

# Sanger Heart & Vascular Institute

### **SHVI Stress Testing Appropriateness Test**

Patient:	Da	ate: Previ	ious Date Stress Test:
Symptoms:		MR #	<b>#</b> :
STRESS ECHOCARDIOGRAPH	V/NI ICI EAD DEDELISION IN	MAGING	
	Dobutamine Stress Echo	☐Bicycle Stress Echo	☐Treadmill Exercise Nuclear Exam
EVALUATION OF CHEST PAIN	OR ANGINAL EQUIVALENT		
□ Low pre-test probability of CAD □ Intermediate or high pre-test pro □ Possible ACS - no ischemic ECC □ Coronary stenosis of unclear sig □ Equivocal, borderline, or discord	bability of CAD (116-118) C changes or LBBB/V paced rh nificance (cath or CT angio) (14	ythm, nl or minimally elevated	l troponin (119-122)
PREOPERATIVE EVALUATION	see reverse side*		
☐Intermediate risk surgery/poor e.☐High risk surgery/poor exercise f			tain) (157)
POST ACUTE CORONARY SYN	DROME		
☐No symptoms/catheterization no	t planned (164, 166)		
ASSESSMENT OF VIABILITY/IS	CHEMIA		
☐ Known mod-severe LV dysfuncti ☐ Post incomplete revascularization			
RISK ASSESSMENT WITH PRICE	OR TEST RESULTS		
☐ Worsening symptoms with prior ☐ Stable symptoms/asymptomatic			
DETECTION OF CAD/RISK ASS	SESSMENT WITHOUT CHES	ST PAIN / ANGINAL EQUIVA	ALENT
New onset heart failure (128)  Sustained VT, NSVT, freq PVC's,  Syncope with intermediate or hig  Troponin elevation without addit  Coronary calcium Agatston scort  Coronary calcium score 100-400  Asymptomatic pt with high globated in the control of the contro	gh global CAD risk (134) onal evidence of ACS (135) e > 400 (139) I / High global CAD risk (uncert al CAD risk (uncertain) (127)		
VALVULAR HEART DISEASE (E	CHO ONLY)		
☐ Equivocal aortic stenosis/low ca☐ Asymptomatic severe mitral ster☐ Asymptomatic severe Al or MR/l☐ Symptomatic pt with moderate r☐ Symptomatic moderate mitral re	nosis (179) LV size and function not meetin nitral stenosis (190)	. ,	
POST PCI OR CABG			
□ Chest paint syndrome / not in each size of the syndrome in	72)	))	
OTHER			

### REFERENCES

SHVI-329A

Hendel et al. ACCF/ASNC/ACR/AHA/ASE/SCCT/SCMR/SNM 2009 Appropriate Use Criteria for Cardiac Radionuclide Imaging. JACC 2009, 53(23): 2201-29 ACCF/ASE/AHA/ASNC/HFSA/HRS/SCAI/SCCM/SCCT/SCMR 2011 Appropriate Use Criteria for Echocardiography Pamela S. Douglas *J. Am. Coll. Cardiol.* published online Nov 19, 2010; doi: 10.1016/j.jacc.2010.11.002

Physician Signature\_\_\_\_\_

#### PRE TEST PROBABILITY

Typical angina: Substernal chest pain or discomfort that is provoked by emotion or exertional

stress and relieved by rest\and or nitroglycerin.

Chest pain or discomfort that lacks one of the characteristics of typical angina. Atypical angina: Non-anginal CP:

Chest pain or discomfort that meets one or none of the characteristics of

typical angina.

## **Pre-Test Likelihood of CAD in Symptomatic Patients**

	NONANGINAL CP		ATYPICAL ANGINA		TYPICAL ANGINA	
AGE	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
30-39	Low	Low	Int	Low	High	Int
40-49	Int	Low	High	Int	High	High
50-59	Int	Low	High	High	High	High
>60	Int	Int	High	High	High	High

### Pre-Test Likelihoods in High Risk Symptomatic Patients\*

AGE	NONANGINAL CP		ATYPICAL ANGINA		TYPICAL ANGINA	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
35	High	Int	High	High	High	High
45	High	Int	High	High	High	High
55	High	Int	High	High	High	High
>60	High	High	High	High	High	High

<sup>•</sup> Pt with diabetes, smoking, and hyperlipidemia.

#### **GLOBAL CAD RISK:**

Framingham risk score

ATP III Guidelines: High Risk/CHD Risk Equivalent Diabetes >10 yrs, PVD, Carotid disease, AAA Framingham Risk > 20% and > 2 Risk Factors\*

• Hypertension / Cigarette smoking / Family hx CASHD (male first degree relative onset <55 female onset <65) / HDL <40 / Age men >45; female >55

#### PRE OPERATIVE EVALUATION

Surgery risk stratification

Low risk surgery: Endoscopic procedures, superficial procedures, cataract surgery, breast surgery

Intermediate risk surgery: Carotid endarterectomy, head and neck surgery, chest or abdominal surgery, orthopedic surgery, prostate surgery

High risk surgery: Emergent major operations, peripheral and aortic surgery, prolonged surgeries with significant fluid shifts or blood loss

#### Clinical risk factors

Hx ischemic heart disease, Hx of compensated CHF, Hx CVA, diabetes (requiring insulin), creatinine >2