CLAIMS

1. In a kit for administering a hemostatic material to a patient of the type including a first syringe co-loaded with at least one substrate material and at least one hemostatic agent and a second syringe containing a diluent, the improvement comprising:

providing the at least one substrate material separate from the at least one hemostatic agent in the first syringe, the substrate material comprising pre-swollen crosslinked gelatin granules and at least one moisture barrier membrane disposed between each at least one substrate material and each at least one hemostatic material in the first syringe.

2. A kit as recited in Claim 1, wherein the pre-swollen crosslinked gelatin granules have an equilibrium swell of 500% to 600%.

3. A kit as recited in Claim 1, wherein the pre-swollen crosslinked gelatin granules have an equilibrium swell of 700% to 950%.

4. A kit as recited in Claim 1, wherein said at least one hemostatic agent comprises thrombin.

5. A kit as recited in Claim 1, wherein said diluent comprises sterile water.

6. A kit as recited in Claim 1 wherein the diluent comprises saline.

7. A kit as recited in Claim 1, wherein said saline comprises 0.9% (w/v) NaCl.

8. A kit as recited in Claim 1, wherein said membrane comprises a dissolvable, fragmentable, or friable material.

9. A kit as recited in Claim 1, wherein said dissolvable, fragmentable, or friable material comprises a gelatin.