

## **Tourniquet Time**

## **Factors and Their Possible Consequences:**

If a tourniquet is applied for a prolonged time, hemoconcentration can result.

Osmotic pressure can affect RBCs, leading to rupture of the cells.

## **Corrective Actions:**

- Tourniquet should be released as soon as blood flow is established in the first tube, if possible.
- Tourniquet should be released no later than one minute after initial placement.

## References:

- 1. *Collection of Diagnostic Venous Blood Specimens*. 7<sup>th</sup> ed. CLSI Standard GP41. Wayne, PA: Clinical and Laboratory Standards Institute; 2017.
- 2. Hemolysis in serum samples drawn by emergency department personnel versus laboratory phlebotomists. Burns ER, Yoshikawa N. Lab Med 2002;33:378-380.
- 3. Proper patient preparation, specimen collection, and sample handling are critical to quality care. Kurec A. Med Lab Obs, 2016.