

Classification of aortic pathology

NVR ANEURYSM CLASSIFICATION



- INFRARENAL ABDOMINAL AORTIC ANEURYSM
 - Suitable for an infrarenal EVAR device on IFU for that device without adjuncts
 - Treatment options
 - OPEN – infrarenal clamp and infrarenal anastomosis
 - EVAR – Standard EVAR

NVR ANEURYSM CLASSIFICATION



- JUXTARENAL ABDOMINAL AORTIC ANEURYSM
 - Unsuitable for a standard infrarenal EVAR within the constraints of IFU for any device
 - Treatment options
 - Open - infrarenal proximal clamp and anastomosis below the renal arteries OR proximal clamp above the renal arteries and anastomosis below
 - Endovascular - 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation

NVR ANEURYSM CLASSICATION



- TYPE 1 THORACOABDOMINAL AORTIC ANEURYSM
 - Involving the descending thoracic aorta and ending at the visceral segment of the aorta without room for a distal seal on a thoracic device
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and oblique anastomosis at the visceral segment
 - Endovascular - 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation
 - May include debranching of the supra-aortic trunks

NVR ANEURYSM CLASSICATION



- TYPE 2 THORACOABDOMINAL AORTIC ANEURYSM
 - Involving the entire descending thoracic aorta and ending in the infrarenal aorta/iliac arteries
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally at the infrarenal or iliac artery level
 - Endovascular - 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation
 - May include debranching of the supra-aortic trunks

NVR ANEURYSM CLASSICATION



- TYPE 3 THORACOABDOMINAL AORTIC ANEURYSM
 - Arising from the mid descending thoracic aorta and ending in the infrarenal aorta/iliac arteries
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally at the infrarenal or iliac artery level
 - Endovascular - 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation
 - Would not include debranching of the supra-aortic trunks by definition.

NVR ANEURYSM CLASSICATION



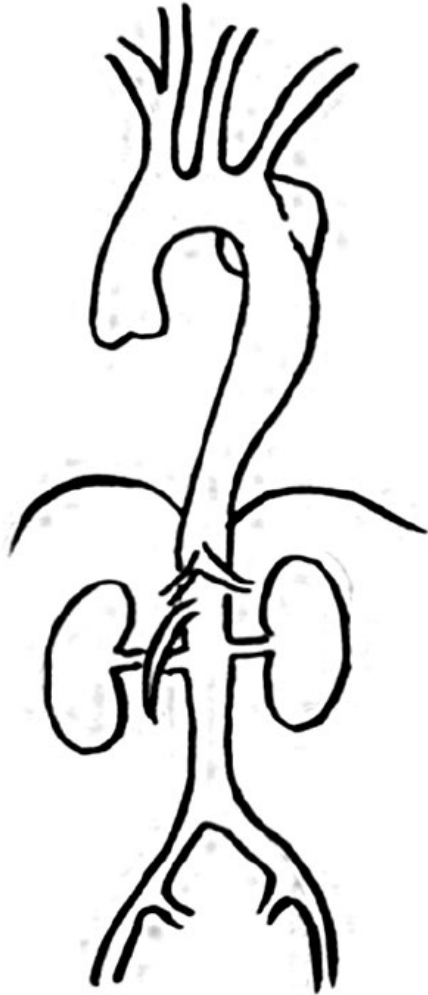
- PARARENAL AND TYPE 4 THORACOABDOMINAL AORTIC ANEURYSM
 - Involving the abdominal component of the aorta, characterized by dilatation above the renal artery level
 - Treatment options
 - Open – Clamp at the supraceliac level and an oblique anastomosis at the visceral artery level and distally at the infrarenal or iliac artery level
 - Endovascular - 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation

NVR ANEURYSM CLASSICATION



- DESCENDING THORACIC AORTIC ANEURYSM
 - Involving the descending thoracic aorta only with an adequate landing zone for a thoracic stent or anastomosis above the visceral aortic segment
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally in the thoracic aorta
 - Thoracic aortic stent graft
 - May include debranching of the supra-aortic trunks
 - Not including fenestrated and branched devices

NVR ANEURYSM CLASSIFICATION



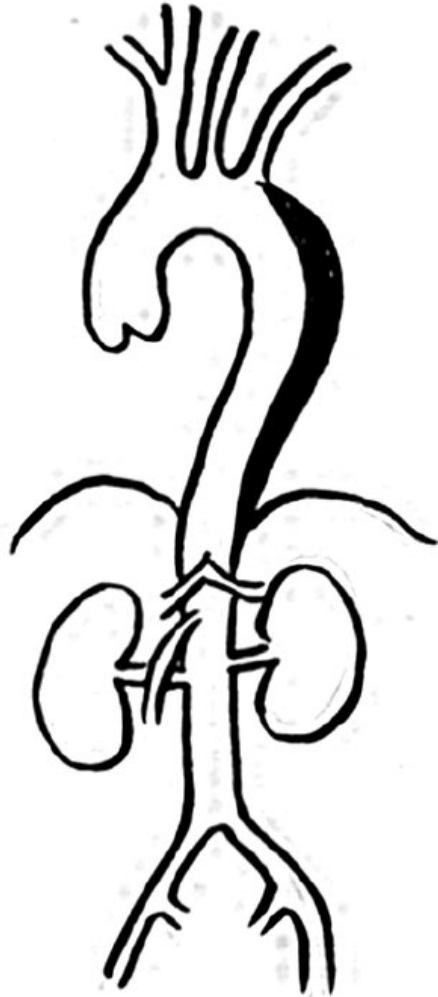
- TRAUMATIC AORTIC TRANSECTION
 - Graded according to the ESVS classification
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally in the thoracic aorta
 - Thoracic aortic stent graft
 - May include debranching of the supra-aortic trunks

NVR ANEURYSM CLASSIFICATION



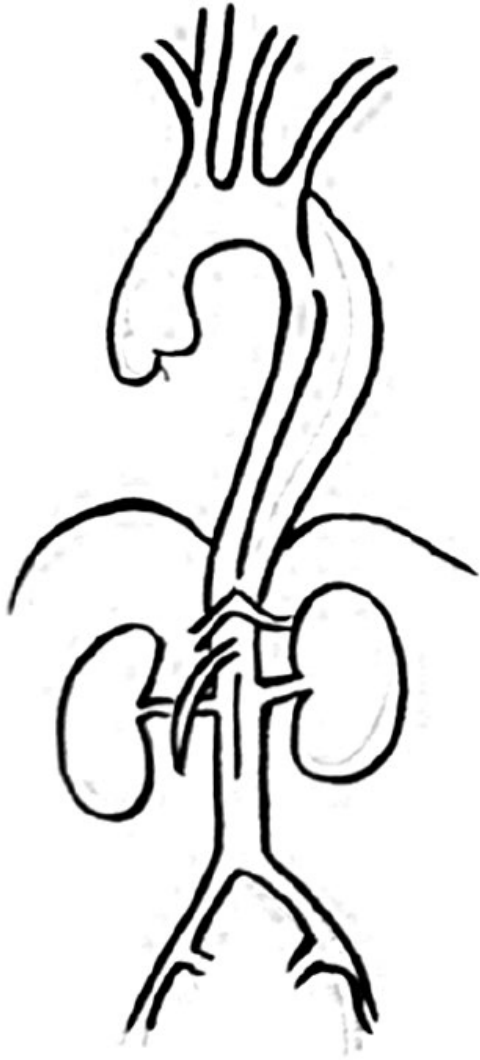
- THORACIC AORTIC PENETRATING AORTIC ULCER
 - Saccular dilatation of a segment of the aorta at any level in the thoracic aorta
 - Treatment options
 - Varied for open and endovascular repair

NVR ANEURYSM CLASSIFICATION



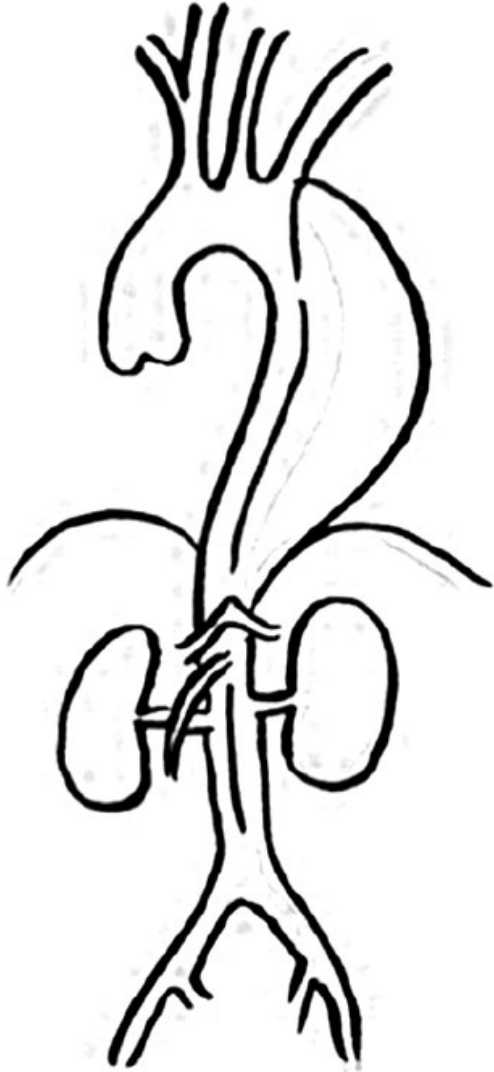
- THORACIC AORTIC INTRAMURAL HAEMATOMA
 - From at or below the level of the left subclavian artery without dilatation
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally at any level
 - Thoracic aortic stent graft
 - May include debranching of the supra-aortic trunks

NVR ANEURYSM CLASSIFICATION



- TYPE B AORTIC DISSECTION
 - From at or below the level of the left subclavian artery without dilatation
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally at any level
 - Thoracic aortic stent graft
 - May include debranching of the supra-aortic trunks

NVR ANEURYSM CLASSICATION



- TYPE B AORTIC DISSECTION AND ANEURYSMAL CHANGE IN THE THORACIC AORTA NOT INCLUDING THE VISCERAL SEGMENT
 - From at or below the level of the left subclavian artery with dilatation at a maximum to the level of the visceral segment
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally at any level
 - Thoracic aortic stent graft or 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation
 - May include debranching of the supra-aortic trunks

NVR ANEURYSM CLASSICATION



- TYPE B AORTIC DISSECTION AND ANEURYSMAL CHANGE IN THE THORACIC AND ABDOMINAL AORTA DISTAL TO THE VISCERAL SEGMENT
 - From at or below the level of the left subclavian artery with dilatation distally to include the level of the visceral segment or distal to this level
 - Treatment options
 - Open – Thoracic aortic clamp and graft anastomoses at or below left subclavian artery and distally at any level
 - Thoracic aortic stent graft or 1, 2, 3, 4, 5 vessel fenestrated or branched graft insertion or visceral hybrid revascularisation
 - May include debranching of the supra-aortic trunks