

Coronary Artery Disease and Health Care Policy

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Disclosure

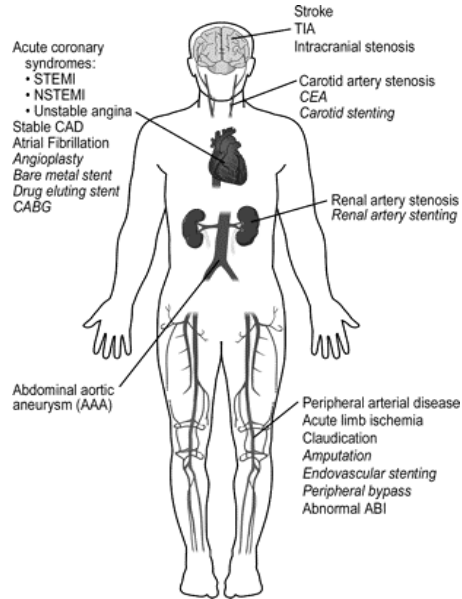
Dr. Bhatt has served as a consultant to: Arena, Astra Zeneca, Bristol-Myers Squibb, Cardax, Cogentus, Daiichi Sankyo, Eli Lilly, Eisai, Glaxo Smith Kline, Johnson & Johnson, Medtronic, Millennium, Otsuka, Paringenix, PDL, Philips, Portola, sanofi aventis, Schering Plough, The Medicines Company, Vertex.

Honoraria are donated to NPOs.

Principal Investigator for CHARISMA, co-PI of CHAMPION, and co-chair of REACH, as well as other potentially related studies.

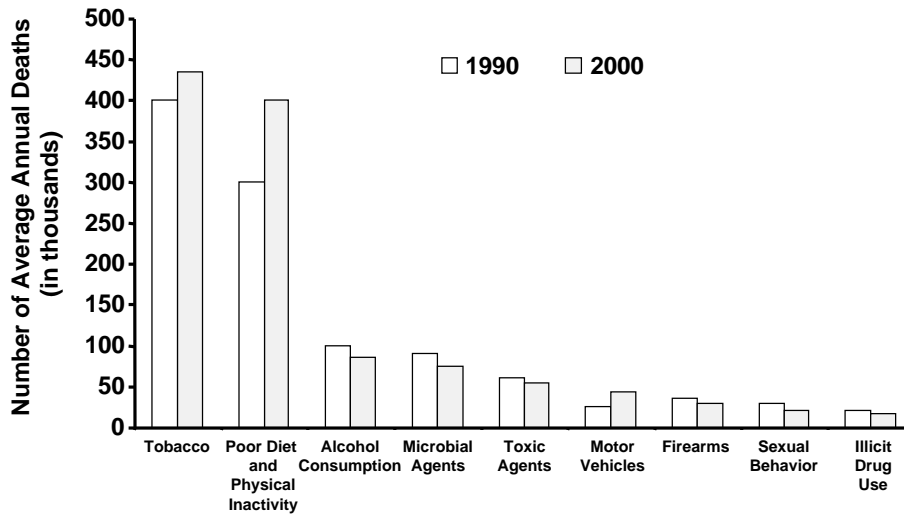
This presentation discusses off-label and/or investigational uses of several drugs and stents.

Atherothrombosis: Clinical Manifestations



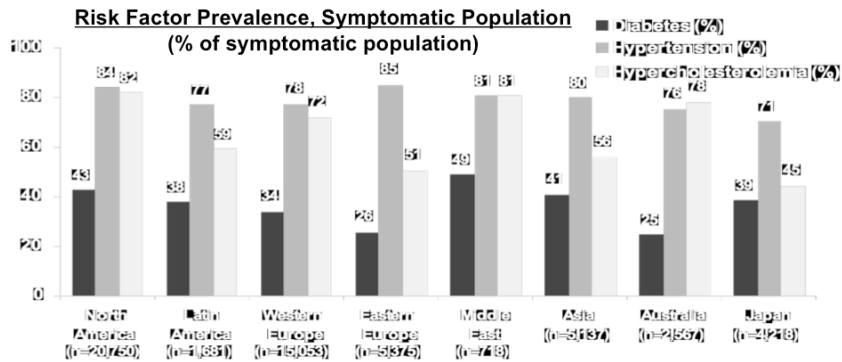
Meadows TA, Bhatt DL. *Circ Res.* 2007;100:1261-1275.

Actual Causes of Death in the U.S.



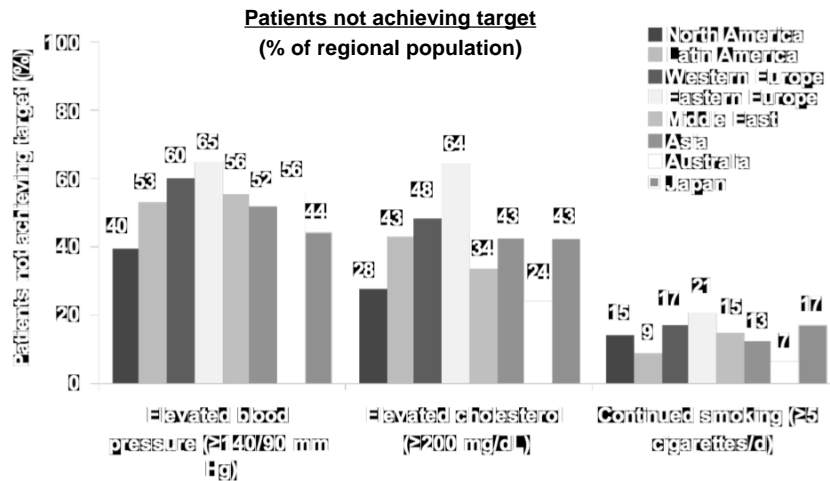
Mokdad et al. *JAMA.* 2004.

Classic Cardiovascular Risk Factors are Consistent and Common within the Symptomatic REACH Registry Baseline Population



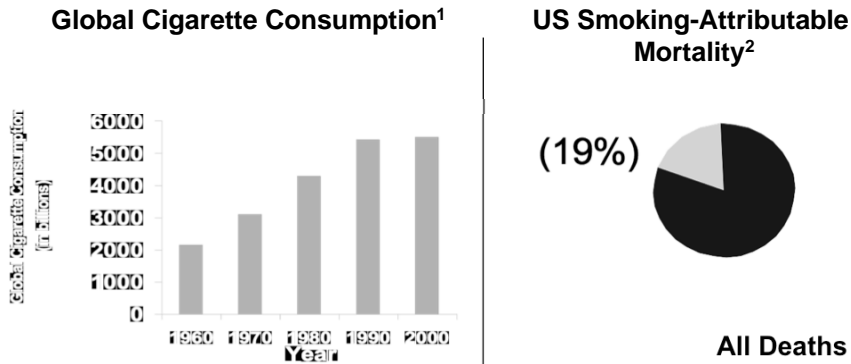
Bhatt DL, Steg PG, Ohman EM, et al. *JAMA* 2006; 295(2): 180-189.

Undertreatment of Risk Factors in Patients Worldwide



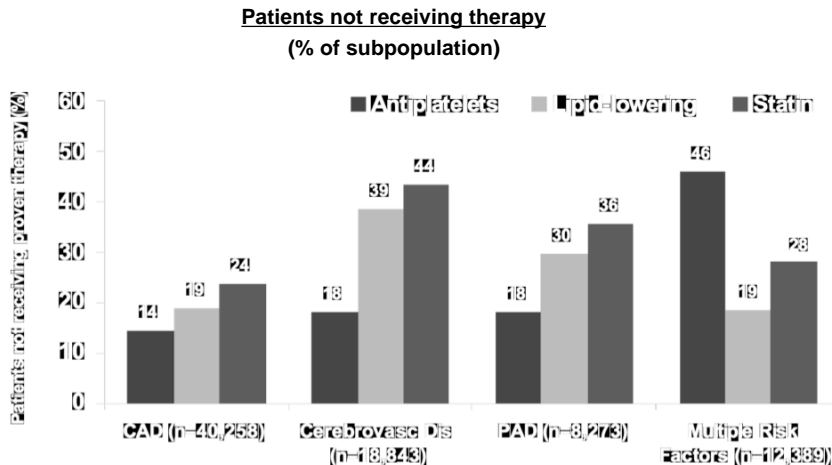
Bhatt DL, Steg PG, Ohman EM, et al. *JAMA* 2006; 295(2): 180-189.

Global Cigarette Consumption and US Data on Smoking-Attributable Mortality



1. World Health Organization. <http://www.who.int/tobacco/en/atlas8.pdf>. Accessed November 19, 2003.
 2. Centers for Disease Control and Prevention. *MMWR*. 2002;51:300-303.

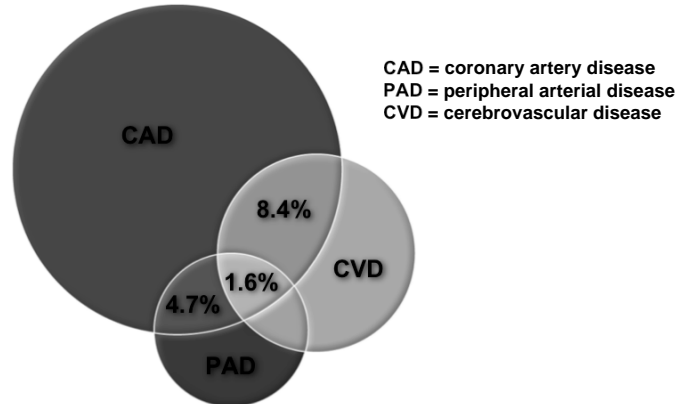
Established Therapies are Consistently Underused in All Patient Types



Bhatt DL, Steg PG, Ohman EM, et al. *JAMA* 2006; 295(2): 180-189.

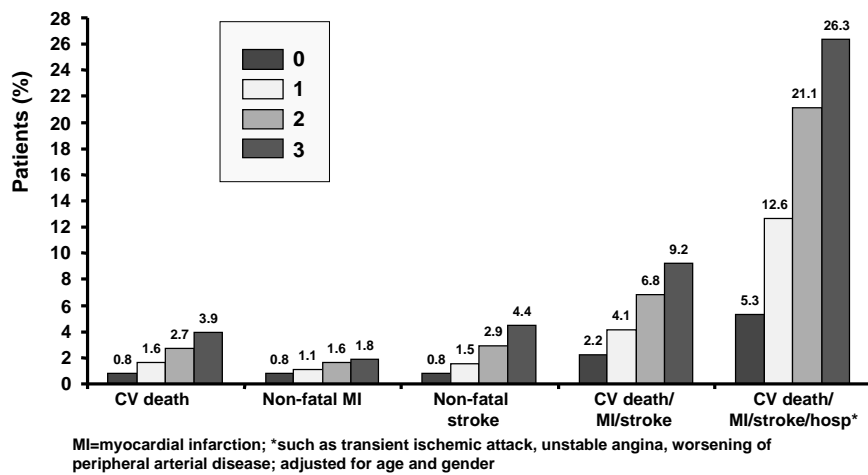
Polyvascular Disease ~15% of Patients with Stable Atherosclerosis

~25% of Patients with CAD Also Have Disease in Other Arterial Territories



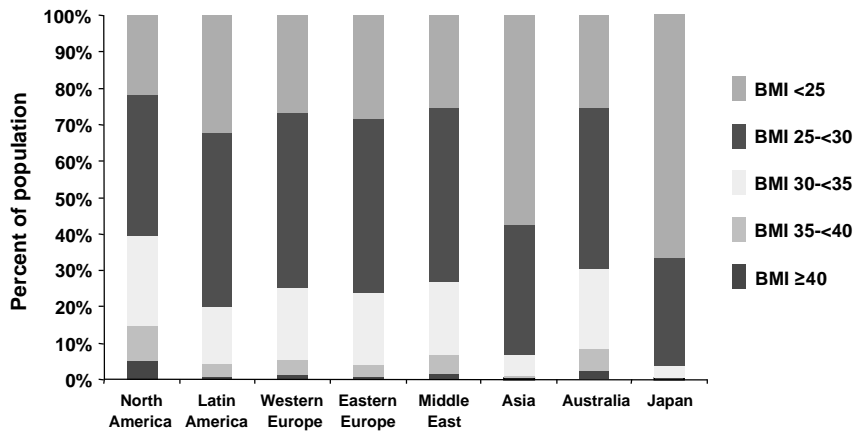
Bhatt DL, Steg PG, Ohman EM, et al, on behalf of the REACH Investigators. *JAMA* 2006;295:180-189.

One-year CV event rates increase with number of symptomatic disease locations



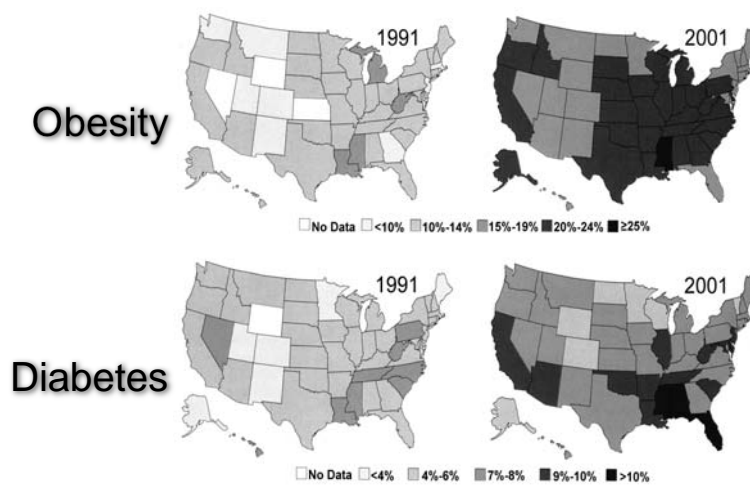
Steg PG, Bhatt DL, Wilson PF, et al, on behalf of the REACH Investigators. *JAMA* 2007;297:1197-1206.

High Prevalence of Overweight and Obesity in Most Regions



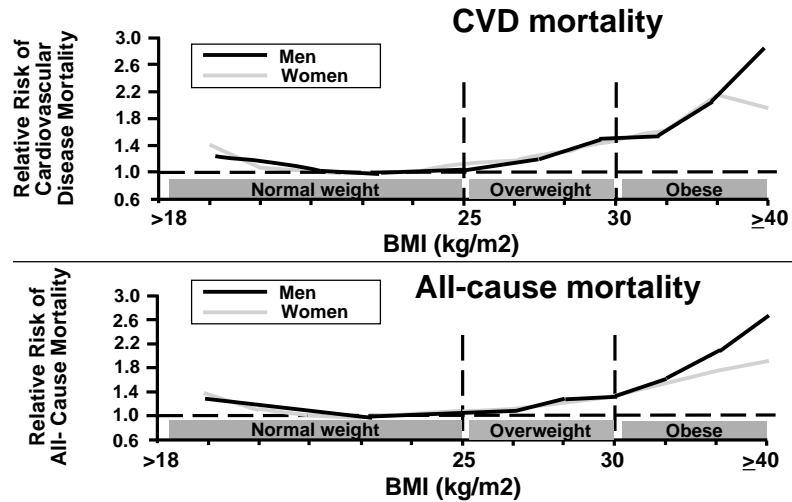
Bhatt DL, Steg PG, Ohman EM, et al. *JAMA* 2006; 295(2): 180-189.

Prevalence of Obesity and Diagnosed Diabetes in US Adults 1991 & 2001



Mokdad et al. *JAMA*. 2003;289:76-79.

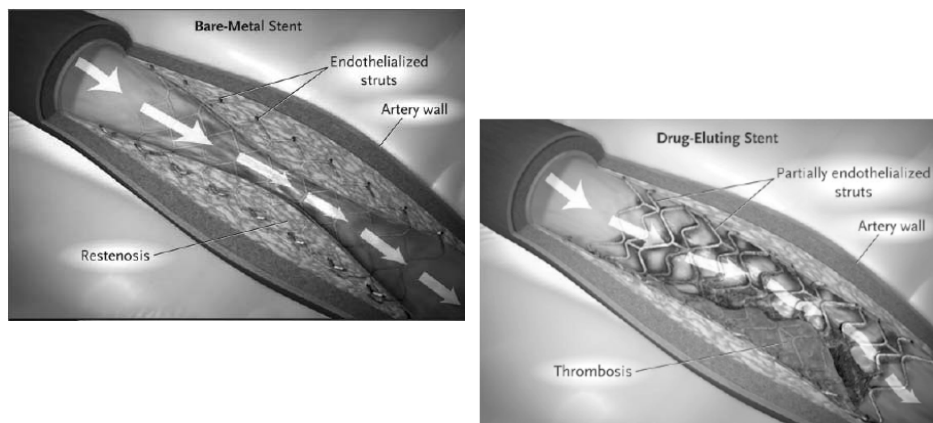
Overweight and Obesity Increase the Risk of Cardiovascular Disease Mortality and All-Cause Mortality



Data are from 1 million men and women followed for 16 years with an average age of 57 who never smoked and had no history of disease at enrollment.

Calle et al. *N Engl J Med.* 1999;341:1097-1105.

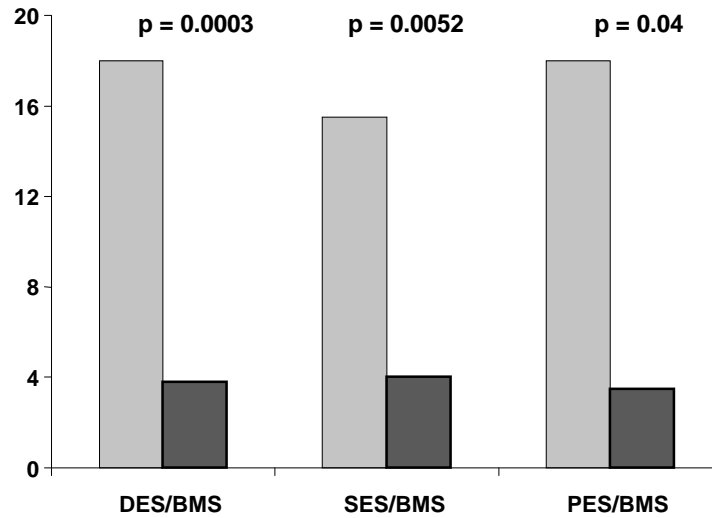
Restenosis and Thrombosis with Stents



Curfman GD, et al. *N Engl J Med.* 2007;356:10.

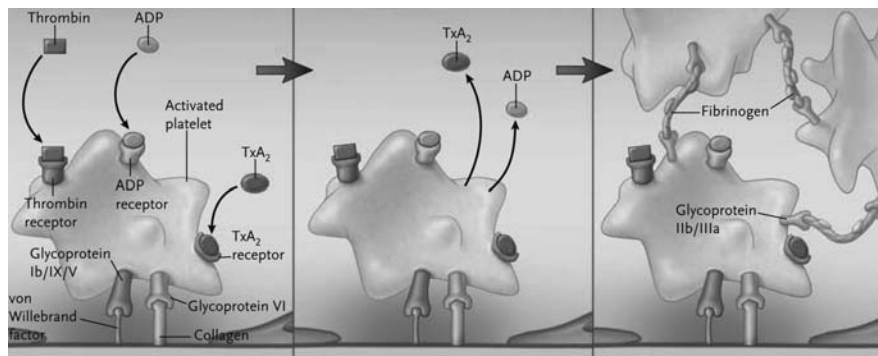
Median Time of Late Stent Thrombosis

Months



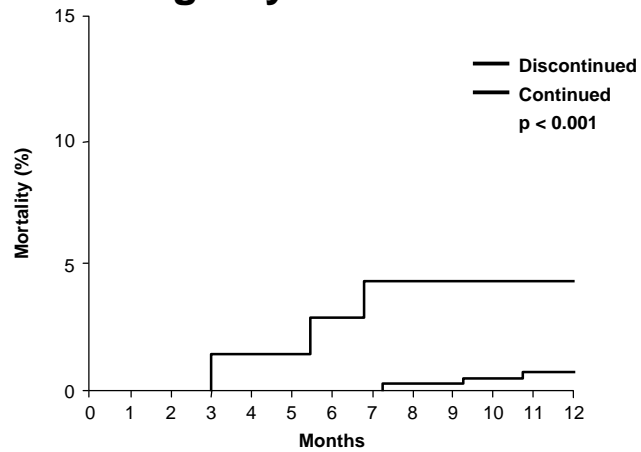
Bavry, Kumbhani, Helton, Borek, Mood, Bhatt. AJM 2006.

Role of Platelet Activation and Aggregation



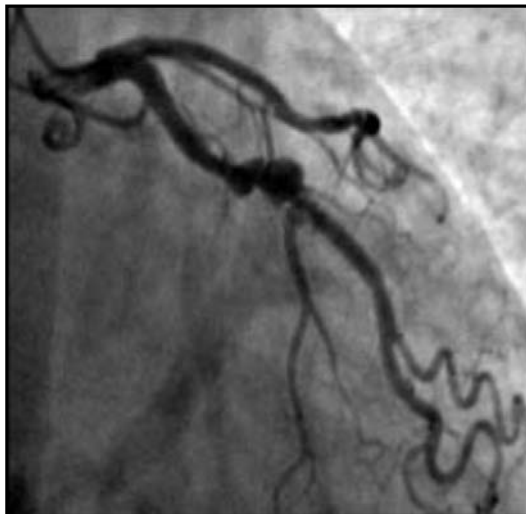
Bhatt DL et al. N Engl J Med 2007;357:2078-81.

Mortality Rate After Discontinuation in the PREMIER Registry



Spertus JA et al. *Circulation* 2006; 113: 2803-2809.

Late DES Aneurysm

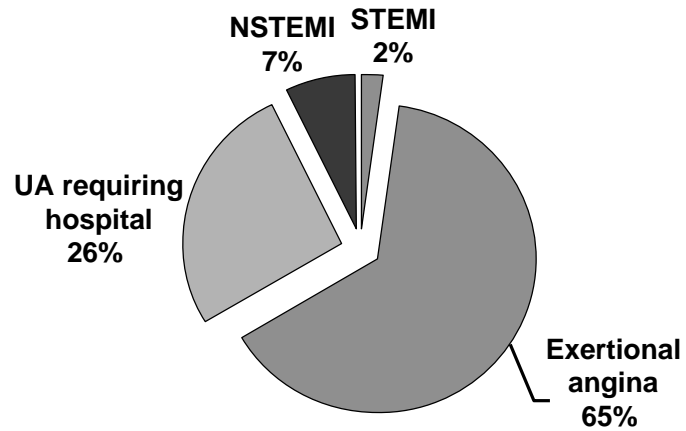


2 events > 12 months
-Excision
-Coiling

2 events < 12 months
-Surveillance

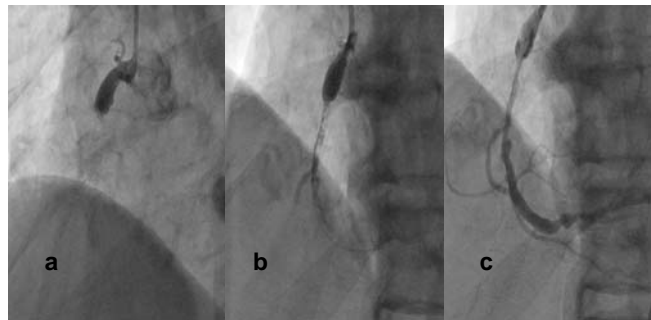
Bavry, Chiu, Jefferson, Karha, Bhatt, Ellis, Whitlow. *Annals Internal Med* 2007

Clinical Presentation of Bare Metal In-stent Restenosis



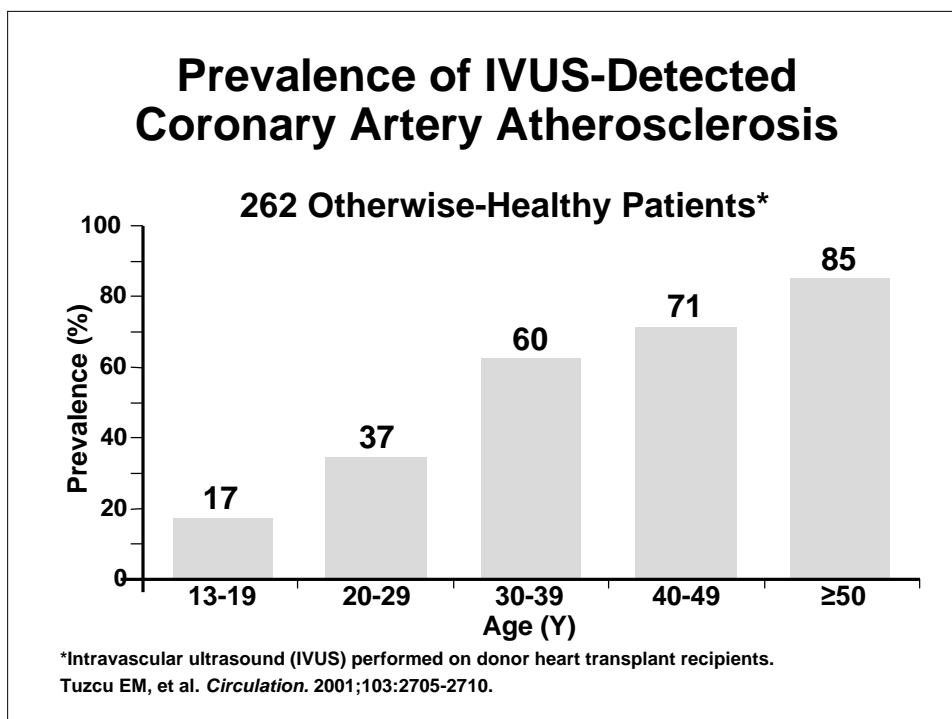
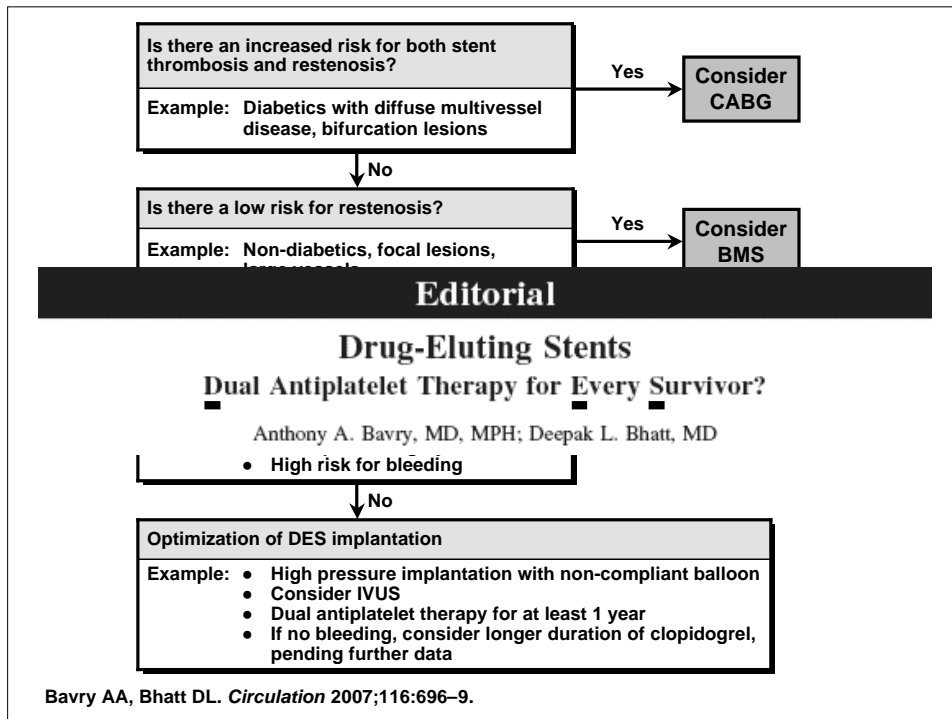
Chen MS, John JM, Chew DP, Lee DS, Ellis SG, Bhatt DL. *Am Heart J.* 2006;151:1260-1264.

Bare Metal Stent Thrombosis – 13 Years Later!

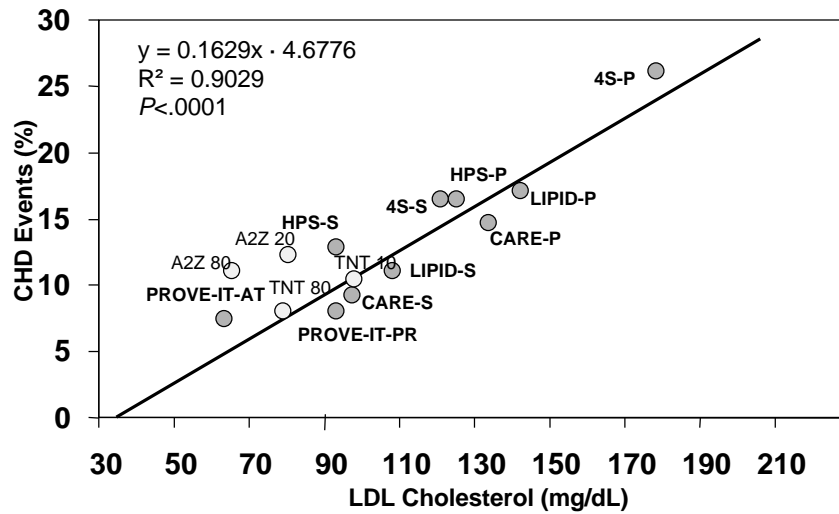


3 days after stopping aspirin – initial presentation was ACS

Sarkees ML, Galla JM, Bavry AA, Bhatt DL. CRM 2008. In press.

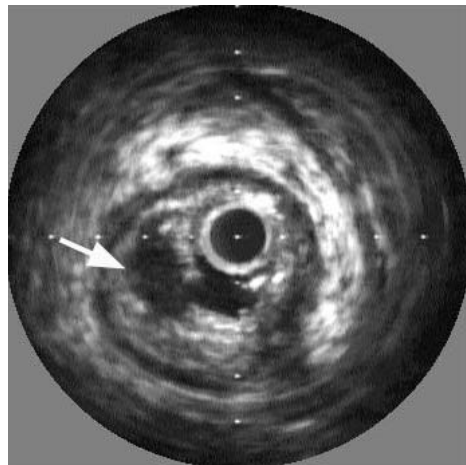


Coronary Heart Disease (CHD) Event Rates in Secondary Prevention and ACS Trials



O'Keefe J, et al. *J Am Coll Cardiol.* 2004;43:2142-2146.

IVUS of Ruptured Plaque



Ziada K and Bhatt DL. In Bhatt DL: *Essential Concepts in Cardiovascular Intervention*, ReMEDICA 2004.

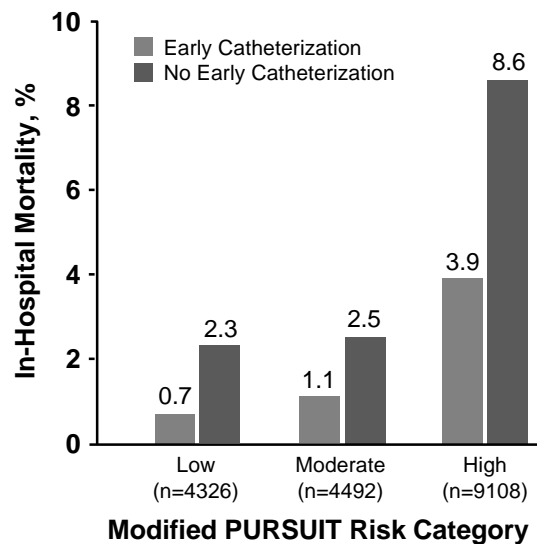
Routine vs Selective Invasive Strategies in ACS

To Cath or Not to Cath

That Is No Longer the Question

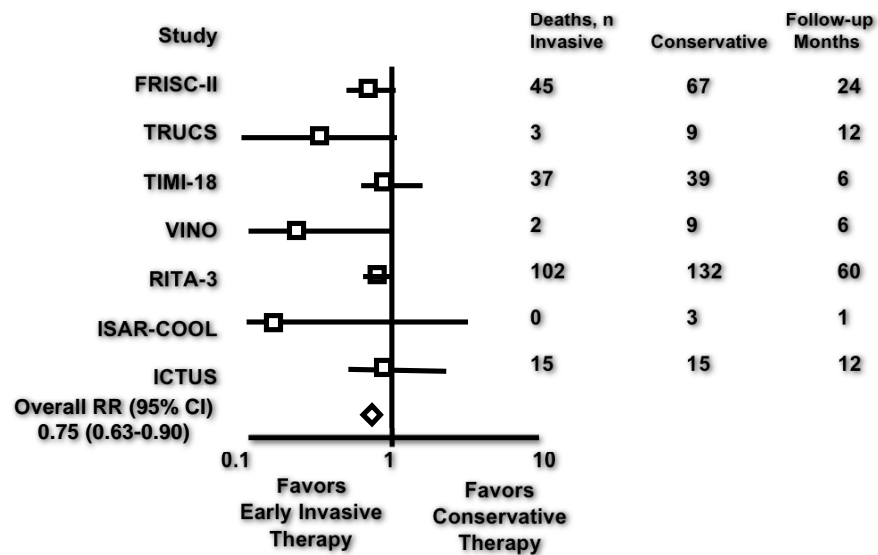
Bhatt DL. *JAMA*. 2005;293:2935-2937.

Mortality Rates by Early Catheterization



Bhatt DL, Roe MT, Peterson ED, et al. *JAMA*. 2004;292:2096-2104.

Updated Meta-Analysis: Mortality



Bavry, Kumbhani, Rassi, Bhatt, Askari. *JACC* 2006.

Conclusions

- Atherothrombosis is common and under-treated
- Tobacco abuse still a problem
- Obesity places a large burden on the health care system
- Safety of medical devices faces a new level of scrutiny
- Role of revascularization being further refined