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2015 RESEARCH TRAINING GRANT - \$100,000

“TIMING OF AIRWAY INTERVENTIONS AND SURVIVAL AFTER OUT OF HOSPITAL CARDIAC ARREST”

Over 36,000,000 calls for EMS occur annually in the US. Despite this staggering demand, clinical research in EMS remains unfocused and underfunded. In 2010, the American Heart Association acknowledged, "there is inadequate evidence to define the optimal timing of advanced airway placement in relation to other interventions during resuscitation from cardiac arrest." Dr. Benoit will gain advanced training in research methods, biostatistics and epidemiology using a combination of didactic and applied learning experiences to develop skills in statistical modeling and interpretation through this study which will address this fundamental question. The central hypothesis is that the risk-to-benefit ratio for advanced airway interventions will change throughout the time course of OHCA resuscitation attempts. The aim is to evaluate the effect that the timing of prehospital airway interventions has on the minute-to minute likelihood of achieving return of spontaneous circulation. Evaluate the effect that the time between establishing an airway and hospital arrival has on the probability of achieving neurologically intact survival.