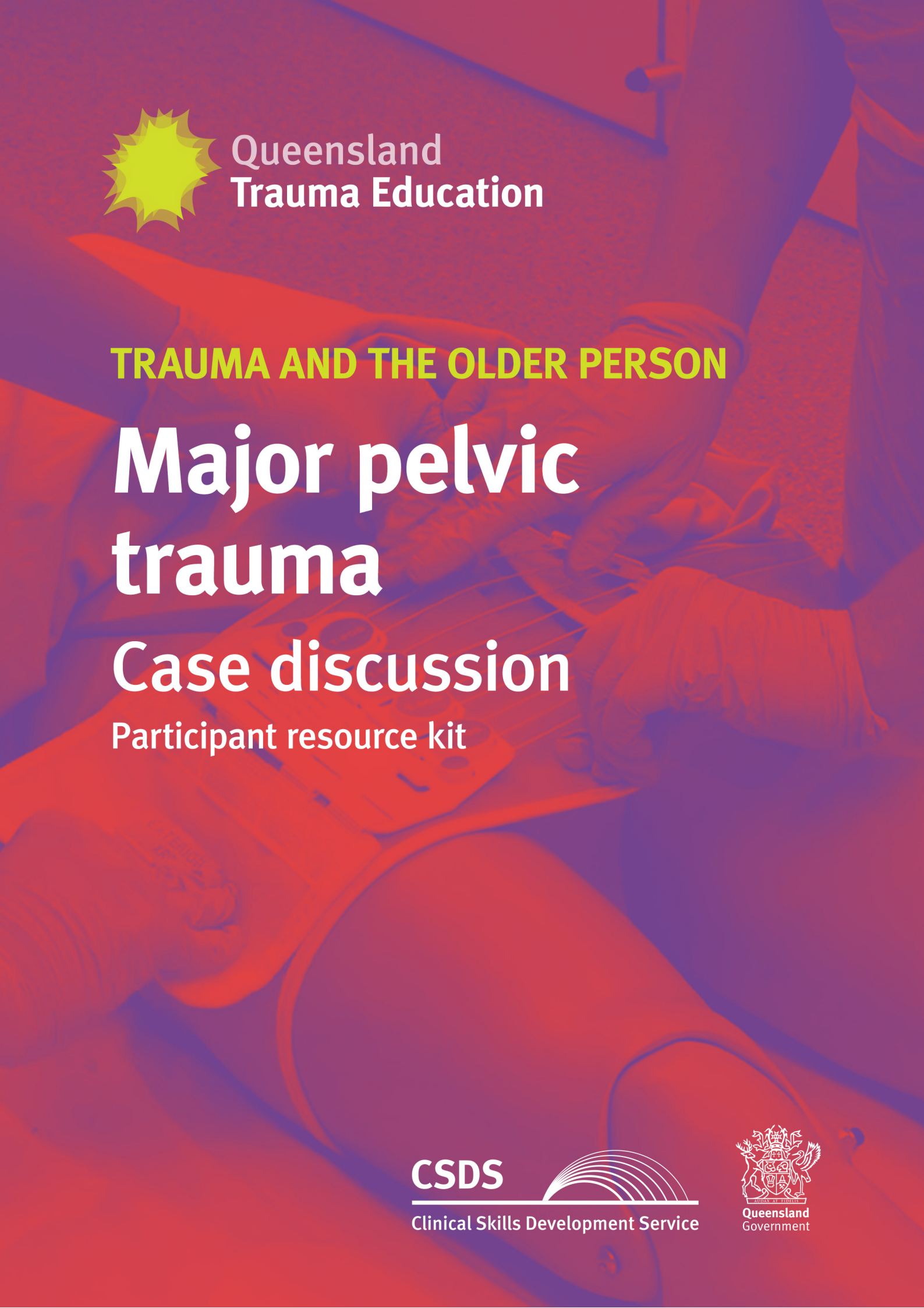

Queensland
Trauma Education

TRAUMA AND THE OLDER PERSON

Major pelvic trauma

Case discussion

Participant resource kit

CSDS
Clinical Skills Development Service

Queensland
Government

Queensland Trauma Education

The resources developed for Queensland Trauma Education are designed for use in any Queensland Health facility that cares for patients who have been injured as a result of trauma. Each resource can be modified by the facilitator and scaled to the learners needs as well as the environment in which the education is being delivered, from tertiary to rural and remote facilities.

Developed by
Dr Frances Williamson, Staff Specialist Emergency Physician – Metro North Health
Kimberly Ballinger, Simulation Educator – Clinical Skills Development Service

Reviewed by
Education Working Group, Statewide Trauma Clinical Network - Clinical Excellence Queensland

Queensland Trauma Education
Trauma and the Older Person – Major pelvic trauma: Case discussion – Participant resource kit
Version 1.0

Published by the State of Queensland (Clinical Skills Development Service), 2021

About this training resource kit

This resource kit provides healthcare workers with the knowledge of assessment and management of major pelvic injury in the geriatric population.

National Safety and Quality Health Service (NSQHS) Standards

Learning objectives

By the end of this session the participant will be able to:

- Recognise high risk mechanism of injury (MOI) for major trauma in geriatric population.
- Understand the challenges with haemodynamic assessment in the older population.
- Discuss the indications for CT angiogram acquisition in pelvic trauma.

Overview of elderly major pelvic trauma

Major pelvic trauma is uncommon in patients > 80 years, despite pelvic injury being a common presentation to major trauma centres. In geriatric patients any injury to the pelvis should be considered higher risk for haemorrhage and more significant injury profile due to their increased co-morbidities and osteopenia.[1]

Further reading

Survivorship and severe complications are worse for octogenarians and elderly patients with pelvis fractures as compared to adults: data from the national trauma data bank	
Publication	Journal of Osteoporosis 2012
Link	https://doi.org/10.1155/2012/475739

Pelvic Fractures and Associated Genitourinary and Vascular Injuries: A Multisystem Review of Pelvic Trauma	
Publication	American Journal of Roentgenology
Link	https://doi.org/10.2214/AJR.18.21050

Primary Clinical Care Manual 10th edition, Fractured Pelvis, p.190	
Organisation	Queensland Health
Link	https://qheps.health.qld.gov.au/__data/assets/pdf_file/0027/2354850/PCCM-10th-Edition.pdf

Procedure: Haemodynamically Unstable Pelvic Trauma Guideline	
Organisation	Queensland Health
Link	PAH | PSQU - Procedure: Haemodynamically Unstable Pelvic Trauma Guideline (01233) (health.qld.gov.au)

CT polytrauma (technique)	
Organisation	Radiopaedia
Link	https://radiopaedia.org/articles/ct-polytrauma-technique

CT polytrauma (approach)	
Organisation	Radiopaedia
Link	https://radiopaedia.org/articles/ct-polytrauma-approach

Acronyms and abbreviations

Term	Definition
UA	urine analysis
ECG	electrocardiogram
BSL	blood sugar level
US	ultrasound
USGPIVC	ultrasound guided peripheral intravenous cannulation
VHA	viscoelastic haemostatic assay
PRBC	packed red blood cells
FFP	fresh frozen plasma
TXA	tranexamic acid

References

1. Matityahu, A., Elson, J., Morshed, S., & Marmor, M. (2012). Survivorship and severe complications are worse for octogenarians and elderly patients with pelvis fractures as compared to adults: data from the national trauma data bank. *Journal of osteoporosis, 2012*, 475739. https://doi.org/10.1155/2012/475739
2. Lee, M. J., Wright, A., Cline, M., Mazza, M. B., Alves, T., & Chong, S. (2019). Pelvic Fractures and Associated Genitourinary and Vascular Injuries: A Multisystem Review of Pelvic Trauma. *AJR. American journal of roentgenology, 213*(6), 1297–1306. https://doi.org/10.2214/AJR.18.21050
3. The Royal College of Radiologists. (2011). *Standards of Practice and Guidance for trauma radiology*. Retrieved from https://www.rcr.ac.uk/sites/default/files/docs/radiology/pdf/BFCR(11)3_trauma.pdf
4. Iacobellis, F., Romano, L., Rengo, A. et al. (2020). CT Protocol Optimization in Trauma Imaging: A Review of Current Evidence. *Current Radiology Reports* 8,
5. Trauma Victoria. (2021). Imaging in trauma. https://trauma.reach.vic.gov.au/guidelines/imaging-in-trauma/indications-for-imaging
6. Raniga, S. B., Mittal, A. K., Bernstein, M., Skalski, M. R., & Al-Hadidi, A. M. (2019). Multidetector CT in Vascular Injuries Resulting from Pelvic Fractures: A Primer for Diagnostic Radiologists. *Radiographics : a review publication of the Radiological Society of North America, Inc, 39*(7), 2111–2129. https://doi.org/10.1148/rg.2019190062

Share your feedback

Please complete our survey to help make Queensland Trauma Education better.

The survey should take no more than 5 minutes to complete.

Scan the QR code or visit:
https://www.surveymonkey.com/r/3FWL3ZD

Queensland Trauma Education

Queensland Trauma Education
Trauma and the Older Person – Major pelvic trauma: Case discussion – Participant resource kit

Published by the State of Queensland (Clinical Skills Development Service), 2021

Visit csds.qld.edu.au/qte
Email CSDS-Admin@health.qld.gov.au
Phone +61 7 3646 6500

Queensland Government