





2018 STATS FROM AHA/ ASA in Tho Deaths 1979 1960 1965 1990 1995 2000 2006 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 Year ---- Males ----- Females Chart 12-16. Cardiovascular disease (CVD) mortality trends for males and females (United States: 1979–2015). CVD excludes congenital cardiovascular defects (International Classification of Diseases, 10th Revision [ICD-10] codes 100–19. The overall comparability for cardiovascular disease between the International Classification of Diseases, 9th Revision (1979– 1998) and ICD-10 (1999-2015) is 0.9962. No comparability ratios were applied. purce: National Center for Health Statistics and National Heart, Lung, and Blood Institute.







UA: CV Death or MI - ASA vs Placebo Efficacy: Cardiac Death or Non-Fatal MI % of Patients with Event 20 15 NO ASA 10 ASA 5 0 18 mo. 3 mo. 6 mo. 1 yr. 2 yr. At Risk Time ASA (263) (174)(137)(107)(73)(180) (144) (115) No ASA (274) (80)Cairns et al NEJM 1985;313:1369-1375

Efficacy of Aspirin Doses on Vascular Events in High Risk Patients



Physician's Health Study (PHS) 22,071 male participants randomized to aspirin (325 mg every other day) followed for an average of 5 years					
Relative Risk (95% CI)	P value				
0.96 (0.60-1.54)	0.87				
0.34 (0.15-0.75)	0.007				
0.59 (0.47-0.74)	<0.00001				
0.56 (0.45-0.70)	<0.00001				
cent reduction in the risk on (relative risk, 0.56; 95 interval, 0.45 to 0.70;	of				
	an's Health Study (PH ants randomized to aspirin llowed for an average of 5 <u>Relative Risk (95% CI)</u> 0.96 (0.60-1.54) 0.34 (0.15-0.75) 0.59 (0.47-0.74) 0.56 (0.45-0.70) cent reduction in the risk on (relative risk, 0.56; 95 interval, 0.45 to 0.70; centing group (225 g OD)				





Presented at ACC Scientific

CURE Major Bleeding by			
ASA Dose		ASPIRIN	
<100 mg		2.0%	
100-200 mg		2.3%	
>200 mg		4.0%	
* Other standard therapies were used as appropriate.			-

New USPSTF 2021

The USPSTF concludes with moderate certainty that aspirin use for the primary prevention of CVD events in adults ages 40 to 59 years who have a 10% or greater 10-year CVD risk has a small net benefit,"

"The USPSTF concludes with moderate certainty that initiating aspirin use for the primary prevention of CVD events in adults age 60 years or older has no net benefit"





Primary Prevention-AHA GUIDELINES Preventive drug interventions Aspirin—high risk* Aspirin therapy (75 to 162 mg), or clopidogrel if patient is intolerant to aspirin, should be used in high-risk women unless contraindicated. (Class I, Level A)_{GI=1} Aspirin—intermediate riskt Consider aspirin therapy (75 to 162 mg) in intermediate-risk women as long as blood pressure is controlled and benefit sly to outweigh risk of gastrointestinal side effects. (Class IIa, Level B)gl=2 β-Blockers β -Blockers should be used indefinitely in all women with syndromes unless contraindicated. (Class I, Level A)_{GI=1} eardial infarction or who have chronic ischemic ACE inhibitors ACE inhibitors should be used (unless contraindicated) in high-risk* women. (Class I, Level A)_{GI=1} ARBs $\overline{\mathsf{ARBs}}$ should be used in high-risk* women with clinical evidence of heart failure or an ejection fraction <40% who are intolerant to ACE inhibitors. (Class I, Level B)_{GI=1} Atrial fibrillation/stroke prevention Warfarin-atrial fibrillation Among women with chronic or paroxysmal atrial fibrillation, warfarin should be used to maintain the INR at 2.0 to 3.0 unless they are considered to be at low risk for stroke (<1%/y) or high risk of bleeding. (Class I, Level A)_{GI=1} Aspirin—atrial fibrillation Aspirin (325 mg) should be used in women with chronic or paroxysmal atrial fibrillation with a contraindication to warfarin or at low risk for stroke (<1%/y). (Class I, Level A)_{GI=1}



	Cateç	gories of BP	in Ad	lults*
	BP Category	SBP		DBP
	Normal	<120 mm Hg	and	<80 mm Hg
	Elevated	120–129 mm Hg	and	<80 mm Hg
	Hypertension			
	Stage 1	130–139 mm Hg	or	80–89 mm Hg
	Stage 2	≥140 mm Hg	or	≥90 mm Hg
AMEDICAN	*Individuals with desigr BP indicates blo careful readings DBP, diastolic	n SBP and DBP in 2 nated to the higher ood pressure (base s obtained on ≥2 oc blood pressure; an pressure.	2 categor BP categ d on an a casions, d SBP sy	ies should be ory. average of ≥2 as detailed in /stolic blood
College of Cardiology	r			

















Postmenopausal Women with CHD

Both 4S (827 women) and CARE (567 women) studies showed siginificant reduction in recurrent CHD events with LDL-C lowering therapy.









	Number Of Studies	Sa mp le Size	Univa ria te RR	Independen RR
Men	12	33,214	1.30	1.17
Women	4	5,836	1.91	1.47

Triglycerides Are a Risk Factor























METHODS - CTA

- 0.5-0.625 mm slices
- Single Breath-hold Imaging
- 40-50 cc Non-ionic (IODINATED) contrast
- 20 minute procedure
- 15 minute interpretation



	≥70% Coronary stenosis			
	Women	Men	Р	
Sensitivity	95.8 (90.1-98.6)	94.1 (89.5-96.8)	.554	
Specificity	83.0 (79.6-84.7)	91.1 (86.1-94.5)	.104	
PPV	77.3 (72.7-79.6)	90.9 (85.7-94.3)	.007	
NPV	97.1 (93.0-99.0)	94.3 (89.8-96.9)	.229	
LR+	5.644 (3.993-7.978)	10.943 (6.653-17.024)	-	
LR–	0.050 (0.019-0.131)	0.064 (0.035-0.118)	-	
NPV LR+ LR-	97.1 (93.0-99.0) 5.644 (3.993-7.978) 0.050 (0.019-0.131)	94.3 (89.8-96.9) 10.943 (6.653-17.024) 0.064 (0.035-0.118)	.2 - -	









