# RHEUMATOID ARTHRITIS

## LEARNING OBJECTIVES



Discuss the clinical presentation of Rheumatoid arthritis Name the differential diagnosis of Rheumatoid arthritis

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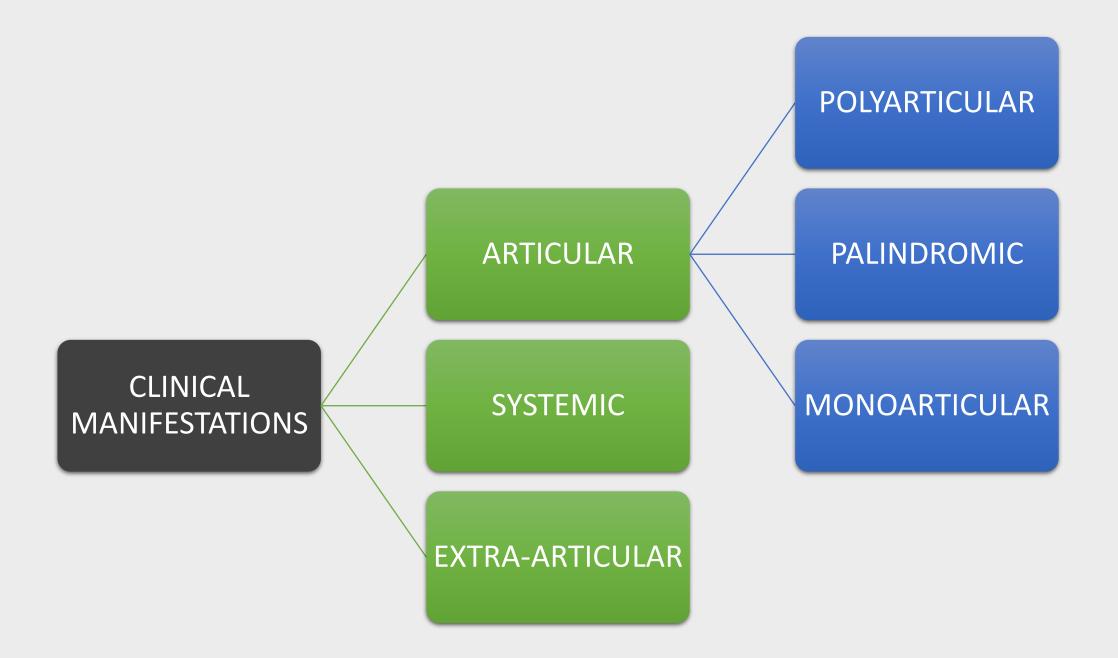
Discuss the diagnostic criteria of Rheumatoid arthritis

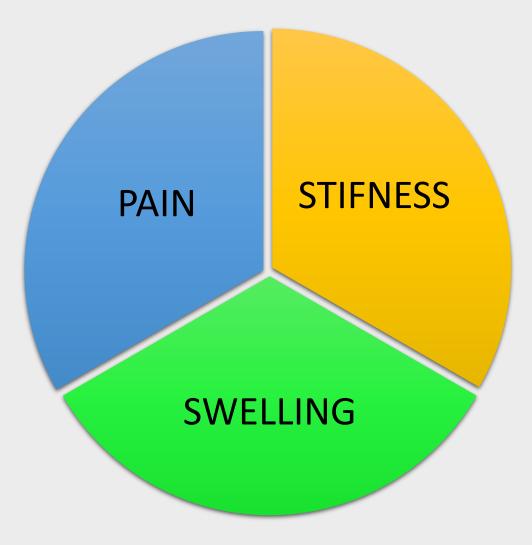
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Describe general management plan

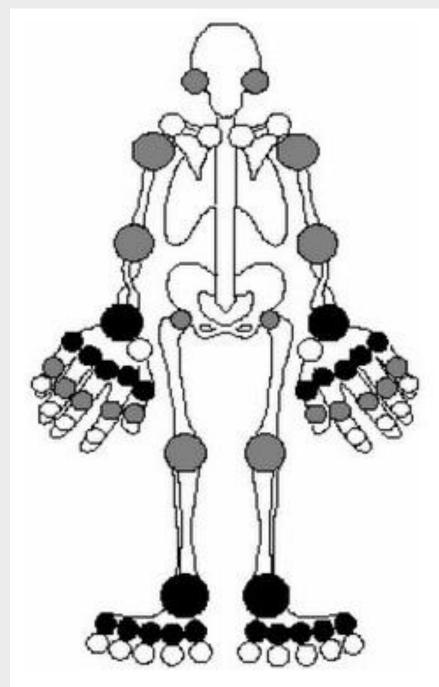
of Rheumatoid

arthritis

















## SYSTEMIC SYMPTOMS

40% May precede

Widespread aches / myalgias

Depression

Fatigue

Weight loss

## EXTRA-ARTICULAR MANIFESTATIONS

40% Severe disease RF +

#### Osteopenia

#### Muscle weakness

• Disuse atrophy, Drugs, Myositis

#### Skin disease

• Nodules, skin ulcers,

#### Eye disease

• Sjogren's syndrome, Scleritis, Episcleritis, Drugs

#### Lung disease

• Pleuritis and pleural effusion, Interstitial fibrosis, pulmonary nodules

## EXTRA-ARTICULAR MANIFESTATIONS

40% Severe disease RF +



#### Cardiac disease

• Pericarditis, Myocarditis, Coronary artery disease, Heart failure

#### Vascular disease

• Vasculitis, peripheral vascular disease, venous thromboembolism

#### Kidney disease

• Drugs, Amyloidosis, Glomerulonephritis

#### Neurologic & Psychiatric disease

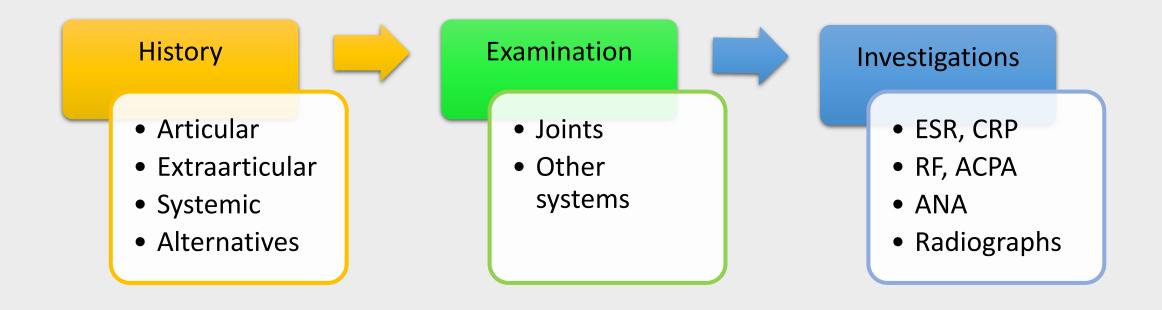
• Carpal tunnel syndrome, myelopathy / radiculopathy, Neuropathy, Depression



## LABORATORY INVESTIGATIONS

- Acute phase reactants: ESR, CRP
- Synovial fluid analysis
- Hematologic
- Autoantibodies: Rheumatoid factor, Anti-CPA

## DIAGNOSIS



### 2010

• ACR/EULAR criteria

### 1987

• ACR Criteria

Inflammatory arthritis involving three or more joints

Elevated levels CRP or ESR

## DIAGNOSIS

Positive RF and/or ACPA

Diseases with similar clinical features have been excluded

The duration of symptoms is more than six weeks

### DIFFERENTIAL DIAGNOSIS

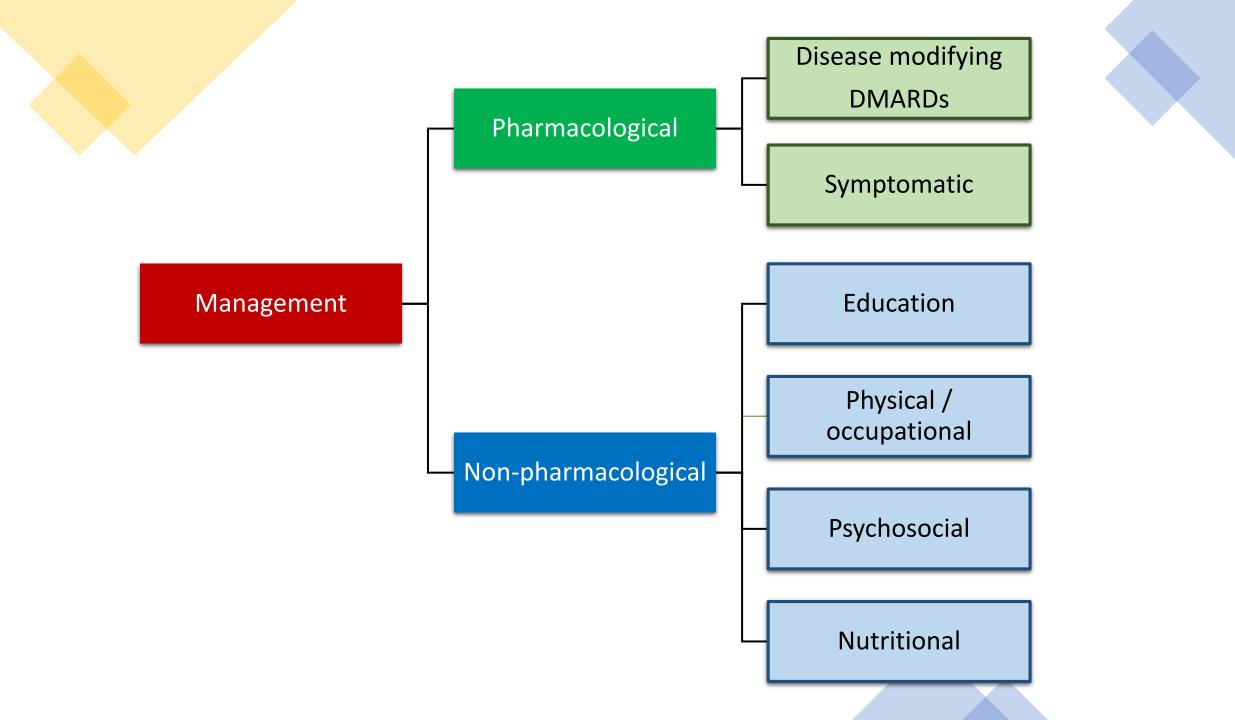
- Viral polyarthritis
- SLE
- Sjogren syndrome
- Dermatomyositis
- Osteoarthritis
- Carpal tunnel syndrome

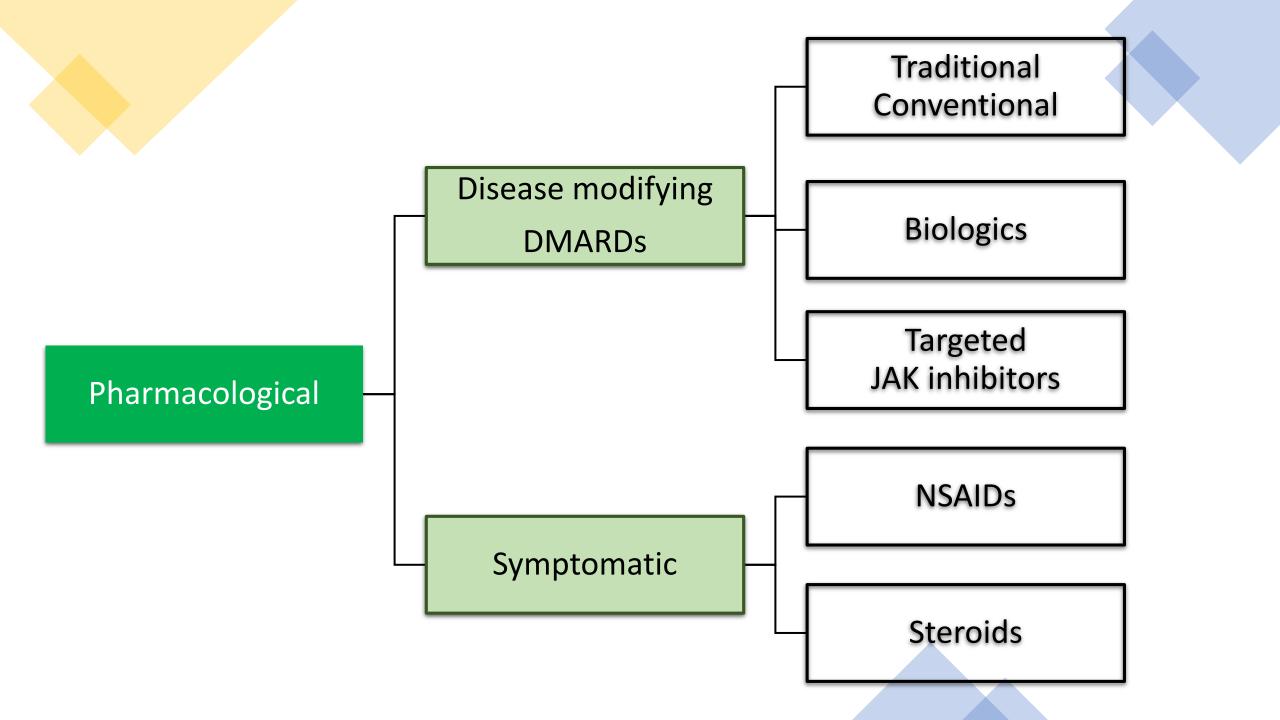
- Seronegative arthritides (Reactive, Psoriatic, IBD)
- Gout & Pseudogout
- Infectious arthritis (e.g. Lyme, others)
- Chronic sarcoid arthropathy

- Control of synovitis
- Prevention of joint injury

- Early diagnosis
- Early DMARDs
- Liaison with expert
- Anti-inflammatory adjunct
- Tight control







csDMARDs	boDMARDs	tsDMARDs
Methotrexate (MTX)	TNF Inhibitors	JAK Inhibitors
Hydroxychloroquine (HCQ)	<ul> <li>Etanercept</li> </ul>	Tofacitinib
Sulfasalazine (SSZ)	<ul> <li>Adalimumab</li> </ul>	Baricitinib
Leflunomide (LEF)	<ul> <li>Certolizumab</li> </ul>	
	<ul> <li>Golimumab</li> </ul>	
	<ul> <li>Infliximab</li> </ul>	
	Abatacept	•
	Rituximab	
	IL-6 Receptor Inhibitors	
	<ul> <li>Tocilizumab</li> </ul>	
	Sarilumab	

#### • Disease severity

 $\circ$  Remission, low, moderate, high

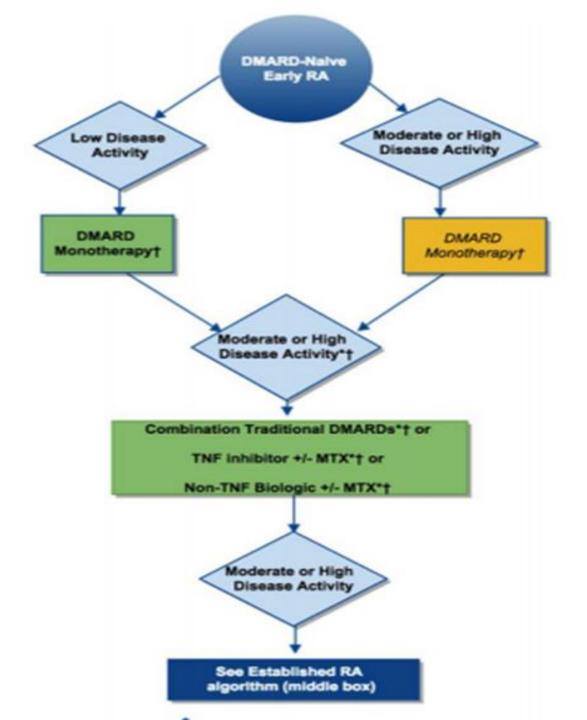
#### Pretreatment evaluation

General testing for all patients
Hepatitis virus screening
Ophthalmologic screening
Testing for latent tuberculosis

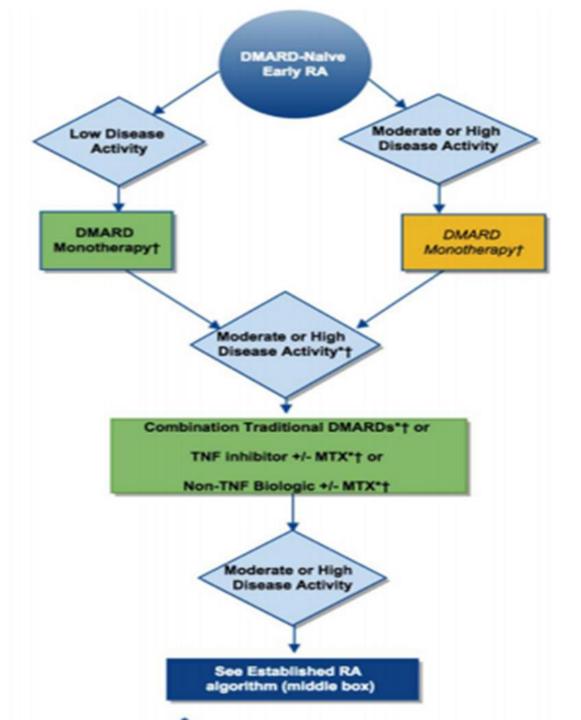
• Choice of therapy • Different factors



- Initiate therapy with a DMARD
- MTX as the initial DMARD
- In patients unable or unwilling to take MTX at the initiation of DMARD therapy, use monotherapy with leflunomide, sulfasalazine, hydroxychloroquine, or a tumor necrosis factor (TNF) inhibitor



- NSAIDs and/or glucocorticoids (systemic and/or intraarticular) for initial symptomatic control of inflammation while awaiting the response to DMARD therapy.
- NSAIDs / Steriods never as sole agents
- In patients not achieving remission or low disease activity with appropriate doses of MTX monotherapy after three to six months, preferred approach is to initiate combination therapy.



## MONITORING

- Disease activity
- Disease complications
- Adverse drug effects





## Comments

Queries