Trauma App

NHS
Approved & procured

Real-time recording, life-changing reporting.

The digital documentation solution for major trauma.

Download on the App Store

Context

Major trauma is the leading cause of death in those under the age of 40 and the greatest cause of long-term disability in all age groups.

Delivery of emergency medical care is rapid and intensive, demanding critical interventions and decisions from clinicians both pre-hospital and in-hospital. A typical Trauma Centre in the UK will treat between 750-2000 critically injured patients a year.

Accurate documentation of this treatment, carried out by a team member ('Scribe'), is important for audit, care quality improvement, litigation and billing (if required).

Problem

Major trauma is fast paced, complex and currently poorly documented.

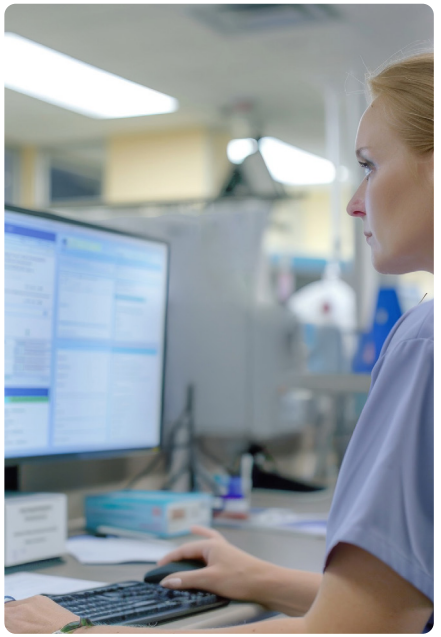
Current methods are unreliable and error prone. Data is often illegible, incomplete, missing and retrospectively documented. In the UK they're invariably paper-based and require time-consuming manual upload for auditing requirements.

Some advanced Electronic Health Record (EHR) systems offer direct scribing, however its web-form desktop based input system induces scribing reluctance and is unreliable as a result.

Risks

Poor documentation is a matter of life or death when it comes to Major Trauma Care.

- Inconsistent data collection across departments reduces standardisation of care.
- Delays in sharing critical information between teams and any information-gaps slows decision making, reducing the quality of care.
- Limited access to real-time data at point of care or in post-case analysis impacts clinician's ability to deliver the best quality of care.
- Poor quality data negatively impacts hospital's resources through administrative burdens, missed insurance claims, weak litigation and inaccurate billing.



Solution

Designed by clinicians for clinicians.

In collaboration with clinicians in NHS Scotland (UK) with international peer-review, the Trauma App was developed, piloted and launched in 2021 as a tablet-based digital solution for scribing a major trauma case.

Following Advanced Trauma Life Support (ATLS) protocols, and familiar paper-based work-flows the Trauma App improves efficiencies and effectiveness in documentation practice and patient outcomes.

Impact

"The intuitive design is a game changer for documenting in our fast-paced environment. It allows our team to quickly capture a more accurate picture of what happened and when, opening up significant new opportunities to review and enhance our care delivery."

Alan Whitelaw

EM Consultant, Queen Elizabeth University Hospital, Glasgow

"Using the trauma app significantly improves the real-time quality of the patient record as well as reducing my time in post-case write-up. I get to spend more time focussing on my care delivery with the confidence in the accuracy of the documentation from the App"

Sarah Stibbards

EM Consultant, Clinical Director for Major Trauma, Alder Hey Children's Hospital

Admin burden reduced by >50%

Significantly simplifies post-case documentation for senior clinicians, and streamlines reporting for national audit.

Unrivalled dataset

Providing clinicians with the most complete[1] and contemporaneous data directly into their EHR, empowering better decisions that improve patient care and pioneer new research.

Ensures protocol adherence

With a usability score above international standards[2], the app enhances compliance to protocols and checklists, where existing studies[3] show improvement in patient outcome.

REWIRED PITCHFEST

Pitchfest Winner 2025

HEALTH TECH AWARDS 2025 WINNER

HTN Best Solution for Clinicians 2025

[1] Butler, Miss Joanna et al. (2024). Implementation of major trauma app: usability and data completeness. BMC emergency medicine, 24(1), 136. https://doi.org/10.1186/s12873-024-01022-w

[2] Butler, J., Wright, E., Longbottom, L. et al. Usability of novel major Trauma App for digital data collection. BMC Emerg Med 22, 39 (2022). https://doi.org/10.1186/s12873-022-00578-9

[3] Ref. Shafi, S. et al. (2014); World Journal of Surgery (2017); Maarseveen, O. et al. (2020)

The Product

The Trauma App is an iPad application designed for major trauma care clinicians in a Hospital Emergency Department (ED) to digitally document patient care.

The app allows for data collection through an iPad App user interface. Data is stored directly on the device for offline use and regularly synced to the server to ensure continuity in case of device failure. Upon case closure, a senior clinical user verifies and signs off the documented data, which is then transferred to the cloud server and deleted from the local device.

The app enables documentation of a patient's major trauma care in hospital from Standby (pre-alert), team preparation prior to patient arrival, and through to the patient being moved into the broader ED patient pathway (e.g. to Theatre or ICU for ongoing monitoring).

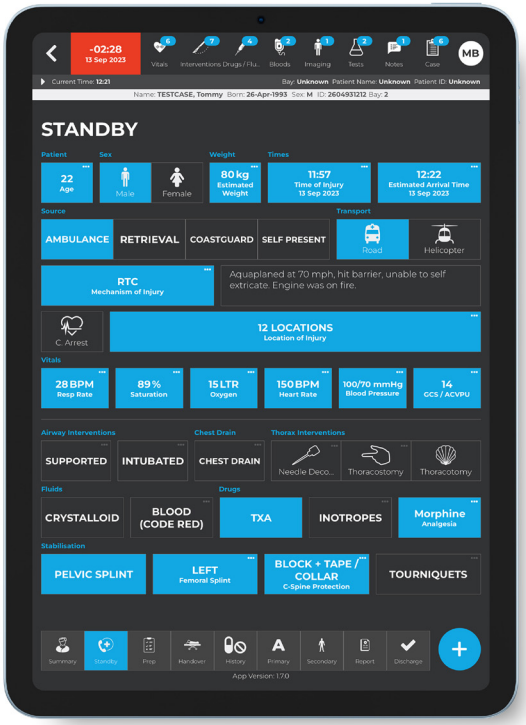
The app covers the full spectrum of assessments, investigations, interventions and procedures provided in the trauma resuscitation bay and has bespoke forms which allows Scribes to maintain a high level of real-time quality data documentation in a fast-passed clinical setting.

When the patient moves into the ongoing care pathway, upon senior clinical sign-off, a high fidelity PDF case report is generated and/or structured data is integrated with the EHR.

Case history, user administration and analytics are accessible through a web browser dashboard.

Overview of functionality

Full simulation demonstrations and training resources for every aspect of the app can be found on the website thetraumaapp.com/training

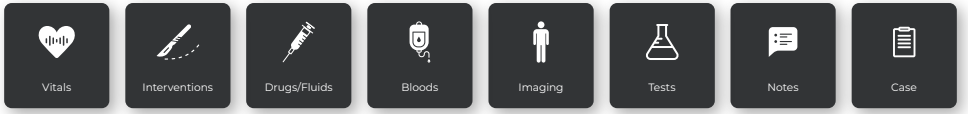


Standby

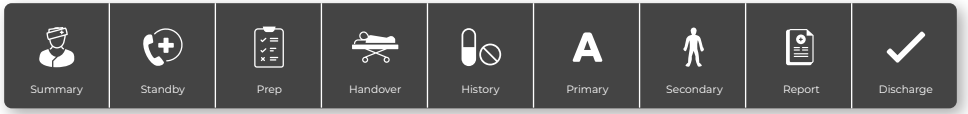
Data input begins on the 'STANDBY' screen, with boxes to tap on and pop-ups to complete. Text notes can be input via the iOS keyboard, Apple Pencil or inbuilt voice recognition.

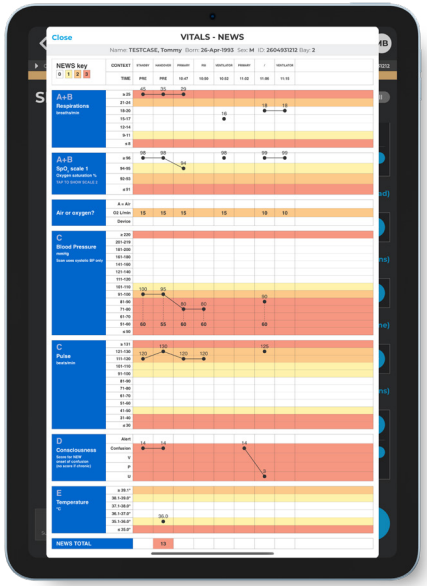
The Trauma Care workflow is tabbed along the bottom of the screen, with investigation findings, interventions, prescriptions, imaging, and case details populated along the top.

Top navigation:



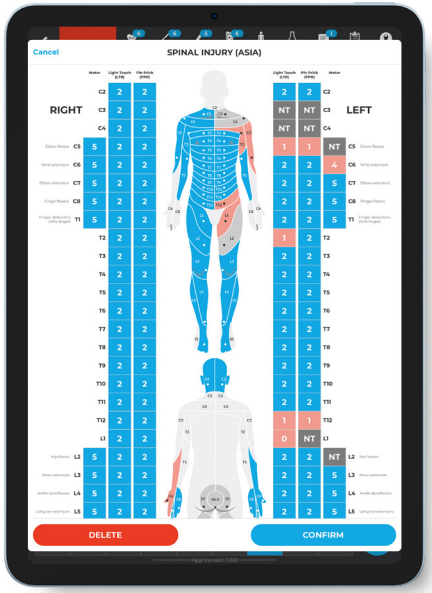
Bottom navigation:





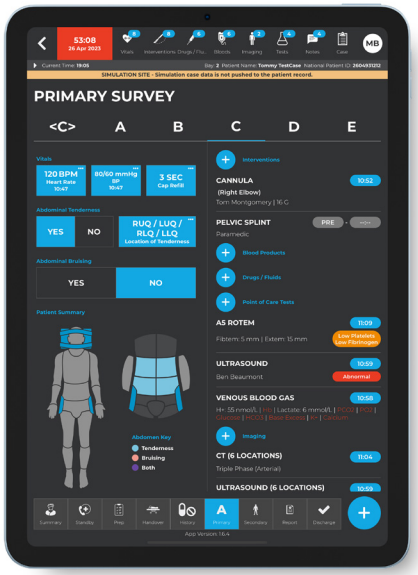
Vitals

Vitals signs are displayed in interactive NEWS/ PEWS charts for familiarity, with multiple areas in the patient care flow to input observations data which time-stamps and tracks on the chart automatically.



ASIA

There are other areas, such as within Secondary Survey, where a Spinal Injury ASIA form matches the existing familiar proforma layout.



Primary Survey

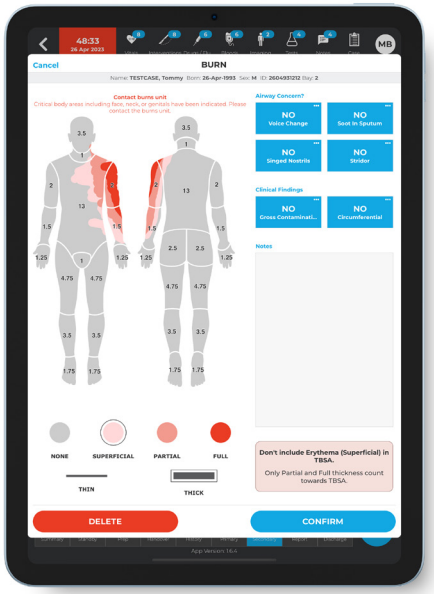
Primary Survey is swipeable for each stage (<C> A B C...etc) with most relevant investigations (left) and interventions (right) surfaced for ease of input.

Pictorial cognitive aids are found throughout the app to assist the Scribe with ensuring accurate timeline documentation.

There's always the Menu '+' button in the bottom right corner which allows for anything in the app to be searched for.

Summary

A Summary screen can be viewed and/or projected onto a display screen for live analysis of key patient care data during the case or in review.



Burns

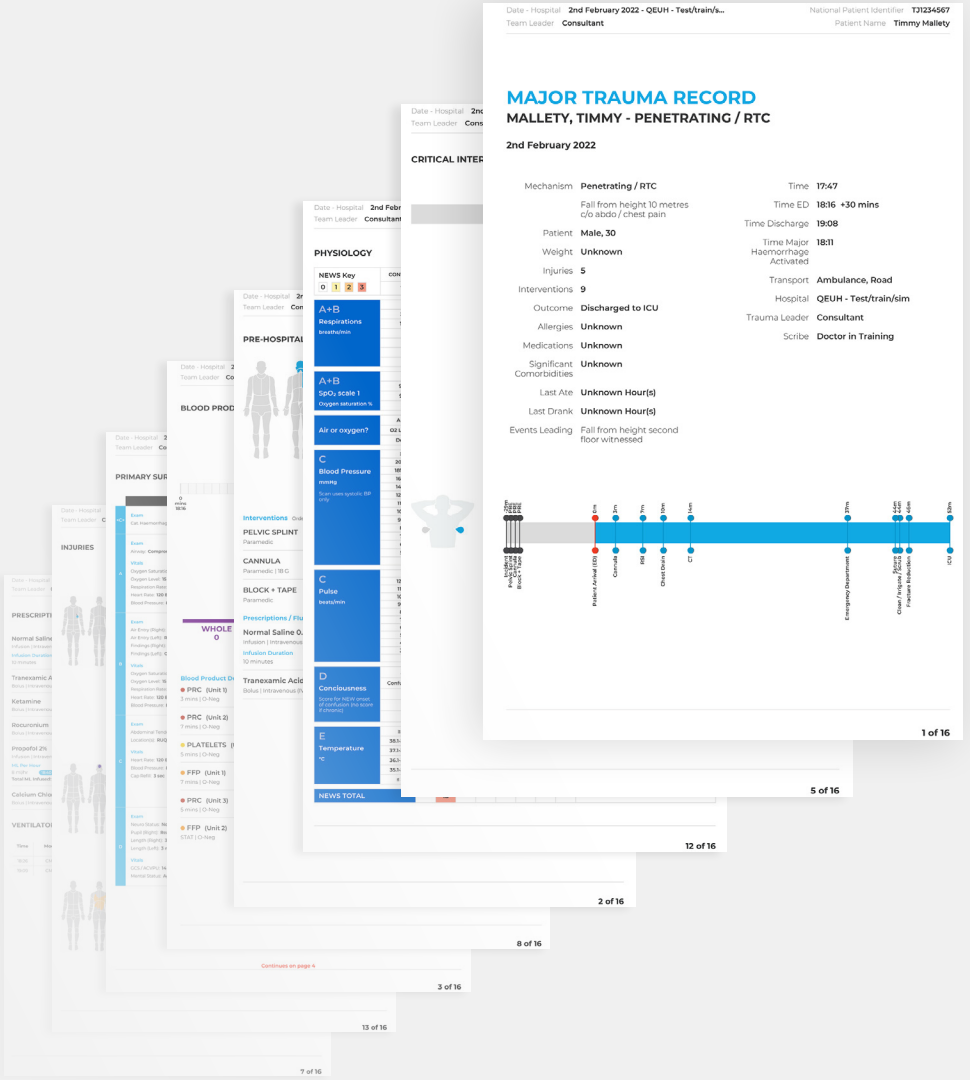
Body map painting/marking in Secondary Survey Injury documentation enables swift capture and automatic area coverage.

Discharge

An interactive Report summary allows for Scribe's and Trauma Coordinator's to check on the case data, and input missing fields or correct anything before being signed off by a Senior Clinician.

Digital Report

A PDF copy of a report is uploaded into the EHR upon case sign-off, and structured data can be integrated as desired.

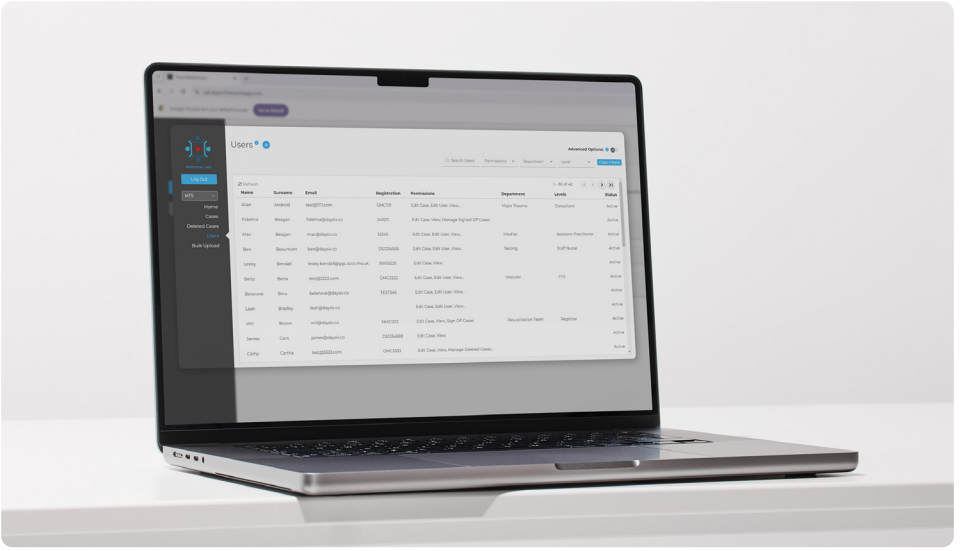


Dashboard

A desktop browser dashboard is available for administration. Providing overview of all cases, user administration, and access to reports for supporting audit uploads.

Business Intelligence (BI)

Dashboard analytics are also available for live review of the hospital's Trauma Care delivery.



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Get in touch

thetraumaapp.com

SCOTTISH TRAUMA NETWORK

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