



# Chronic Inflammation

By:

Abrar Bu Sfeita, Mohammed  
Sassi , Mohammed Ben Naser.

2<sup>nd</sup> year Students

# Objective:

1. Definition of chronic inflammation.
2. Types of chronic inflammation.
3. Characteristic of chronic inflammation.
4. Causes of chronic inflammation.





## Definition:

Chronic inflammation is inflammation of prolonged duration (weeks to years) in which continuing inflammation, tissue injury, and healing, often by fibrosis, proceed simultaneously.

- Asthma:



# Types of chronic inflammation:

## 1. Nonspecific:

Characterized by the presence of non-specific granulation tissue formed by infiltration of mononuclear cells (lymphocytes, macrophages, plasma cells) and proliferation of fibroblasts, connective tissue, vessels and epithelial cells, **for example:** nasal inflammation and lung abscess.



# Types of chronic inflammation:

## 2. Specific (Granulomatous):

characterized by the presence granulomas formed with an aggregation of activated macrophages or its derived cell

foreign body, know Tumor , **There are two types:**

1- T-cell mediated immune response, for example, silicosis

2- infectious granuloma, for example , leprosy.





## Characteristic of chronic inflammation:

- Infiltration with mononuclear cells, including macrophages, lymphocytes, and plasma cells.
- Tissue destruction, largely induced by the products of the inflammatory cells.
- Repair, involving new vessel proliferation (angiogenesis) and fibrosis.

# Causes of chronic inflammation:

- Persistent infections by microbes that are difficult to eradicate.
- Immune-mediated inflammatory diseases (hypersensitivity diseases).
- Prolonged exposure to potentially toxic agents.
- Mild forms of chronic inflammation may be important in the pathogenesis of many diseases that are not conventionally thought of as inflammatory disorders.





# Summary :

In this presentation first, we defined the chronic inflammation.

Also, we did discuss types of chronic inflammation

Finally, we talked about characteristic of chronic inflammation and causes of chronic inflammation.



# References:

1. Robbins Basic Pathology 9th 2013 Pg-chapter(2)-page(53).
2. <https://www.ncbi.nlm.nih.gov/books/NBK493173/>





**Thank you**