



LIBYAN INTERNATIONAL MEDICAL UNIVERSITY
FACULTY OF PHARMACY



INFLAMMATION

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LEARNING OBJECTIVES :

- ✓ Define inflammation
- ✓ List causes of inflammation
- ✓ State nomenclature of inflammation



INFLAMMATION



Latin word

INFLAMMATION

inflammare = Body's response to injury



INTRODUCTION

Inflammation is typically viewed as a localized protective response to tissue damage /or microbial invasion.



INFLAMMATION

Is a systemic or local reaction of tissues and microcirculation to a pathogenic insult. It is characterized by the elaboration of inflammatory mediators as well as the movement of fluid and leukocytes from the blood into extra vascular tissues. Inflammation localizes and eliminates microorganisms, damaged cells and foreign particles, thereby paving the way for a return to normal structure and function



INFLAMMATION

Inflammation can be characterized by 5 main features these are:

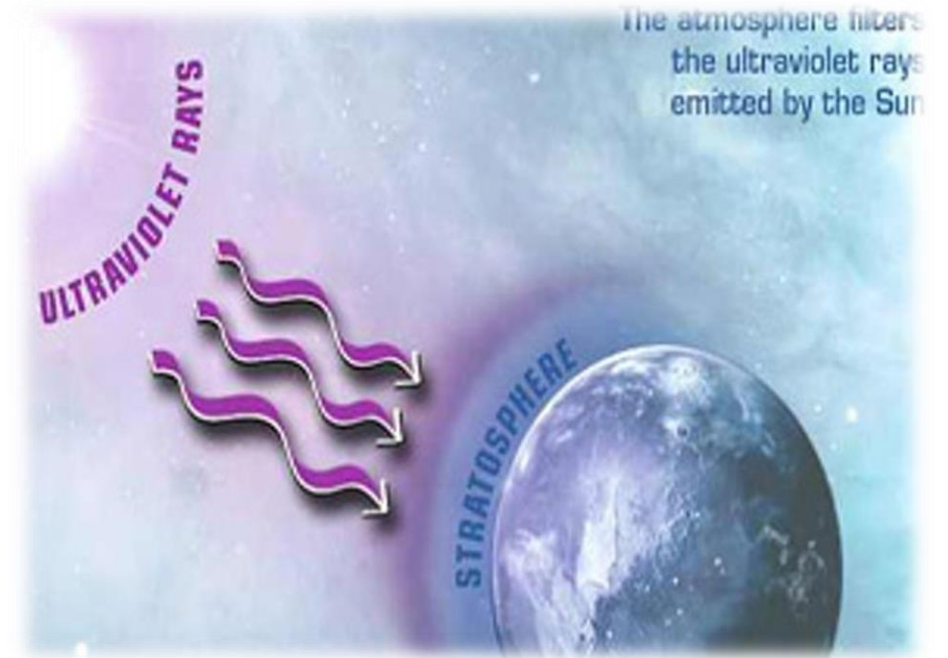


Swelling
Heat
Redness
Pain
Loss of function



PHYSICAL AGENTS:

- 1- Injuries
- 2- Alteration of temperature & pressure
- 3- Radiation injuries
- 4- Ultraviolet



CHEMICAL AGENTS:

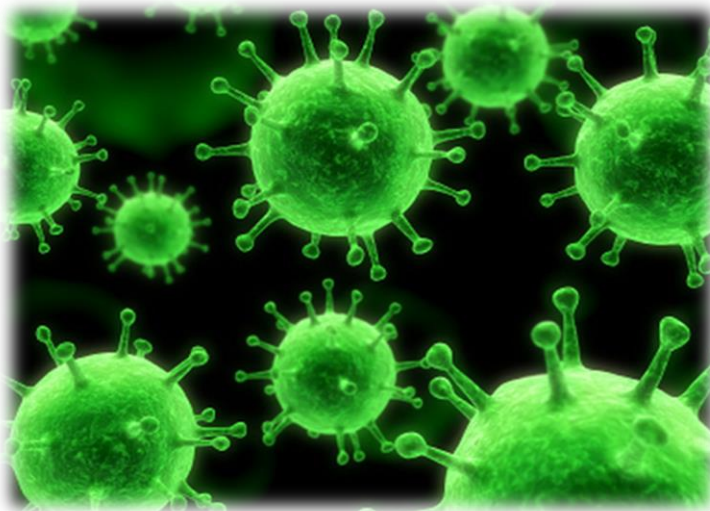
Organic:

- 1- Microbial toxins
- 2- organic poisons (weedkillers)



Inorganic:

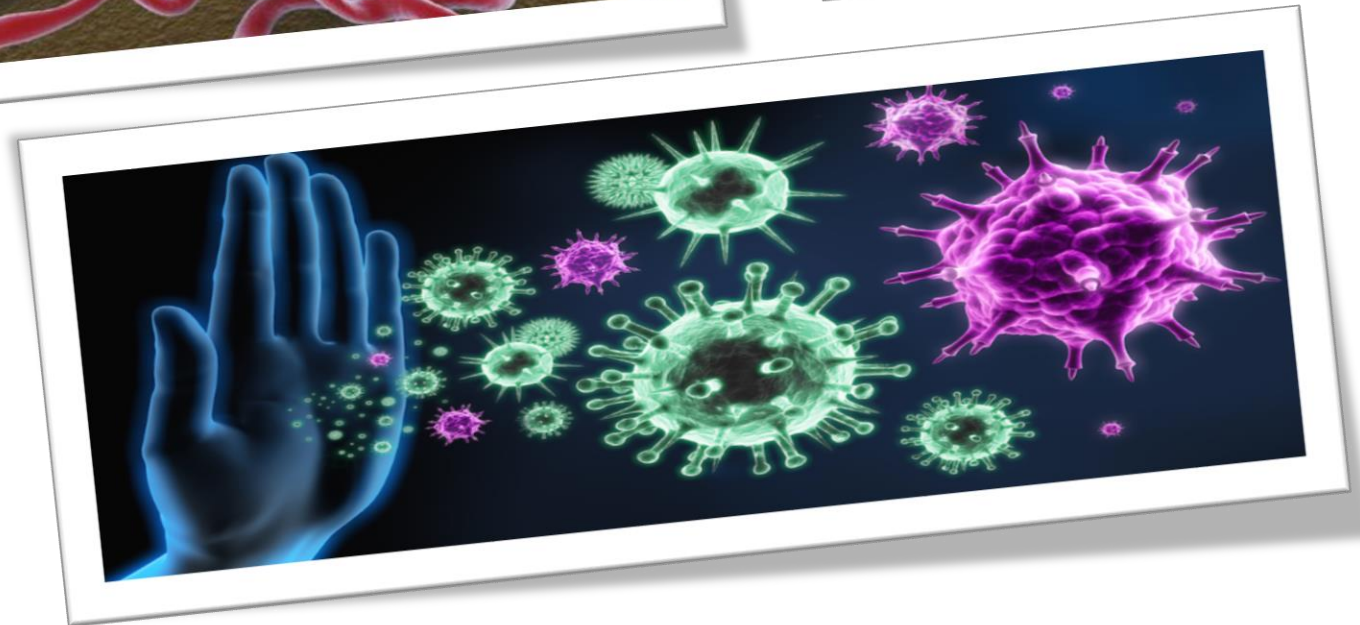
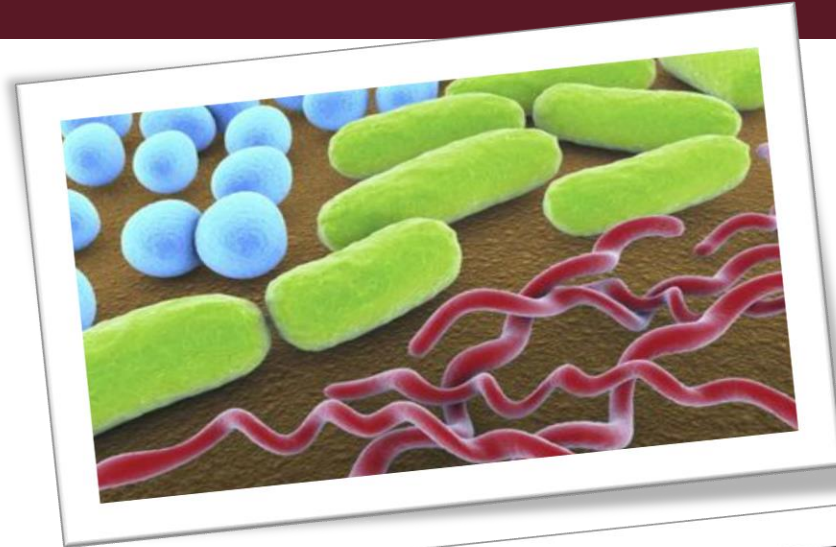
- 1- Acids
- 2- Alkaline
- 3- Drugs



BIOLOGICAL AGENTS:

Microbes:

- 1- Bacteria
- 2- Viruses
- 3- Fungi
- 4- Protozoa



IMMUNOLOGIC DISORDERS

- 1-Hypersensitivity reactions
- 2-Autoimmunity
- 3-Immunodeficiency states



GENETIC/METABOLIC DISORDERS:

- 1- Gout
- 2- Diabetes mellitus

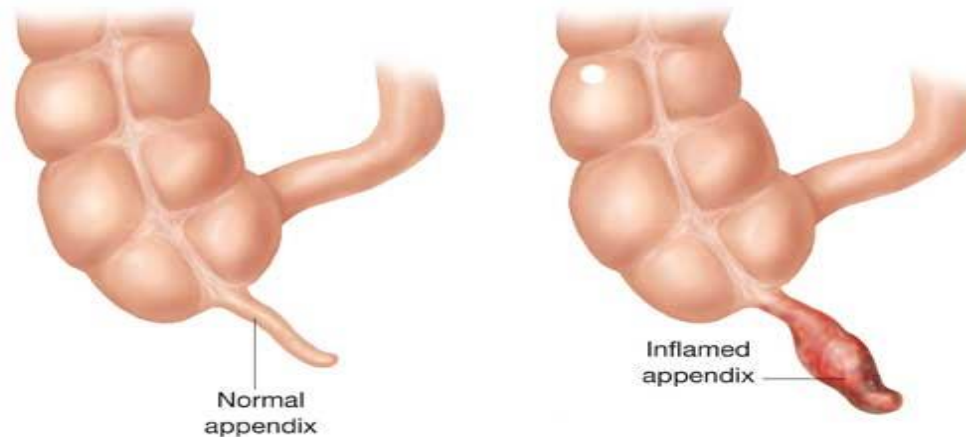


NOMENCLATURE

Inflammatory lesions are usually indicated by the suffix
itis

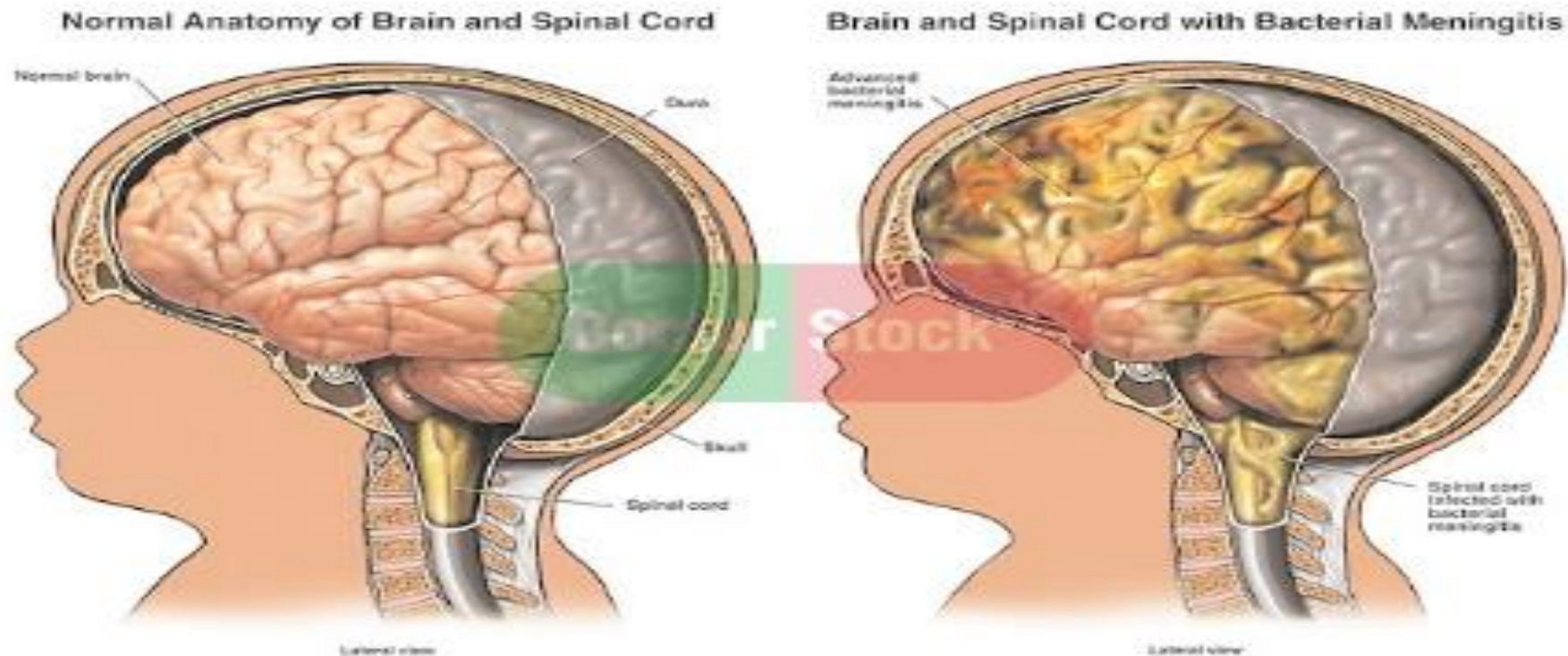
Example:

1- Appendicitis = inflammation of the appendix



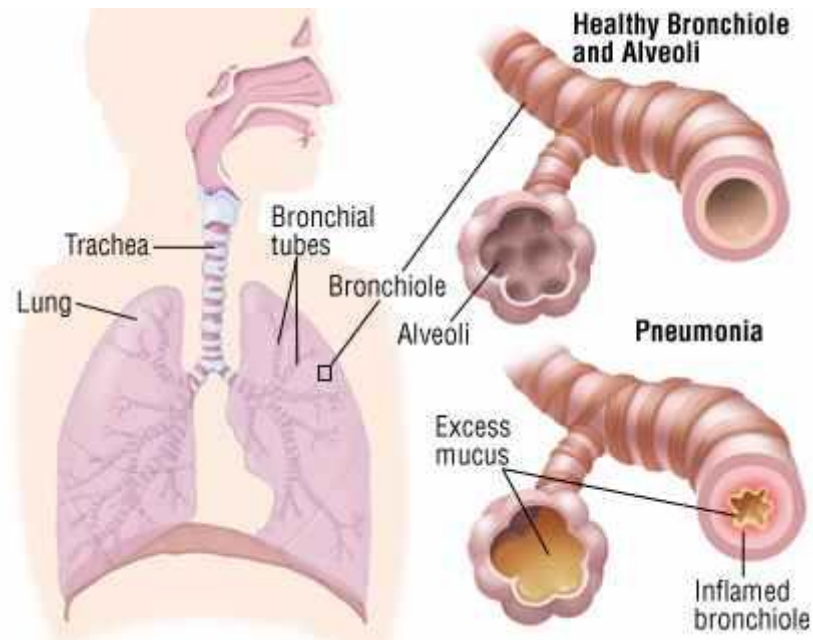
NOMENCLATURE

2- Meningitis = inflammation of the meninges

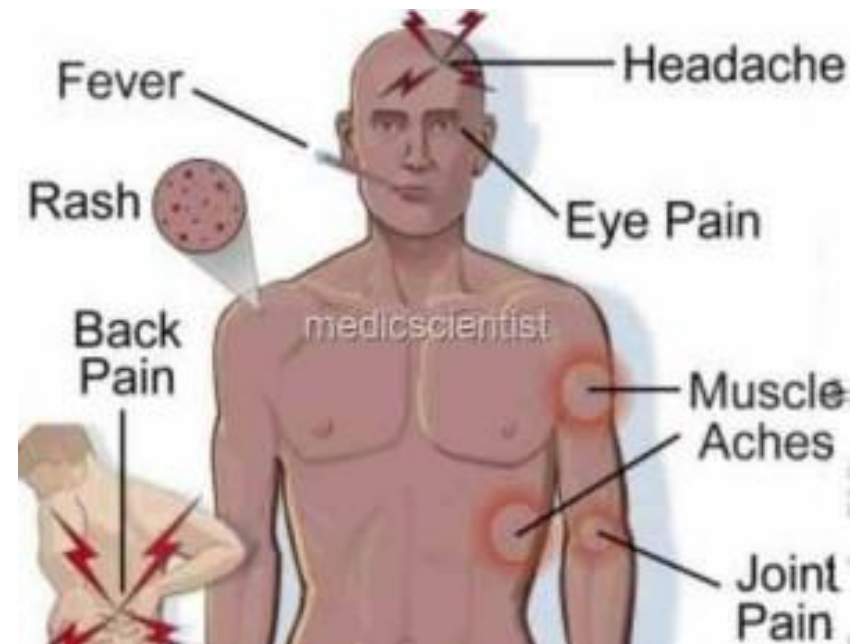


Exceptions :

Pneumonia



typhoid fever



REFERENCE

- Emanuel Rubin, Howard M. Reisner (2014). Essentials of Rubin's pathology, 6th ed. China: Lippincott William & Wilkins, a Wilkins Kluwer business.



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