

Pulsatile Delivery

The ALZET pumps are miniature infusion devices which are intended to continuously deliver a solution over a given duration. While it is not possible to start or stop the pump once it is in vivo, you can use a length of external catheter tubing to achieve a variety of delivery methods including the following:

- Time-patterned delivery of an agent
- Deliver solutions which are incompatible with the ALZET pump reservoir
- Provide a period of no drug delivery for surgical recovery
- Provide a short period of drug delivery with a longer duration pump

To create this external reservoir, polyethylene tubing should be used because it is thermoformable and can be formed into a permanent coil. The length of tubing depends upon the size and flow rate of the pump being used, and the duration of infusion desired from the solution in the coil. The pump itself is filled with saline, which is separated from the drug solution by a drop of mineral oil or other nonmiscible compound or a bubble of air placed in the tubing at the end between the coil and the pump.

To learn more about catheter use with the ALZET pumps, or to see instructions on how to create a lynch coil, see our [catheter use page](#).

To view a video demonstrating this lynch coil protocol [click here](#).