

## BLOOD GAS & ELECTROLYTE ANALYZER – LAB SYSTEMS

# Element POC<sup>™</sup>

## Arterial Blood Gas Sampling

### Arterial Puncture Sites

- **dpa** – dorsal pedal artery
- **fa** – femoral artery
- **pa** – palmar arch
- **sl** – sublingual artery
- **vt** – ventral tail artery
- **de** – dorsal ear artery
- **sa** – sphenous artery

### Preparation for Arterial Puncture

- Assess circulation by palpating pulse.
- Clip hair.
- Apply warm compresses to area to increase circulation and dilate vessel.
- Perform sterile preparation of site using warm prep solutions.
- ± local anesthetic infiltration or topical lidocaine/prilocaine cream.
- Local anesthetic increases patient comfort, but may obscure vessel palpation and pulsations.

### Arterial Puncture

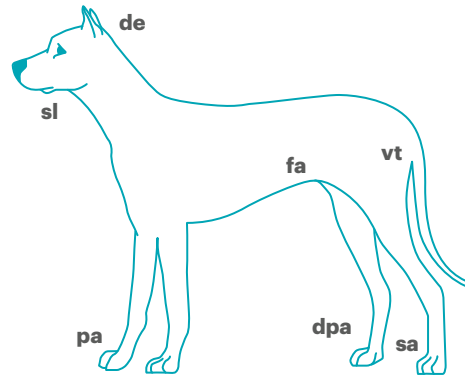
- Use commercially prepared blood gas syringe to decrease chance of sample clotting. Syringes are available from your laboratory supplier.
- Feel artery pulsations with forefinger of one hand.
- Use opposite hand to guide needle through skin at 45° angle for fa, or 30° angle for pa, sc, de, vt, sa, and dpa.
- Once through skin, slowly advance needle along line of travel of artery until blood is visible in needle.
- Reduce needle angle from 45° to 30° (femoral artery only).
- Gently aspirate blood.

### Post Sampling

- Withdraw needle from artery.
- Apply pressure as needle is withdrawn.
- Apply pressure bandage and leave in place for at least 5 minutes.
  - Expel air bubbles from syringe and remove needle.
- Analyze sample immediately.
  - If a delay is expected, remove needle, replace cap and place on ice.
  - Do not allow sample to be exposed to air.

### Precautions

- Do not advance needle against resistance.
- Repeated attempts may spasm and damage the vessel.



For questions or further assistance, please call  
Heska's Technical Support Services at **1-800-464-3752.**