

- * The main cause of deformity in RA:- *myofibroblast* which released from IL which released from the cytokines...
- * The main cause of deformity in osteoarthritis:- overuse of the joints...

.. 2nd line [Biologic agent] .. first line of RA is non-biologic ..
 ↳ IL-6 inhibitor - TNF α inhibitor [stop the IL - cytokines - myofibroblast releasing → prevent the forming of deformity]...

(partial dislocation - *atlanto axial subluxation*) .. RA .. any elective surgery ..

↳ The clinical significant of partial dislocation is:- *nerve root or SC compression*...

neck pain and radiated to shoulder joint - numbness - paresthesia .. lead to cervical radiculopathy .. lead to paralysis .. paraplegia .. hemiplegia

initial test ← Xray for atlanto axial joint .. +ve ← symptoms ..
 .. diagnostic test ← MRI

* The effect of RA in the heart:- pericardiac effusion...

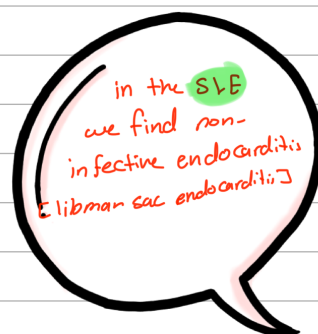
pericarditis...

Ischemic heart disease...

valvular heart disease

↳ mitral stenosis...

↳ Aortic stenosis...



* RA pt presented with chest pain to ER .. ECG to exclude the MI...

.. Ischemic events .. acceleration of vasculitis → atherosclerosis .. RA ..

* The LAB tests for RA :-

① CBC :- * WBC

→ ↑ infection - steroid intake...

→ ↓ in Felty's syndrome... [leucopenia - RA - splenomegaly]...

* In the steroid intake there is:- ↑ neutrophils - lymphopenia - eosinopenia...

* In the infection there is:- neutrophilia - eosinophilia - lymphocytosis

* Hb

→ No anemia in osteoarthritis...

in RA → normo anemia

→ microanemia if he take steroid → risk of PUD

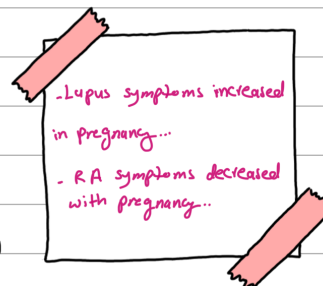
→ macroanemia if he take methotrexate [↓ folate]...

→ the anemia indication for inflammatory events...

* Plt

→ ↑ reactive thrombocytosis related to iron deficiency anemia...

→ thrombocytopenia in any Autoimmune disease [SLE ... etc]...



② chemistry:- ESR - CRP [acute phase reactant]...

→ acute phase reactant: → +ve :- C-RP - ESR - serum ferritin... [↑ +ve → activity] disease

→ -ve :- Albumen - trans thyretin... [↓ -ve → activity]

it's protein particles if it raised more than 25% of the base line → +ve...

* Synovial fluid analysis:- Test :- 1- cell count...

2- gram stain...

3- culture...

4- microscopic exam...