

Important Facts:

- Opened or unused TPA vials can be returned to the pharmacy.
- Maximum **BOLUS** = 9 mg
- Maximum **INFUSION** = 81 mg

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Acute Ischemic Stroke

IV-TPA Mixing and
Administration
Instructions

Mixing TPA

- 1 Using aseptic technique, remove the protective flip-caps from one vial of TPA and one vial of Sterile Water for injection.
- 2 Open the package containing the transfer device by peeling the paper label off of the package.
- 3 Remove the protective cap from one end of the transfer device and keeping the vial of sterile water upright, insert the piercing pin vertically into the center of the stopper of the vial of sterile water.
- 4 Remove the protective cap from the other end of the transfer device. **DO NOT INVERT THE VIAL OF STERILE WATER.**
- 5 Holding the vial of TPA upside-down, position it so that the center of the stopper is directly over the exposed piercing pin of the transfer device.
- 6 Push the vial of TPA down so that the piercing pin is inserted through the center of the TPA vial stopper (Figure 1).

Figure 1



- 7 Invert the two vials so that the vial of TPA is on the bottom (upright) and the sterile water is upside down, allowing the sterile water to flow down through the transfer device. Allow the entire contents of the vial of sterile water to flow into the TPA vial (approximately 0.5 ml of sterile water will remain in the diluent vial). Approximately 2 minutes are required for this process.
- 8 Remove the transfer device and the empty sterile water vial from the TPA vial. Safely discard both the transfer device and the empty diluent vial according to institutional procedures. Swirl gently to dissolve the TPA powder. **DO NOT SHAKE.**
- 9 Use the mini-spike adaptor and spike the TPA bottle where the transfer device was. Use a 10 ml syringe to remove bolus dose and label the syringe (Max dose = 9 mg).
- 10 Use a 60 ml syringe to remove infusion dose, then inject this dose into empty sterile 50 ml IV bag (may need 2 syringes for full dose to be drawn up). Max infusion dose = 81mg.
- 11 Give bolus IV push over 1 minute. Begin infusion immediately following bolus and run over 1 hour. While TPA is infusing, use the 2 vials of NaCl (10 ml each), in stroke box, to draw into 20 ml syringe.
- 12 **FLUSH:** After infusion is complete, inject infusion bag with 20 ml saline and infuse at the same rate as TPA infusion ensuring line is empty of TPA and full dose administered.