- Dry (a), wet (b)
- Internal gangrene can occur
- Gas necrosis: caused by bacteria
 - In muscles
 - Gas bubble forms
 - Dangerous when it gets into blood vessels

Inflammation Response: after injury, non-lethal cell injury

- Acute inflammation: first step in inflammation response
 - Response is immediate
 - Arterioles dilate: allows blood flow to the site
 - Edema and swelling
 - o Blood becomes thicker: due to other things coming to the site
 - Leukocytes migrate to the area
 - Accumulate cells and proteins at site
 - Site gets cleaned: macrophages, prep for resolution
- Plasma Systems:
 - First: complement system
 - A series of proteins activated by
 - Second: clotting system
- Sale co.uk Formation of most oak, prevent spread of jury, localizes problem
 - Third: Kinin b adykinin system:

Gradykinin dilates book wassels, induces pain, and increase permeability pecific protein that controls the systems: C1 esterase inhibitor, dilation

- Hereditary condition: angioneurotic edema
 - No C1 esterase inhibitor
 - Systems continue to function
- Inflammatory cells: leukocytes
 - Granulocytes and agranulocytes*
 - Granulocytes: contain material in granules that is released to attract other cells to site
 - o Agranulocytes: do not release anything
 - Neutrophils: most common
 - Monocytes*: leave blood and invade tissue, can become macrophage
 - Lymphocytes*: B and T cells (antibody)
 - Eosinophils: parasitic defense
 - Throw up on parasite to digest it
 - Basophils: mediator release (histamine)
 - Mast cells: immune system cells that release mediators