Early vs. Delayed Umbilical Cord Clamping

Jerilyn Cox
Cedarville University, jerilyncox@cedarville.edu

Kristen Givens
Cedarville University, kristenagivens@cedarville.edu

Katie Grayton
Cedarville University, kgrayton@cedarville.edu

Follow this and additional works at: http://digitalcommons.cedarville.edu/pharmacy_nursing_poster_session

Part of the Nursing Commons, and the Obstetrics and Gynecology Commons

Recommended Citation
Cox, Jerilyn; Givens, Kristen; and Grayton, Katie, "Early vs. Delayed Umbilical Cord Clamping" (2012). Pharmacy and Nursing Student Research and Evidence-Based Medicine Poster Session. 19.
http://digitalcommons.cedarville.edu/pharmacy_nursing_poster_session/19

This Poster Session is brought to you for free and open access by DigitalCommons@Cedarville, a service of the Centennial Library. It has been accepted for inclusion in Pharmacy and Nursing Student Research and Evidence-Based Medicine Poster Session by an authorized administrator of DigitalCommons@Cedarville. For more information, please contact digitalcommons@cedarville.edu.
**Early Vs. Delayed Umbilical Cord Clamping**

**Jerilyn Cox, Kristen Givens, Katie Grayton**

Cedarville University School of Nursing

---

**PATIENT CARE ISSUE**

**Background & Significance**
- Nearly 4 million infants born annually in U.S.
- Events during birth can have life-long implications
- Early cord clamping associated with decreased risk of jaundice
- Delayed cord clamping associated with decreased risk of anemia
- Parents deserve knowledge and autonomy concerning care of their infant

**Question: Does Early or Delayed Umbilical Cord Clamping yield better outcomes for term infants?**

**P:** Term neonates and their parents

**I:** Early vs. delayed umbilical cord clamping

**C:** Impact of timing of clamping on neonatal health status

**O:** Parental education on timing of clamping specific to health context

---

**EVIDENCE-BASED PRACTICE QUESTION**

**Question: Does Early or Delayed Umbilical Cord Clamping yield better outcomes for term infants?**

**P:** Term neonates and their parents

**I:** Early vs. delayed umbilical cord clamping

**C:** Impact of timing of clamping on neonatal health status

**O:** Parental education on timing of clamping specific to health context

---

**REGISTERED NURSE INTERVIEW**

- Nurse recommends delayed umbilical clamping
- Helps adjustment to extra-uterine life
- Parents often not aware of options
- Depends on individual situation
- No current hospital policy

---

**RESULTS**

**Early Cord Clamping Comparisons**

- <10 sec.
- 10-15 sec.
- 15-60 sec.
- >60 sec.
- >120 sec.

**Delayed Cord Clamping Comparisons**

- <10 sec.
- 10-15 sec.
- 15-60 sec.
- >60 sec.
- >120 sec.

**SYNTHESIS OF EVIDENCE**

- Early clamping decreases risk of polycythemia, increases risk of anemia
- Not enough evidence to clearly take sides between early vs. delayed
- Delayed clamping decreases risk for anemia
- Research indicates delayed clamping

---

**EVIDENCE-BASED PRACTICE RECOMMENDATIONS**

- Nurses – aware of different options
- Parents – education on options
- Field – agree on definitions
- Field – more research

---

**LIMITATIONS**

- Inconsistent definitions of early and delayed clamping
- Research conducted in a variety of cultural contexts

---

**REFERENCES**


---

**METHODS**

- Databases: Academic Search Premier, CINAHL, Cochrane Library, Joanna Briggs Institute, MEDLINE, PUBMED
- Key Words: delayed, cord, clamping, delivery, umbilical cord clamping, early, late
- Inclusion: research on term infants, research on risks and benefits of delayed and immediate clamping
- Exclusion: Articles published >5 years ago