

SEPTIC ARTHRITIS by

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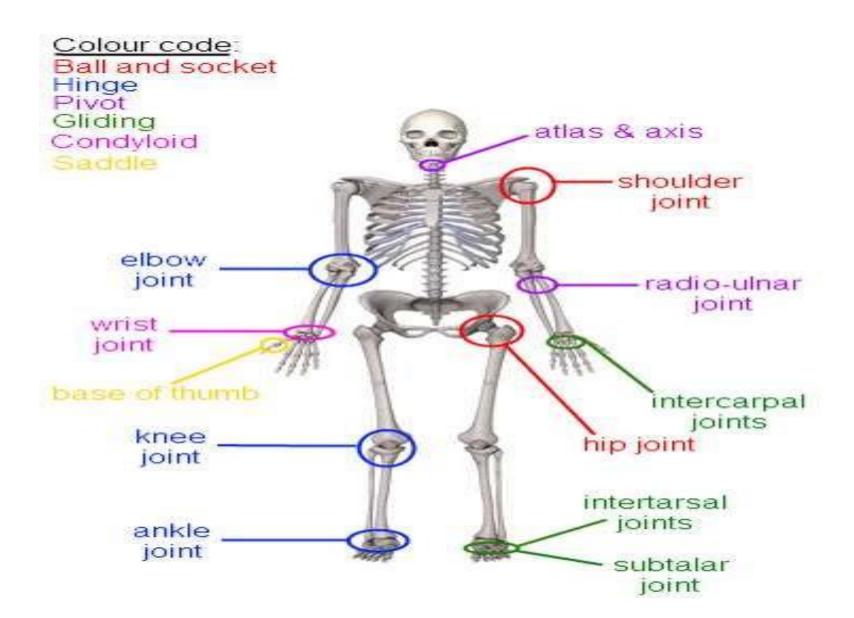
DEFINITION

Definition: Septic arthritis is an inflammation of the joint due to infectious agent.

- Also referred as infectious arthritis
- Septic arthritis is extremely painful and can develop quickly.
- It's a very serious condition which can affect people of any age.
- It needs to be treated in hospital as soon as possible as an emergency

- •Any joint in the body can be affected by septic arthritis. It can affect more than one joint, It most commonly affects the knees and hips.
- After diagnosed with septic arthritis, the infection needs treating as soon as possible to prevent it causing long-term damage and other complications to your general health

ANATOMY



Risk factors

- 1. Diabetes mellitus
- 2. Osteoarthritis
- 3. Rheumatoid arthritis.
- 4. Immunosuppressive medication
- 5. Intravenous drug abuse
- 6. Recent joint surgery
- 7. Hip or knee prosthesis and skin infection
- 8. HIV infection
- 9. Other causes of sepsis
- 10.Age over 80 years

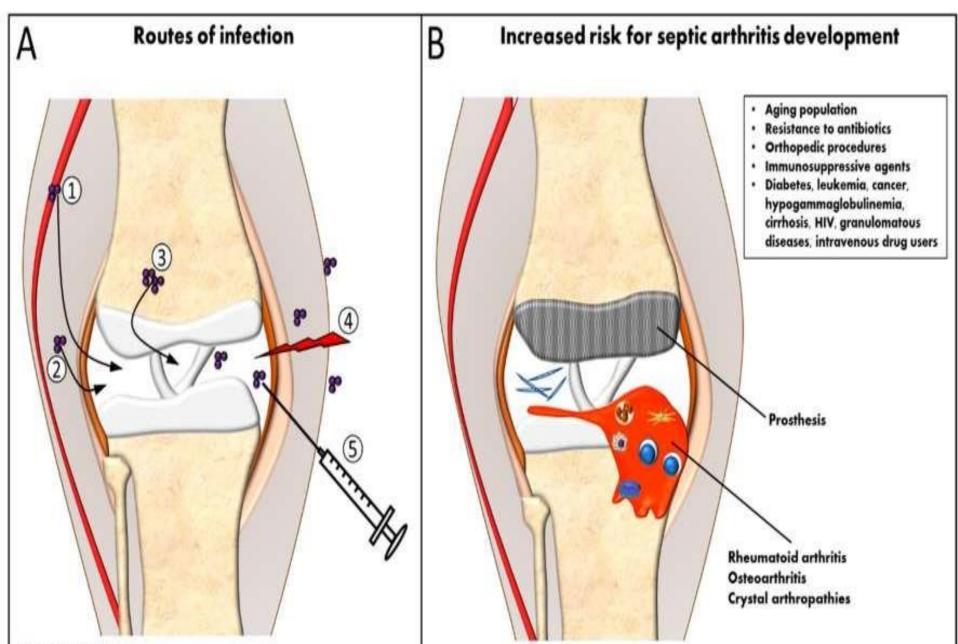
Cuuses

There are five types of bacteria:

- 1. Streptococcus agalactiae
- 2. Streptococcus aureus
- 3. Neisseria gonorrhoea
- 4. Streptococcus epidermis
- 5. Pseudomonus aerubinosa

Haematogenous spread from infection of lung and skin

AETIOLOGY



signs and symptoms



signs and symptoms

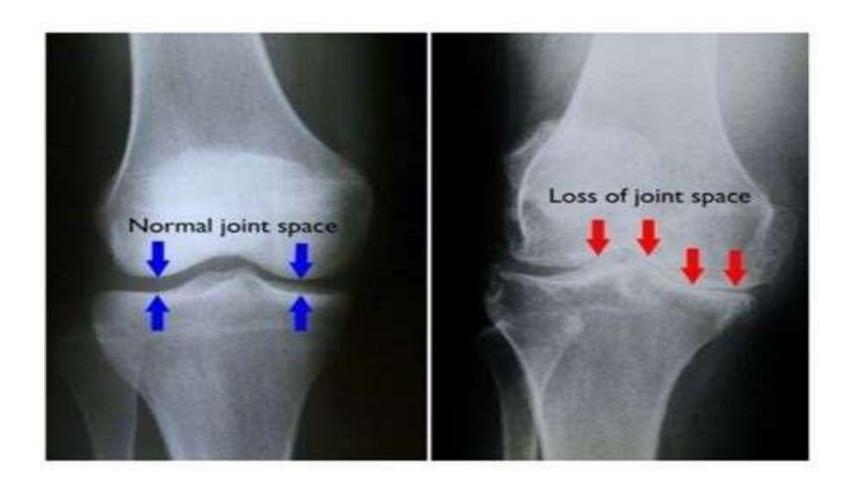
- 1. Fever high fever
- 2. Joint abnomalities (affected mainly hip joint and knee joint):
- Hotness
- Redness
- Swallen
- pain (increase in rest and movement)

Diagnosis:

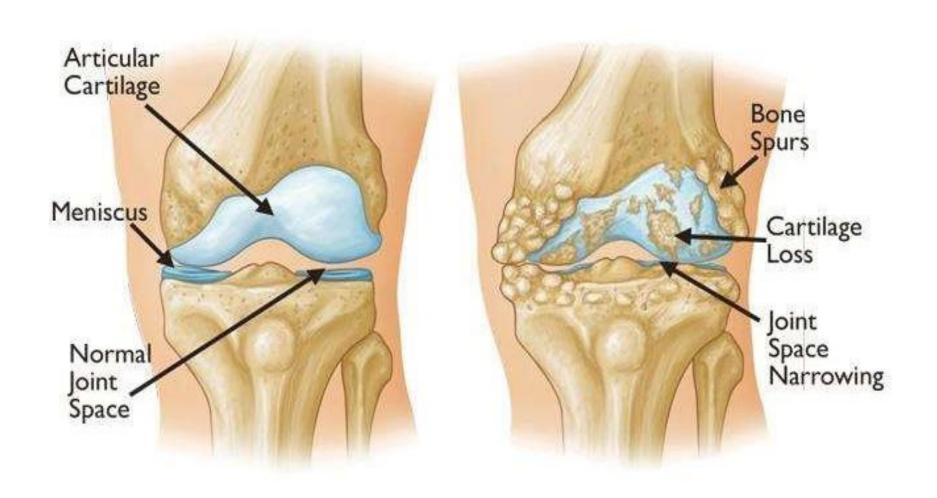
Sign and symptoms

- blood investigations
- Raised WBC
- Raised ESR and CRP
- Blood culture (positive)
- imaging: x-ray, ultra sound, MRI
- >synovial fluid analysis

X-RAY FINDING



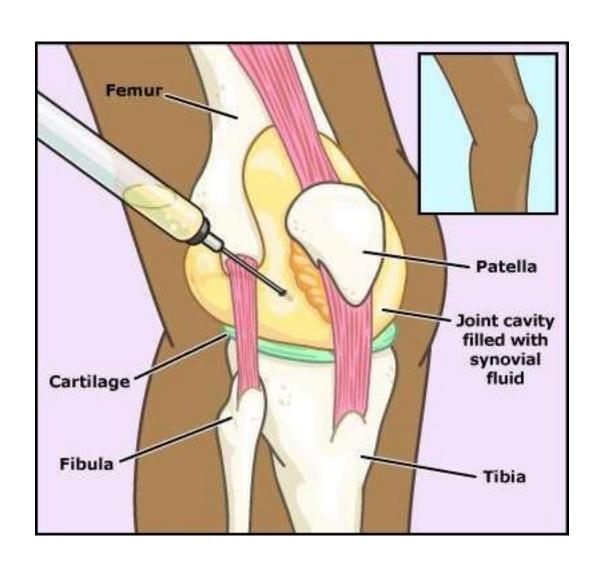
FINDINGS



INVESTIGATION



INVESTIGATION



INVESTIGATION Synovial Fluid Analysis

	WBC/mm ³	Color	Viscosity
Normal	< 150	Colorless/Straw	High
Noninflammatory	< 3,000	Straw/Yellow	High
Inflammatory	> 3,000	Yellow	Low
Septic (purulent)	> 50,000	Pus/Mixed	Mixed
Hemorrhagic	Similar to blood	Red	Low

Treament

- Analgesics
- ■Flucoxacillin- 2 gm I.V 6 hourly for 2 weeks
- Vancomycin for strep. Aureus 1 gm IV twice a day for 2 weeks
- Gentamycin for neisseria gonorrhoea 5mg/kg body weight IV once a day for 2 weeks
- Joint aspiration
- ■Continue antibiotics for one month 2 weeks IV another 2 weeks orally.
- Surgical drainage
- Splinting
- Arthoscopy

COMPLICATIONS

- 1. Bone destruction and dislocation of the joint (especially hip)
- 2. Cartilage destruction
- 3. May lead to either fibrosis or bony ankylosis
- 4. In adult partial destruction of the joint will result in secondary osteoarthritis
- 5. Growth disturbance
- 6. deformity or shortening of the bone

Nursing care

- ➤ Receive antibiotic (IV) at first. After this, may take antibiotics by mouth as directed.
- ➤ Do not stop taking them just because you feel better. need to take the full course of antibiotics.
- > Rest the joint as much as possible
- propped up the injured joint on pillows as much as possible.

Nursing care

- Try to keep it at or above the level of your heart. It will help reduce pain and swelling.
- Follow doctor's instructions on exercises for the affected joint.
- >Avoid to use the affected joint