Claims

1. A multi-liquid loading and delivery kit comprising: a) a first storage vessel for a first active component; b) a second storage vessel for a second active component; c) at least two transfer syringes; d) at least two vial adaptors; e) at least two cannulas with a through lumen; and f) a multi-liquid delivery device comprising: a. dual hollow cartridges, each with at least one throughbore at one end and plunger access at an opposing end; b. a rotatable kick stand; c. a removable dual feed funnel; d. a spray manifold; and e. at least one spray tip assembly or drip tip assembly, wherein the removable dual feed funnel is interchangeable with the spray manifold.

2. The kit according to claim 1, wherein each cannula is flexible and is provided with a blunt non-traumatic end tip.

3. The kit according to claim 1, wherein the at least one drip tip assembly comprises a drip cartridge with a dual path opening in fluid communication via channels with a flexible drip outlet.

4. The kit according to claim 1, wherein the at least one spray tip assembly is directly attached to the spray manifold.

5. The kit according to claim 1, wherein the at least one spray tip assembly comprises a spray cartridge with a dual path opening, an interior mixing region, an atomizing insert and flexible spray outlet cover.

6. The kit according to claim 5, wherein the at least one spray tip assembly is connected via a multi-lumen, flexible tube to the spray manifold.

7. The kit according to claim 1, wherein the first and second active components are in solid form.

8. The kit according to claim 7, wherein at least the first active component is lyophilized powder.

9. The kit according to claim 1, wherein the first active component is thrombin and the second active component is a hemostatically active extract from blood plasma.

10. The kit according to claim 9, wherein the second active component is fibrinogen.

11. The kit according to claim 1 further comprising at least one reconstituting vessel containing a solubilizing liquid.

12. The kit according to claim 11, wherein the solubilizing liquid is an aqueous solution.

13. The kit according to claim 11, wherein the solubilizing liquid is a buffered solution containing a calcium salt.

14. A method of using the kit according to claim 1, comprising: a) placing a reconstitution set on a table, b) transferring the multi-liquid delivery device from the kit into a sterile field, c) preparing a first solution by: 1) inserting a first vial adaptor of the at least two vial adaptors with a first syringe from the reconstitution set into a vial of a first dissolving solution, 2) drawing the first dissolving solution into the first syringe, 3) replacing the vial of the first dissolving solution on the first vial adaptor with a first active vial, 4) injecting the first dissolving solution into the first active vial, thereby making a first active containing solution, 5) withdrawing the first active containing solution

into the first syringe, and 6) replacing the first vial adaptor with a first cannula of the at least two cannulas, d) preparing a second solution by: 1) inserting a second vial adaptor of the at least two vial adaptors with a second syringe from the reconstitution set into a vial of a second dissolving solution, 2) drawing the second dissolving solution into the second syringe, 3) inserting the second vial adaptor into a second actives vial, 4) injecting the second dissolving solution into the second actives vial, thereby making a second active containing solution, 5) withdrawing the second active containing solution into the second syringe, 6) replacing the second vial adaptor with a second cannula of the at least two cannulas, e) retracting plungers of the first and second syringes to a predetermined position, f) rotating the kick stand into an open position, g) inserting one of the first cannula or the second cannula of the at least two cannulas through first and second funnels of the removable dual feed funnel of a barrel for each hollow cartridge in the multi-liquid delivery device, h) replacing the removable dual feed funnel with the spray manifold, i) attaching the at least one spray tip assembly or drip tip assembly to the spray manifold.