**Items to Identify: Lymphoid System**

**Slides to Identify**

* Slide 112: Red bone marrow smear (May-Grunwald-Giemsa)
	+ Bone marrow, red blood cells, pronormoblasts, band cells, neturophils
* Slide 116: Lymph node
	+ Collagenous connective tissue capsule
	+ Cortex with follicles, medulla and hilum
	+ Trabeculae, reticulum cells, macrophages,
	+ Afferent lymphatics, subcapsulary sinus, efferent lymphatic
	+ Continuous endothelial cells along capsule, discontinuous cortex side
	+ Outer cortex, deep cortex, perifollicular region, medullary cords, sinuses
	+ Follicle, germinal center, B lymphocytes
	+ Perifollicular area, T lymphocytes
	+ High endothelial venules
* Slide 117: Spleen
	+ White pulp, red pulp, no cortex, medulla, or afferent lymphatics
	+ White pulp, central arteries, periarteriolar lymphatic sheath, follicles, germinal centers, B lymphocytes, T lymphocytes
	+ Marginal zone, terminal (penicillar) arteries
	+ Red pulp, venous sinuses, Billroth’s strands, littoral cells, discontinuous basement membrane, reticulum fibers
	+ Mast cells, plasma cells, macrophages, erythrocytes, lymphocytes, granulocytes, platelets
* Slide 118:Liver & spleen with colloidal carbon, rat
	+ White pulp, red pulp, no cortex, medulla, or afferent lymphatics
	+ White pulp, central arteries, periarteriolar lymphatic sheath, follicles, germinal centers, B lymphocytes, T lymphocytes
	+ Marginal zone, terminal (penicillar) arteries
	+ Red pulp, venous sinuses, Billroth’s strands, littoral cells, discontinuous basement membrane, reticulum fibers
	+ Mast cells, plasma cells, **macrophages**, erythrocytes, lymphocytes, granulocytes, platelets
* Slide 122: Spleen
	+ White pulp, red pulp, no cortex, medulla, or afferent lymphatics
	+ White pulp, central arteries, periarteriolar lymphatic sheath, follicles, germinal centers, B lymphocytes, T lymphocytes
	+ Marginal zone, terminal (penicillar) arteries
	+ Red pulp, venous sinuses, Billroth’s strands, littoral cells, discontinuous basement membrane, reticulum fibers
	+ Mast cells, plasma cells, macrophages, erythrocytes, lymphocytes, granulocytes, platelets
* Slide 123: Thymus, newborn
	+ Cortex and medulla, connective tissue capsule and septa, lobes
	+ Lymphocytes dense in cortex, mitotic figures
	+ Epithelial reticulum cells- large euchromatic nucleus, more dense in medulla
	+ Hassal’s corpuscles in medulla
	+ Continuous capillaries, sheath of epithelial reticular cells, no afferent lymphatics
* Slide 145: Fundic stomach
	+ Lymphoid tissue
* Slide 153: Colon, monkey
	+ Lymphoid tissue
* Slide 218: Spleen (reticulum stain)
	+ White pulp, red pulp, no cortex, medulla, or afferent lymphatics
	+ White pulp, central arteries, periarteriolar lymphatic sheath, follicles, germinal centers, B lymphocytes, T lymphocytes
	+ Marginal zone, terminal (penicillar) arteries
	+ Red pulp, venous sinuses, Billroth’s strands, littoral cells, discontinuous basement membrane, **reticulum fibers**
	+ Mast cells, plasma cells, macrophages, erythrocytes, lymphocytes, granulocytes, platelets
* Slide 242: Esophagus and trachea, monkey
	+ Lymphoid tissue
* Slide 419: Tonsil
	+ Lymphoid Tissue
* Slide 19754: Lymph node
	+ Collagenous connective tissue capsule
	+ Cortex with follicles, medulla and hilum
	+ Trabeculae, reticulum cells, macrophages,
	+ Afferent lymphatics, subcapsulary sinus, efferent lymphatic
	+ Continuous endothelial cells along capsule, discontinuous cortex side
	+ Outer cortex, deep cortex, perifollicular region, medullary cords, sinuses
	+ Follicle, germinal center, B lymphocytes
	+ Perifollicular area, T lymphocytes
	+ High endothelial venules
* Slide 32412: Appendix
	+ Lymphatic nodule, germinal center
* Slide 32583: Cartilage and bone with bone marrow (toluidine blue)
	+ Colonies of developing white blood cells
	+ Blood vessels in marrow

**EMs to Identify**

* EM 6: Lymphocyte 74,000x
	+ Ultrastructure of lymphocytes, high nuclear to cytoplasm ratio
* EM 8f: Peripheral blood 9,000x
	+ Ultrastructure of lymphocytes, high nuclear to cytoplasm ratio