Outcomes of a Simplified Ultrasound-Guided Intravenous Program for Emergency Nurses
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THE PROBLEM
DIFFICULT IV ACCESS (DIVA)

PATIENTS
INCREASED PAIN DISEMOTION
SYSTEM
THROUGHPUT DELAYS INCREASED LOS COST OF CARE
PROVIDERS
FRUSTRATION INCREASED HELPlessness

PURPOSE
DEVELOP AN ULTRASOUND-GUIDED INTRAVENOUS ACCESS TRAINING PROGRAM FOR EMERGENCY NURSES

METHODS
USGIV TRAINING
4 hour CNE class: PPT
Lecture
Practice on training model and classmates
Post-test
10 successful probed attempts on patients
Data Collection
Nurse log
Electronic medical record (EMR)
Post class surveys
Focus groups

RESULTS

2% REDUCTION IN IV ATTEMPTS
7% REDUCTION IN DIVA IV ATTEMPTS

THE LEARNING CURVE
Success rates

Conclusions

● A SIMPLE, LOW-COST USGIV PROGRAM CAN BE SUCCESSFUL
● A USGIV PROGRAM CAN DECREASE IV ATTEMPTS, ESPECIALLY FOR DIVA PATIENTS
● LEARNER SUCCESSFUL COURSE COMPLETION RATES ARE INFLUENCED BY NURSE EXPERIENCE AND INITIATIVE
● USGIV PROFICIENCY IMPROVES WITH PRACTICE

Implications

● IMPLEMENTATION of A HOSPITAL-WIDE USGIV TRAINING PROGRAM
● A NEW RIGOROUS SIMULATION-BASED MASTERY LEARNING CURRICULUM
● TRAIN the TRAINER INSTRUCTOR CURRICULUM
● USGIV to REDUCE IV ATTEMPTS, CVCs AND PICC LINES HOSPITAL-WIDE