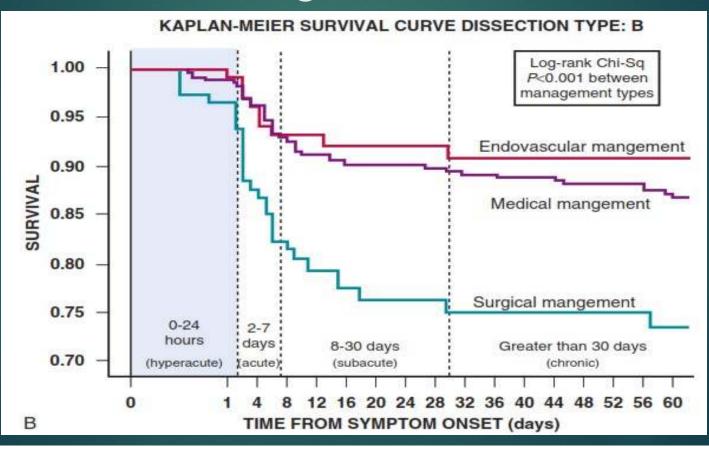
TYPE B DISSECTION



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Type B: Dissection of Aorta which does not involve the ascending Aorta

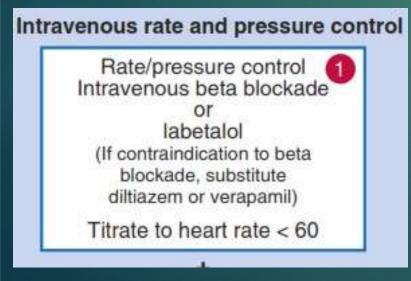


Overall in-hospital mortality rate of 10%

▶ In uncomplicated acute type B dissection, the in-hospital mortality rate is much lower, as low as 1% to 6% in those requiring only medical therapy.

So initial medical therapy is recommended for type B dissections.

- Most patients with type B dissection are hypertensive.
- Management:
- If patient is not hypotensive at presentation:



Pain control 2
Intravenous opiates
Titrate to pain control

Secondary pressure control BP control

Intravenous vasodilator
Titrate to BP <120 mm Hg
(Goal is lowest possible BP that
maintains adequate end-organ
perfusion)

If Hypotensive or in shock:

Type B dissection

- 1 Intravenous fluid bolus
 - Titrate to MAP of 70 mm Hg or Euvolemia

(If still hypotensive, begin intravenous vasopressor agents)

- Evaluate cause of hypotension
 - Review imaging study for evidence of contained rupture
 - Consider TTE to evaluate cardiac function
- Ourgent surgical consultation

If cause of hypotension is amenable to operative management, then Operative or Interventional management must be performed urgently.

If stable with medical management:

Ongoing medical management

Close hemodynamic monitoring Maintain systolic BP <120 mm Hg (Lowest BP that maintains end-organ perfusion)

Evaluate for probable complications



If no complication

Transition to oral medications (beta blockade/antihypertensive regimen) Outpatient disease surveillance imaging

Complications requiring operative or interventional management?

Malperfusion syndrome Progression of dissection Aneurysm expansion Uncontrolled hypertension



Operative or interventional management

Evaluate malperfusion of: CNS, Mesentre, Kidney, Limbs

TABLE 63.7 Indications for Thoracic Endovascular Aortic Repair for Type B Aortic Dissection*

Rupture

Impending rupture

Malperfusion

Hemorrhagic pleural effusion

Refractory pain

Refractory hypertension

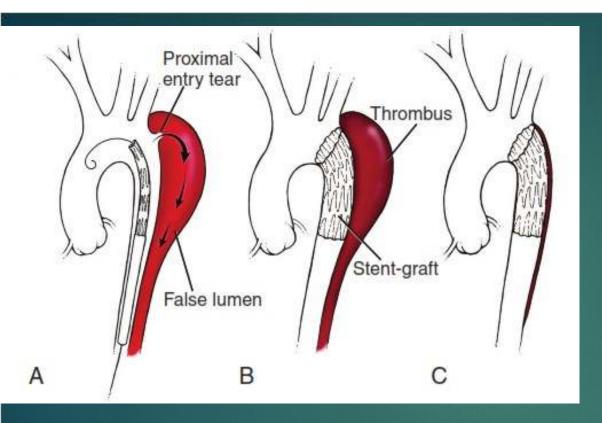
Aneurysmal dilation (>55 mm)

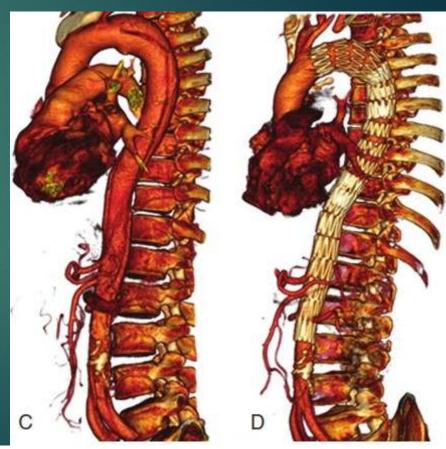
Rapid increase in diameter

Recurrent symptoms

TEVAR, entails lower morbidity and mortality than OSR

^{*}Or open surgical repair if anatomy is unsuitable for TEVAR.





- Patients with uncomplicated type B aortic dissection have a risk for long-term complications, including aneurysm formation (especially in distal part of Arch) and late rupture.
- ▶ Whether early TEVAR of uncomplicated type B dissection changes the morbidity and mortality of uncomplicated type B dissection is under investigation.
- ► The INSTEAD trial reported no difference in all-cause mortality between patients with uncomplicated chronic type B dissection treated with TEVAR versus medical therapy.
- ▶ Typical indications for TEVAR (or OSR) in chronic type B aortic dissection include progressive aortic enlargement (>10 mm/y), aneurysmal enlargement (>55 mm), malperfusion syndromes, and recurrent pain.

- ▶ Long-term survival rates in patients with acute type B dissection range from 56% to 92% at 1 year and 48% to 82% at 5 years.
- Typical protocols for follow-up after acute dissection include imaging with CT or MRA at 1 to 3, 6, 12, 18, and 24 months and yearly thereafter, with intervals depending on the size of the aorta and changes in aortic dimension over time.
- MRA should be considered for long-term follow-up to avoid repeated radiation exposure.

