

Margaret H. Rollins School of Nursing
N201- Special Populations
Ticket to Enter – High Risk Newborn: Thermoregulation

1. Why is the preterm infant at risk for hypothermia?
 - A. Amount of brown fat greater than at term
 - B. Decreased amount of subcutaneous fat**
 - C. Less skin surface exposed
 - D. Position of flexion

2. Where is brown fat commonly located? Select all that apply.
 - A. Bilateral axillary areas**
 - B. Buttocks and abdomen
 - C. Near large intestines
 - D. Near kidneys and adrenals**

3. What is a complication of brown fat metabolism?
 - A. Hyperglycemia
 - B. Hyperthermia
 - C. Hypoxia**
 - D. Metabolic alkalosis

4. What is a consequence of hypothermia in the high risk infant?
 - A. Decreased respiratory rate
 - B. Increased surfactant production
 - C. Pulmonary vasodilation
 - D. Weight loss or failure to gain weight**

5. Define Neutral Thermal Environment (NTE).

An environment in which the body temperature is maintained at a level where O₂ use and energy expenditure are minimized.

Match the following strategies to the mechanism of heat loss (conduction, convection, evaporation, or radiation) that each intervention addresses.

6. Open incubator /isolette porthole and doors only when necessary: **Convection**

7. Avoid placement of infant bed near windows, doors, or walls: **Convection (Windows)/ Radiation (Walls)**

8. Place cloth on infant scale before weighing the newborn: **Conduction**

9. Warm inspired oxygen when administering to the neonate: **Convection**

10. Always dry infant immediately after bathing: **Evaporation**