Alteplase Administration Dosing & Checklist

* Hemorrhagic Stroke ruled out by head CT
* Inclusion/Exclusion criteria reviewed
* Obtain accurate patient weight in kilograms \_\_\_\_\_\_\_\_kg
* Calculate Total Alteplase dose, refer to table below. **(Max dose 90 mg)**

Total dose calculation:

0.9 mg X \_\_\_\_\_\_\_\_kg (weight) = \_\_\_\_\_\_\_\_ mg (total dose)

* Second RN should double check calculation and dosing before administration.
* After mixing Alteplase (1mg/mL), ensure excess is discarded before administration.
* Give 10% of total dose as bolus over 1 minute.

Bolus dose calculation:

0.10 X \_\_\_\_\_\_\_ mg (total dose) = \_\_\_\_\_\_\_ mg (bolus dose)

Time given: \_\_\_\_\_\_\_\_\_\_

* Infuse remaining 90% of total dose over 1 hour, immediately following bolus.

Infusion dose calculation:

0.90 X \_\_\_\_\_\_\_ mg (total dose) = \_\_\_\_\_\_\_ mg (infusion dose)

Time given: \_\_\_\_\_\_\_\_\_\_

* When Alteplase infusion is complete, administer 50mL NS at Alteplase infusion rate to ensure all Alteplase is cleared from IV tubing.

Time given: \_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Weight  (lb) | Weight  (kg) | Total Dose  (1 mg/mL) | Discard Quantity | Bolus Dose  (over 1 minute) | Infusion Dose (over 1 hour) |
| 90 | 40.9 | 36.8 | 63.2 | 3.7 | 33.1 |
| 100 | 45.5 | 41.0 | 59.0 | 4.1 | 36.9 |
| 110 | 50.0 | 45.0 | 55.0 | 4.5 | 40.5 |
| 120 | 54.6 | 49.1 | 50.9 | 4.9 | 44.2 |
| 130 | 59.1 | 53.2 | 46.8 | 5.3 | 47.9 |
| 140 | 63.6 | 57.2 | 42.8 | 5.7 | 51.5 |
| 150 | 68.2 | 61.4 | 38.6 | 6.1 | 55.3 |
| 160 | 72.7 | 65.4 | 34.6 | 6.5 | 58.9 |
| 170 | 77.3 | 69.6 | 30.4 | 7.0 | 62.6 |
| 180 | 81.8 | 73.6 | 26.4 | 7.4 | 66.2 |
| 190 | 86.4 | 77.8 | 22.2 | 7.8 | 70.0 |
| 200 | 90.9 | 81.8 | 18.2 | 8.2 | 73.6 |
| 210 | 95.5 | 86.0 | 14.0 | 8.6 | 77.4 |
| >/ 220 | >/100.0 | 90.0 | 10.0 | 9.0 | 81.0 |

\*Do not give Aspirin or other antiplatelets or anticoagulants if administering Alteplase.

Calculations based on 100 mg vial of Alteplase with 1 mg/mL concentration after mixing.