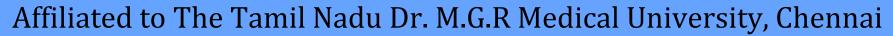
SNS COLLEGE OF ALLIED HEALTH SCIENCE





DEPARTMENT OF PHYSICIAN ASSISTANT

COURSE NAME: CARDIAC CATHETERIZATION LABORATORY - ADVANCED

UNIT: 1

TOPICS: INTRODUCTION TO AORTIC ANGIOGRAPHY

FACULTY NAME: Ms. HARSHITHA S





Focuses on the abdominal portion of the aorta

Evaluates abdominal aorta and its branches

Commonly performed for peripheral vascular disease



What is Abdominal Aortic Angiography?



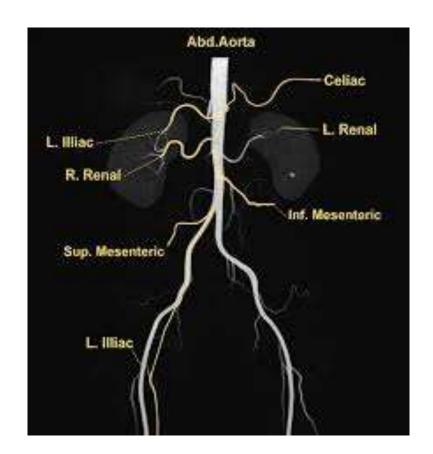
- Imaging of the abdominal aorta and its branches
- Contrast injected above the renal arteries
- Visualizes blood flow to abdominal organs and lower limbs



Abdominal Aorta - Major Branches



- 1. Celiac trunk
- 2. Superior mesenteric artery (SMA)
- 3. Renal arteries
- 4. Inferior mesenteric artery (IMA)
- 5. Common iliac arteries



Indications of Abdominal Aortic Angiography



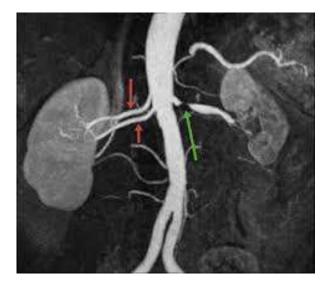
Abdominal aortic aneurysm (AAA)

Renal artery

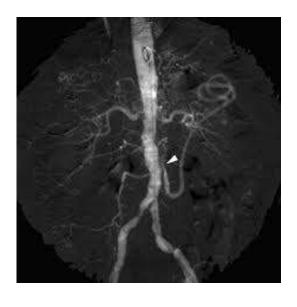
Peripheral arterial

Mesenteric

Pre-surgical planning







Mesenteric

ischemia

Patient Preparation



1. Informed consent

2. Fasting 6–8 hours

3. Renal function tests

4. Allergy history

5. IV access and monitoring



Procedure Steps (Abdominal Aorta)



Femoral arterial access

Catheter placed in abdominal aorta

Contrast injection (controlled rate)

Imaging using fluoroscopy/DSA

Visualization of branches

FINDINGS



Normal Angiographic Appearance

1. Smooth vessel walls

2. Uniform contrast flow

3. Symmetrical branching

4. No filling defects

Abnormal Findings

1. Aneurysm (dilatation)

2. Stenosis or occlusion

3. Irregular vessel walls

4. Delayed contrast flow

5. Collateral circulation

Complications



Contrast-induced

Hematoma at

access

Arterial

Infection

Allergic reaction to contrast



Infection



contrast allergy



Hematoma





| 1. Proper | patient | screening |
|-----------|----------|-------------|
| | Posterio | 20100111110 |

2. Minimal contrast dose

3. Strict aseptic technique

4. Continuous monitoring

5. Adequate post-procedure observation



References

- https://www.hopkinsmedicine.org/health/treatment-tests-and-therapies/abdominal-angiogram
- https://www.sciencedirect.com/topics/medicine-and-dentistry/abdominal-angiography



THANKYOU