



rAAA

“How Do I Do It”

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rAAA

**“What I Learned From My Cases
That Did Not Go As Planned”**

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Agenda



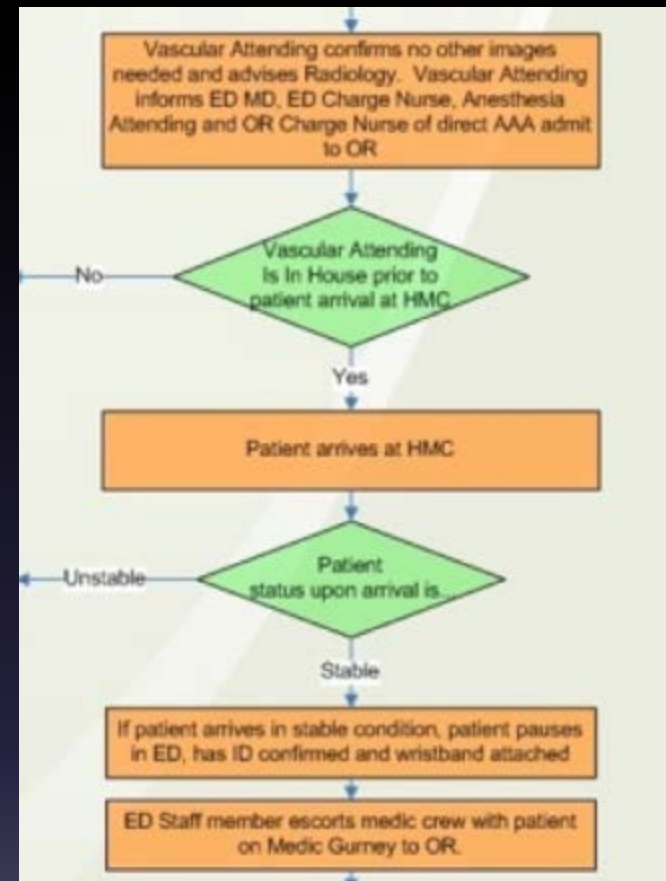
- Direct to OR algorithm and rAAA protocol
- General approach
 - Unstable rAAA
 - rAAA without adequate (CTA) pre-op imaging
 - Balloon occlusion dependent patients



Direct to OR Protocol

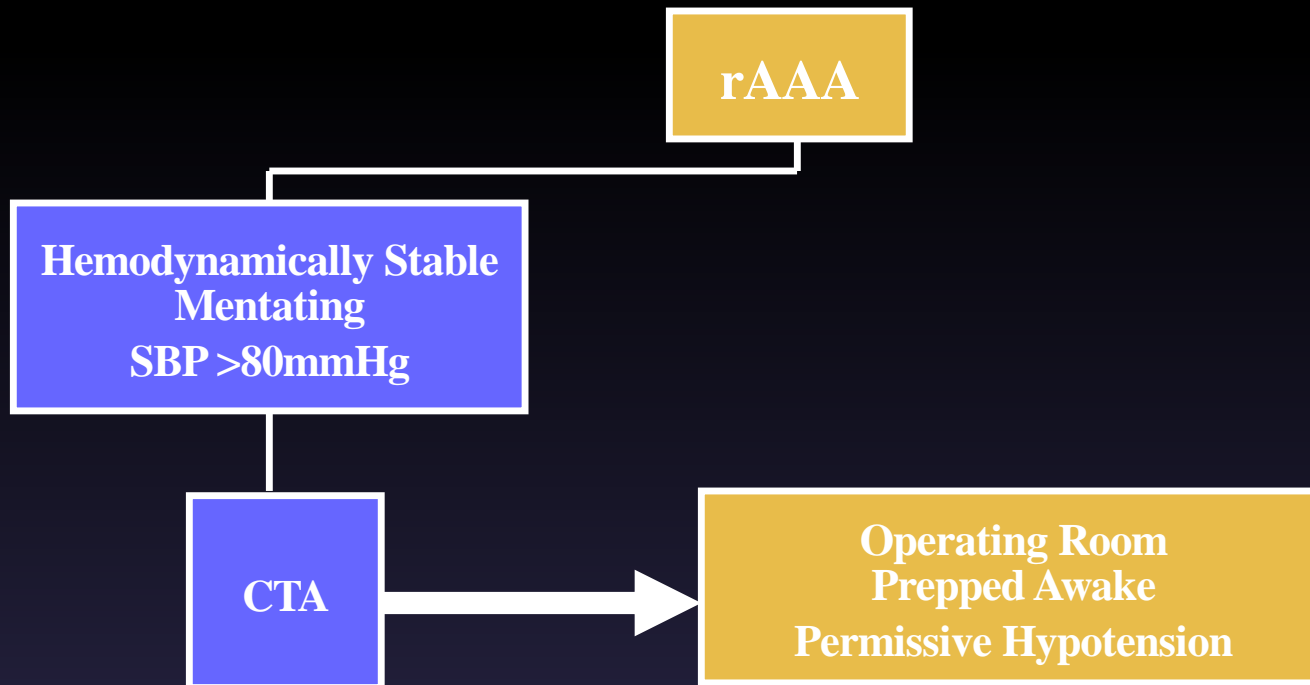


- Vascular to be in the ED to meet the patient at the door and escort to OR front desk
- Facilitate patient prep in the OR



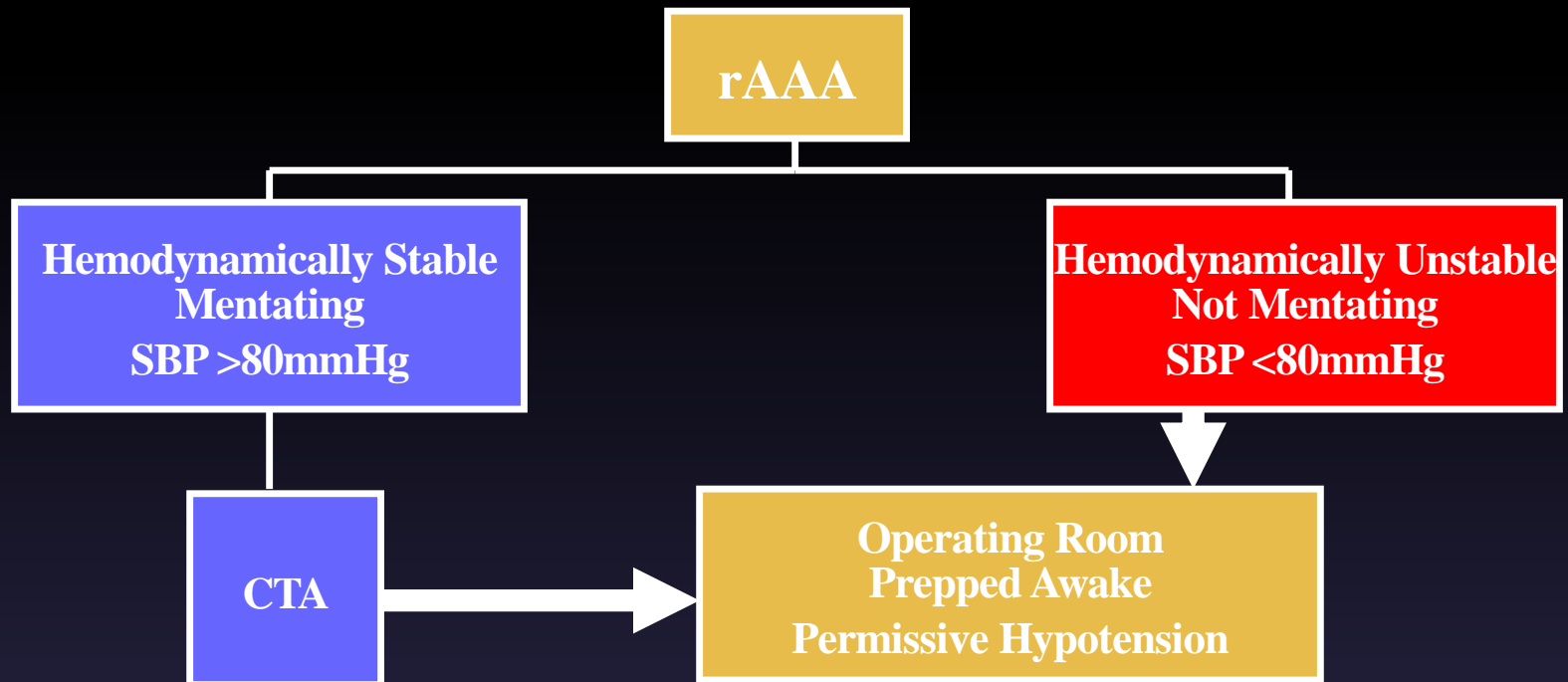


UW Ruptured Protocol





UW Ruptured Protocol





The Unstable Pt.



- 62 yo male
presented to ED with
abdominal pain
- Eventually
underwent CTA



15.0 H

Age: 62, M
Sex: M
11/01/2017 10:54 AM
Kern: I26f
C:Omnipaque

Harborview Med Ctr CT3 x46106
SOMATOM Definition AS+
CTAMP65233
512x512
3D VR
Slab:150.00 mm

11/1/2017 10:00
100
Information not p...
5
6.86 (d) C
63 H
275 H
11 L
Test Not Required
20.5 (d) H
Calculated O2 SA...

5.2 (d) C

17 (d) L

FOV:467.00 mm
100 kV
642 mA
Tilt:0.00
RAO 90: CRA 0
No: 1

10mm/div

W:530 L:385



H

P

A

F



15.0 H

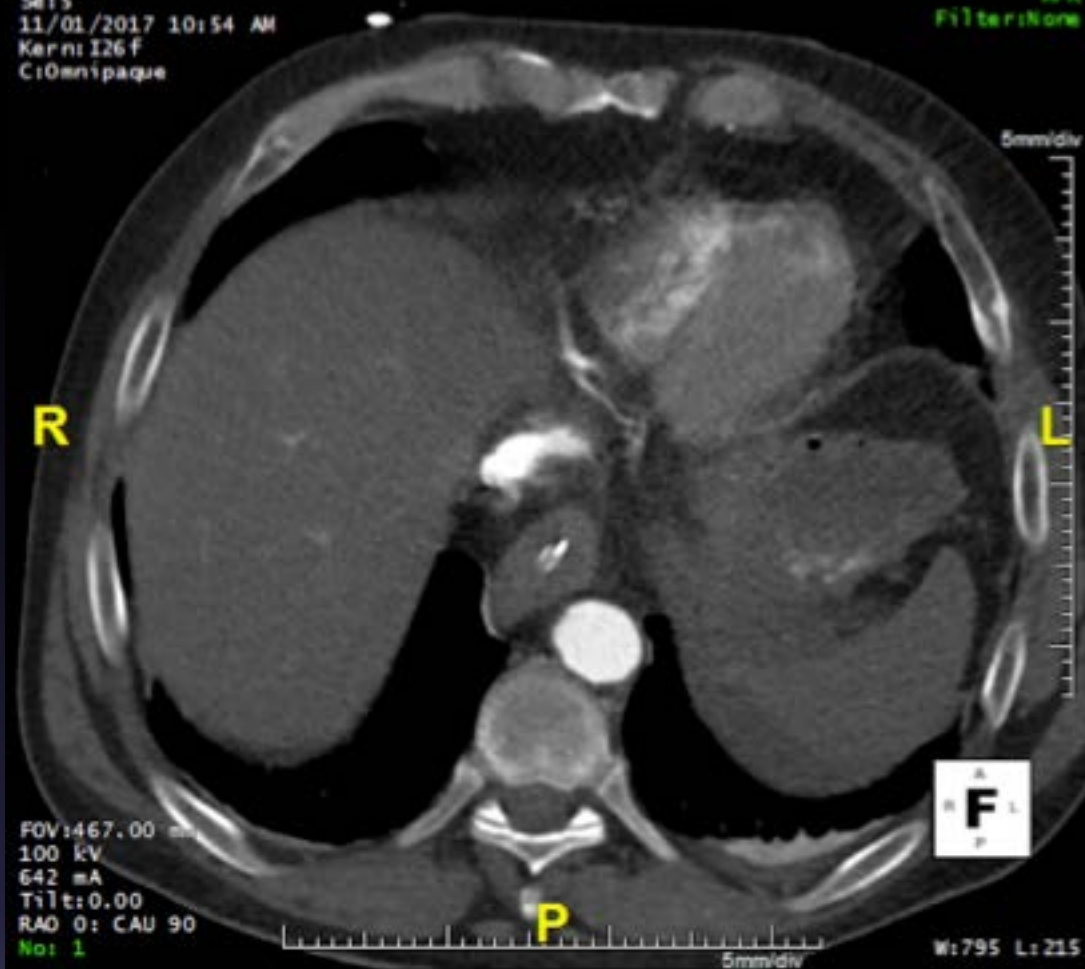
Age: 62, M
Sex: S
11/01/2017 10:54 AM
Kern: I26 F
CI: Omnipaque

512x512
MPR
Filter: None

11/1/2017 10:00
100
Information not p...
5
6.86 (d) C
63 H
275 H
11 L
Test Not Required
20.5 (d) H
Calculated O2 SA...

5.2 (d) C

17 (d) L





The Unstable Pt.



- Direct to OR
- No longer fluid responsive
- Awake, difficult femoral access
- Balloon eventually placed
- GA induction





The Unstable Pt.



Aortic Control Is Critical

Arterial Access Based on
Landmark and Fluoroscopy

Venous Access Can Be
Used for Resuscitation





Aortic Control



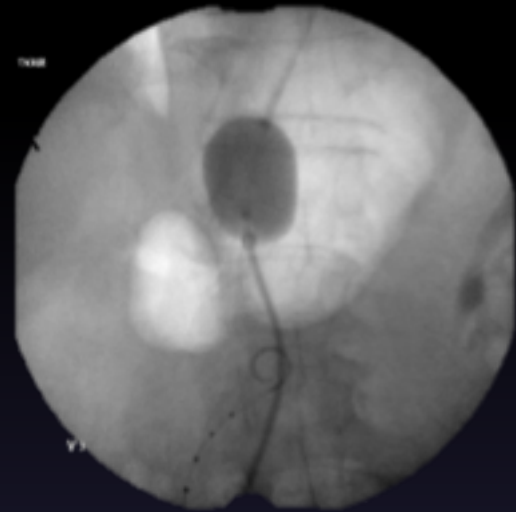
- 5 Fr sheath
- Kumpe cath, glide wire to navigate aortic neck
- Exchange for stiff wire (Lunderquist)
- 12 Fr long sheath, CODA balloon
- Applicable to both rEVAR and OSR



AOB Dependent



- AOB up one side
- Pigtail from contralateral side for aortogram
- Place pigtail pass balloon into thoracic aorta to exchange for Lunderquist wire

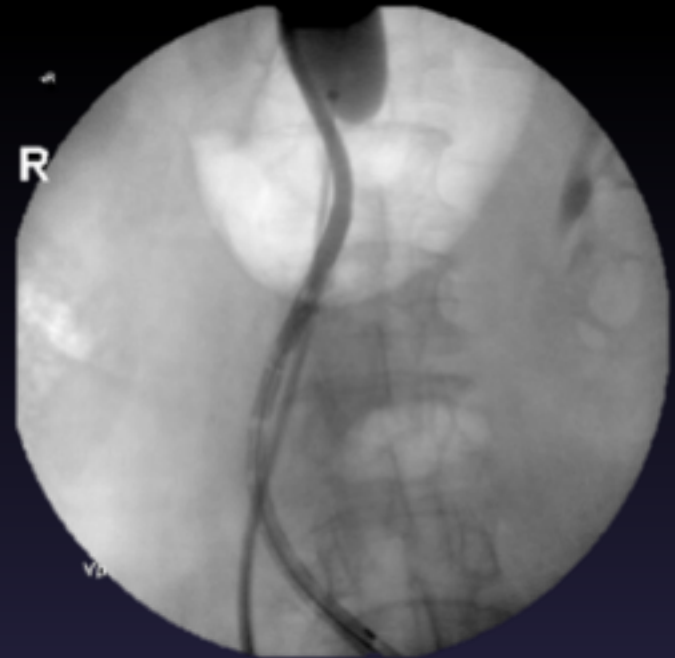




AOB Dependent



- Partially deflate balloon to allow for main body to be placed
- Pull back sheath and inject to localize renals
- Deploy main body





AOB Dependent



- If patient still unstable, then finish ipsilateral side, place balloon into main body
- Finish the contralateral side

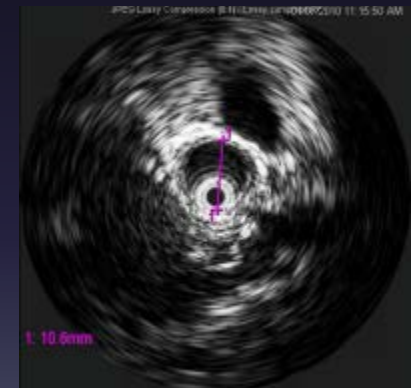
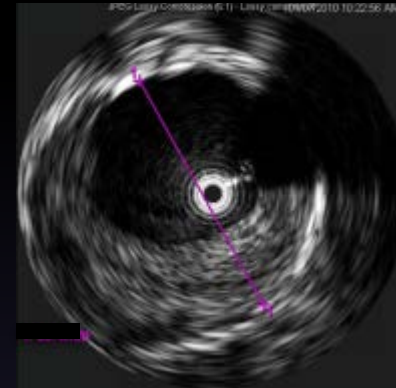




Patient Without Pre-op Imaging



- Initial flush aortogram to assess quality of aortic neck
- Sizing can be done with IVUS for neck and distal landing zones
- Do not delay OR/transport to obtain CTA
- Unstable patient should go directly to the OR without imaging





Gate Cannulation



- Need to be done quickly – sometimes easier said than done
- AUI does work but can lead to potential problems later



Gate Cannulation



- Have a limit in your head of time spent
 - Move on if > 5 minutes
 - Up and over to snare
 - Brachial approach
- Set yourself up for success
 - Main body via more tortuous side
 - Long body to place gate close to bifurcation



Gate Cannulation



- Rotate C-arm to determine if contralateral wire is anterior or posterior as related to the ipsilateral side
- Orient the gate based on location of the wire



Conclusions



- Being efficient and calm, NOT fast, is the key to a successful outcome
 - Aortic control
 - Minimize time in the OR
 - Have multiple back up plans
 - Know your endograft
- Manage yourself, your team, and your patient



What About The Pt?



11/1/2017 10:00
100
Information not p...
5
6.86 (d) C
63 H
275 H
11 L
Test Not Required
20.5 (d) H
Calculated O2 SA...

15.0 H

11/1/2017 17:21
50
Information not p...
5
7.39
43
104 H
25
0.4
Test Not Required
Calculated O2 SA...

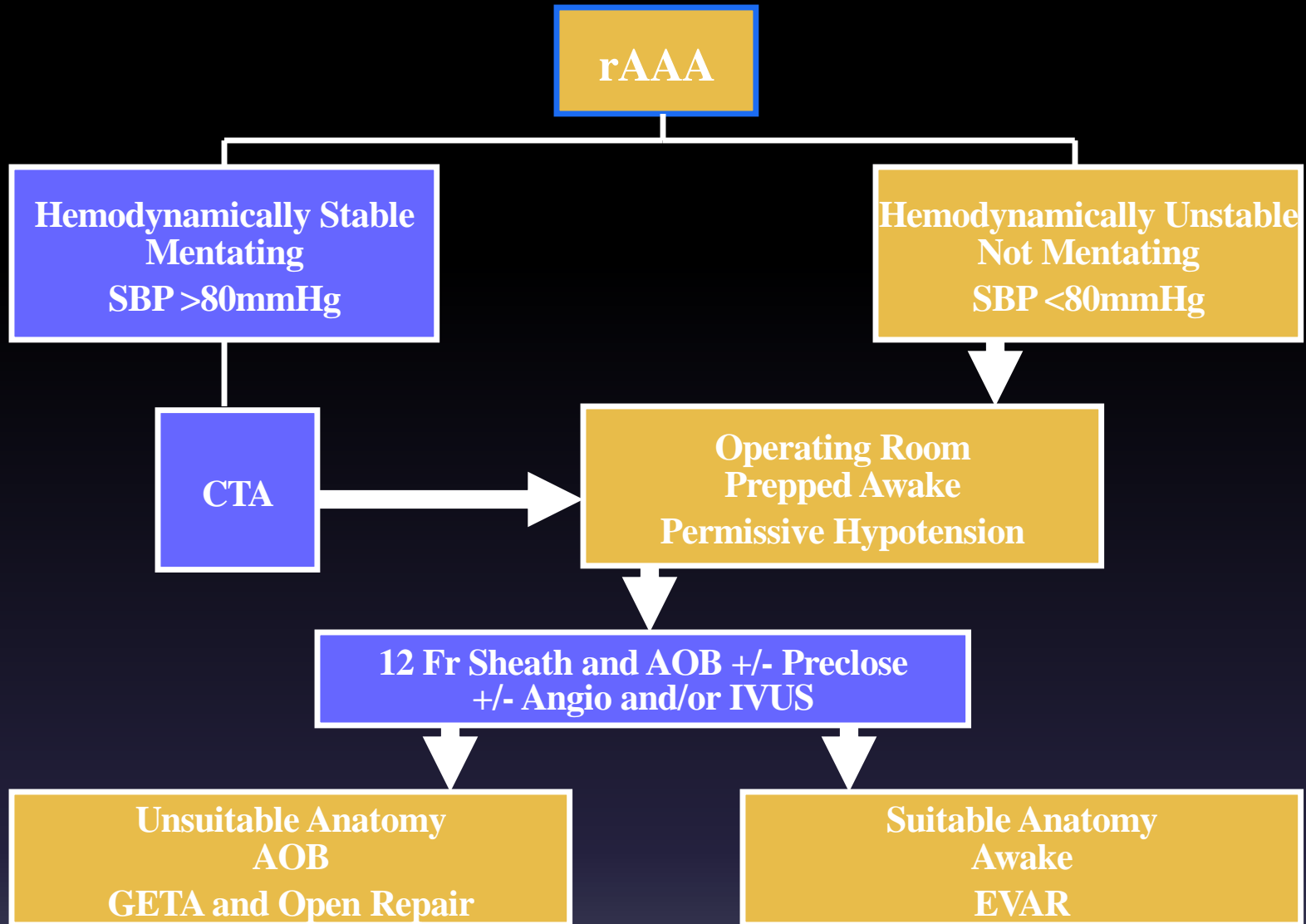
3.5 H







[L]





Balloon Dependent

