

New Direction in Telemedicine and E-learning:

The Obstetrical Nurse Exchange (ONE) Team



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Purpose of ONE Team

- ❖ Connection across the state for OB and Neonatal nurses
- ❖ Collaboration to share information and education
- ❖ Enhance patient care, satisfaction and outcomes related to OB and Neonatology



Our hope...

Is to improve nursing care to women and babies throughout Arkansas by improving communication and collaboration between hospitals and obstetrical clinics.



ONE Team aims at:

- ❖ Supporting neonatal, nursery and obstetrical nurses practicing throughout the state of Arkansas
- ❖ Building relationships between these practitioners and specialists at UAMS
- ❖ Discuss cases and events that relate to the everyday care of obstetrical and newborn nursing
- ❖ Evidence-based practices
- ❖ Current standards of patient care
- ❖ Translating current research findings into useful advice and community health improvement.



ONE Team Participants

- ❖ Obstetrical and neonatal nurses that work throughout Arkansas
- ❖ Health care providers for perinatal patients in Arkansas





ONE Team Achievements

- ❖ Between October 2007 and June 2008, a total of 314 evaluations were completed for 16 ONE Team presentations, scheduled for most Fridays between 8:00am and 9:00am.
- ❖ The number of participants per presentation varied from 3 to 71, with an average of 20 participants.



ONE Team Evaluation Strategy

- ❖ Demographic data
 - ❖ Discipline
 - ❖ Site location
- ❖ 5-point Likert scale
- ❖ Comments section



ONE Team Topics

ONE Team Presentation	Participants
Comforting bereaved families: What to say and how to say it	71
Keeping your cool in the heat of the moment	31
Newborn myths	23
Nursing and the law	25
Review of principles of neonatal resuscitation	22
Chorioamnionitis	21
Sepsis and the Newborn	16
Maternal Drug use	13
Drug-exposed newborn: Meth and more	31
Relationship between periodontal disease and pre-term birth	6



ONE Team Topics (cont)

ONE Team Presentation	Participants
Newborn Screening in Arkansas: an update	15
Fetal alcohol syndrome: What do healthcare providers need to know?	12
Angel One: Maternal air transport to UAMS	9
Genetics: Prenatal diagnosis	8
Interpreting antenatal testing strips – NST and CST	3
Expanded Arkansas newborn blood screening plan	8



Results: Gender and Race

Gender:

- ❖ 97.1% were female
- ❖ 1.6% were male

Race:

- ❖ 82.2% Caucasian
- ❖ 13.4% African-Americans
- ❖ 0.6% Asian/Pacific Islanders



Results: Discipline

- ❖ 88.2% nurses
- ❖ 4.5% advanced practice nurses
- ❖ 2.9% nursing students
- ❖ 1.6% social workers
- ❖ 1% medical doctors



Results: Site Location

- ❖ 39.8% connected from UAMS teleconference facilities in Little Rock, AR
- ❖ 25.2% from the Bradley County Medical Center in Warren
- ❖ 17 from Ouachita County Medical Center in Camden
- ❖ 17 from Great River Medical Center in Blytheville
- ❖ 16 from Conway Regional Medical Center
- ❖ 11 from Chicot memorial Hospital at Lake Village
- ❖ 12 facilities had less than 10 participants
- ❖ In total, participants came from more than 70 different cities throughout the state.



Results: Likert scale

Participants graded the following areas of criteria:

- ❖ Professional development
- ❖ The presentation and presenter
- ❖ Telemedicine technology



Results

The presentations related to their professional needs.

- ❖ 73.6% strongly agreed
- ❖ 22.3% agreed



Results

Presentations increased their knowledge of the subject matter discussed.

- ❖ 72.9% strongly agreed
- ❖ 21.0% agreed



Results

Presentations met their professional expectations.

- ❖ 71.3% strongly agreed
- ❖ 22.3% agreed



Results

The length of the presentation (1 hour in most cases) was appropriate.

- ❖ 73.2% strongly agreed
- ❖ 19.1 agreed



Results

Material was well presented.

- ❖ 75.5% strongly agreed
- ❖ 18.5% agreed

Professional resource leading each presentation was knowledgeable.

- ❖ 79.6% strongly agreed
- ❖ 15.9% agreed



Results

Presenter made time to the address the participants' questions during and after the presentation.

- ❖ 72.9% strongly agreed
- ❖ 17.5% agreed



Results

The information presented through ONE Team will translate into professional practice and will enhance patient care.

- ❖ 72.0% strongly agreed
- ❖ 21.0% agreed



Results

84% of the total of participants who were not present at the transmission site and accessed the presentations using telemedicine technology

- ❖ 63.4 % strongly agreed
- ❖ 18.8% agreed

Slide 21

REO1

Margaret, is this the criteria? This is confusing.

UAMS, 8/18/2008



Results

Telemedicine technology is as effective as traditional methods.

- ❖ 62.4% strongly agreed
- ❖ 19.1% agreed

Telemedicine technology was as effective as traditional methods.

- ❖ 62.4% strongly agreed
- ❖ 19.1% agreed



Results

Likely to take other professional development courses using the current technology.

- ❖ 67.2% strongly agreed
- ❖ 14.6% agreed

Telemedicine was the most convenient way to obtain professional development training.

- ❖ 67.2% strongly agreed
- ❖ 15.6% agreed



Results

The evaluation form included 14 additional items in which participants evaluated specific aspects of the ONE Team presentation, including:

- ❖ Content
- ❖ The teaching methods used
 - ❖ Relevance to practice
 - ❖ The facilities
 - ❖ The presenter



Results: Content

- ❖ Of these participants, 78.3% strongly agreed and 17.7% agreed that the content was related to the objectives
- ❖ 79.9% strongly agreed and 18.1% agreed that the information presented was up to date.
- ❖ 80.3% strongly agreed and 18.1% agreed that the ideas presented were clear and logical.



Results: Teaching Methods

- ❖ 69.9% strongly agreed and 22.5% agreed the audiovisuals and resource materials (teaching methods) were considered of good quality and an asset to the presentation.
- ❖ 73.1% strongly agreed and 19.6% agreed they were helpful in clarifying the content.



Results: Relevance In Practice

- ❖ 74.7% strongly agreed and 18.1% agreed that the presentation increased both their content knowledge and skills
- ❖ 77.5% strongly agreed and 18.1% agreed that they can use the information readily in their practice.
- ❖ 74.7% and 18.9% of the participants strongly agreed or agreed that they have achieved their personal and professional goals through ONE sessions.



Results: Facilities

- ❖ 79.5% and 13.3% of the participants strongly agreed or agreed that the meeting room was conducive to learning
- ❖ 75.1% and 15.7% strongly agreed or agreed that the location of the course was satisfactory.
- ❖ 81.2% strongly agreed and 12.0% agreed that the length and scheduling (time) of the course was appropriate.

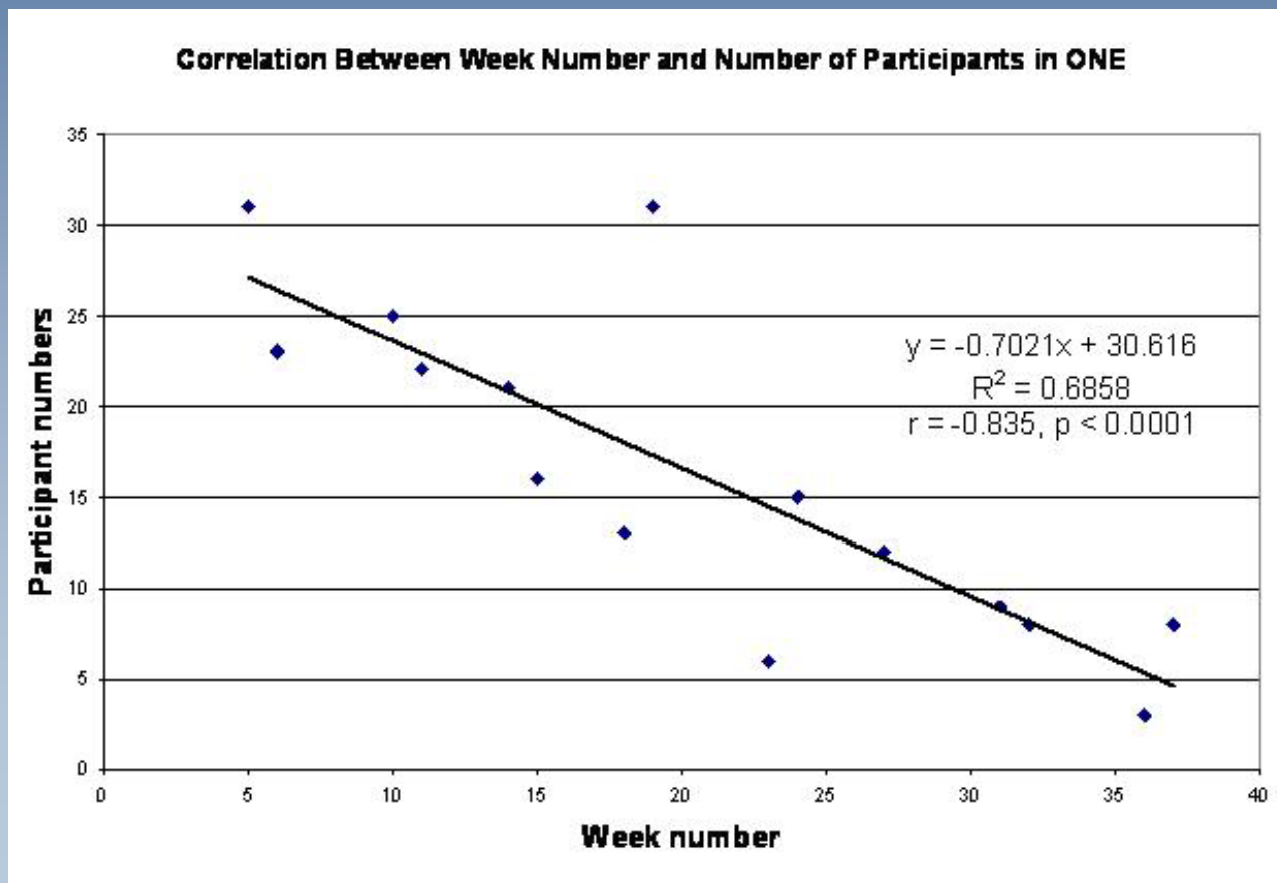


Results: Presenters

- ❖ 80.3% and 18.9% of the participants strongly agreed or agreed that the speaker created an organized and easy to follow presentation.
- ❖ 82.7% strongly agreed and 17.3% agreed that the speaker responded clearly to questions from the audience.
- ❖ 80.7% strongly agreed and 17.3% agreed that the presenter demonstrated evidence of expertise in the subject.



Results: Attendance





Overall, the top ten topics were:

1. Relationship between periodontal disease & pre-term birth (mean rank = 4.98)
2. Genetics: Prenatal diagnosis (mean rank = 4.96)
3. Angel One: Maternal air transport to UAMS (mean rank = 4.95)
4. Chorioamnionitis (mean rank = 4.853)
5. Newborn myths (mean rank = 4.852)
6. Review of principles of neonatal resuscitation (mean rank = 4.827)
7. Nursing and the law (mean rank = 4.826)
8. Drug-exposed newborn: Meth and more (mean rank = 4.75)
9. Comforting bereaved families: What to say and how to say it (mean rank = 4.69)
10. Keeping your cool in the heat of the moment (mean rank = 4.67)



Conclusion

Participants are very satisfied with ONE Team and consider it an effective way to address the continuing education needs of neonatal, nursery and obstetrical nurses throughout Arkansas, especially in rural and underserved areas.



Questions?



For more information

<http://www.uams.edu/cdh>