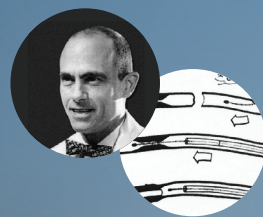


HISTORICAL MILESTONES

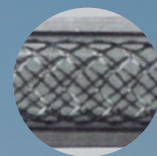
in Coronary Artery Stents



1964

The Stent is Conceptualized:

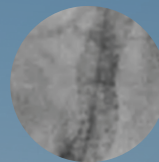
"The Father of Intervention," Charles Dotter, describes coronary angioplasty using an implantable prosthetic device.¹



1986

Investigational Implantation Begins:

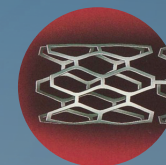
Ulrich Sigwart and Jacques Puel implant the first investigational stent in a human coronary artery.²



1993

Stents Deemed an Acceptable Treatment Option:

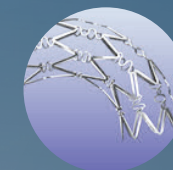
The FDA approves stents to treat acute and compromised vessel closure after failed balloon angioplasty.²



1994

Bare-Metal Stents are Approved in the U.S.:

The first bare-metal stent, designed by Julio C. Palmaz and Richard Schatz, is approved by the FDA.³

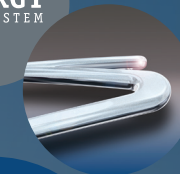


2003

Technology Shifts to Drug-Eluting Stents (DES):

The first generation permanent polymer DES was approved by the FDA to open arteries and prevent re-narrowing.⁴

SYNERGY™
STENT SYSTEM



2015

FDA Approves First Bioabsorbable Polymer DES:

The polymer is gone when it's no longer needed, shortly after the drug is completed eluted at 3 months.⁵

¹ Payne, M. M. (2001). Charles Theodore Dotter: The Father of Intervention. US National Library of Medicine National Institutes of Health, 28-38.

² Javaid Iqbal, J. G. (2013). Coronary stents: Historical development, current status and future directions. John Hopkins University Department of Interventional Cardiology, 1-19.

³ Ariel Roguin, M. P. (2011). Historical Perspectives in Cardiology. Stent: The Man and Word Behind the Coronary Metal Prosthesis. AHA Circulation: *Cardiovascular Interventions*, 206-209.

⁴ Department of Health & Human Services (2003). CYPHER (TMsymbol) Sirolimus-Eluting Coronary Stent FDA Approval.

⁵ Wilson, G.J., et al. *Catheter Cardiovasc Interv.* 2015.