CLAIMS

1. An apparatus, comprising:

(a) a pad assembly that includes a first coupling element, wherein the pad assembly is sized and configured to be placed on a forehead of a patient;

(b) an injector assembly, wherein the injector assembly comprises:

(i) a body, wherein the body is configured to be removably secured to the pad assembly,

(ii) a flexible cannula extending distally from the body, wherein the flexible cannula is sized to be inserted through an incision in an eye of the patient, and

(iii) a needle slidably disposed in the flexible cannula,

(iv) a second coupling element configured to removably secure the body to the pad assembly using a magnetic attraction, wherein the second coupling element is fixed relative to the body, wherein the needle is configured to slide relative to the second coupling element; and

(c) an injector driver, wherein the injector driver is operable to drive the needle longitudinally relative to the flexible cannula.

2. The apparatus of claim 1, wherein the injector driver is integrated into the body.

3. The apparatus of claim 1, wherein the injector driver is remotely coupled with the injector assembly via a flexible drive cable.

4. The apparatus of claim 1, wherein the second coupling element of the injector assembly comprises a magnet, wherein the magnet is configured to removably secure the body to the pad assembly.

5. The apparatus of claim 4, wherein the first coupling element of the pad assembly comprises a plurality of ferrous elements.

6. The apparatus of claim 1, wherein the injector assembly further includes a needle actuator positioned in the body, wherein the needle is fixedly secured to the needle actuator, wherein the needle actuator is configured to translate relative to the body to thereby drive the needle longitudinally relative to the flexible cannula.

7. The apparatus of claim 6, wherein the needle actuator further includes at least two fluid inputs in fluid communication with the needle, such that the needle actuator is configured to form a manifold.

8. The apparatus of claim 1, wherein the injector driver comprises a rotary knob, wherein the rotary knob is rotatable to drive the needle longitudinally relative to the flexible cannula.

9. The apparatus of claim 8, wherein the rotary knob includes a spiral cam feature, wherein the spiral cam feature is configured to cooperate with another needle drive element to thereby drive the needle longitudinally in response to rotary movement of the rotary knob.

10. The apparatus of claim 8, wherein the injector driver further comprises a translatable member having a cam follower coupled with a spiral cam feature, wherein the cam follower and the spiral cam feature are configured to cooperate with each other to thereby convert rotary movement of the rotary knob into longitudinal movement of the needle.

11. The apparatus of claim 1, wherein the injector driver further comprises a first user input feature, wherein the first user input feature is operable to provide delivery of a therapeutic agent via the needle.

12. The apparatus of claim 11, wherein the first user input feature comprises a pushbutton.

13. The apparatus of claim 1, wherein the injector driver further comprises a bleb

fluid delivery input feature, wherein the bleb fluid delivery input feature is operable to provide delivery of a bleb fluid via the needle.

14. The apparatus of claim 13, wherein the bleb fluid delivery input feature comprises a sensor, wherein the sensor is configured to sense a position of the needle in relation to the body.

15. The apparatus of claim 14, wherein the sensor comprises a linear potentiometer.

16. The apparatus of claim 1, further comprising a fluid source assembly in fluid communication with the needle, wherein the fluid source assembly comprises a syringe actuation cassette, wherein the syringe actuation cassette is configured to provide automatic actuation of a syringe to thereby expel contents of the syringe through the needle.

17. The apparatus of claim 1, further comprising a fluid source assembly in fluid communication with the needle, wherein the fluid source assembly further includes a thawing module, wherein the thawing module is operable to thaw a volume of frozen therapeutic agent.

18. An apparatus, comprising:

(a) a pad assembly, wherein the pad assembly comprises a plurality of ferrous elements;

(b) an injector assembly, wherein the injector assembly comprises:

(i) a body, wherein the body is configured to be removably secured to the pad assembly,

(ii) a flexible cannula extending distally from the body, wherein the flexible cannula is sized to be inserted through an incision in an eye of a patient,

(iii) a needle slidably disposed in the flexible cannula, and

(iv) a magnet, wherein the magnet is configured to removably secure the body to the pad assembly, wherein the magnet is fixed relative to the body, wherein the needle is configured to slide relative to the

magnet; and

(c) an injector driver, wherein the injector driver is operable to drive the needle longitudinally relative to the flexible cannula.

19. The apparatus of claim 18, wherein the body includes first and second complementary portions, wherein the magnet is disposed completely within the first and second complementary portions of the body.