA-negative patients. However, ACPA-positive patients progressed to arthritis more rapidly. This study is the first showing that, in addition to the differences in underlying risk factors, there are also clinical differences in very early symptomatic disease phases. This suggests that ACPA-positive and ACPA-negative RA are intrinsically different.

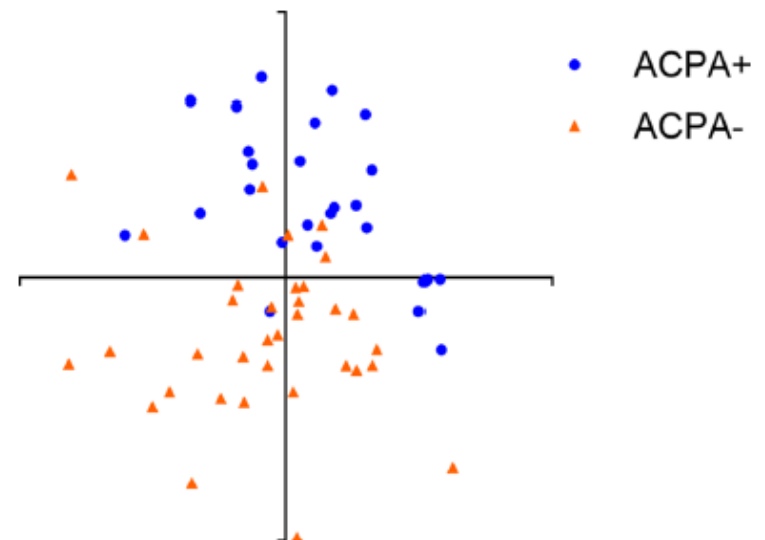


Figure 2 Clustering of anticitrullinated protein antibody (ACPA)-positive and ACPA-negative patients based on a partial least squares regression analysis that included only clinical information. Scores on

L'esperienza delle Early Clinics: il ritardo diagnostico

ABSTRACT NUMBER: 1819

Delay of Diagnosis and Treatment in Seronegative Rheumatoid Arthritis: Missing the Window of Opportunity

Caitrin Coffey¹, Cynthia S. Crowson², Elena Myasoedova³, Eric L. Matteson⁴ and John M. Davis III⁵,
¹Internal Medicine, Mayo Clinic, Rochester, MN, ²Health Sciences Research, Mayo Clinic College of Medicine and Science, Rochester, MN, ³Rheumatology, Mayo Clinic, Rochester, MN, ⁴Rheumatology, Mayo Clinic College of Medicine and Science, Rochester, MN, ⁵Division of Rheumatology, Mayo Clinic, Rochester, MN

Meeting: 2017 ACR/ARHP Annual Meeting

Date of first publication: September 18, 2017

Keywords: diagnostic criteria and rheumatoid arthritis (RA), Rheumatoid Factor

Results:

156 patients were included; 113 were seropositive and 43 seronegative. Age, sex, smoking status, and obesity did not differ between groups. Median time from first documented joint swelling to fulfillment of the 1987 (100 vs. 3 days, $p=0.003$) and 2010 (58 vs. 0 days, $p=0.011$) criteria was significantly longer in seronegative than seropositive patients. The median time from first documented joint swelling to first DMARD was also significantly longer in seronegative patients (129.5 vs. 16 days, $p=0.003$). Methotrexate was the first DMARD for 97 patients (62%), with no significant differences between groups.

Agenda

- Diagnosi precoce:
 - Razionale patogenetico
 - Razionale clinico
- L'esperienza delle Early Clinics e il ritardo diagnostico
- Prospettive future per la diagnosi precoce
 - Red flags
 - Nuovi biomarkers

SCLERODERMA (J VARGA, SECTION EDITOR)

Very Early Systemic Sclerosis and Pre-systemic Sclerosis: Definition, Recognition, Clinical Relevance and Future Directions

Silvia Bellando-Randone^{1,2} • Marco Matucci-Cerinic^{1,2}

Downloaded from <http://ard.bmj.com/> on November 10, 2017 - Published by group.bmj.com

Clinical and epidemiological research

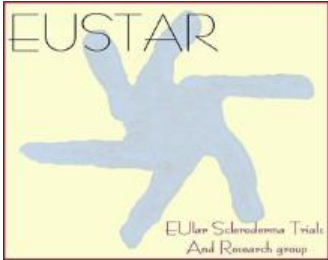
EXTENDED REPORT

Preliminary analysis of the Very Early Diagnosis of Systemic Sclerosis (VEDOSS) EUSTAR multicentre study: evidence for puffy fingers as a pivotal sign for suspicion of systemic sclerosis

Tünde Minier,¹ Serena Guiducci,² Silvia Bellando-Randone,² Cosimo Bruni,² Gemma Lepri,² László Czirják,¹ Oliver Distler,³ Ulrich A Walker,⁴ Jaap Franssen,⁵ Yannick Allanore,⁶ Christopher Denton,⁷ Maurizio Cutolo,⁸ Alan Tyndall,⁴ Ulf Müller-Ladner,⁹ Marco Matucci-Cerinic,² and the EUSTAR co-workers

Very early diagnosis of SSc- VEDOSS:

Criteria to trigger early referral



VEDOSS red flags

1. Raynaud's phenomenon

2. Puffy fingers

3. Positive antinuclear antibodies



The challenge of early systemic sclerosis for the EULAR Scleroderma Trial and Research group (EUSTAR) community. It is time to cut the Gordian knot and develop a prevention or rescue strategy

M Matucci-Cerinic, Y Allanore, L Czirják, A Tyndall, U Müller-Ladner, C Denton, G Valentini, O Distler, K Fligelstone, A Tyrrel-Kennedy, D Farge, O Kowal-Bielecka, F van den Hoogen, M Cutolo, P D Sampaio-Barros, P Nash, K Takehara and D E Furst

Ann Rheum Dis 2009;68:1377-1380
doi:10.1136/ard.2008.106302

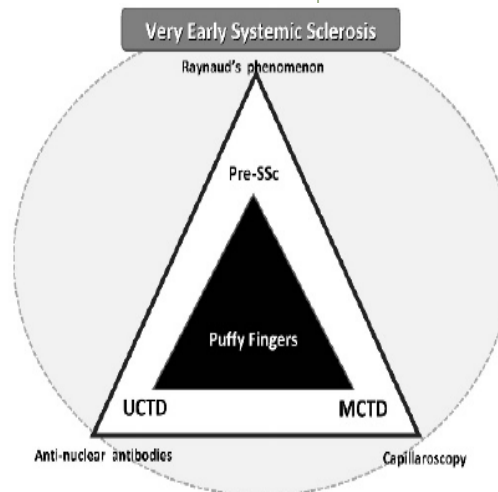


Figure 1 The three main diseases—undifferentiated connective tissue disease (UCTD), mixed connective tissue disease (MCTD) and prescleroderma—and the main early signs and symptoms—Raynaud phenomenon, antibodies positivity and capillaroscopic abnormalities—are presented in two overlapping “triangles” in a composite pyramid whose key to very early SSc still needs to be identified. Puffy fingers are presented in the centre of the black pyramid as a sign present in MCTD, UCTD and prescleroderma.

autoantibodies and SSc capillaroscopic pattern. From a clinical point of view, SSc can develop from “prescleroderma”, MCTD,

Box 1 Preliminary criteria, still to be validated, for the very early diagnosis of systemic sclerosis (SSc)*

- **Major criteria**
 - Raynaud's phenomenon
 - antibodies (antinuclear, anticentromere, antitopoisomerase I)
 - diagnostic nailfold videocapillaroscopy
- **Additional criteria**
 - calcinosis
 - puffy fingers
 - digital ulcers
 - dysfunction of the oesophageal sphincter
 - telangiectasia
 - ground glass at chest high-resolution computed tomography

*Provisional criteria for the diagnosis of very early systemic sclerosis proposed by EULAR Scleroderma Trial and Research group (EUSTAR) (to be validated through a Delphi Technique) Diagnosis will be achieved when at least three major criteria are satisfied or two major plus one additional criteria are satisfied

2013 classification criteria for systemic sclerosis: an American college of rheumatology/European league against rheumatism collaborative initiative.

Table 1 The American College of Rheumatology/European League Against Rheumatism criteria for the classification of systemic sclerosis*

Item	Sub-item(s)	Weight/ score†
Skin thickening of the fingers of both hands extending proximal to the metacarpophalangeal joints (<i>sufficient criterion</i>)	–	9
Skin thickening of the fingers (<i>only count the higher score</i>)	Puffy fingers	2
	Sclerodactyly of the fingers (distal to the metacarpophalangeal joints but proximal to the proximal interphalangeal joints)	4
Fingertip lesions (<i>only count the higher score</i>)	Digital tip ulcers	2
	Fingertip pitting scars	3
Telangiectasia	–	2
Abnormal nailfold capillaries	–	2
Pulmonary arterial hypertension and/or interstitial lung disease (<i>maximum score is 2</i>)	Pulmonary arterial hypertension	2
	Interstitial lung disease	2
Raynaud's phenomenon	–	3
SSc-related autoantibodies (anticentromere, anti-topoisomerase I [anti-Scl-70], anti-RNA polymerase III) (<i>maximum score is 3</i>)	Anticentromere	3
	Anti-topoisomerase I	
	Anti-RNA polymerase III	

*These criteria are applicable to any patient considered for inclusion in a systemic sclerosis study. The criteria are not applicable to patients with skin thickening sparing the fingers or to patients who have a scleroderma-like disorder that better explains their manifestations (eg, nephrogenic sclerosing fibrosis, generalised morphea, eosinophilic fasciitis, scleredema diabeticorum, scleromyxedema, erythromyalgia, porphyria, lichen sclerosis, graft-versus-host disease, diabetic cheiroarthropathy).

†The total score is determined by adding the maximum weight (score) in each category. Patients with a total score of ≥ 9 are classified as having definite systemic sclerosis. SSc, systemic sclerosis.

Score ≥ 9 Sclerosi sistemica

Agenda

- Diagnosi precoce:
 - Razionale patogenetico
 - Razionale clinico
- L'esperienza delle Early Clinics e il ritardo diagnostico
- Prospettive future per la diagnosi precoce
 - Red flags
 - Nuovi biomarkers

La biopsia sinoviale può essere considerata un nuovo biomarcatore precoce di malattia?

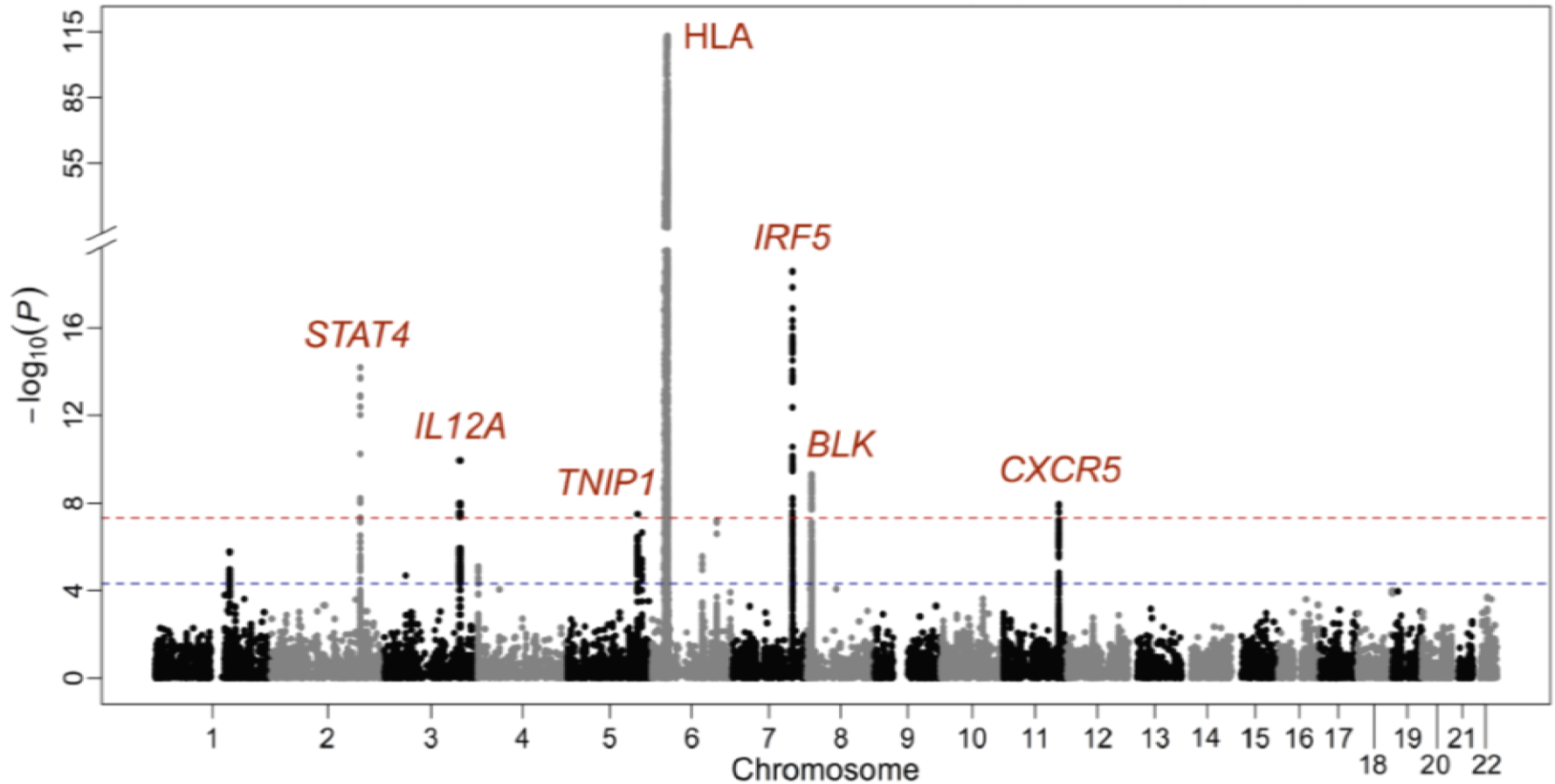
- Le biopsie possono aiutare a identificare fattori prognostici o di risposta terapeutica.

RESEARCH ARTICLE

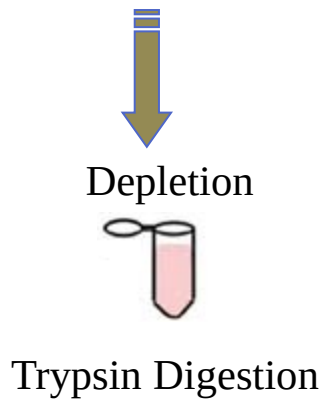
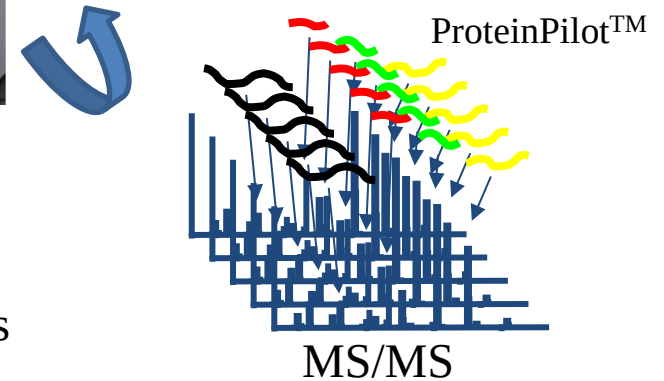
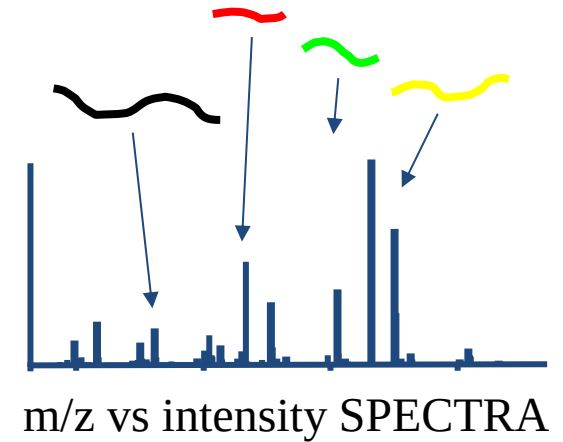
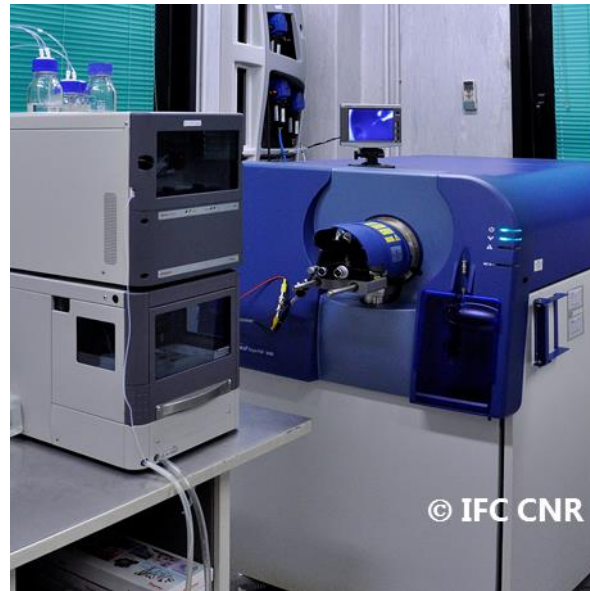
Stromal cell markers are differentially expressed in the synovial tissue of patients with early arthritis

Ivy Y. Choi^{1☯}, Olga N. Karpus^{2☯}, Jason D. Turner³, Debbie Hardie³, Jennifer L. Marshall³, Maria J. H. de Hair¹, Karen I. Maijer¹, Paul P. Tak^{1□a□b}, Karim Raza^{3,4}, Jörg Hamann², Christopher D. Buckley³, Danielle M. Gerlag^{1□c†*}, Andrew Filer^{3,5†*}

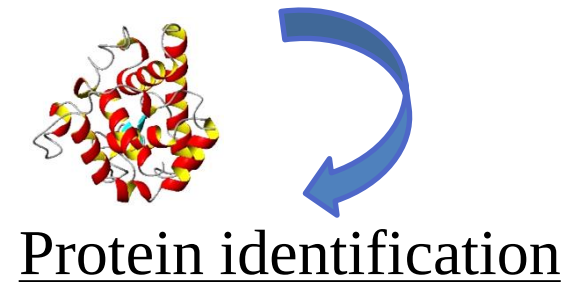
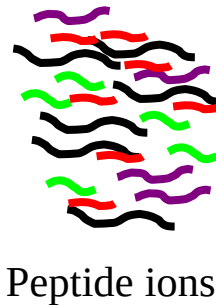
Nuovi biomarkers: Genomici



Nuovi biomarkers: Proteomica salivare

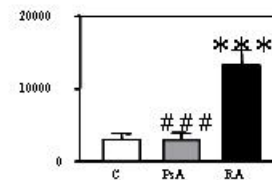
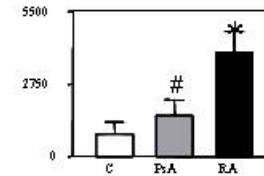
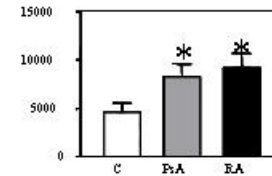


nanoLC-MS Proteomic Analysis



Rheumatoid Arthritis

PROTEIN	C	PsA	RA	KDa
14-3-3 gamma				← 26
14-3-3 sigma				← 27
GRP78/BiP				← 72
				← 64
				← 35
a-amylase precursor				← 57



	20
	15 F, 5 M
	57.6 ± 11
s)	9.5 ± 6
	RF+ 74% aCCP+ 70%

Conclusioni

