CareFlight

Shock Index and Pre-hospital Blood Transfusion in Trauma

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Our service and transfusion population

Day only pre-hospital trauma, mostly metro Sydney

Jan 2021 – December 2025

1,997 taskings → 1,459 patients assessed

153 patients received a PHBT – 10% of all patients

Patients who received a PHBT

SEX DISTRIBUTION

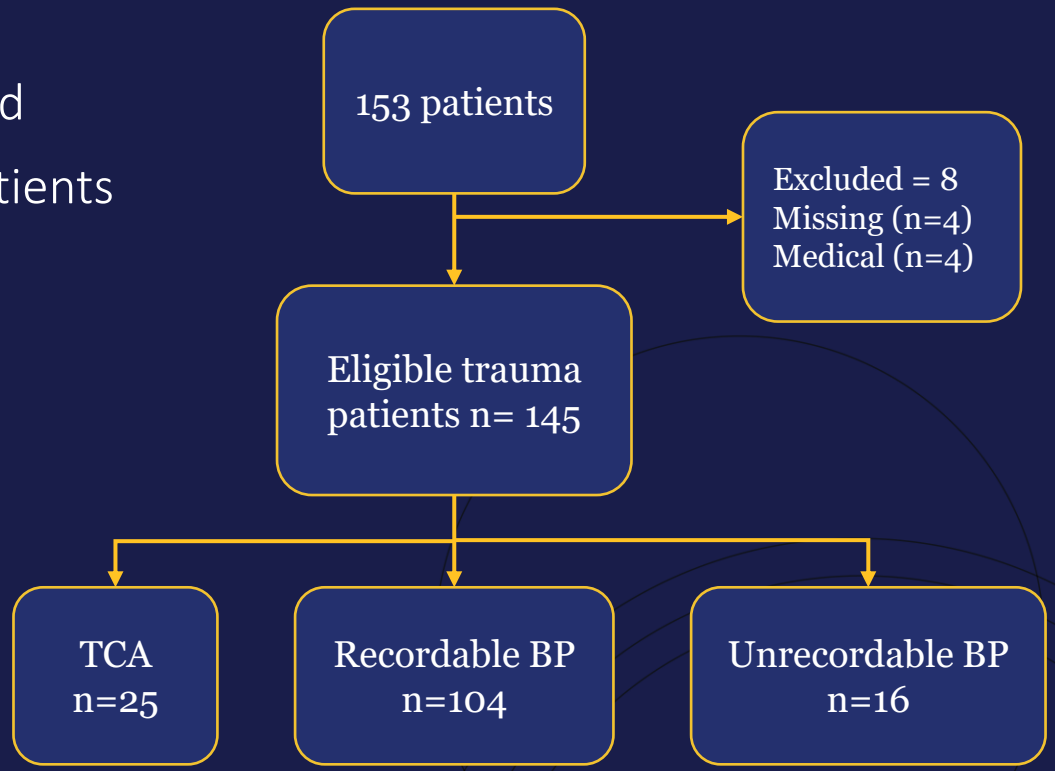
- 115 (79.9%) Male
- 28 (19.4%) Female
- 1 (0.7%) Transgender

AGE

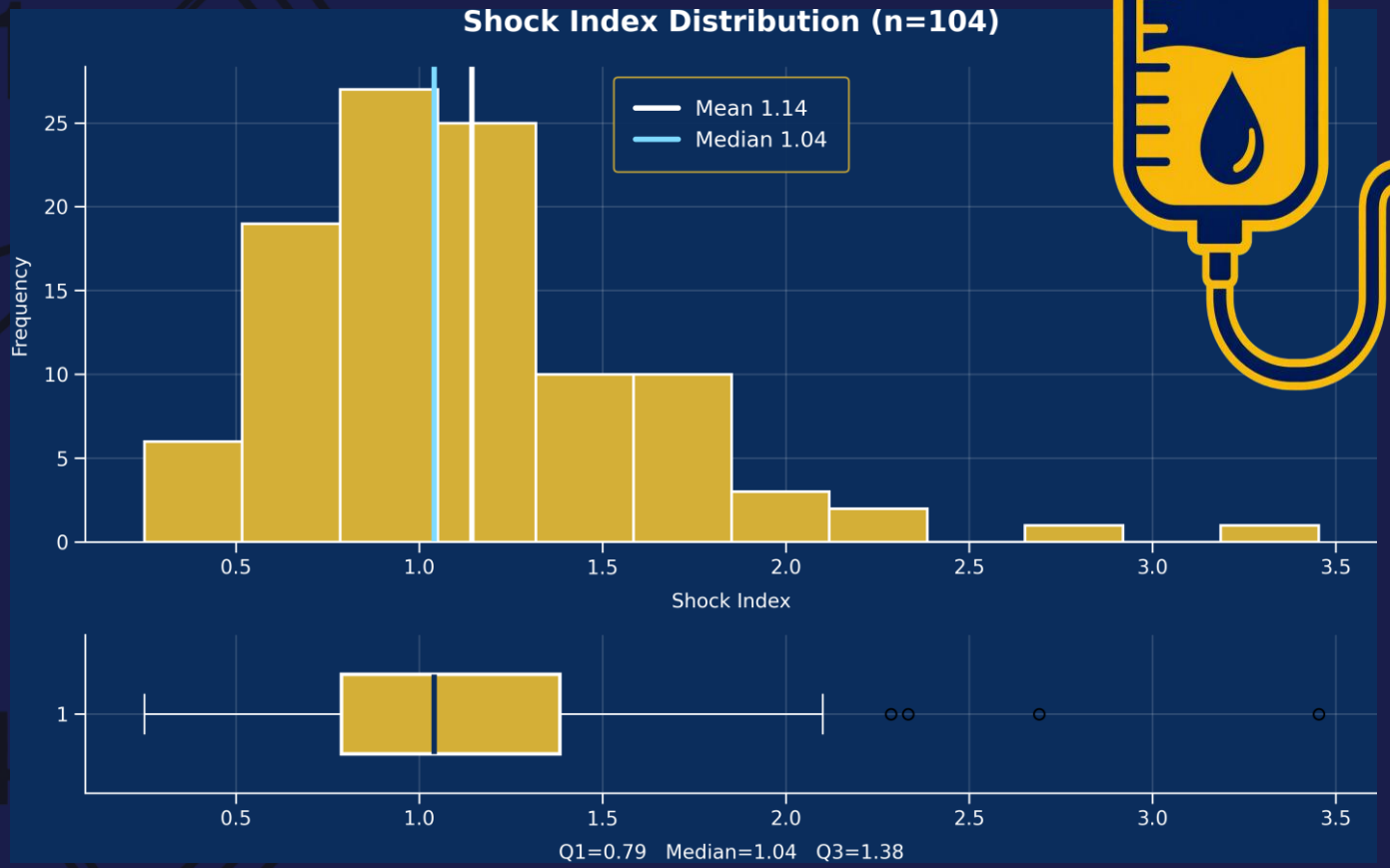
Mean age 46 years

MECHANISM OF INJURY

- 115 (79.3%) Blunt injury
- 30 (20.7%) Penetrating injury



Results – SI on arrival of aeromedical team



TCA
n=25

Unrecordable BP
n=16

Recordable BP
n=104

HR: Patients with unrecordable BP

- Mean ± SD: 115.6 ± 37.4
- Median: 125, range: 50–156

Next

- Compare SI with non-PHBT cohort
- SI on arrival of first ambulance
- Compare SI with overall blood usage first 24 hours of care

Outcome: PHBT patients have high SI on CRRH arrival

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