جامعه ذي قار كليه التمريض

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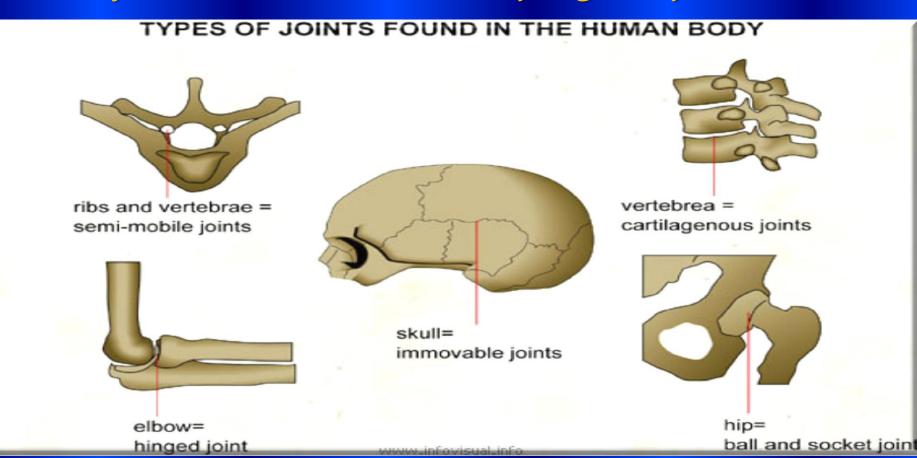
Rheumatoid Arthritis LUPUS

Prepare by المراكبة المراكبة

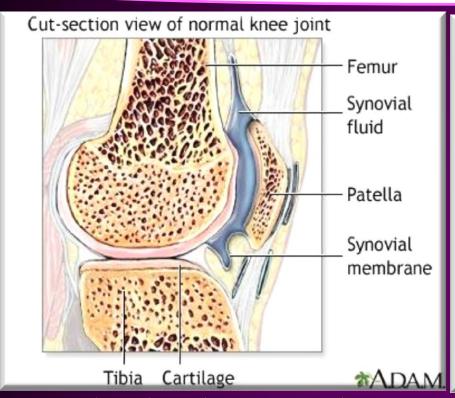


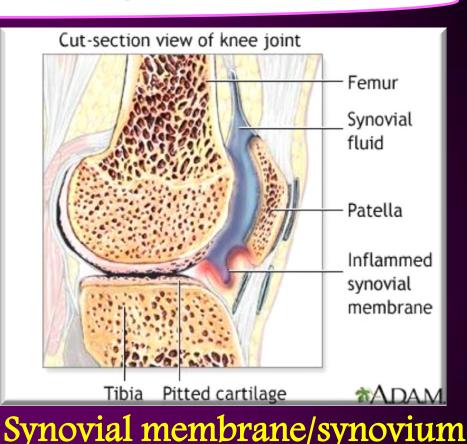
What are joints?

- ☐ Joint pain is an early symptom of Arthritis
- ☐ The joint is the area where bones meet!
- Synovial joints are responsible for movement
 The joint is the area most commonly targeted by inflammation



Anatomy of the Joint





Articular/hyaline cartilage

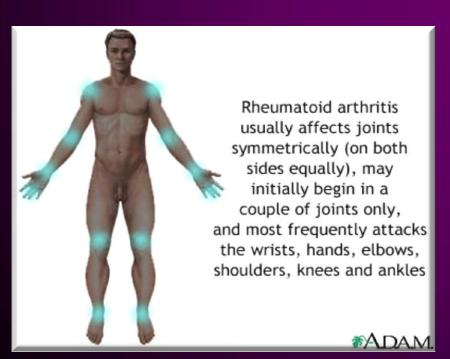
- Acts as a shock absorber
- secretes synovial fluid
- Allows for friction-free nourishes cartilage movement
 - cushions the bones

■Not innervated!

Rheumatoid Arthritis

"A chronic autoimmune disease characterized by the inflammation of the synovial joints"

Has a symmetrical bilateral effect on joints
Results in joint deformity and immobilization
Multiple factors increase one's risk





Symptoms





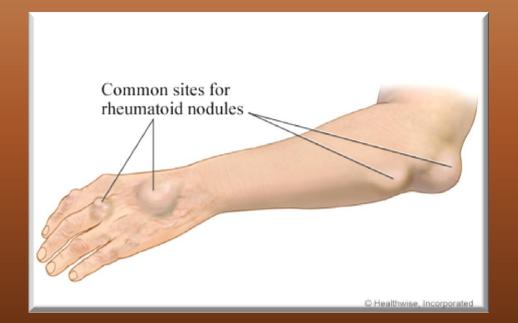
- Morning stiffness lasting more than half an hour
- ☐ Simultaneous symmetrical joint swelling
- ☐ Not relieved by rest
- ☐ Fever
- ☐ Weight loss
- ☐ Fatigue
- Anemia
- Lymph node enlargement
- Nodules
- ☐ Raynaud's phenomenon

Raynaud's phenomenon





Nodules







Diagnosis

No single test is specific to Rheumatoid Arthritis

- □ CBC
- ☐ Radiographs of involved joints
- ☐ CT/MRI scans
- ☐ Direct arthroscopy
- ☐ Synovial/Fluid aspirate
- ☐ Synovial membrane biopsy
- Arthrocentesis



Inflammatory Markers: ESR and CRPTest







The level of CRP in the blood is normally low Increasing amount suggests inflammation

Antibody Tests: Rheumatoid Factor Test and CCP

Other blood tests check for the presence of antibodies that are not normally present in the human body



Direct arthroscopy



Benefits

- ☐ Minimally invasive
- ☐ Less tissue damage
- ☐ Fewer complications
- ☐ Reduced pain
- ☐ Quicker recovery time
- Outpatient basis

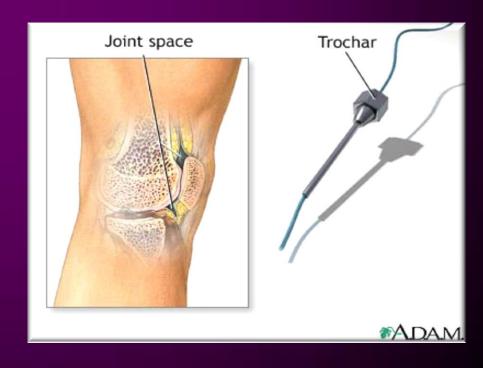
Synovial/Fluid aspirate Synovial membrane biopsy Arthrocentesis

Athrocentesis: synovial fluid is aspirated and analysed for inflammatory components

Abnormal synovial fluid: cloudy, milky, or dark yellow

containing leukocytes





X-Ray

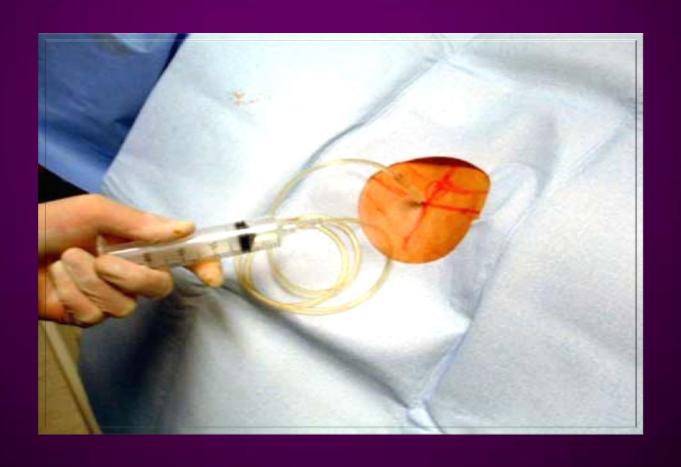


X-rays are an important diagnostic test for monitoring the disease progression

Patients may reveal NO changes on an X-ray in the early stages

Arthography

A radiopaque substance or air is injected into the joint, which outlines soft tissue structures surrounding the joint



CT/MRI scans

Used for better visualization of soft tissue

MRI is particularly sensitive for the early and subtle features of RA

Can detect changes of Rheumatoid Arthritis prior to an X-

Ray



Newly Diagnosed

The major goal is to relieve pain and inflammation and prevent further joint damage



Anxiety, depression, and a low self esteem commonly accompanies Rheumatoid Arthritis

Medications

There are four types of medications used to treat RA: □Non-steroidal anti-inflammatory drugs (NSAIDs) ☐ Disease-modifying anti-rheumatic drugs (DMARDS). □ Corticosteroids ☐ Biologic Response Modifiers ("Bioligics")

Non-steroidal anti-inflammatory drugs (NSAIDs)

Examples	General Use	Side Effects	Nursing
			Considerations
Aspirin, ibuprofen, naproxen, COX-2 inhibitors, propionic acid, phenylacetic acid	 anti- inflammatory: Used in the management inflammatory conditions Antipyretic: used to control fever Analgesic: Control mild to moderate pain 	 Nausea Vomiting Diarrhea Constipation Dizziness Drowsiness Edema Kidney failure Liver failure Prolonged bleeding Ulcers 	 Use cautiously in patients with hx of bleeding disorders Encourage pt to avoid concurrent use of alcohol NSAIDs may decrease response to diuretics or antihypertensive therapy

Corticosteroids

Examples	General Use	Side Effects	Nursing Considerations
Cortisone, hydrocortisone, prednisone, betamethasone, dexamethasone	 Used in the management inflammatory conditions When NSAIDS may be contraindicated Promptly improve symptoms of RA 	 Increased appetite Weight gain Water/salt retention Increased blood pressure Thinning of skin Depression Mood swings Muscle weakness Osteoporosis Delayed wound healing Onset/worsening of diabetes 	 Take medications as directed (adrenal suppression) Used with caution in diabetic patients Encourage diet high in protein, calcium, potassium and low in sodium and carbohydrates Discuss body image Discuss risk for infection

Disease-modifying anti-rheumatic

Examples	General Use	Side Effects	Nursing Considerations
Methotrexate (the gold standard)	☐ immunosuppressive activity	Dizziness, drowsiness,	☐ May take several weeks to months
, gold salts, cyclosporine, sulfasalazine,	Reduce inflammation of rheumatoid arthritis	headache Pulmonary fibrosis Pneumonitis	before they become effective Discuss teratogenicity,
azathioprine	Slows down joint destructionPreserves joint	☐ Anorexia☐ Nausea☐ Hepatotoxicity	should be taken off drug several months prior to
HETHOTRE ATE ALC FOOK, ASS TO DE PROPERTY OF THE PROPERTY OF	function Representation Repr	 □ Stomatitis □ Infertility □ Alopecia □ Skin ulceration □ Aplastic anemia □ Thrombocytopenia a □ Leukopenia □ Nephropathy □ fever □ photosensitivity 	conception Discuss body image

Biologic Response Modifiers ("Bioligics")

Examples	General Use	Side Effects	Nursing Considerations
Etanercept, anakinra, abatacipt, adalimumab, Infliximab (Remicade)	 □ Used in the management inflammatory conditions □ When NSAIDS may be contraindicated □ Promptly improve symptoms of RA 	 □ Increased appetite □ Weight gain □ Water/salt retention □ Increased blood pressure □ Thinning of skin □ Depression □ Mood swings □ Muscle weakness □ Osteoporosis □ Delayed wound healing □ Onset/worsening of diabetes 	 Take medications as directed (adrenal suppression) Encourage diet high in protein, calcium, potassium and low in sodium and carbohydrates Discuss body image Discuss risk for infection

Alternative Medicine



- ☐ Olive leaf extract
- ☐ Aloe Vera
- ☐ Green Tea
- ☐ Omega 3
- ☐ Ginger Root Extract
- ☐ Cats Claw

Omega 3 interferes with blood clotting drugs!

Pain

Pain is subjective and influenced by multiple factors



Helpless

Lack of control

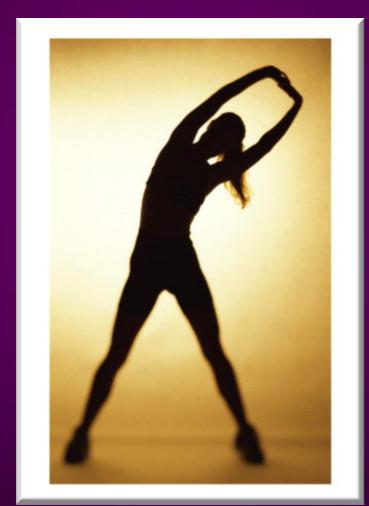
Stressful events can increase symptoms of arthritis

Consider drugs such as Paxil, Elavil or Zoloft

Exercise

Being overweight strains joints and leads to further inflammation

4 times a week for 30 minutes



- Walking
- Light jogging
- Water aerobics
- Cycling
- Yoga
- ☐ Tai chi
- stretching

Nutrition

The most commonly observed vitamin and mineral deficiencies in patients with RA are:

- folic acid
- vitamin C
- vitamin D
- \square vitamin B_6
- \square vitamin B_{12}
- vitamin E
- calcium
- magnesium
- zinc
- selenium



Synovectomy

- ☐ Increases function of the joint
- ☐ Decreases pain and inflammation
- Beneficial as an early treatment option
- Not a cure!



Braces/casts/splints

- ☐ Support injured joints and weak muscles
- ☐ Improve joint mobility and stability
- ☐ Help to alleviate pain, swelling and muscle spasm
- May prevent further damage and deformity



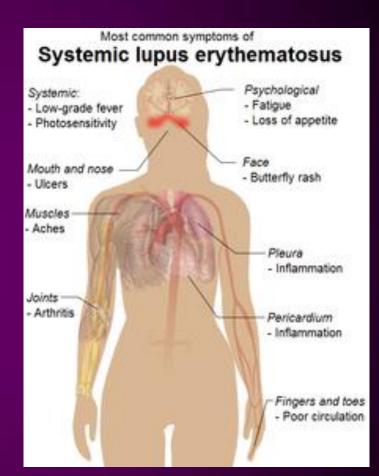
Case Study

Mrs. Fatima Hip is a 66 year old female who has suffered from lupus for the past 30 years. Mrs. Sour Hip experiences many joint-related lupus symptoms, particularly in her right hip. She will be undergoing a right hip replacement surgery next week. Her medical history includes systemic lupus erythematosus, HTN, a. fib, pneumonia in winter 2010, and a history of pernicious anemia for which she receives Vitamin B12 s/c q2months. Her medications include long-term corticosteroid therapy to help manage her lupus.



LUPUS

- A chronic disease, affecting over 1/1000 Canadians
- ☐ Affects 8x as many women
- Auto-immune
- Cause is unclear potential hormonal or genetic link
- When properly treated, most individuals can survive for a normal lifespan



Types of Lupus

Systemic Lupus Erythematosus (SLE): The most common type of lupus. Any tissue in the body may be affected including the kidneys, heart, lungs, and brain.

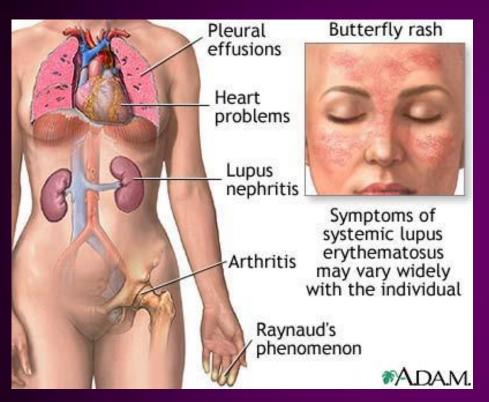


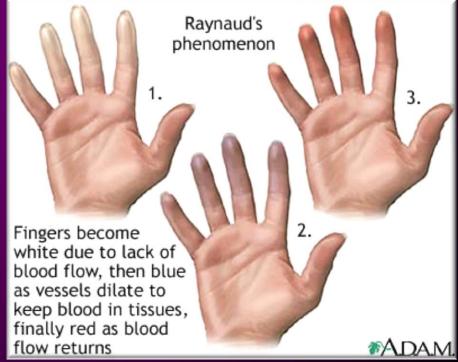
Discoid Lupus Erythematosus (DLE): Affects the skin; skin develops lesions and scales.

Cutaneous Lupus Erythematosus: May be chronic or acute. This type may only involve the skin or progress to involve other body systems.

THE DISEASE OF A THOUSAND FACES

Manifestations of SLE





Pharmacological Therapy



Acetaminophen NSAIDs

Corticosteroids

Cytotoxic or Immunosuppressive drugs

Antimalarial drugs

Healthy Lifestyle (Arthritis Society, 2010)









Nursing Considerations

□ Educate patient on lupus.
□ Help patient identify factors that precipitate flare-ups.
□ Assess patient's medication knowledge.
□ Provide adequate symptom management.
□ Medic Alert bracelet
□ Provide emotional and psychological support. A big

one!