



TREATMENT VARIANCE

ABDOMINAL AORTIC & JUNCTIONAL TOURNIQUET

9/5/2025

Wilco EMS System:

Per this variance that will be fully incorporated into the system protocols at the next update, we will add one abdominal aortic and junctional tourniquet (AAJT) to each EMS Commander unit and when available Squad 30. The AAJT will be used for the clinical conditions outlined in the added protocol but essentially may be applied for massive lower extremity or pelvic trauma and associated hemorrhage with present or impending hemodynamic instability. It may also be used as an inguinal or axillary junctional tourniquet when indicated. It is contraindicated in known pregnancy or for known abdominal aortic aneurysm (AAA) when it is placed over the abdomen.

Application should only be done by credentialed providers who have had training in the application of the AAJT. OLMC may be contacted for any questions or utilization outside of these parameters. Current use without OLMC approval should be restricted to patients 12 and older.

Attachments: AAJT Supplemental Protocol, WCEMS Training Document

V/R,

A handwritten signature in black ink, appearing to read "Dr. [Name] MD".

EMS Medical Director
The Williamson County EMS System

ABDOMINAL AORTIC & JUNCTIONAL TOURNIQUET

INDICATIONS
- Any or a combination of: Shock index of 1.0 or greater, current or impending hemodynamic shock state, or provider judgment with OLMC approval. - Hemorrhage is related to internal hemorrhage into the pelvic cavity or massive lower extremity injury. - For junctional use, injury to the extremity, inguinal or axillary region is not amenable to regular tourniquet application or application is ineffective.
CONTRAINDICATION
Placement of the abdominal application is contraindicated if: - Patient is visibly or known to be pregnant. - Known abdominal aortic aneurysm (AAA).

Legend		
E	EMR	E
B	EMT	B
A	AEMT	A
P	PARAMEDIC	P
M	Medical Control	M

Ensure patient is also receiving care via appropriate **Patient Care** protocol (trauma, blood, etc.)

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|----------|--|----------|
| E | <ul style="list-style-type: none"> ○ Confirm the patient is appropriate for placement of the AAJT and that provider is trained in application. ○ Remove any clothing or objects from the application site (phone in pockets, wallets, etc.) ○ Prepare the device as per manufacturer training. ○ ABDOMINAL APPLICATION: With patient on a firm surface (EMS stretcher is fine) place the device with the bladder centered over the umbilicus. ○ JUNCTIONAL APPLICATION: Follow instructions for axillary or inguinal placement for positioning. ○ Follow application steps of: place strap around the patient going 'red to red', remove all slack, ratchet until tight, inflate bladder until green is indicated. ○ Document time of inflation. ○ Continue to monitor V/S, do not deflate without OLMC order or per receiving hospital physician. | E |
|----------|--|----------|

Consider pain management.



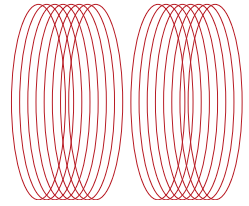
Go back to most appropriate **Protocol**

Pearls:

- Many of these patients will also need blood product administration, plan accordingly. Application before or with blood may improve the effect of blood transfusion.
- Patients receiving the AAJT should be emergently transported to a level 1 or 2 trauma center whenever possible.
- For prolonged field care, contact OLMC for care advice.



Abdominal Aortic and Junctional Tourniquet



How to:

- ✓ Indications for use and contraindications
- ✓ Application Procedure
- ✓ Tourniquet Procedure
- ✓ Demonstrate all 3 modalities
- ✓ Can be used as a pelvic binder



Steps of Application

1. Secure device around the patient and connect the ladder strap until **RED** meets **RED**.
2. Position the bladder over the target site.
3. Tighten belt - REMOVE ALL SLACK.
4. Use ratcheting buckle to complete tightening.
5. Inflate bladder with hand bulb until **GREEN** indicator shows on pressure valve.



Abdominal Aortic and Junctional Tourniquet

STEP ONE

Secure the device around the patient and connect the ladder strap until **RED** meets **RED**.



STEP TWO

Position the bladder over the target site.



STEP THREE

Tighten belt - REMOVE ALL SLACK.



STEP FOUR

Use the ratcheting buckle to complete tightening. (3-5 clicks)



STEP FIVE

Inflate bladder with hand bulb until **GREEN** indicator shows on pressure valve.



JUNCTIONAL PLACEMENT

(AXILLA | GROIN | INGUINAL)

UP TO 4 HOURS

ABDOMINAL PLACEMENT

PELVIC BLEEDING | BILATERAL GROIN

UP TO 1 HOUR