

14. The aspiration system of any of claims 1-13, wherein the fluid oscillator is configured to increase a frequency of the vibrations in response to an increase in a flow rate of the fluid through the fluid oscillator.
15. The aspiration system of any of claims 1-14, further comprising a fluid switch configured to start and stop the flow of the fluid through the fluid oscillator.
16. The aspiration system of claim 15, wherein the fluid switch is upstream of the fluid flow sensor.
17. The aspiration system of claim 16, wherein the fluid switch is coupled to the flow oscillator by less than ten centimeters aspiration tubing.
18. The aspiration system of any of claims 1-17, wherein the catheter is upstream of the fluid flow sensor, the system further comprising a fluid pump downstream of the flow sensor and configured to generate a suction through the catheter.
19. The aspiration system of any of claims 1-18, wherein the flow oscillator is coated with at least one of an anti-thrombogenic material or a lubricious material.
20. A fluid flow sensor, comprising:
  - a fluid inlet configured to receive fluid from a catheter;
  - an inlet connector proximate to the fluid inlet and configured to couple to at least one of aspiration tubing or a fluid switch;
  - a fluid outlet configured to discharge the fluid;
  - an outlet connector proximate to the fluid outlet and configured to couple to aspiration tubing; and
  - a flow oscillator configured to oscillate flow of the fluid through the fluid flow sensor to generate flow-induced vibrations.