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Tinzaparin treatment dose in adults

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Tinzaparin is presented in syringes and vials containing 20 000 units/mL. The dosage of tinzaparin for treatment of venous thromboembolism is 175 units/kg bodyweight once daily. The dose should be rounded up or down to the nearest 0.05 mL dose volume. Tinzaparin is administered by subcutaneous injection. A dosing chart should always be used when calculating doses of tinzaparin. For these examples, try calculating the dose using your maths skills, then use the dosing chart below to check your answers.

Table 1. Tinzaparin treatment dose in adults (East Lancashire Health Economy, 2024)

Syringe Marking/ volume		Bodyweight Kg Stones/lbs		Prescribed dose Anti-factor XA units	Injection volume mL
ORANGE	0.4 mL	35	5/7	6 000 units	0.3 mL
ORANGE	0.4 mL	40	6/4	7 000 units	0.35 mL
ORANGE	0.4 mL	45	7/1	8 000 units	0.4 mL
RED	0.5 mL	50	7/12	9 000 units	0.45 mL
RED	0.5 mL	55	8/9	10 000 units	0.5 mL
BROWN	0.6 mL	60	9/6	11 000 units	0.55 mL
BROWN	0.6 mL	65	10/3	11 000 units	0.55 mL
BROWN	0.6 mL	70	11/10	12 000 units	0.6 mL
YELLOW	0.7 mL	75	11/11	13 000 units	0.65 mL
YELLOW	0.7 mL	80	12/8	14 000 units	0.7 mL
GREEN	0.8 mL	85	13/5	15 000 units	0.75 mL
GREEN	0.8 mL	90	14/2	16 000 units	0.8 mL
BLUE	0.9 mL	95	14/13	17 000 units	0.85 mL
BLUE	0.9 mL	100	15/10	18 000 units	0.9 mL
BLUE	0.9 mL	105	16/7	18 000 units	0.9 mL
Multi-dose vial 40000 units in 2 mL		110	17/5	19 000 units	0.95 mL
		115	18/2	20 000 units	1 mL
		120	18/13	21 000 units	1.05 mL
		125	19/10	22 000 units	1.10 mL
		130	20/7	23 000 units	1.15 mL
		135	21/4	24 000 units	1.2 mL
		140	22/1	25 000 units	1.25 mL

QUESTION 1

Mr A. Weight: 75 kg

QUESTION 2

Mrs B. Weight: 59 kg

QUESTION 3

Mr C. Weight: 93 kg

QUESTION 4

Mrs D. Weight: 121 kg

East Lancashire Health Economy. Best Practice Guideline: Use of Low Molecular Weight Heparins (LMWH) (e.g. Dalteparin /Tinzaparin). 2024.

https://elht.nhs.uk/application/files/7815/8935/6968/LMWH_Best_Practice_Guideline.pdf (accessed 22 February 2024)