

Research Critique

5 pages | 1042 words

This paper will review a quantitative study comparing the outcomes of physicians that use sterile versus nonsterile gloves during simple soft tissue lacerations repairs in the Emergency Room. It will address the protection of human participants, their risks/benefits, and a review of the study's data collection, data analysis, and problem statement along with an interpretation of its findings. Article

The article is from 2004, and was published in the Annals of Emergency Medicine. It's entitled "Sterile Versus Nonsterile Gloves for Repair of Uncomplicated Lacerations in the Emergency Department: A Randomized Controlled Trial". Protection of Human Participants

A random sampling of patients were taken from populations that presented to multi-center emergency rooms in the Toronto area, with simple soft tissue lacerations that required suture repair. Of the 1,100 people approached, 902 gave voluntary consent to participate in the study. Of those, 86 were excluded for a final total of 816. There were 245 patients who refused to participate, with 40% being children (the study enrolled any patient over the age of one). There was suggestion that the large amount of children who "refused" participation was related to "parental anxiety of entering their child into the study" (Perelman et al., 2004, p. 363). Specific physical, psychological, social or economic risks to patients were not addressed in this article, but a patient information sheet was given to participants before they signed the consent. The handout provided background information on wound management, infection, and the rationale for the study. There were no immediate or direct benefits for patients to be involved in this study. The protocol, patient consent form, and all other related information during this trial were reviewed and approved by the ethic and review boards of all facilities involved. Data Collection

Patients that arrived to one of three large community ER's in the Toronto area, with a wound that was viewed to meet criteria, were provided written information on the rationale of the study and asked to participate. Inclusion criteria were addressed by a physician or resident that included assessing for complexity of laceration, location on the body, and if it had occurred within 3 hours from patient's arrival. A signed a consent was obtained and data was collected through completion of a checklist noting the patient's age, sex, site of laceration, type of injury, time of injury, time of injury from the time of repair, and technique of repair. The patient was given a self-addressed, pre-stamped envelope that was to be completed by the physician who took the sutures out.

This physician filled out an explicit questionnaire using specific guidelines on wound assessment (pus, erythema, fever,) their clinical impressions (infection vs. no infection), and their management plan (topical/oral/IV antibiotic use, or need for referral to wound specialist). The follow up physician was unaware of which gloves were used in initial repair of the wound. The returned questionnaires where coded to collate with the initial assessment forms. There are several independent and dependent variables in this study. They include: not being able to run an equivalency trial related to the large sample size...

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Julia Schneider



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