

# **AngioJet System**

Biomedical Engineering Seminar III

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## **What is the AngioJet System?**

Created by Possis Medical Company, the AngioJet System is an advanced catheter-based thrombectomy system. The intricately designed components of the system are designed to offer safety, power, performance and versatility. The AngioJet System offers many advantages over alternative devices, the most important being safety monitoring and balanced, isovolumetric flow. The catheters used are both flexible and small in diameter.

## **What are its components?**

The AngioJet System is made up of three components; a driver, a pump set, and replaceable catheters.

### **Driver-**

The driver is a system that monitors the system flow during the procedure for patient safety. It is capable of generating

10,000 pounds per square inch of pressure to be distributed to the pump set.

### **Pump set-**

The pump set pumps saline into the catheters as well as maintaining the balance between liquid leaving the catheter and entering the catheter so as to maintain a constant pressure within the vein or artery. It also serves as the bridge between the sterile and non-sterile components of the system. It is color coded for easy setup.

### **Catheters-**

The catheters themselves are very flexible and small in diameter. They are disposable and are responsible for retrieving the blood clot. There are different sizes for different body areas. They too are color coded for easy setup.

### **References:**

- [www.mayo.edu/healthinfo/resources.html](http://www.mayo.edu/healthinfo/resources.html)
- [www.possis.com](http://www.possis.com)