Updating the therapeutic strategy in Rheumatoid Arthritis: what is effective, what is changing in daily practice regarding the use of DMARDs and biological agents. The Romanian experience

> C. Codreanu, Assoc Prof MD PhD Center of Rheumatic Diseases Bucharest, Romania

RA Prevalence in Romania

- No local data available
- The estimated prevalence of RA is 0.5 –1%
 (around 150,000 patients)
- In 2008, 20,000 patients were hospitalized for RA in Romania

RA: Advances in treatment

- Major advances in the treatment of RA have been seen during the last decade:
 - Joint damage occurs early
 - Early use of DMARDs prevents accumulation of damage
 - Better treatment strategies are able to improve outcomes
- Goals of RA treatment are remission or low disease activity and prevention of structural damage
- Introduction of biologic agents (TNF blockers)

EULAR Recommendations for the Management of RA With Synthetic and Biological DMARDS

- No 1: Treatment with synthetic DMARDs should be started as soon as the diagnosis of RA is made
- No 3: MTX should be part of the first treatment strategy in

patients with active RA

 No 8: In patients responding insufficiently to MTX ... biological DMARDs should be started; current practice would be to start a TNF inhibitor Do TNF Antagonists Meet Today's Requirements for Effective RA Therapy?

Highly Effective in DMARD-Resistant RA:

- Signs and symptoms
- Radiographic progression
- Disability & health related QoL

Romanian guidelines for biological agents

- Based on EULAR endorsed guidelines, adapted to national conditions, mandatory for all Romanian rheumatologists
- provide a management plan, giving clear inclusion/ exclusion and response criteria
- Recommendations applicable for the prescription of biological agents in RA, PsA, AS

Treatment in RA



Certolizumab , Golimumab Tocilizumab, Abatacept Are available but not reimbursed

Total Number of Patients treated with Biologics in Romania (2012) *

RA	4885
AS	1859
PsA	913
JIA	127
TOTAL	7108

* Data from National Health Insurance House

Total number of RA patients treated with Biologics in Romania



* Data from National Health Insurance House

Romanian guidelines Inclusion criteria for anti TNF therapy in RA

- Active and severe RA defined as :
 - DAS28 >5.1, including >5 swollen and tender joints plus 2 of the 3 criteria: Morning stiffness >60 minutes ESR >28mm/h CRP>20mg/l
- Treatment with 2 classical DMARDs for at least 12 weeks each, in maximum tolerated dosages is required prior to recommending a TNF blocker;

(MTX is the first DMARD option, except proven contraindications!)

Positive expert opinion for the initiation of anti TNF therapy

Exclusion criteria for anti TNF therapy in RA

Severe infections:

sepsis, active TB, opportunistic infections before treatment -TB screening is mandatory !!

- Heart failure (NYHA III/IV)
- History of hypersensitivity to infliximab, etanercept, adalimumab
- Gravidity
- Children between 0-17 years of age (infliximab)
- Lupus or lupus-like syndrome
- Any contraindications known for the TNF α blockers
- Hepatitis B virus infections

Algorithm for TB screening: European-Based Recommendations



Arend SM, et al. Netherlands J Med. 2003;61:111-119.

Anti TNF therapy and tuberculosis in Romania

- 2000 2004 (screening TB wasn't mandatory in Romania)
- 345 patients treated with Infliximab
- 22 cases of TB
- In 2005 screening for TB became mandatory!

TB screening and exclusion of patients with latent TB generated a ten times reduction of TB cases!

TUBERCULOSIS IN RA PATIENTS TREATED WITH INFLIXIMAB – THE ROMANIAN EXPERIENCE

A. Balanescu, M. Bojinca, D. Bumbacea, Bojinca, D. Opris, F. Berghea, D Predeteanu, R. Ionescu

Arthritis Rheum, 2006, 54 (9S), S405



Fig. 12 Rates of TB cases in IFX treated RA pts. pre- and postscreening. A significant reduction has been obtained (6.36% vs. 0.52%, p < 0.001)

TB screening started in Sept 2009

Preferred strategy by pneumologist:

- QuantiFERON-TB Gold In Tube instead of PPD skin test
- more sensitive than PPD skin test in detecting LTB
- > are not influenced by BCG vaccination

Outcome assessment for continuing anti TNF therapy

- Is done after 6 month of treatment
- Takes into consideration: DAS28, ESR, CRP Responder is defined a patient with a DAS 28 improvement > 1,2 or DAS28<3,2 and 50% decrease of ESR or CRP

Various types of TNF failure



Switch Between Biologics

In patients with a suboptimal response to the initial anti-TNF treatment a switch to another biologic agent (another TNF- α inhibitor or a drug with an alternative mode of action) is required and can lead to an improved response



Inadequate response to anti-TNF therapy: what are the options?

Switch to another anti-TNF agent?

- Etanercept
- Infliximab
- Adalimumab
- Golimumab
- Certolizumab

Initiate treatment with a biological agent with a different mechanism of action?

- Rituximab
- Tocilizumab
- Abatacept
- Anakinra

RA Biologic Market

by Brands Market Share Pts - NIH Shared Data



To "wheel" or NOT to "wheel"?



Management of RA

- The ultimate goal of RA treatment:
 - 'Remission'

New Strategies

- Remission
 - Clinical •
 - Radiographic/US/MRI
- Low disease activity



- Early treatment
- Intensive approach for monitoring & therapy will give better results
- We need to set targets and • adapt/change therapy to achieve goals

Early & aggressive use of combined treatments with biologics could modify the natural history of RA

Better Tools