

Tinzaparin dose chart for VTE prophylaxis and treatment in adults

All prescriptions must state indication and weight

General Information

Contra-indications

- Active bleeding
- Acquired bleeding disorder (eg. acute liver failure)
- Uncontrolled systolic hypertension (>230/120 mmHg)
- Active peptic ulcer disease or risk of GI haemorrhage
- Thrombocytopenia (platelets less than 50x10⁹/L)
- Untreated inherited bleeding disorder eg. haemophilia, von Willebrand disease
- Acute stroke
- Previous heparin induced thrombocytopenia
- Sensitivity to heparin
- Bacterial endocarditis
- Taking other anticoagulants

Prescriptions must state

- Indication eg. DVT treatment
- Weight

If continued by GP, inform GP of above and duration

Time of dose

If admitted after 6pm prescribe first dose as STAT then as a regular dose from next day

Review / Monitoring Requirements

Prophylaxis

Review within 24 hours and whenever the condition changes

Monitor

- Renal function closely
- Signs of bruising and bleeding
- Anti Xa levels on the advice of Consultant Haematologist

Creatinine clearance (CrCl):

$$\frac{(140 - \text{Age}) \times \text{Weight (kg)} \times \text{Factor (Male 1.23 Female 1.04)}}{\text{Serum creatinine (micromol/L)}} = \text{_____ mL/minute}$$

VTE Prophylaxis

Use syringes 10,000 units/mL
Use syringes 20,000 units/mL

Medical and Surgical patients

Patients with one or more VTE risk factors

WEIGHT kg	DOSE and SYRINGE	
	eGFR (CrCl if low body weight or elderly)	
	20 mL/min/1.73m ² or more	Less than 20 mL/min/1.73m ²
31 - 49	2500 units 0.25mL ONCE a day	2500 units 0.25mL ONCE a day
50 - 99	4500 units 0.45mL ONCE a day	
100 - 149	3500 units 0.35mL TWICE a day	
150 or more	4500 units 0.45mL TWICE a day	
30 kg or less	Dose 50 units/kg ONCE a day	Discuss with Consultant Haematologist

Pregnant patients

CrCl <20 mL/minute: discuss with Consultant Haematologist

*Booking weight up to 36 weeks, thereafter 36 week weight

*Weight kg	DOSE and SYRINGE	
Less than 50	3500 units 0.35mL ONCE a day	Pale Green
50 - 90	4500 units 0.45mL ONCE a day	Pale Blue
91 - 130	3500 units 0.35mL TWICE a day	Pale Green
131 - 170	4500 units 0.45mL TWICE a day	Pale Blue
More than 170	7000 units 0.35mL TWICE a day	Orange
High prophylactic (intermediate) dose for women 50 - 90	4500 units 0.45mL TWICE a day	Pale Blue

VTE Treatment

Use syringes 20,000 units/mL

For ALL patients (includes pregnant patients)

Dose 175 units/kg body weight ONCE a day

CrCl <20 mL/minute
give first dose and discuss with Consultant Haematologist

Body weight	DOSE and SYRINGE	
*Pregnancy		
40 - 49	8,000 units 0.4 mL ONCE a day	Orange
50 - 59	10,000 units 0.5 mL ONCE a day	Red
60 - 69	12,000 units 0.6 mL ONCE a day	Brown
70 - 84	14,000 units 0.7 mL ONCE a day	Yellow
85 - 94	16,000 units 0.8mL ONCE a day	Dark Green
95 - 109	18,000 units 0.9 mL ONCE a day	Dark Blue
110 - 119	20,000 units 2 x 0.5 mL ONCE a day	Red
120 - 129	22,000 units ONCE a day	0.6 mL and 0.5 mL Brown Red
130 - 139	24,000 units 2 x 0.6 mL ONCE a day	Brown
140 - 154	26,000 units ONCE a day	0.7 mL and 0.6 mL Yellow Brown

Less than 40 kg or 155 kg or more	=175 x body weight units ONCE a day	= $\frac{175 \times \text{body weight}}{20,000}$ mL ONCE a day
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