A close up of MSKTC logo



# Quick Review of Model System Research

### The Impact of Electrical Injuries on Long-Term Outcomes: A Burn Model System National Database Study

### What is the study about?

### The aim of this is study was to compare longterm outcomes for inviduals with electrical injuries and fire/flame injury with respect to life satisfaction, physical, mental functioning, and work status following burn injury.

### What did the study find?

The study found that individuals with electrical injuries were more likely to be males that were injured at work. Long-term physical functioning outcomes for individuals with electrical injuries were found to be significantly worse at 24 months post-injury compared to individuals with fire/flame injuries. In addition, individuals with electrical injuries were half as likely to be employed at 24 months post-injury than those with fire/flame injuries. Life satisfaction and mental functioning did not differ between the two comparison groups.

### Who particpated in the study?

Participants were individuals with fire/flame injuries (n=1036) and electrical injuries (n=111).

### How was the study conducted?

The study collected and examined data from the Burn Model System National Database between 1996 and 2015. The Satisfaction With Life Scale, Short Form-12 Physical Composite Score, Short Form-12 Mental Composite Score, and employment status were examined at 24 months post-injury.

### [How can people use the results?](file:///C:\\Users\\ccai\\AppData\\Local\\Microsoft\\Windows\\Temporary%20Internet%20Files\\Content.Outlook\\4WHR71C4\\Bogner_CER-1403-13476_DFRR_Professional%20and%20Public%20Abstract_SME%20Review_102918%20ccai.docx" \l "Note" \o "Describe who could use the results and how. Could be patient, doctor, administration, centers. Should make sense given findings and study design. Do not overreach.)

Practitioners, individuals with electrical injuries, and their families can use the results of this study to better understand how the support and rehabilitation needs for this population may differ from individuals with fire/flame injuries overtime.

### [Reference](file:///C:\Users\ccai\AppData\Local\Microsoft\Windows\Temporary%20Internet%20Files\Content.Outlook\4WHR71C4\Bogner_CER-1403-13476_DFRR_Professional%20and%20Public%20Abstract_SME%20Review_102918%20ccai.docx#Note)

Stockly, O.R., Wolfe, A.W., Espinoza, L.F., Simko, L.C., Kowalske, K., Carrougher, G.J., Gibran, N., Bamer, A.M., Meyer, W., Rosenberg, M., Rosenberg, L., Kazis, L.E., Ryan, C.M., & Schneider, J.C. (2019). The impact of electrical injuries on long-term outcomes: A Burn Model System National Database study. *Burns*. doi: 10.1016/j.burns.2019.07.030

### Disclaimer

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