7. The aspiration system of claim 6, wherein the flow oscillator further comprises at least one channel, and wherein a cross-sectional area of the at least one channel is greater than a cross-sectional area of an inner lumen of the aspiration tubing.

8. The aspiration system of any of claims 1-7, wherein the flow oscillator further comprises defines at least one channel, and wherein an inner diameter of the at least one channel is greater than an inner diameter of the catheter.

9. The aspiration system of any of claims 1-8, wherein the flow oscillator further comprises:

at least one primary channel configured to pass a majority of the flow of the fluid; and

at least two secondary channels each configured to divert a portion of the flow of the fluid from a downstream portion of the at least one primary channel to an upstream portion of the at least one primary channel.

10. The aspiration system of any of claims 1-9, further comprising a pressure sensor mechanically coupled to the fluid flow sensor and configured to detect vibrations from the fluid flow sensor indicating flow of the fluid through the fluid flow sensor.

11. The aspiration system of claim 10, wherein the pressure sensor is configured to communicatively couple to a notification system configured to generate a notification in response to detecting the flow of the fluid.

12. The aspiration system of any of claims 1-11, wherein the fluid oscillator is configured to generate vibrations having a frequency of about 15 hertz to about 30 hertz at a flow rate of the fluid of about 3 milliliters per second to about 5 milliliters per second.

13. The aspiration system of any of claims 1-12, wherein the fluid oscillator is configured to increase a magnitude of the vibrations in response to an increase in a flow rate of the fluid through the fluid oscillator.