Ruptured Abdominal Aortic Aneurysm (rAAA) Assessment, Consultation & Referral Guide



This guide is intended as a support tool to assist consultations with vascular specialist and/or transfer to a Vascular Centre for patients with moderate to high suspicion for ruptured AAA. The guide should be applied using clinical judgement.

Ruptured AAA is a surgical emergency. Consultation with a vascular specialist should be initiated within 30 minutes of first medical contact with a patient suspected of rAAA.

If vascular services are not available on-site, contact CritiCall Ontario to facilitate ALL rAAA consultations and potential referral to a Vascular Centre.

Clinical Presentation (Clinical Assessment Target Time ≤ 10 minutes*) ☐ Abdominal pain or back pain AND hypotension. 1, 2, 3 Proceed to POCUS or rapid radiologic assessment. ☐ Known AAA AND abdominal pain or back pain, hypotension, or impending cardiovascular collapse. 1, 2, 3 Proceed to rapid radiologic assessment IF it will not delay referral to a vascular specialist. *If rAAA is considered as part of differential diagnosis based on clinical presentation, a rapid radiological assessment or POCUS must be completed to confirm or rule out presence of AAA.^{1,2,3} If no CT/CTA on-site or CT/CTA is not Time Goal: immediately available, proceed with request for vascular consult if clinical presentation and ultrasound findings suggest presence of rAAA. ≤ 30 minutes* From first medical contact to CritiCall Ontario activation Rapid Radiologic Assessment: CTA (Rapid Radiologic Assessment Target Time ≤ 20 minutes*) After-hours: Do not delay consult with vascular specialist for on-call technologists & radiologists. Do not transfer patient to other hospital for purpose of CT/CTA. Proceed to consult based on clinical presentation and POCUS. ☐ Abdominal and pelvic CT/CTA at 1mm cuts. CTA is preferred. Creatinine not necessary prior to CTA. ☐ Imaging should be automatically transferred to ENITS. If unable to transfer to ENITS a digital copy of imaging must be transferred with the patient. 1,2,3 **Consult with Vascular Specialist Immediate Clinical Management** Discussion with vascular specialist^{1, 2} includes: ☐ Intravenous access with two large bore peripheral IVs (central and/or arterial access not immediately necessary).^{1, 2} □ CTA Imaging availability via ENITS/ local image repository or will be sent with ≤ 30 minutes* ☐ Permissive hypotension (to maintain mental status and target systolic blood patient1, 2, 3 pressure of 70-90 mmHg). □ Goals of care² ☐ Blood products are preferred to treat hypotension. 1, 2, 3 Cross-match blood types ☐ Medical comorbidities² Phone if it will not delay patient transfer. □ Hemodynamics² CritiCall Ontario ☐ Medication for pain.² □ Respiratory support ☐ Foley catheter placement may be considered if it will not delay transfer. 1-800-668-4357 ☐ Other actions that may help improve patient outcomes are patient warming4 and avoidance of elective intubation. **Rapid Transfer** ☐ Arrange immediate transfer. Cases confirmed Life or Limb⁵, transportation will be arranged by CritiCall Ontario. Cases not confirmed Life or Limb⁵, transportation arranged by referring hospital. □ Physician or nurse escort may be required as determined by referring physician. Arrival at receiving hospital to **Receiving Hospital** intervention start ☐ Emergent evaluation and intervention by receiving vascular team Time Goal ≤ 30 minutes*

This information is for guidance only and is not a requirement.

*Time goals are not standards for medicolegal purposes. Times will vary based on patient presentation and other circumstances.

References:

- 1. Mell MW etal. Western Vascular Society Guidelines for Transfer of Patients with Ruptured AAA. J Vasc Surg 2017; 65:603-8.
- 2. Chaikof etal. The Society for Vascular Surgery practice guidelines on the care of patients with an abdominal aortic aneurysm. J Vasc Surg. 2018; 67:2-77.
- 3. Hinchliffe RJ etal. Transfer of patients with ruptured abdominal aortic aneurysm from general hospitals to specialist vascular centres: results of a Delphi consensus study. Emerg Med J 2013;30:483–486.
- 4. Spahn etal. Management of bleeding and coagulopathy following major trauma: an updated European guideline. Critical Care 2013; 17:R76.
- 5. Ontario Life or Limb Policy: http://www.health.gov.on.ca/en/pro/programs/criticalcare/life.aspx

Consult, transfer and repatriation of the patient is supported by the Ontario **Life or Limb policy**.

Final decision to transfer remains at the discretion of the referring and receiving physicians.