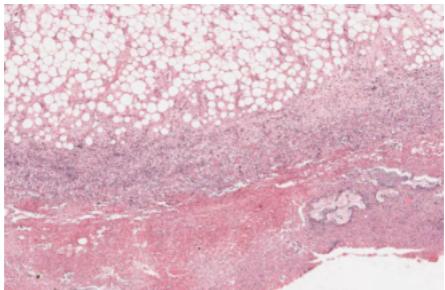
Inflammation & Healing





Learning objectives:

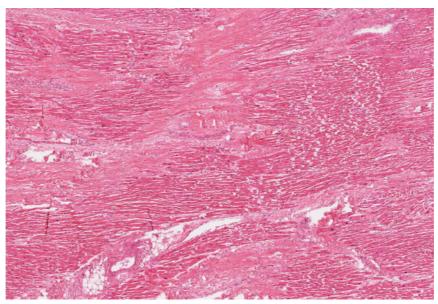
- a) Identify the microscopic features of exudate rich in fibrin
- b) Identify the presence of granulation response following tissue damage

This slide shows Acute inflammation whose characteristics are:

- 1. Abundant amount of exudate comprised by fibrin, viable and degenerate neutrophils;
- 2. On the margin of the necrotic area the organization response is occurring, defined by the presence of fibroblasts, proliferating small blood vessels, neutrophils, and macrophages. Lymphocytes and plasma cells are also present.
- If you saw the exudate macroscopically, how would you call it? From where does the fibrin originate and what is its role in inflammation?

• How would you call this pathological process? Explain the presence of the cells identified here.





Learning objectives:

- a) Recognise the morphological features of coagulative necrosis
- b) Identify cellular hypertrophy
- c) Identify areas of healing with scar formation

The following characteristics are elements of tissue damage and repair:

- 1. *Coagulative necrosis* eosinophilic areas, with little or no nuclear evidence;
- 2. Neutrophilic infiltration demonstrating acute inflammatory response;
- 3. *Dense connective tissue* acellular areas, exemplifying the scar tissue formation;
- 4. *Organisation* neo-angiogenesis, oedema, and infiltration by macrophages and lymphocytes;
- 5. *Hypertrophy* enlarged cardio-myocytes (square-like appearance).
- Why is the process named coagulative necrosis? Name the most likely cause.
- What type of tissue repair can you identify here?



Except where otherwise noted, content on this page is licensed under a <u>Creative Commons Attribution-ShareAlike 4.0 International Licence</u>

Note: The open version of this document may have been altered from the original. Only pages on this site that display the CC licence and logo are licensed under a Creative Commons licence.

Attribution information	
Title:	Inflammation and Healing Worksheet
Source:	http://www.utas.edu.au/health/engage/uni-view-school-of- medicine/resources/courses/medicine/inflammation-and-healing
Author:	Dr Dwight Assenheimer