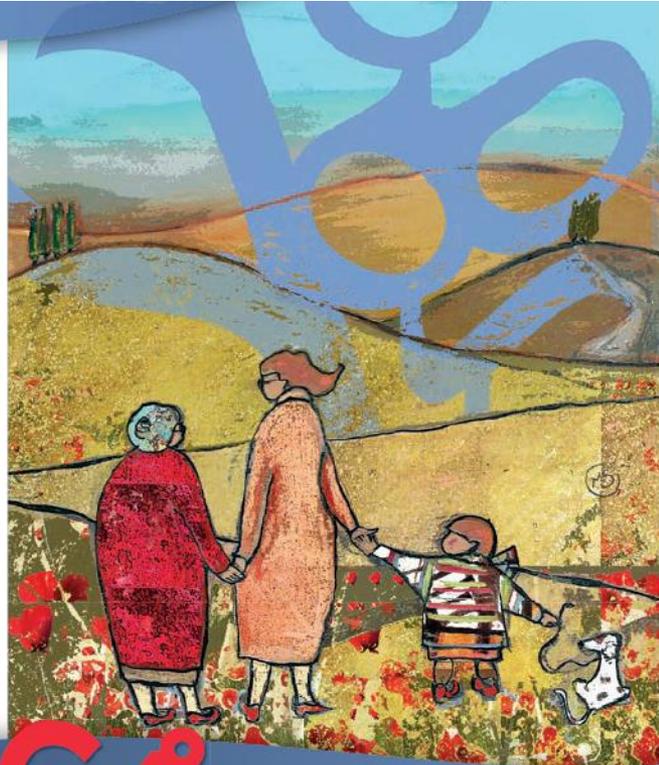




Le Terapie biologiche innovative nel paziente complesso

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64 CONGRESSO NAZIONALE SIGG

Continuità di affetti, continuità di cure

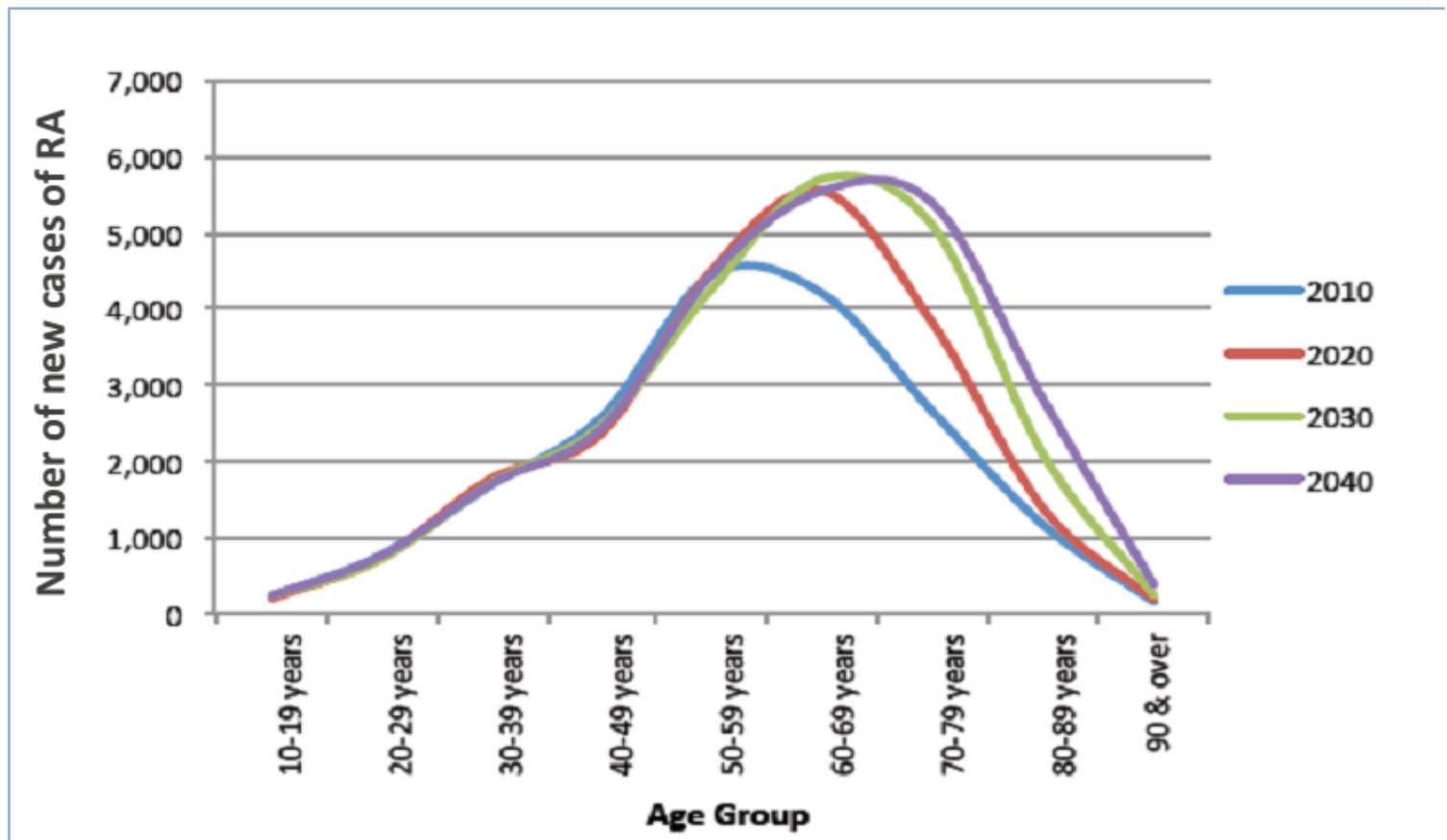
ROMA, 27/30 NOVEMBRE 2019 - AUDITORIUM DELLA TECNICA

Autoimmune Diseases

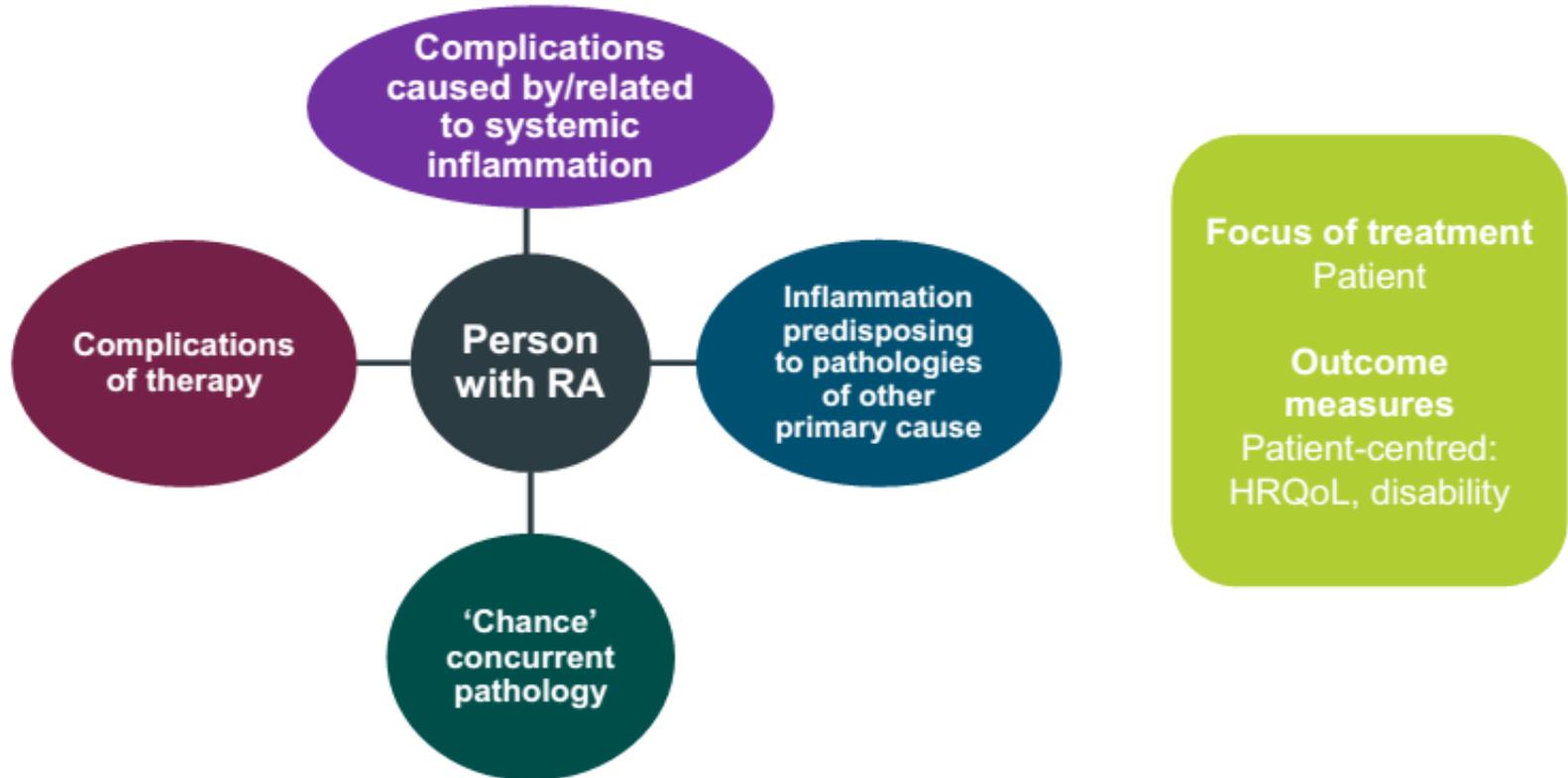
- ✓ Almost 5% of the world population develops AD. Of this 5% approximately 80% are women and it is considered the fourth leading cause of disability for them.
 - ✓ Considering all diseases in the class, the most common mean age-of-onset was 40–50 years.
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Rheumatoid Arthritis is the Incidence Rising?

The concept of rheumatoid arthritis, a chronic progressive inflammatory disease of the synovial joints, as a disorder of middle age is changing to include patients outside the range of 40 to 60 years.



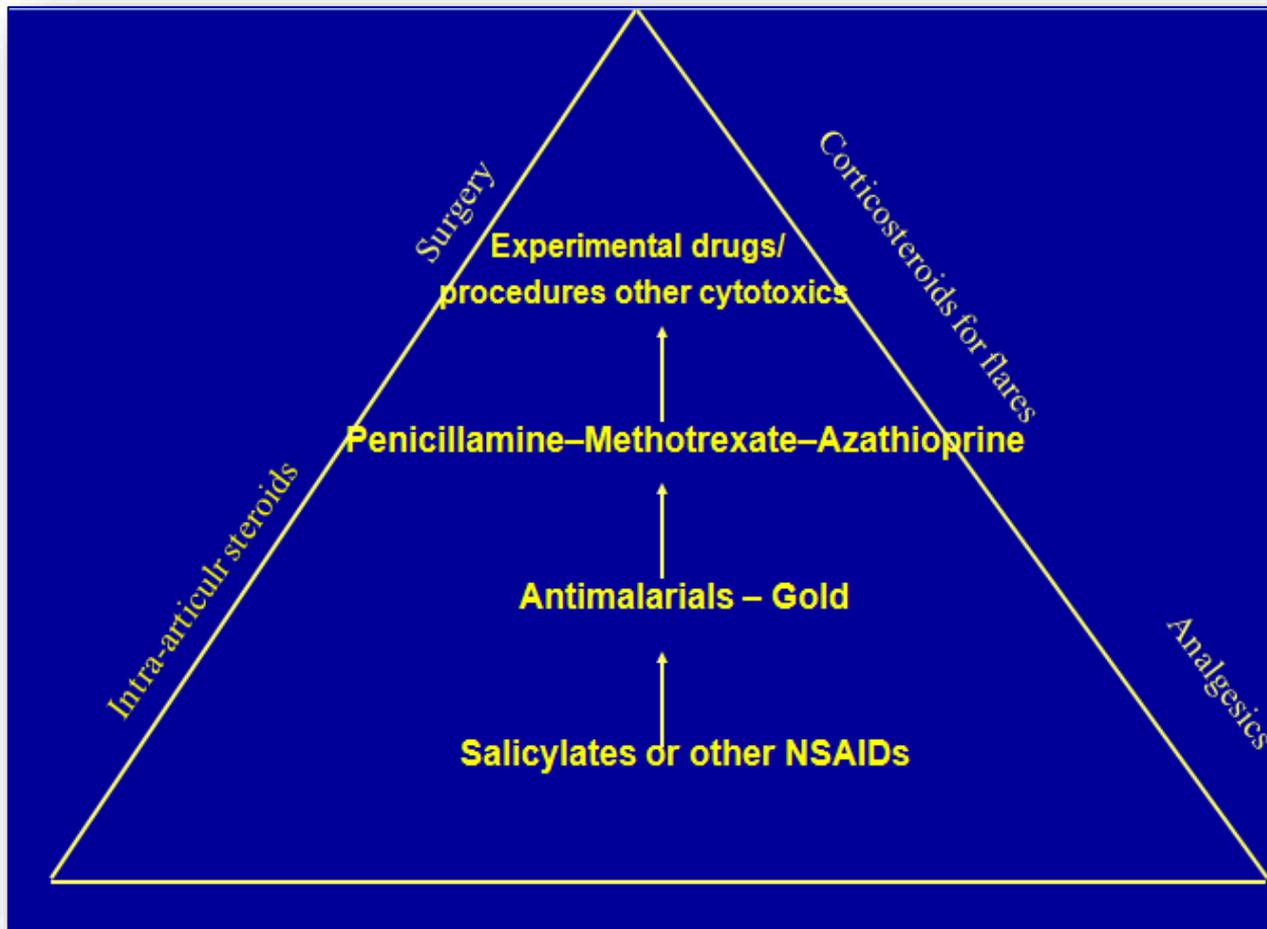
A patient-centred concept

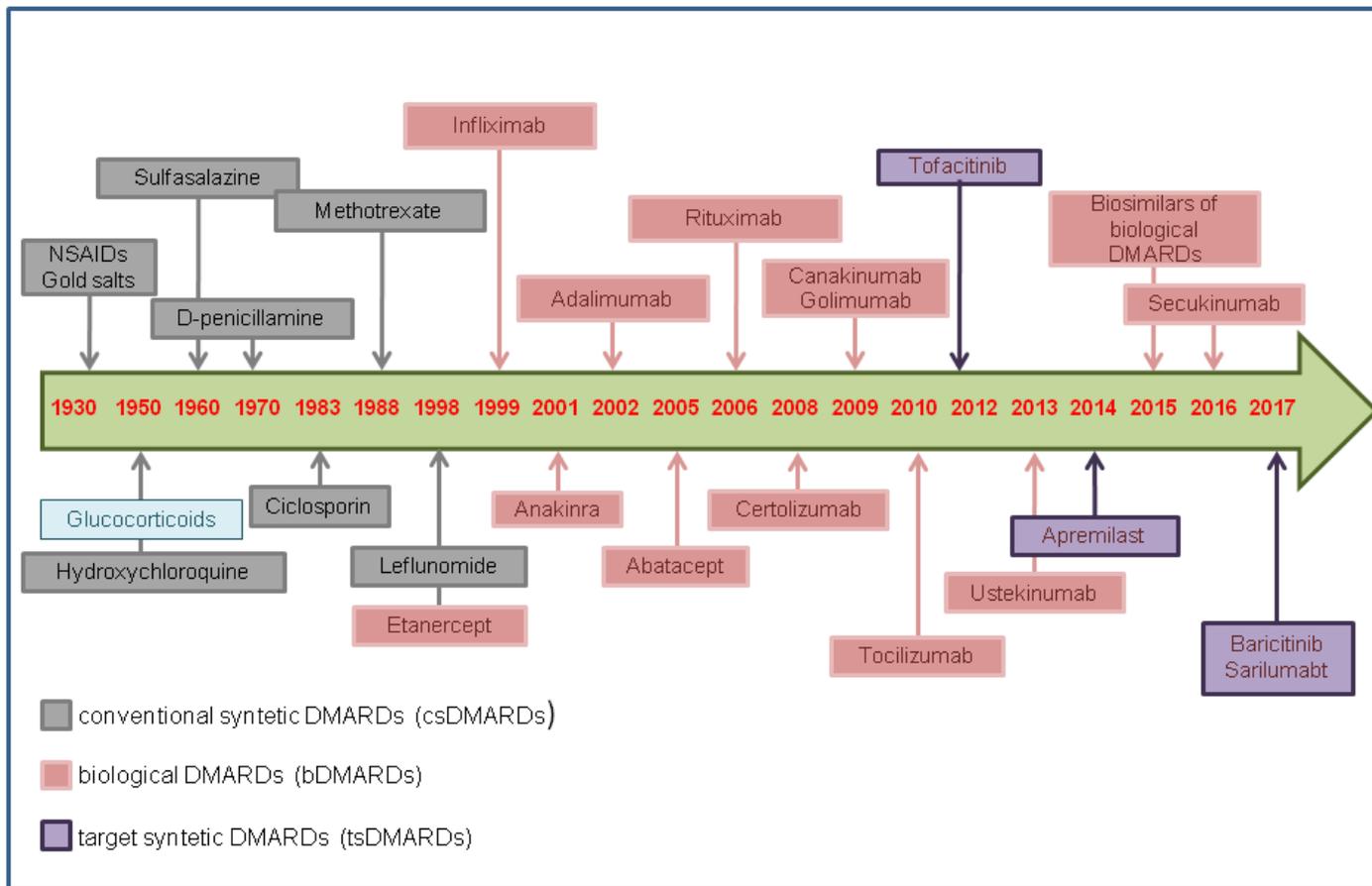


Cause age is one of the major determinants in clinical decision-making, there are distinct considerations for treatment strategies and clinical outcomes for elderly patients with RA.

Traditional Pyramid Model Treatment

The management of rheumatoid arthritis has changed dramatically over the past 30 years. Few therapeutic agents existed then, which were either minimally or not efficacious, because of toxicity and the fact that optimal dosing and onset of action had not yet been elucidated for some agents.





The mechanistic immune classification has implications for understanding the complexity of RA and for thinking about therapy in an **immune-centric way**.

antirneumatic drugs

Disease-modifying antirheumatic drugs (DMARDs)

Synthetic DMARDs (sDMARDs)

Conventional synthetic DMARDs (csDMARDs)

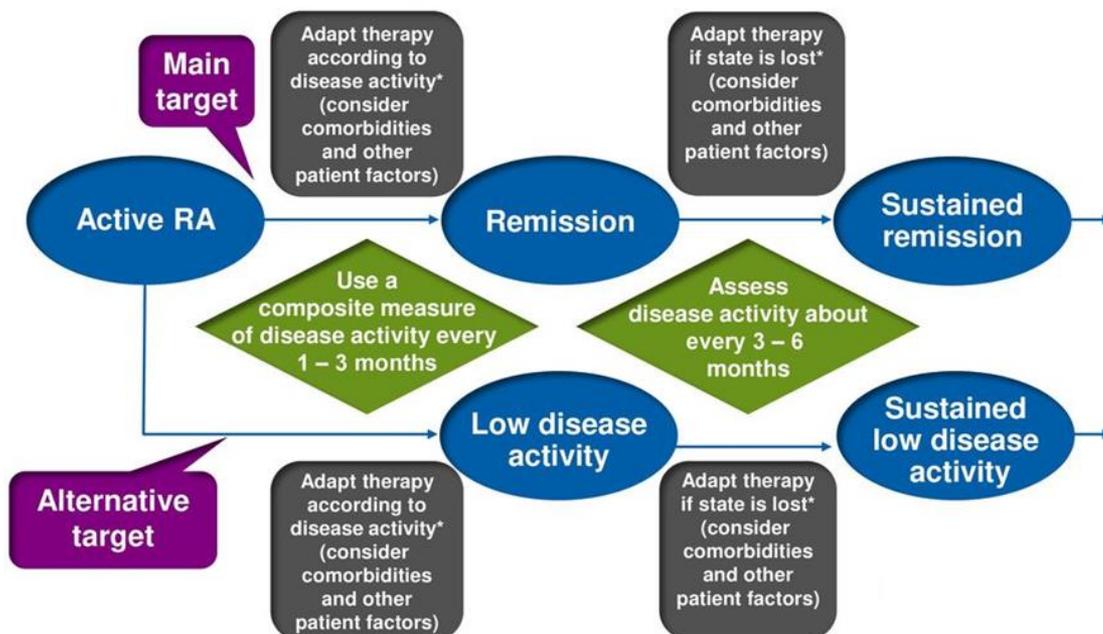
Targeted synthetic DMARDs (tsDMARDs)

Biological DMARDs (bDMARDs)

Biological originator DMARDs (boDMARDs)

Biosimilar DMARDs (bsDMARDs)

Algorithm for treating rheumatoid arthritis (RA)



These recommendations suggest intensifying the disease-modifying antirheumatic drug (DMARD) strategy, if improvement or the treatment target is not achieved within 3 or 6 months, respectively.

Nevertheless, a significant proportion of patients remains symptomatic after several cycles of treatment, which makes them **difficult to treat (5-20%)**; this is a significant clinical problem in daily practice.

Annals of the Rheumatic Diseases

The EULAR Journal



ard.bmj.com

The use of validated composite measures of disease activity, which include joint assessments, is needed in routine clinical practice to guide treatment decisions

The choice of the (composite) measure of disease activity and the target value should be influenced by comorbidities, patient factors and drug-related risks

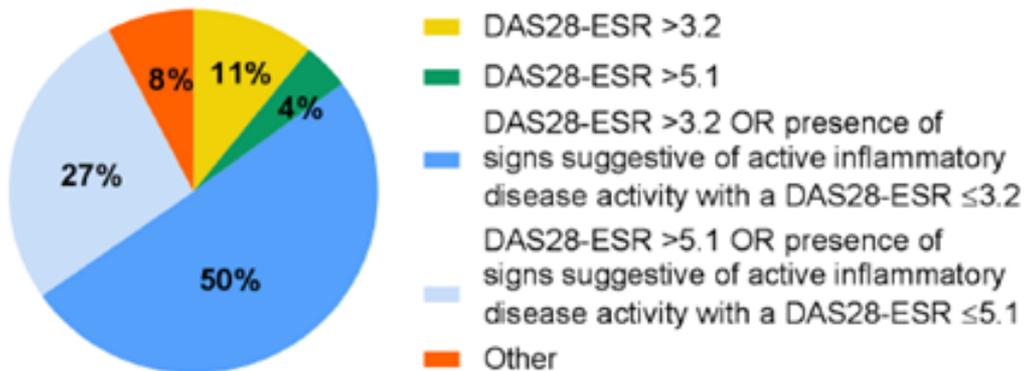
Recently, a EULAR Task Force has been initiated on the development of recommendations for the comprehensive management of difficult-to-treat RA. The results of this survey will fuel discussions on items to include in the management recommendations of difficult-to-treat RA.

In conclusion, the results of this survey underscore the difficulty in establishing an unambiguous concept of difficult-to-treat RA, which is seen as a heterogeneous condition not fully covered by current EULAR recommendations. The recently established EULAR Task Force will explore the management of difficult-to-treat RA further.

Difficult-to-treat RA

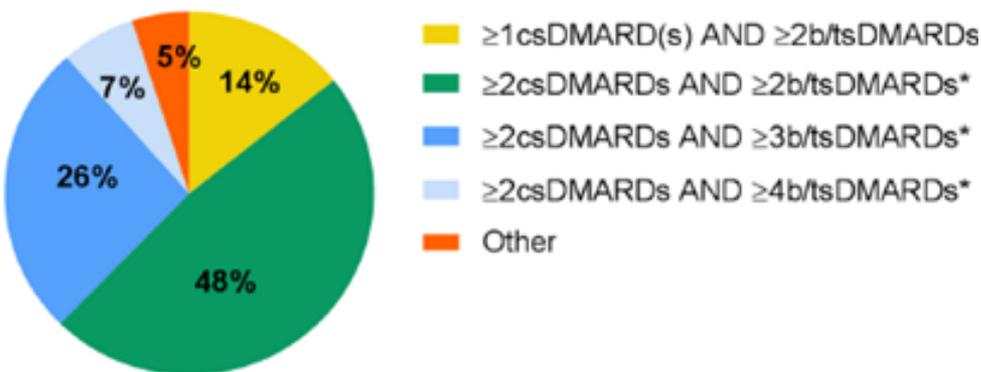
1. There is no definition of difficult to treat RA.
2. Difficult to treat RA is a multifactorial condition in which, for each individual patient, different factors may be major determinants of persistence of sign and symptoms, which is seldom caused by drug resistance only.
3. The poor understanding of characteristics, mechanisms and biological correlates of these factors hamper clinical decision making.
4. Multiple different factors can lead to drug discontinuation or difficulty in grading RA activity.
5. The complex interplay of contributory factors indicates an individualized management approach for difficult-to-treat RA patients.

A. What should be the definition for not well-controlled disease in the definition of difficult-to-treat RA?



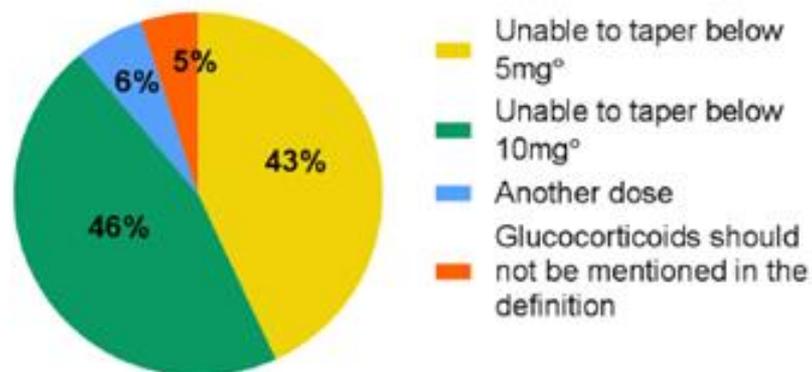
Total responses = 409

C. Which and how many antirheumatic drugs should at least be tried with insufficient effect for the definition of difficult-to-treat RA?



Total responses = 398

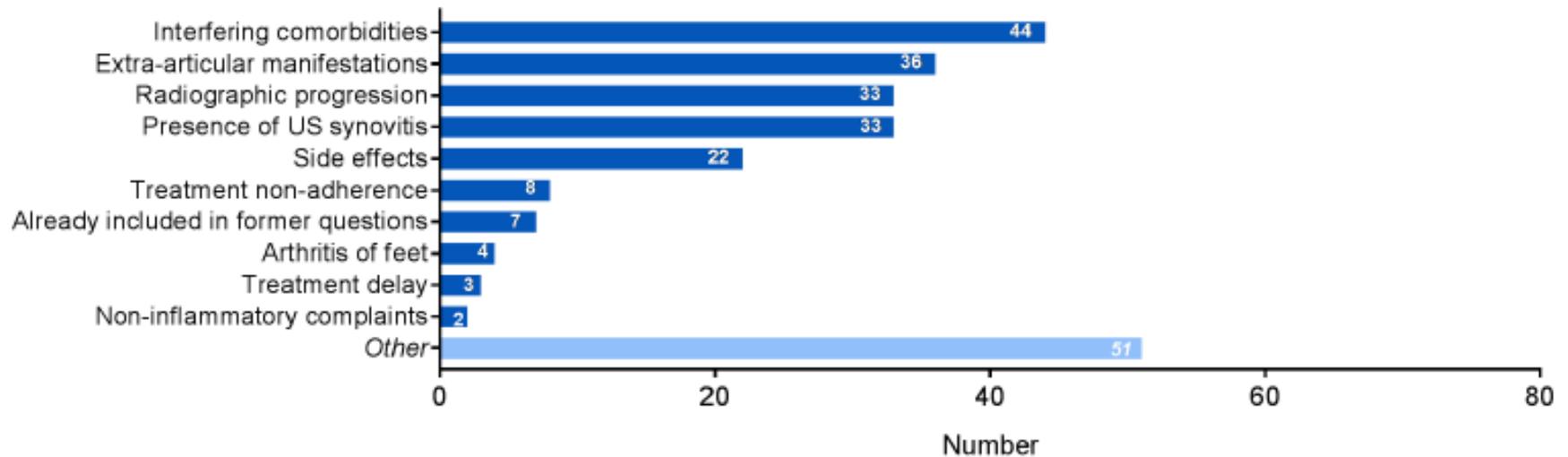
D. Treatment with glucocorticoids should be mentioned in the criteria for difficult-to-treat RA as follows:



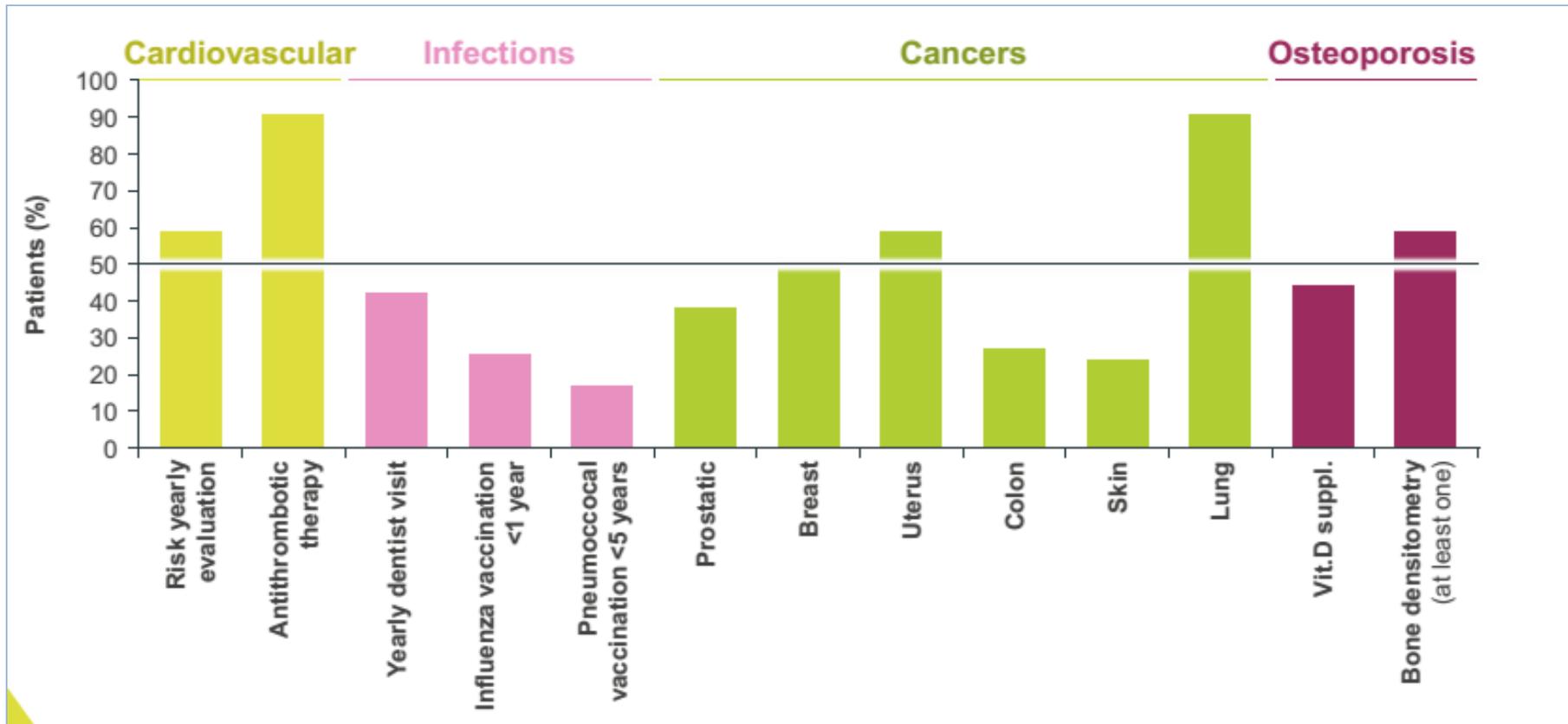
Total responses = 397

Difficult-to-treat RA

E. Additional characteristics of difficult-to-treat RA



How do we deal with RA-related comorbidities? The COMORA study



Considerations of comorbidities and disease activity measures

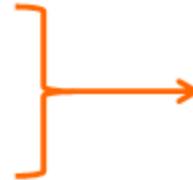
- Depression
- Fibromyalgia



No. of tender joints increased

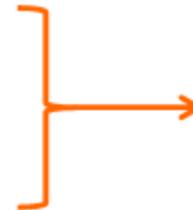
Patient's assessment of disease activity may be exaggerated

- Comorbidities with increased ESR and/or CRP



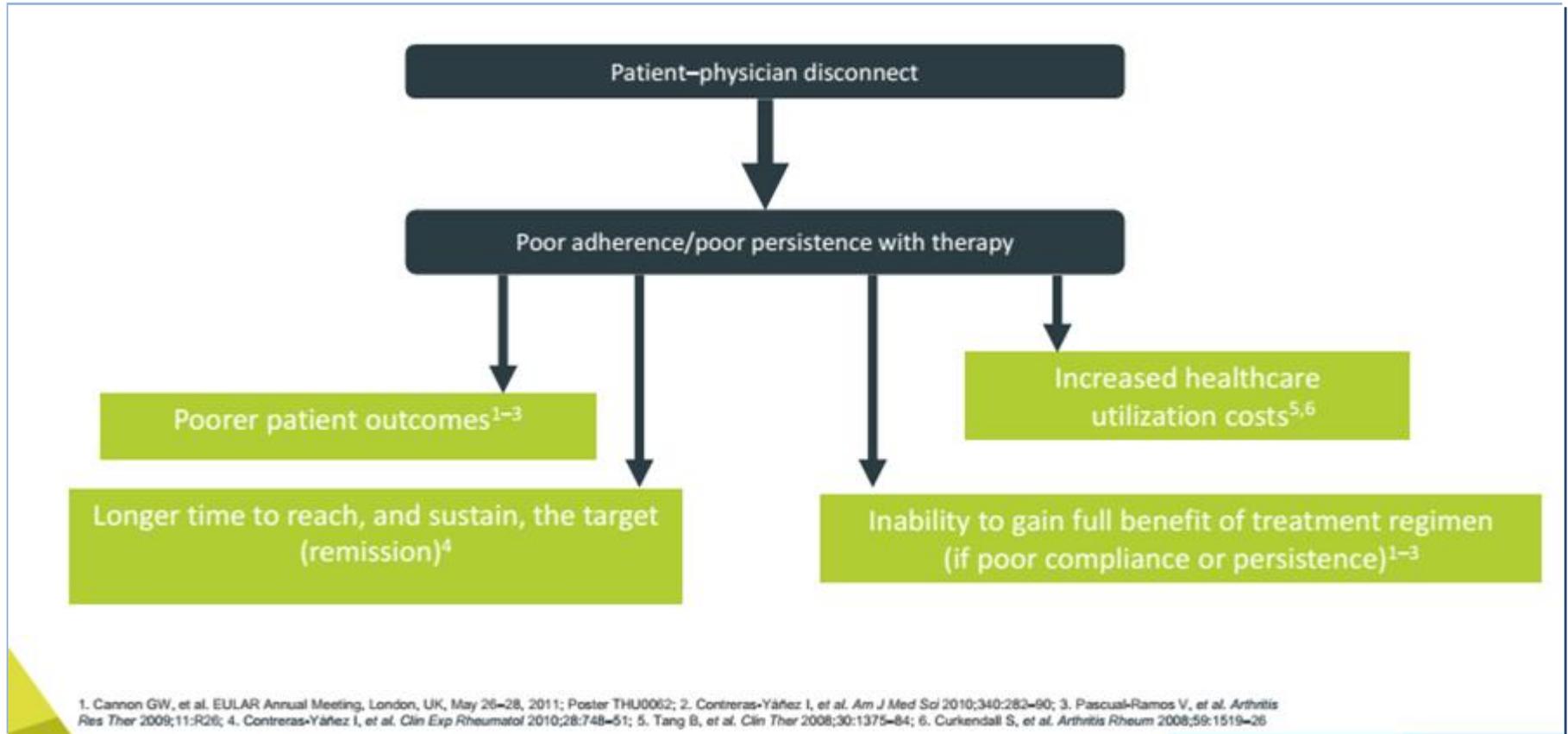
Disease activity scores that employ ESR or CRP may be influenced

- Chronic infections, renal or hepatic functional impairment, congestive heart failure



Target value may be adjusted

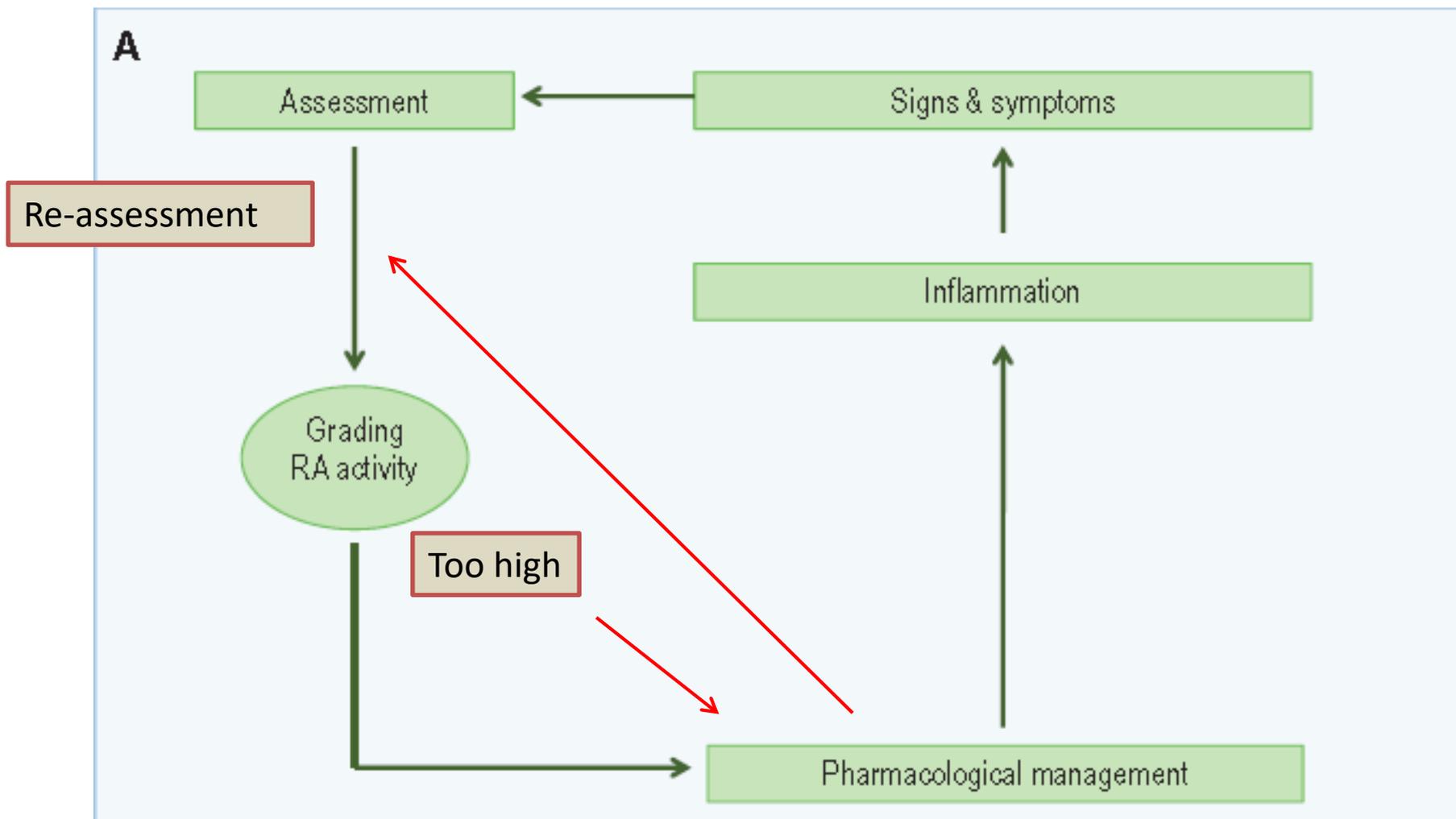
Patient-Physician disconnect: a chain of problematic events ensues



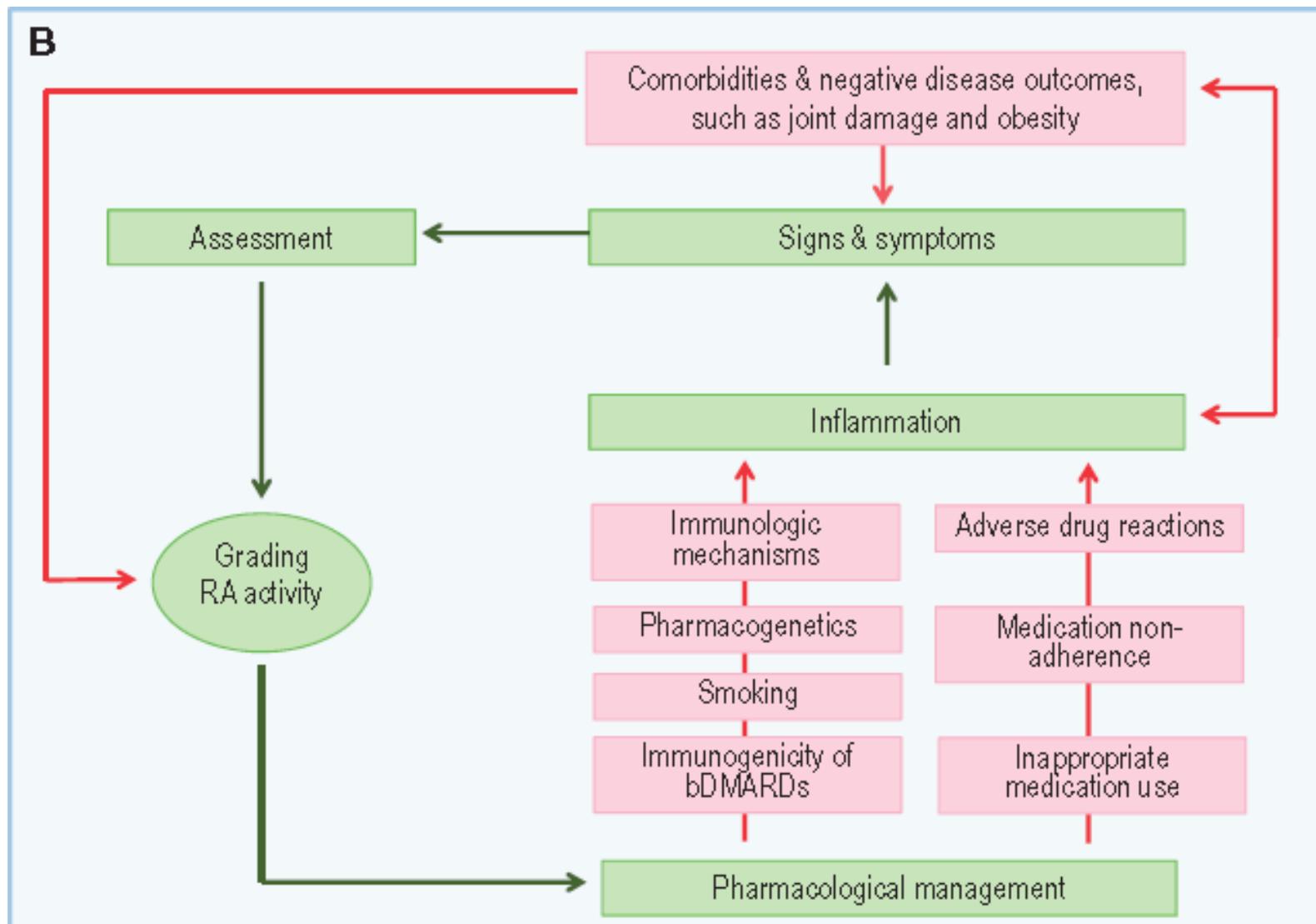
Systemic or extra-articular manifestations

- Systemic or extra-articular manifestations are common in patients with rheumatoid arthritis (RA).
- The prevalence of systemic manifestations reported in studies of RA is approximately 8% up to 40%.
- Extra-articular manifestations of RA are associated with significant morbidity and increased mortality.
- Many of the extra-articular manifestations of RA are associated with increased disease activity and with markers of inflammation.

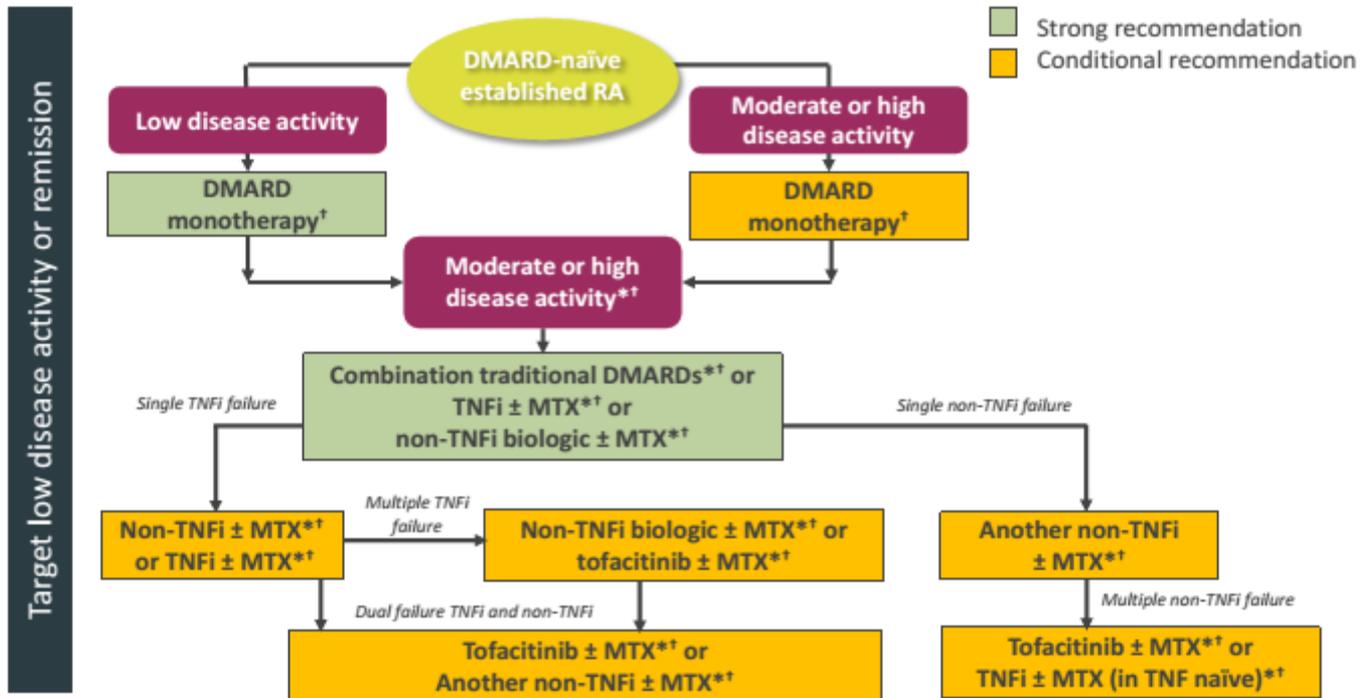
The management cycle of uncomplicated RA



The management cycle of complicated / difficult-to-treat RA



ACR 2015 guidelines: established RA (≥6 months)



*Consider adding low-dose glucocorticoids (<10 mg/day of prednisone or equivalent); †Consider using short-term glucocorticoids (defined as <3 months treatment) for RA disease flares
 Singh J, et al. *Arthritis Care Res* 2016;88:1-25

Special situations: congestive heart failure

- In patients with established RA **with moderate or high disease activity and NYHA class III or IV CHF**, we conditionally recommend using **combination DMARD therapy, a non-TNF biologic, or tofacitinib** rather than a TNFi
- If patients in this population are **treated with a TNFi and their CHF worsens while on the TNFi**, we conditionally recommend **switching to combination DMARD therapy, a non-TNF biologic, or tofacitinib** rather than a different TNFi

Special situations: hepatitis B

- In patients with established RA with **moderate or high disease activity and evidence of active hepatitis B** infection (hepatitis surface antigen positive >6 months), **who are receiving or have received effective antiviral treatment**, we **strongly recommend treating them the same as patients without this condition**
- For a patient with natural **immunity from prior exposure to hepatitis B** (i.e., HB core antibody and HBS positive and normal liver function tests), we **recommend the same therapies as those without such findings** as long as the patient's viral load is monitored
- For patients with **chronic hepatitis B who are untreated**, **referral for antiviral therapy** is appropriate **prior to immunosuppressive therapy**

Special situations: hepatitis C

- In patients with established RA with **moderate or high disease activity and evidence of chronic HCV infection, who are receiving or have received effective antiviral treatment**, we conditionally recommend **treating them the same as the patients without this condition**
- We recommend that **rheumatologists work with** gastroenterologists and/or **hepatologists** who would monitor patients and reassess the appropriateness of antiviral therapy. This is important considering the recent availability of highly effective therapy for HCV, which may lead to a greater number of HCV patients being treated successfully.
- If the same **patient is not requiring or receiving antiviral treatment for their hepatitis C**, we conditionally recommend **using DMARD therapy rather than TNFi**

Special situations: malignancies

Previous melanoma and non-melanoma skin cancer

- In patients with established RA and moderate or high disease activity and a **history of previously treated or untreated skin cancer** (melanoma or non-melanoma), we conditionally recommend the **use of DMARD therapy over biologics or tofacitinib**

Previous lymphoproliferative disorders

- In patients with established RA with moderate or high disease activity and a **history of a previously treated lymphoproliferative disorder**, we strongly recommend using **rituximab rather than a TNFi** and conditionally recommend using **combination DMARD therapy, abatacept or tocilizumab rather than TNFi**

Previous solid organ cancer

- In patients with established RA with moderate or high disease activity and **previously treated solid organ cancer**, we conditionally recommend that they **be treated for RA just as one would treat an RA patient without a history of solid organ cancer**

Special situations: serious infections

- In patients with established RA with moderate or high disease activity and **previous serious infection(s)**, we conditionally recommend using **combination DMARD therapy or abatacept rather than TNFi**

Original article

Comparative effectiveness of abatacept, rituximab, tocilizumab and TNFi biologics in RA: results from the nationwide Swedish register

Thomas Frisell¹, Mats Dehlin², Daniela Di Giuseppe ¹, Nils Feltelius³, Carl Turesson^{4,5} and Johan Askling¹ on behalf of the ARTIS Study Group*

Current guidelines rank abatacept, rituximab, tocilizumab and TNF-inhibitors (TNFi) as having equal effectiveness for the treatment of RA, at least as second line therapies.

Treatment outcomes among RA patients treated in Swedish clinical practice are in line with a superior effectiveness of non-TNFi bDMARDs, in particular tocilizumab and rituximab, compared with TNFi.

Conclusions

- ✓ Current management recommendations (treat-to-target / EULAR / ACR) do not cover management of comorbid conditions;
- ✓ Treat-to-target recommendations make a strong case on considering comorbidities when choosing the target scale and setting the numerical target;
- ✓ The ACR guidelines consider various comorbidities and their implications for therapy of RA;
- ✓ Age is one of the major determinants in clinical decision-making;
- ✓ Due to the lack of knowledge about the different weight of contributing factors of difficult-to-treat RA in clinical practice treatment steps and decision for each patient are based on trial and error;
- ✓ Until an effective treatment regimen or approach is found, patients continue to suffer from sign and symptoms that impact directly their social life, work ability and quality of life;
- ✓ Beside the personal impact, difficult to treat RA also affect negatively health care utilization, hospital budgets and society cost.

The World Incidence and Prevalence of Autoimmune Diseases is Increasing

THE ECONOMICS OF ARTHRITIS

\$128 BILLION
Annual cost of medical care, lost wages and productivity due to arthritis.

90%
Percentage of rheumatoid arthritis patients who will stop working before a normal retirement age.

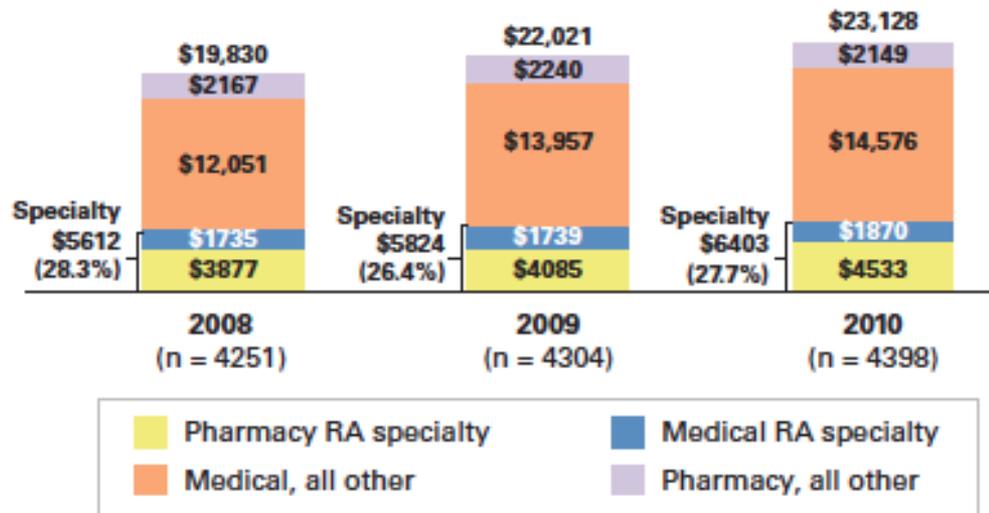
10%
Percentage of rheumatoid arthritis patients who will stop working within a year of diagnosis without aggressive treatment.

1 in 3
Arthritis patients who experience work limitations.

ARTHRITIS FOUNDATION
Johns Hopkins, McCarroll
www.arthritis.org/ra

There are 100 different types of arthritis, the nation's leading cause of disability striking one in every five adults and 300,000 children. The Arthritis Foundation is working night and day to improve these numbers. But we need your help. Join us today to help find the cures and end the pain.

■ **Figure. Annual Average Cost of Care for Rheumatoid Arthritis Patients^a**



RA indicates rheumatoid arthritis.

Reprinted with permission from Gleason PP, et al. *J Manag Care Pharm.* 2013;19:542-548.