A close up of MSKTC logo



# Quick Review of Model System Research

### Challenges to the Standardization of Trauma Data Collection in Burn, Traumatic Brain Injury, Spinal Cord Injury, and Other Trauma Populations: A Call for Common Data Elements for Acute and Longitudinal Trauma Databases

### What is the study about?

Establishing common data elements (CDEs) is important for promoting, sharing, and standardizing data collection. Data elements refer to the words, questions, or concepts that are used in research studies to describe the data being gathered. The adoption of CDEs in research is important as it helps researchers compare different research studies and conduct literature reviews. There is currently no set of CDEs available for all trauma populations. This study aims to examine the degree of common data collection among five trauma databases.

### What did the study find?

Inconsistencies were found in the thirty data elements examined across the five trauma databases. Only fourteen of the thirty data elements were present in all five databases. Twelve of these fourteen data elements exhibited differences in data values, otherwise known as answer choices.

### Who participated in the study?

### Human subjects were not required for this study.

### How was the study conducted?

To determine the common elements, the data element descriptions and definitions (data dictionary) of the five trauma databases were examined. This study included two acute (short-term) care databases and three longitudinal (long-term) trauma databases. Data elements and values were compared across all databases and variations in the data were identified to emphasize meaningful differences between datasets.

### [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.)

Trauma patients and their families can use these results to help them understand the important role data plays in trauma research. Clinicians can use the results of this study as a call to action for establishing CDEs for all trauma populations.

### [Authorship](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)

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