Catheter for Controlled Drug Delivery during Reperfusions

Published date: March 26, 2009

Technology description

Market Summary

Catheters and related medical devices are used in angioplasty procedures and vein and artery catheterization. However, the catheters currently used do not allow for targeted or controlled delivery of blood, fluids, or drugs. This can be a concern as uncontrolled drug delivery can potentially compromise patient safety during reperfusion or perfusion procedures. In addition, there is a need for medical devices that are able to directly deliver a short-acting drug to an organ such as the heart.

Technical Summary

Emory researcher developed an improved catheter that steadily controls delivery of blood, fluids, and/or drugs into the arteries, veins, organs, or tissues of a patient. This allows for careful control of the conditions during perfusion and reperfusion procedures which further ensures patient safety isn't compromised. In addition, the catheter includes a pressure sensor used to measure the fluid pressure during catheterization.

Application area

Catheter for steady delivery of fluids or drugs during angioplasty and catheterization procedures.

Advantages

Allows controlled delivery of blood, fluids, or drugs into arteries, veins, organs, or tissues.
Includes a pressure sensor to measure the fluid pressure during catheterization.

Institution

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