Drug-Eluting Stents

Cypher™ stent delivering sirolimus

Taxus™ stent delivering zotarolimus

Endeavor™ stent delivering zotarolimus

Xience™ V stent delivering everolimus
Drug-Eluting Stents

A DRUG DISPENSER FOR CLOGGED ARTERIES

WHAT SETS COSTAR apart from conventional stents, implanted in an estimated three million Americans’ arteries annually, is its hundreds of tiny reservoirs. Each is packed with up to 20 layers of medicine that can prevent arteries from closing up in the months following angioplasty. Other stents pump out drugs in the first few days or weeks; the CoStar does it gradually and evenly over a period of months. Approved for use in Europe, it should be available in the U.S. in early 2008. conormed.com

FLEXY Custom hinges absorb stress to keep the medicine-holding struts from bending.

2006, November
Drug-Eluting Stents

Figure 4. DPCPX release profiles in the cumulated total amount (A and C) and in the percent release (B and D) from different formulations. The stents were coated with solutions of different concentrations for the same drug surface density (A and B). The stent coated with varied drug surface density using the same 10% DPCPX spraying solution (C and D).

Drug-Eluting Stent for Delivery of Signal Pathway-Specific 1,3-Dipropyl-8-cyclopentyl Xanthine

Eunah Kang,‡,§ Kumar Vedantham,‡,§ Xin Long,‖ Maria Dadara,‡ Il-Keun Kwon,‡ Michael Sturek,‖ and Kinam Park‡,§ Molecular Pharmaceutics Vol. 6, No. 4, 1110–1117