Cardiopulmonary Resuscitation: Is the Emergency Department Visit an Opportunity to Recommend Education? (Poster)

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Background

The American Heart Association wants to increase the number of citizens who know how to perform cardiopulmonary resuscitation (CPR). It is unknown whether providing educational materials to patients in the Emergency Department (ED) to learn CPR is effective.

Objective

We sought to determine if patients and their families would complete a CPR Anytime™ kit if it was given to them, at no expense, during their ED visit.

Methods

This was a prospective, pilot study of a convenience sample of patients who presented to a tertiary, suburban Level-One trauma center with a yearly census of 75,000. After informed consent was obtained, CPR-naive adult participants were given a CPR Anytime™ self learning kit, which consists of a CPR mannequin and a 22-minute DVD. Approximately 40% of patients presented to the ED with chest pain and were motivated to complete a CPR AnytimeTM kit, even when provided at no expense to them. The benefit to the few who learn CPR from this type of effort must be offset by the program cost.

The mean age of the 129 study participants was 44.7 years; 80 (62.0%) were female and 49 (38.0%) were male. Eighty-three percent (n=107) of the participants reported having access to a primary care physician and 87% (n=112) had health insurance. Seven participants (6.4%) had a personal history of a heart attack, while 68 (52.7%) reported a positive family history of heart attacks. Sixty percent of the participants (n=77) rated importance of personal knowledge of CPR a “10,” on a scale from 1 to 10 (not very important to very important). When asked the importance of their family members knowing CPR, 85 respondents (65.9%) also rated it a “10” on the same scale. Despite this overall perceived importance, males reported significantly lower importance levels than females. Fifty-nine of the 80 female participants (73.8%) gave the highest score for CPR personal importance, whereas only 18 of the 49 male participants (36.7%) responding similarly (p=0.004). Comparable results were observed for CPR importance for family members with 77% of females and 46.9% of males responding with the highest score (p=0.02).

At the three-month follow-up, 14 participants (10.8%) either refused to continue to participate or could not be located. Of the 115 remaining participants, 31 (26.9%) completed the kit at home; 16 were females (22.2%) and 15 male (34.9%), (p=0.14). There were five subjects enrolled that did not complete the kit, but had a family member do so; they were all men whose wives refused to continue to participate or could not be located. Of the 115 remaining participants, 31 (26.9%) completed the kit at home; 16 were females (22.2%) and 15 male (34.9%), (p=0.14). There were five subjects enrolled that did not complete the kit, but had a family member do so; they were all men whose wives refused to continue to participate or could not be located. Of the 115 remaining participants, 31 (26.9%) completed the kit at home; 16 were females (22.2%) and 15 male (34.9%), (p=0.14).

The majority of ED patients report that knowing how to perform CPR for both themselves and their families is very important. However, a minority of these same patients and their families are motivated to complete a CPR AnytimeTM kit, even when provided at no expense to them. The benefit to the few who learn CPR from this type of effort must be offset by the program cost.

References:


Results

CPR Treatment Kit Family and Friends

Figure 1 - CPR Treatment Statistics

Figure 2 - Percentage of CPR Kit Utilization

Conclusions

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