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Head, Shoulders, Heels and TOES: Are toes an appropriate option for capillary blood sampling

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Are toes an appropriate option for capillary blood sampling? Camille Chicoine, BSN, RN; Nina De Leon, BSN, RN; Ashley Diaz, BSN, RN; Roe Ronia Eminikhah, BSN, RN; Laisha Killian, BSN, RN; Brianna Leal, BSN, RN; Adalie Lepoire, BSN, RN; Genesia Rivera, BSN, RN; & Genesis Rivera, BSN, RN

Background

Blood sampling is an essential practice in patient care. In the ICU, blood analysis can be emergent and provide crucial information for clinical decision making at the bedside. Typical blood sampling sites include fingers, heels, venipuncture or drawing from existing access. Capillary blood sampling from the toe is an existing practice in the hospital setting however, this practice is NOT supported by Children's Health policy.

Clinical Question

The purpose of this evidence-based practice project is to assess the validity of toe sticks for lab draws in the pediatric intensive care unit to facilitate blood sampling.

Literature Review

- Not much research/literature available, only 8 articles addressed using toes as an alternative collection site 1,2,3,4,5,6,8
- No literature specifically states it is safe to use the toes
- One piece of literature suggests toes should not be used because of risk of bone damage ⁷
- Suggested mainly for infants if necessary ^{2,3,8}

Mentioned toe as option 1,2,3,4,5,6,8

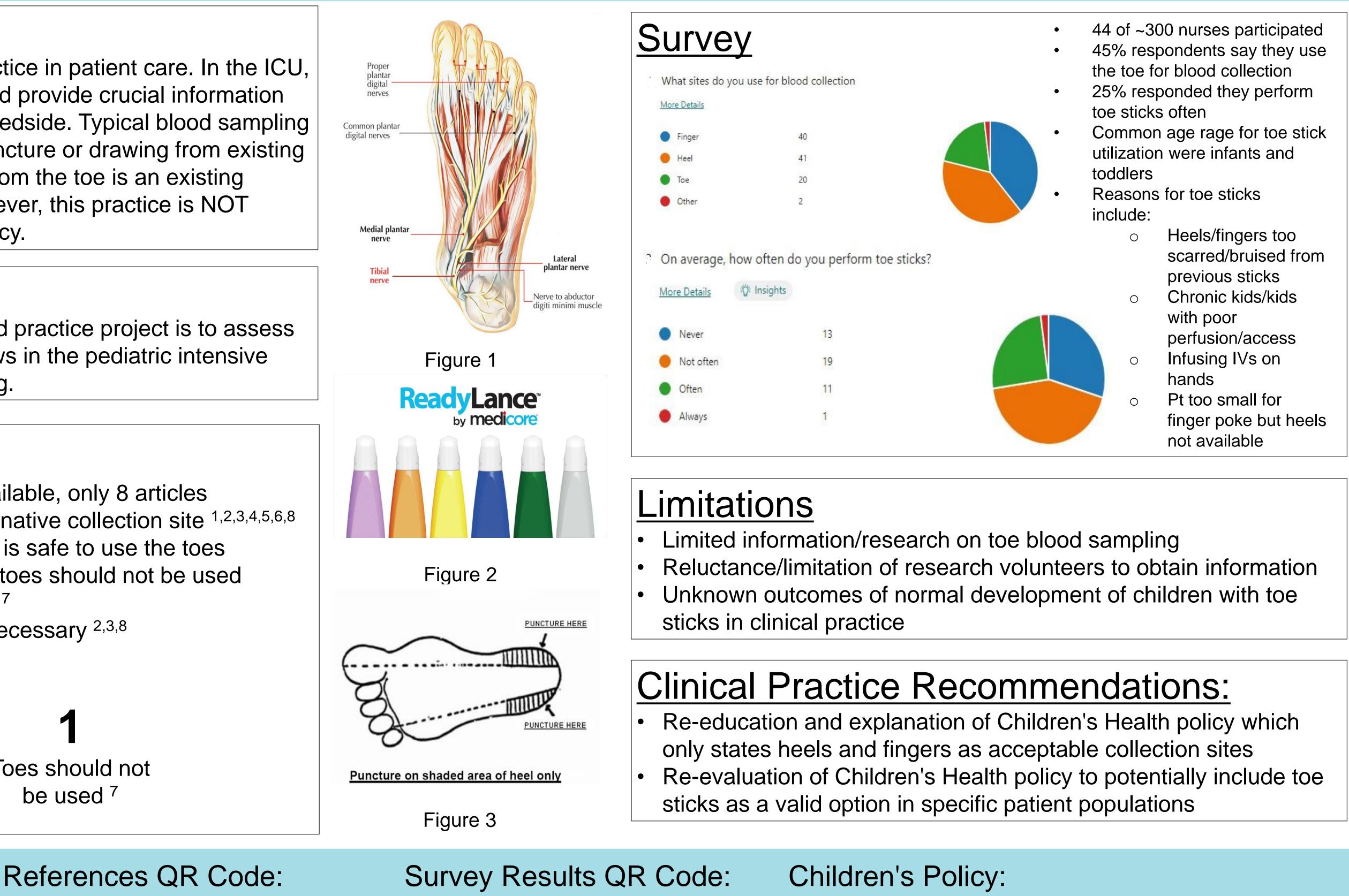
Toes should not be used ⁷

Evidence Table QR Code:





Head, Shoulders, Heels and TOES:





Capillary Blood Specimen Collection Tips QRG



CP 2.11 Blood Specimen Collection – Excluding **Blood Cultures/Gases**