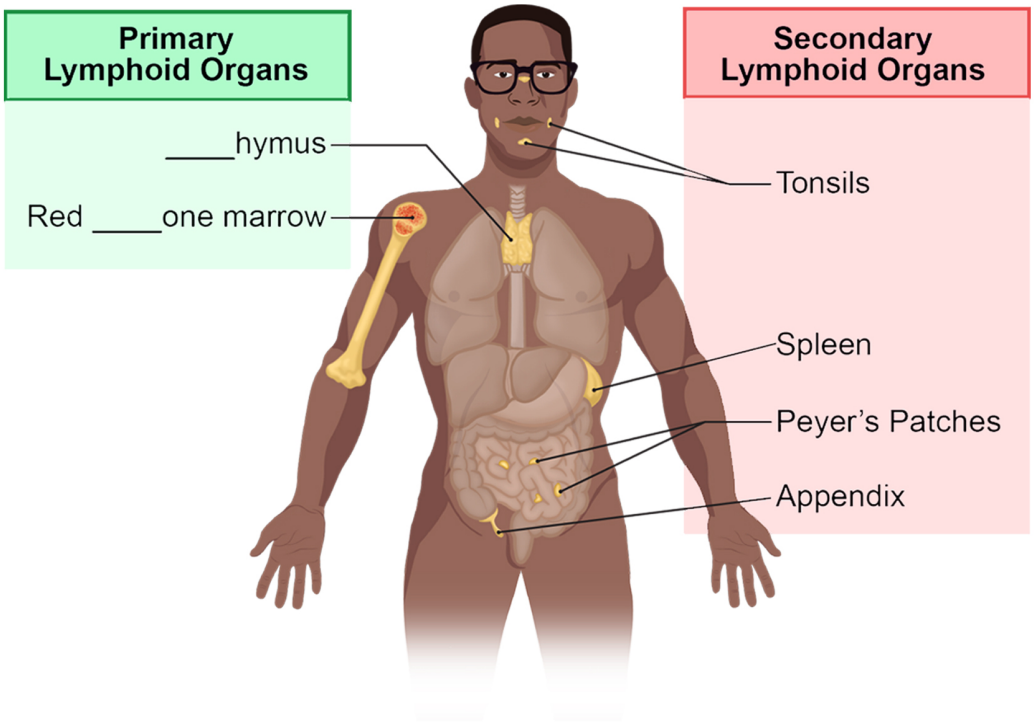
TOPIC: OVERVIEW OF LYMPHOID ORGANS

Primary & Secondary Lymphoid Organs

- **Lymphoid Organs**: organs with significant amounts of lymphoid cells/tissues & that support immune functions.
- Can be grouped into _____ functional categories:
  1. **Primary Lymphoid Organs**: where T & B cells _____ & become *immunocompetent*.
     - Includes **T**hymus (where ____ cells develop) & red **B**one marrow (where ____ cells develop).
  2. **Secondary Lymphoid Organs**: where T & B cells *first encounter* their antigen & are _____.
     - Includes lymph nodes, spleen, tonsils, Peyer's patches, & the appendix.



EXAMPLE

In which of the following organs do lymphocytes become immunocompetent?

a) Red bone marrow & spleen.

b) Spleen & appendix.

c) Appendix & thymus

d) Thymus & red bone marrow.

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PRACTICE

Which of the following statements about the development of lymphocytes is correct?

a) T cells are produced in the thymus & B cells are produced in red bone marrow.

b) T & B cells are both produced in red bone marrow, & they both mature in the thymus.

c) T & B cells are both produced in red bone marrow, but only T cells mature in the thymus.

d) T & B cells are both produced in the thymus & also mature in red bone marrow.

PRACTICE

A patient comes to you after experiencing multiple infections in a short period of time. Analysis reveals that she has a very low white blood cell count. Which lymphoid organ is likely not functioning correctly?

a) Lymphatic capillaries.

b) Tonsils.

c) Red Bone Marrow.

d) Thoracic Duct.