

Nano Polymer Coating on Coronary Stent

The technology, NanoPolymer Coating on Coronary Stent, provides a nano coating of a preferred polymer on coronary stents. The coated stent provides an inert surface for arterial walls to heal and prevents the occurrence of thrombosis (clotting) and restenosis (renarrowing) of the artery. This can provide the patient improved recovery time with minimal use of drugs.

Benefits of this technology are in its nanopolymer coating method to deposit an ultra-thin polymer coating on the stent's surface. This allows a patient to recover with reduced risk of thrombosis and restenosis reoccurrence within the first year, which leads to a reduced chance of heart attack, stroke and/or death. Minimizing the use of drugs also provides a cost savings during stent manufacturing and health treatments that follow.

Salient features

- Use of special coating on the stents will make the stent inert so as to reduce excessive cell growth, and at the same time promote normal blood flow and prevent acute thrombosis.
- A thin nano-coated surface allows the arterial wall to recover without the occurrence of thrombosis or restenosis and without the use of a drug-eluting stent design. This translates to a quicker recovery for the patient with a potential lower risk for heart attacks and/or death.
- A drug free stent design would provide lower manufacturing and treatment costs.

Areas of Application

- Healthcare industry
- Coronary stent system

End users

- Hospitals particularly for patients who have Ischemic heart disease
- Medical equipment manufacturers