

**HACKETTSTOWN REGIONAL MEDICAL CENTER  
CARDIO PULMONARY POLICY MANUAL  
CORD BLOOD DRAW**

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**Policy No: 4A.007**

**Origin: Cardio Pulmonary**

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**Purpose:** To acquire Cord blood specimen from vein & artery of umbilical cord.

**Procedure:**

1. Double clamp segment of umbilical cord post birth.
2. Look for vein (larger vessel) & arteries (2 smaller vessels).
3. Use an ABG heparinized syringe, push out excess heparin & draw blood from artery (smaller vessel).
  - a. Take off needle & place cap on the end pushing out any air or air bubble.
  - b. Label & ice sample
4. Repeat above procedure obtaining sample from vein (larger vessel).
5. Immediately run both samples through the blood gas machine & obtain values.
6. Venous & Arterial values differ slightly. Below are average value ranges for both specimens.
  - a. Ph 7.18-7.35
  - b. PO2 16- 30mmHg
  - c. pCO2 40-50mmHg
7. Notify MD of results & verify infant's stability as needed.

**Equipment:**

1. 2 ABG kits
2. ICE
3. Clamps
4. Labels

**Precautions:**

1. Excessive heparin left in syringe will alter values.
2. Specimens must be iced immediately & air bubbles sealed out to obtain accurate values.
3. Do not go through membrane as this will alter results.
4. Specimens left sitting will alter results due to temperature changes & blood clotting.