**Immune system**

Ch 43

**Fig 43.2**

Innate immunity

Acquired immunity:

**Innate immunity**:

 **Histology fig. 3-1, 3-4**

 Skin:

 Lysozyme:

 Ecosystem:

Internal defense:

 Lymphatic system: **(fig 43.5)**

 Cellular:

 Phagocytes: **(fig 43.1 & 43.4)**

 Neutrophils:

 Macrophage:

 Wandering:

 Fixed:

 Eosinophils:

 Dendritic

 NK cells:

 Chemical:

 Complement system:

 Interferon:

 , &  interferon

 Inflammatory response: **(fig 43.6)**

**Acquired immunity**:

 Natural acquired immunity:

 Artificial acquired immunity:

 Primary response:

 Secondary response:

 Cytokines:

 **(fig 43.7)**

 Antigen:

 Epitope:

 Antigen receptor:

 Antibody:

Lymphocytes:

 **(fig 43.12)**

 B cell:

 Plasma cell:

 B memory cell:

 **(Prescott fig 31.6)**

 T cell:

 Cytotoxic T cell: cause lysis & death – release perforin

 Helper T cell:

 Memory T cell:

 **(Fig 43.4) (fig 43.15, 16, 17)**

B cell receptors: **(fig 43.8)**

T cell receptors: **(fig 43.8)**

  chain:

  chain:

**Fig 43.9**

MHC:

 Class I MHC:

 Class II MHC:

**Antibodies**: immunoglobulin

 IgA:

 IgD:

 IgE:

 IgG:

 IbM:

**(Fig 43.19)**