



WoundFlow—Computerized Mapping and Tracking of Burns

Status

Title: An electronic burn mapping system that documents wound healing over time.

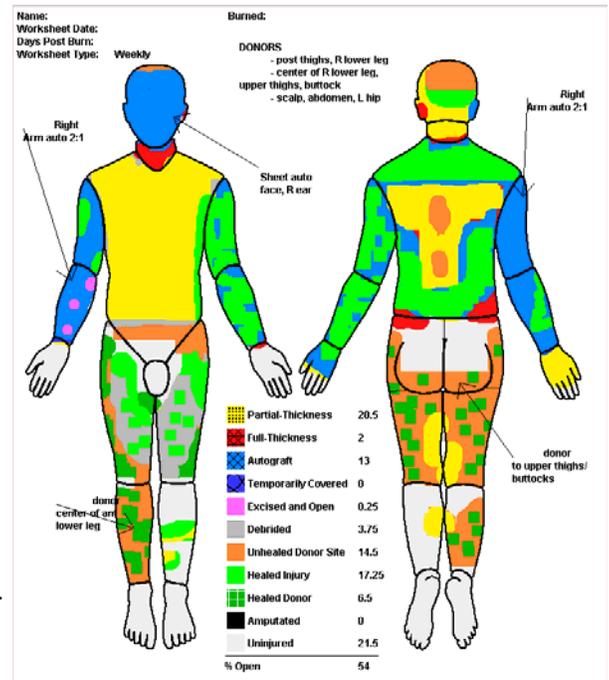
Developers: Craig Fenrich, Sarah Shingleton, Jose Salinas, Maria Serio-Melvin, Leopoldo Cancio

The Army is seeking a partner interested in commercializing this technology.

The Technology:

Accurate mapping and tracking of burn injuries is critical for creating and executing an effective treatment plan for burn patients. Most burn mapping procedures are paper-based, which can lead to variable treatment across patients and providers. Earlier versions of electronic mapping tools are not readily available with the features offered by WoundFlow.

WoundFlow is a user friendly, intuitive, electronic burn mapping tool used for documenting full and partial thickness burns and ongoing surgical treatment modalities. This technology uses the same body segment percentages as the standard Lund-Browder chart and is able to calculate the total body surface area of burns, grafting, donors and healing. It also features an animation mode and can upload patient photographs that can be easily viewed by the entire multidisciplinary staff.



Application:

This technology could be used to implement an accurate, standardized method of mapping burn injuries while systematically tracking the patient's healing progress.

Benefits:

- User-friendly, intuitive software available for transfer to a commercial partner.
- Health care providers can customize a patient's burn map on a standard Lund-Browder classification chart.
- A mapping percentage and graphical display are provided based on wound size, location, extent, and characteristics of the burn injury. This information provides a capability to standardize the percentages and category of burn injuries.
- Tracks associated surgical treatments used during the patient's stay at the hospital.
- All recorded data are time-stamped and stored in a database.
- An animation tool allows playback of wound mappings over a specified time sequence to visualize healing progression.
- Reduces the reliance on paper-based documents and allows for patient information to be consolidated into a single electronic source, which can be easily viewed by the multi-disciplinary team.
- Photos of a patient's wounds and healing treatments can be uploaded and viewed beside the wound mapping.

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