VTE Prophylaxis Algorithm for Hospitalized Trauma Patients

Visit www.hopkinsmedicine.org/armstrong/bloodclots for more information on venous thromboembolism prevention.
Trauma VTE Prophylaxis Schema

*Contraindications

Yes (3)

Low Risk

No (0)

Yes (1)

*Specific contraindication to enoxaparin

Yes (1)

No (6)

*VTE Risk Factors

Use TEDs/SCDs until contraindication no longer present. Perform serial duplex surveillance. Consider vena caval (temporary) filter in high-risk trauma patients.

(0, 1)

High Risk w/ contra

High Risk w/o contra

No (8)

Yes (3)

Freely Ambulatory

Yes (7)

No pharmacologic prophylaxis needed. Use TEDs/SCDs (8, 7, 1)

Freely Amb Mod rsk w/ contra

No (4)

Yes (1)

*Contraindications

Yes (1)

No (6)

No pharmacologic prophylaxis needed. Use TEDs/SCDs (8, 7, 3)

Freely Amb Mod rsk w/ contra

Yes (3)

No pharmacologic prophylaxis needed. Use TEDs/SCDs (8, 7, 6)

Freely Amb Mod rsk w/o contra

*All boxes with a star are explained on the following page

Yes (2)

Unfractionated Heparin 5000 units sc q8h

Use TEDs/SCDs

Perform serial duplex surveillance (0, 6, 2)

High Risk w/ specific contra to enoxaparin

Yes (3)

Enoxaparin 30 mg sc q12h

Use TEDs/SCDs

Perform serial duplex surveillance (0, 6, 5)

High Risk w/o specific contra to enoxaparin

Yes (2)

Unfractionated Heparin 5000 units sc q8h

Use TEDs/SCDs

Perform serial duplex surveillance (8, 4, 6, 2)

Mod Risk Not Freely Amb w/ specific contra to enoxaparin

Yes (3)

Enoxaparin 30 mg sc q12h

Use TEDs/SCDs

Perform serial duplex surveillance (8, 4, 6, 5)

Mod Risk Not Freely Amb w/o specific contra to enoxaparin

Yes (3)

Unfractionated Heparin 5000 units sc q8h

Use TEDs/SCDs

Perform serial duplex surveillance (0, 8, 2)

Mod Risk Not Freely Amb w/ contra
VTE Risk Factors (0)

Any VTE Risk Factor?
- Spinal cord injury (SCI)
- Lower extremity fracture
- Pelvic fracture
- Severe head injury (AIS>2)
- Injury Severity Score >8
- Shock at admission (SBP < 90)
- Surgical procedure (>30 minutes)
- Age > 40
- Femoral venous line insertion
- Prolonged immobility
- Prior DVT/PE

Contraindications (1)
- High risk of bleeding
- Traumatic Brain Injury
- Solid organ injury
- Pelvic/Retroperitoneal hematoma
- Ocular Injury with hemorrhage
- Active bleeding
- Systemic anticoagulation (3)
- INR ≥ 1.5 or aPTT ratio ≥ 1.3
- Platelet count < 50,000

Specific contraindication to Enoxaparin (2)
- Indwelling epidural catheter
- Renal insufficiency with CrCl <30

Key

0 Any risk factor
1 Contraindication
2 Specific Contraindication to enoxaparin
3 Systemic Anticoagulation
4 Not freely ambulatory
5 No specific contraindications
6 known
7 No
8 contraindications
9 Freely ambulatory
10 no risk factors