

Manitoulin-Sudbury District Services Board POLICY & PROCEDURES MANUAL	
Section: G. Emergency Medical Services	Effective Date: March 1, 2010
Topic: 8. Occupational Health and Safety	Replaces: New
Subject: 3.6. Kendrick Extrication Device (KED)	
Policy No. G.8.3.6	Page 1 of 4

PURPOSE

To outline safe workplace process and the safe use of the Kendrick Extrication Device (KED).

APPLICATION

Paramedics, EMAs, Management

PROCEDURE

Rationale for use

The KED provides a means of immobilization and physical manipulation of patients.

- (1) Immobilization and extrication of patients with suspected spinal injuries.
- (2) Splint for suspected fractured hip or pelvis
- (3) To facilitate patient manipulation/extrication/immobilization.

Description

Butterfly shaped jacket with rigid vertical supports at frequent, regular intervals. Wrap-around design allows for rigid support when in place but lateral mobility during application. Straps, buckles and Velcro attached to jacket to ensure tight fitting application.



Specification:

Length: 83 cm (33")	Width: 80 cm (32")	Height: 14 cm (6")
Weight: 3 kg (8 lb.)	Load Capacity: 227 kg (500 lb.)	

Procedure for Use

Spinal Injury

- Ensure that a cervical collar is in place and that a second attendant is stabilizing/ maintaining the patient's head in neutral alignment.
- Slide the KED into place behind the patient (smooth side next to patient) and centre it in line with the patient's spine.
- Snug the KED up under the patient's armpits by pulling up on the side lift handles.

Manitoulin-Sudbury District Services Board POLICY & PROCEDURES MANUAL	
Section: G. Emergency Medical Services	Effective Date: March 1, 2010
Topic: 8. Occupational Health and Safety	Replaces: New
Subject: 3.6. Kendrick Extrication Device (KED)	
Policy No. G.8.3.6	Page 2 of 4

- Buckle the middle chest strap and then the lower strap. Snug them up by grasping the sides of the buckle and simultaneously pulling on the strap.
- Feed the leg straps under the legs and across to the buckle on the opposite side. Buckle and tighten. In the case of the patient with a groin injury the leg straps may be secured to the same side. In the case of a fractured femur, the leg straps should not be used.
- To maintain neutral alignment, utilize the pad supplied with the ked..
- Attach the Velcro straps to the forehead and chin so that they can be accessed when the patient is on the spinal board.
- Buckle the top chest strap and tighten. Avoid restricting the patient's respirations.
- Check all straps to ensure that they are tight and secure.
- Choose the appropriate route for extrication before proceeding
- Each rescuer grasps the side lifting handles and utilizes them to swivel, lift or tilt the patient out and onto either a long spine board or scoop stretcher, utilizing appropriate lifting procedures, where they may be secured for transport.
- At this point the chin strap may be removed and the top chest strap and leg straps may be loosened for comfort.

Fractured Hip or Pelvis

- Invert the KED and slide it under the patient so that it is situated appropriately above and below the fracture site (pelvis usually slightly lower than for the hip).
- Use existing straps to secure.

For more detailed instructions, please refer to your in-service training, document references and user's manual.

Precautions

- Use the chin strap as advised and remove immediately if any airway complications arise.
- The KED may have to be adapted for smaller patients. Generally placing a blanket on the patient's chest allows for more secure application.
- When placing the KED on a pregnant patient, use caution in placing and tightening the chest straps to avoid restriction of the patient's breathing and to avoid putting pressure on the fetus.

Storage:

After each usage it is to be stored safely and according to our existing policy "Securing Equipment (Policy and Procedure G. 8.4.3)

Manitoulin-Sudbury District Services Board POLICY & PROCEDURES MANUAL	
Section: G. Emergency Medical Services	Effective Date: March 1, 2010
Topic: 8. Occupational Health and Safety	Replaces: New
Subject: 3.6. Kendrick Extrication Device (KED)	
Policy No. G.8.3.6	Page 3 of 4

Manitoulin-Sudbury District Services Board POLICY & PROCEDURES MANUAL	
Section: G. Emergency Medical Services	Effective Date: March 1, 2010
Topic: 8. Occupational Health and Safety	Replaces: New
Subject: 3.6. Kendrick Extrication Device (KED)	
Policy No. G.8.3.6	Page 4 of 4

Cleaning:

The KED may be cleaned with any standard household detergent in water and rinsed in hot running water. The Ked may be disinfected according to "Disinfection of Vehicles and Patient Care Equipment", (Policy & Procedures G.6.2.)

REFERENCE

Ministry of Health, Emergency Services Branch, 1993, *Patient Care Equipment Manual*, The Crown in Right of the Province of Ontario

Emergency Health Services, Occupational Health Services, 1991, *A Lifting Training Program for Emergency Medical Attendant*

Manitoulin-Sudbury District Services Board, *Ergonomics*, Policy & Procedures G.8.5.1.

Manitoulin-Sudbury District Services Board, *Securing Equipment*, 2004, Policy and Procedure G. 8.4.3.

Manitoulin-Sudbury District Services Board, *Disinfecting of Vehicles and Patient Care Equipment*, 2004, Policy & Procedures G.6.2.