

CLAIMS

1. A medical device, comprising:
 - a housing;
 - a clothing article coupled to the housing and configured to be worn by a patient;
 - a proximal connector coupled to the housing;
 - a distal connector coupled to the housing;
 - a first conduit disposed within the housing and extending between the proximal connector and the distal connector;
 - a second conduit disposed within the housing and in fluid communication with the first conduit;
 - a fluid reservoir coupled to the second conduit, wherein the second conduit extends between the first conduit and the reservoir;
 - a pump disposed within the housing, wherein the pump is configured to pump fluid from the fluid reservoir through the second conduit, and into the first conduit; and
 - a one-way valve disposed within the second conduit, wherein the one-way valve is configured to prevent fluid from flowing beyond the one-way valve toward the fluid reservoir.
2. The medical device of claim 1, wherein the distal connector is configured to couple to a vascular access device, wherein the vascular access device comprises a peripheral intravenous catheter.
3. The medical device of claim 1, wherein the proximal connector comprises a needleless connector.
4. The medical device of claim 1, wherein the pump provides a fluid flow rate of 0.2 mL/hr.

5. The medical device of claim 1, wherein the pump provides a fluid flow rate greater than 0.2 mL/hr.
6. The medical device of claim 1, wherein the clothing article comprises an arm band.
7. The medical device of claim 1, wherein the second conduit intersects the first conduit.