

Patient Encounters in the Primary Care Setting

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Clinical Cases

Overview

- **Learning objectives**
- **Clinical case presentations**
- **Questions for audience participation**

Clinical Cases

Learning Objectives

1. Realize that patients with undiagnosed cardiovascular disease will sometimes present to their primary care physician's office.
2. Appreciate that web-based resources are available that can be very useful to health care providers in managing patients with cardiovascular disease.
3. Apply current practice guidelines to clinical scenarios.

Cardiovascular Cases

Case 1

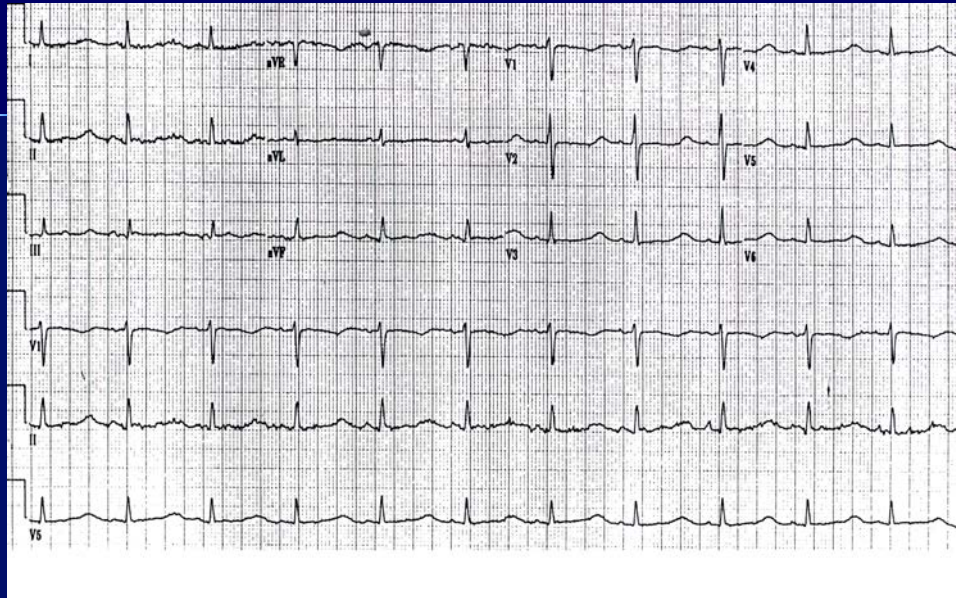
A 60-year-old female presents to your office as a new patient. She recently moved here from out of town and she would like to establish care with you. What has prompted her to seek medical attention at this time is a 1-2 week history of palpitations (feeling like her heart was stopping) associated with lightheadedness and chest tightness. These symptoms seem to be getting worse, although she denies syncope. Her medical history is significant for osteoarthritis, hypertension, venous insufficiency, and schizophrenia. She has no known allergies. Her medications include meloxicam 15 mg PO daily, amlodipine 10 mg PO daily, furosemide 80 mg PO daily, metolazone 2.5 mg PO daily, and thioridazine 200 mg PO BID. She smokes cigarettes, and she has a 40-pack-year history of smoking (one pack of cigarettes per day for 40 years). She denies use of alcohol or illicit drugs. She has had no previous surgeries. Her family history is unknown, as she is adopted.

Cardiovascular Cases**Case 1 (cont.)**

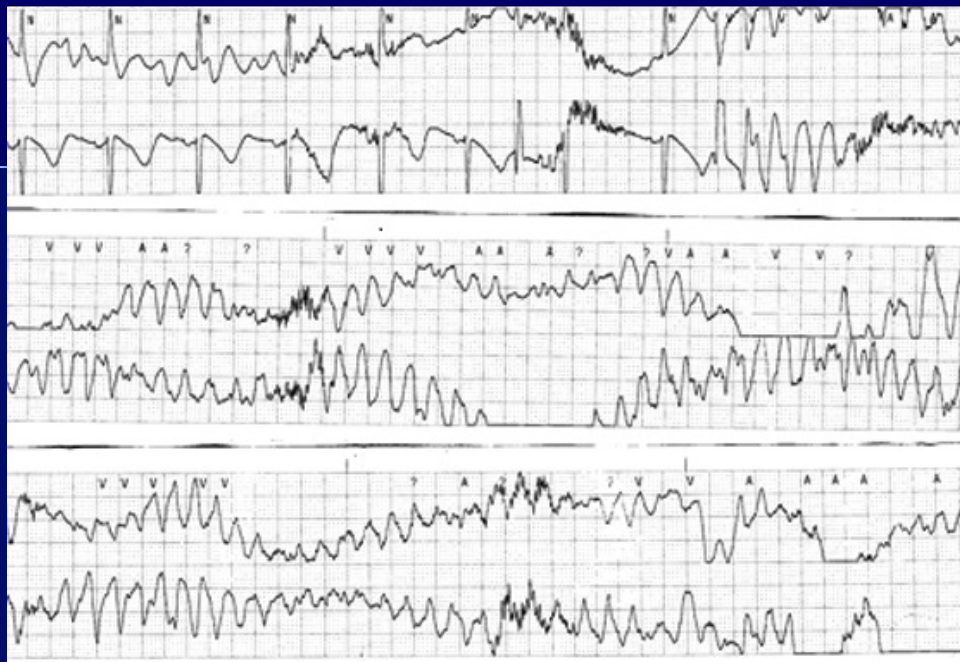
Physical examination reveals: blood pressure 126/82 mmHg, pulse 64 bpm, and respirations 12 per min. There is no jugular venous distension. There are no carotid bruits. Lungs are clear to auscultation bilaterally. Cardiac rhythm is regular. S1 and S2 are normal. There is no third or fourth heart sound. There is no cardiac murmur. There is no pericardial friction rub. The abdomen is soft and nontender, with no palpable masses or organomegaly. Bowel sounds are active. There is mild pitting edema of the distal aspects of both lower extremities. Stasis dermatitis changes are present on the distal aspects of both lower extremities. Distal pulses are intact and bilaterally equal in both the upper and the lower extremities. There is no evidence of gross motor or sensory neurological deficits.

Cardiovascular Cases**Case 1 (cont.)**

Prior to sending this patient elsewhere for further evaluation, is there anything else that can be done in the office that could be of value in determining the cause of her symptoms?

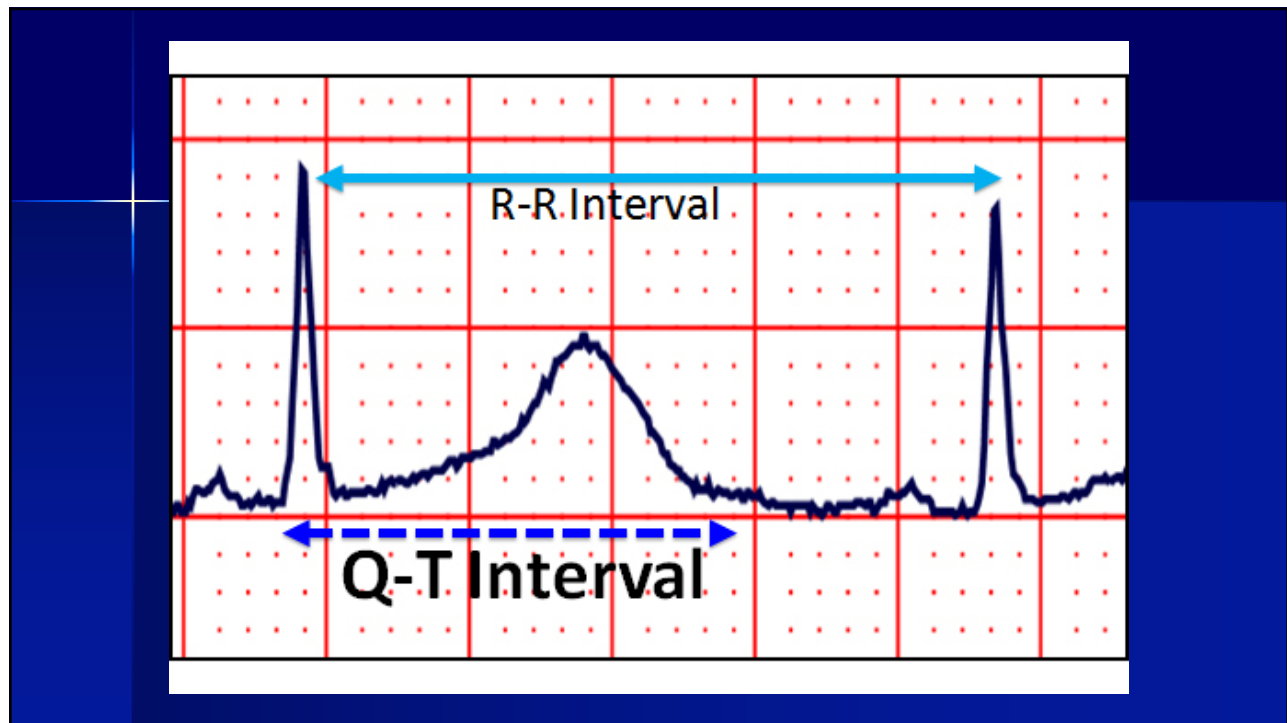
Cardiovascular Case 1**Cardiovascular Cases****Case 1 (cont.)**

The following rhythm change occurred 29 minutes after the preceding EKG was recorded...



Cardiovascular Case 1





Cardiovascular Cases

Case 1 (cont.)

Is any additional testing indicated at this time?

Cardiovascular Case 1			
Glucose	(65 - 99 mg/dL)	108	
BUN	(7 - 18 mg/dL)	32	
Creatinine	(0.7 - 1.3 mg/dL)	1.2	
Na+	(135 - 145 mmol/L)	131	
K+	(3.5 - 5.0 mmol/L)	2.1	
Cl-	(101 - 111 mmol/L)	96	
CO2	(21 - 31 mmol/L)	35	
Calcium	(8.5 - 10.5 mg/dL)	9.9	
Phosphorous	(2.5 - 4.5 mg/dL)	3.7	
Uric acid	(2.5 - 8.0 mg/dL)	5	
Total protein	(6.4 - 8.2 g/dL)	6.4	
Albumin	(3.4 - 5.0 g/dL)	3.5	
Globulin	(2.3 - 3.5 g/dL)	2.9	
A / G ratio	(0.9 - 1.6)	1.2	
Total bilirubin	(0.2 - 1.0 mg/dL)	0.8	
Alk. Phosphatase	(50 - 136 U/L)	47	
AST	(15 - 37 U/L)	60	
ALT	(30 - 65 U/L)	45	
LDH	(94 - 172 U/L)	146	
Cholesterol	(0 - 200 mg/dL)	167	
Triglycerides	(30 - 150 mg/dL)	169	
HDL	(40 - 60 mg/dL)	46	
LDL	(0 - 100 mg/dL)	87	
Chol. / HDL ratio	(< 4.5)	3.6	

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Cardiovascular Cases

Case 1 (cont.)

How could this problem have been prevented?

Cardiovascular Cases

Case 2

A 46-year-old female presents for preoperative evaluation prior to elective total abdominal hysterectomy. Her medical history is significant for uterine fibroids, hypertension, and paroxysmal atrial fibrillation. An echocardiogram performed last month revealed normal left ventricular systolic function, mild tricuspid regurgitation, trace mitral regurgitation, and no significant structural abnormalities. Her medications include warfarin 2 mg PO daily and atenolol 25 mg PO BID. Her INR is 2.8. The remainder of her lab work (CBC and CMP) is within normal limits. Physical examination reveals: blood pressure 126/82 mmHg, pulse 80 bpm, and respirations 12 per min. There is no jugular venous distension, lungs are clear to auscultation bilaterally (no crackles or wheezes), cardiac rhythm is regular and there is no S3, S4, murmur, or rub. There is no peripheral edema.

Cardiovascular Cases

Case 2 (cont.)

Which of the following is the most appropriate recommendation regarding anticoagulation prior to surgery?

- A. Discontinue warfarin now, as anticoagulation is not indicated in this patient.
- B. Discontinue warfarin four days prior to scheduled surgery. Check the INR daily. When the INR is < 2 , begin enoxaparin 1 mg/kg SQ BID and continue it until the morning of surgery.
- C. Discontinue warfarin four days prior to scheduled surgery. Check the INR the morning of scheduled surgery. Proceed with surgery if the INR is < 2 .
- D. Continue warfarin through the day before scheduled surgery. Withhold warfarin on the morning of surgery and initiate a continuous intravenous infusion of unfractionated heparin, which may then be discontinued on call to the operating room.

Cardiovascular Cases

Case 2 (cont.)

What is this patient's CHADS₂ score?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 5
- G. 6

Atrial Fibrillation Anticoagulation

CHADS₂ Risk Stratification Scheme

Risk Factors	Score
C Congestive heart failure	1
H Hypertension	1
A Age ≥75 years	1
D Diabetes mellitus	1
S₂ History of stroke or transient ischemic attack	2

Rockson et al. *J Am Coll Cardiol.* 2004;43:929-935.

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Cardiovascular Cases

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Atrial Fibrillation Anticoagulation

CHADS₂ Risk Stratification Scheme (cont.)

Score	Recommended therapy
0	Aspirin (81 to 325 mg daily)
1	Aspirin (81 to 325 mg daily) or Warfarin (INR 2.0 – 3.0)
2 - 6	Warfarin (INR 2.0 – 3.0)

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Cardiovascular Cases

Case 2 (cont.)

What is this patient's CHA₂DS₂-VASc score?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4
- F. 5
- G. 6
- H. 7
- I. 8
- J. 9

Atrial Fibrillation Anticoagulation

CHA₂DS₂-VASc Risk Stratification Scheme

Risk Factors	Score
C Congestive heart failure	1
H Hypertension	1
A ₂ Age ≥75 years	2
D Diabetes mellitus	1
S ₂ History of stroke or transient ischemic attack	2
V Vascular disease	1
A Age 65 - 74 years	1
Sc Sex category (female gender)	1

Lip et al. *Chest*. 2010;137:263-272.

Atrial Fibrillation Anticoagulation

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Cardiovascular Cases

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- I. 8
- J. 9

Atrial Fibrillation Anticoagulation

CHA₂DS₂-VASc Risk Stratification Scheme (cont.)

Score	Recommended therapy
0	"It is reasonable to omit antithrombotic therapy."
1	**** "No antithrombotic therapy, treatment with oral anticoagulant, or aspirin may be considered."
> 2	"Oral anticoagulants recommended."

January et al. *J Am Coll Cardiol*. 2014;64(21):2246-2280.

Atrial Fibrillation Anticoagulation

CHA₂DS₂-VASc Risk Stratification Scheme (cont.)

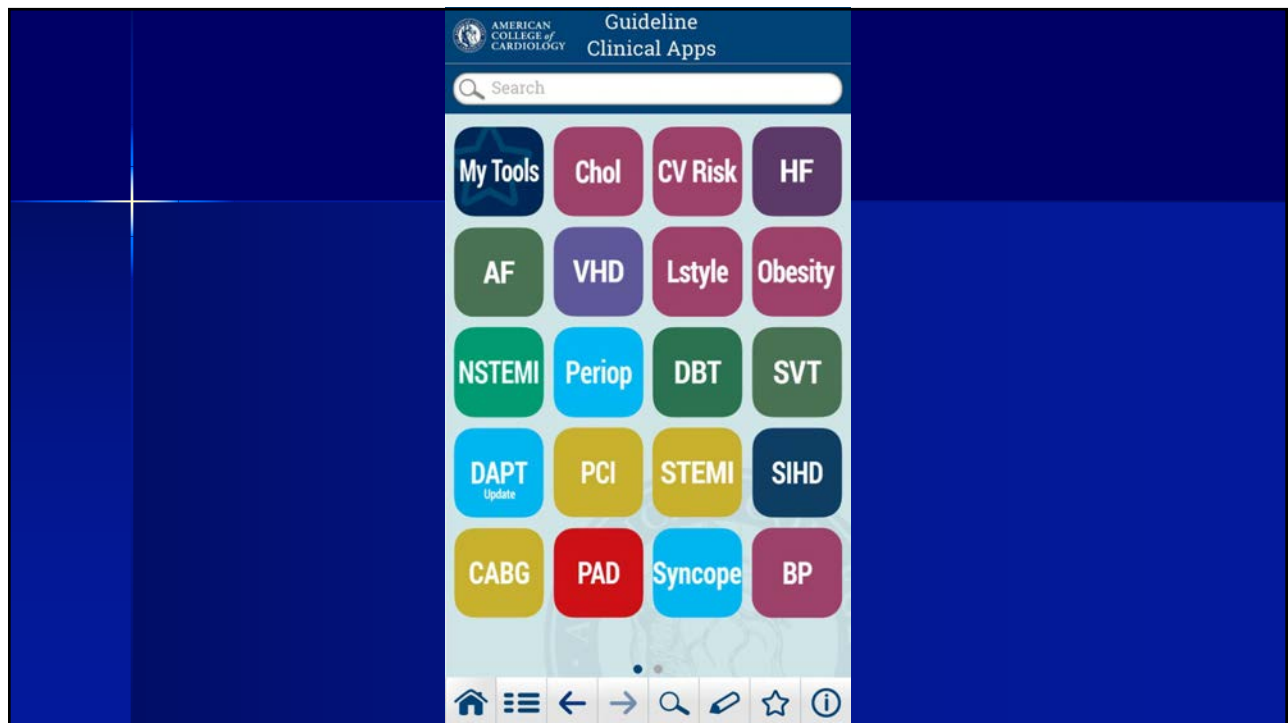
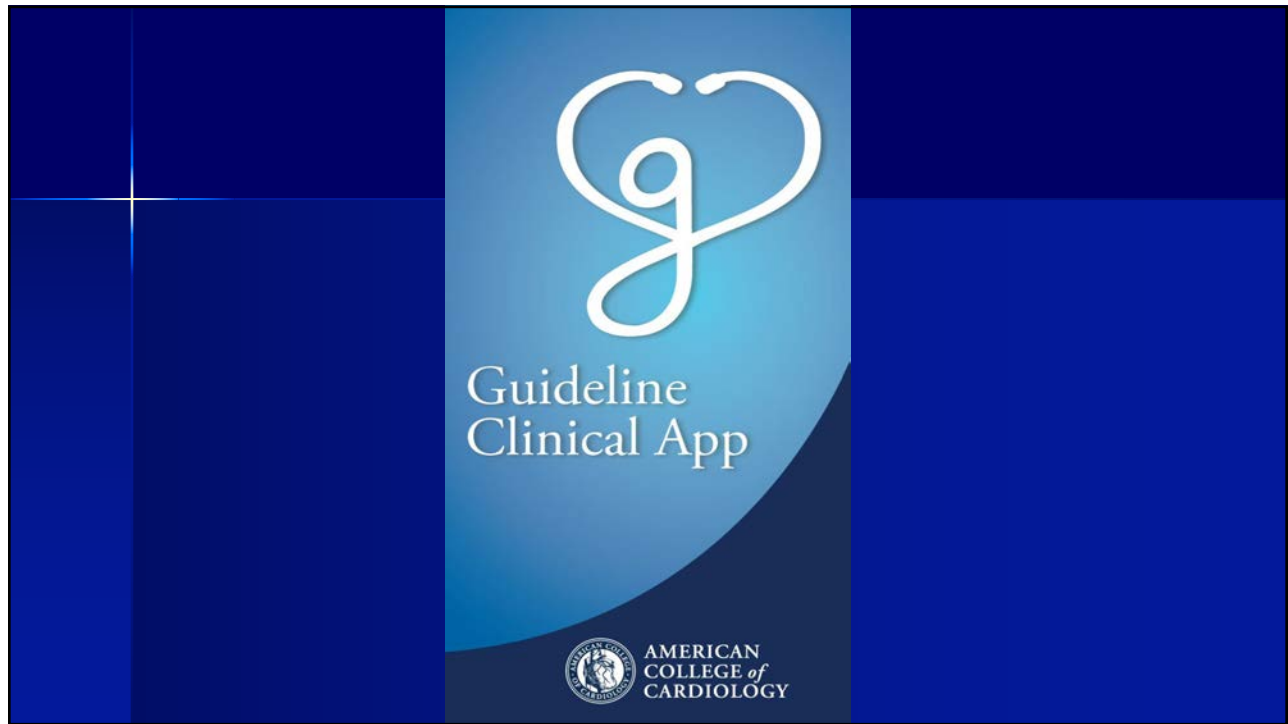
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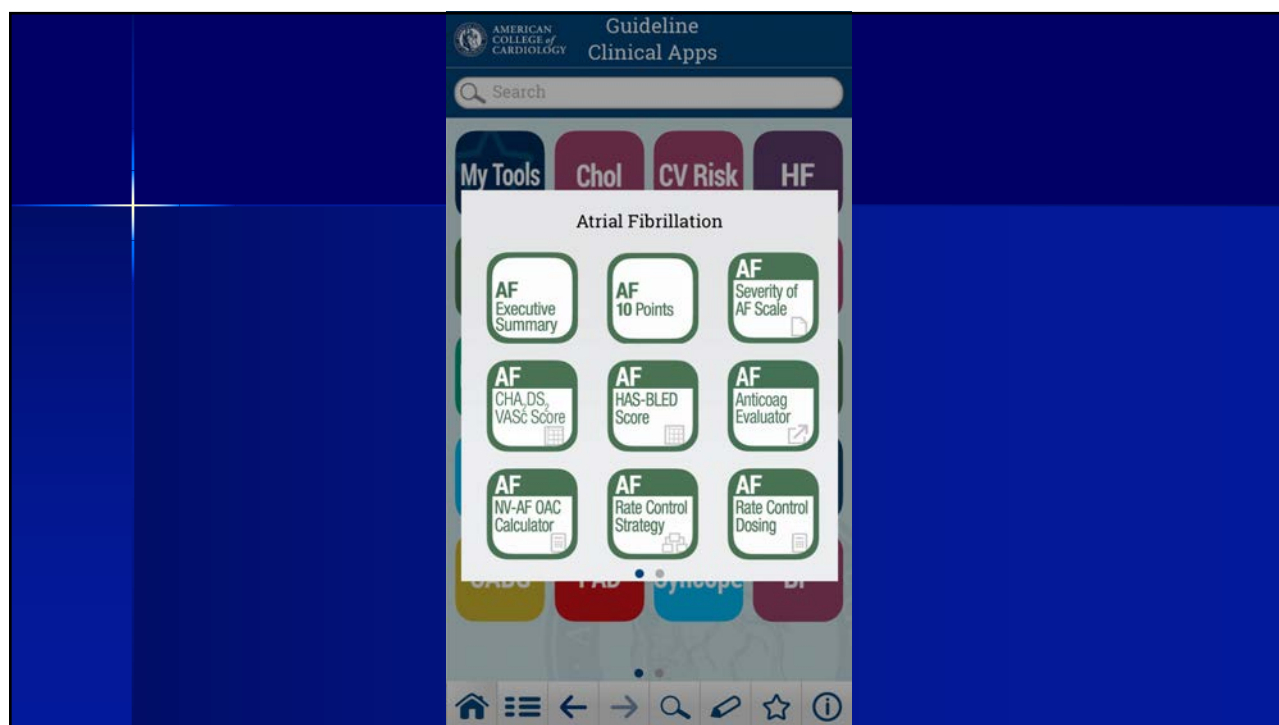
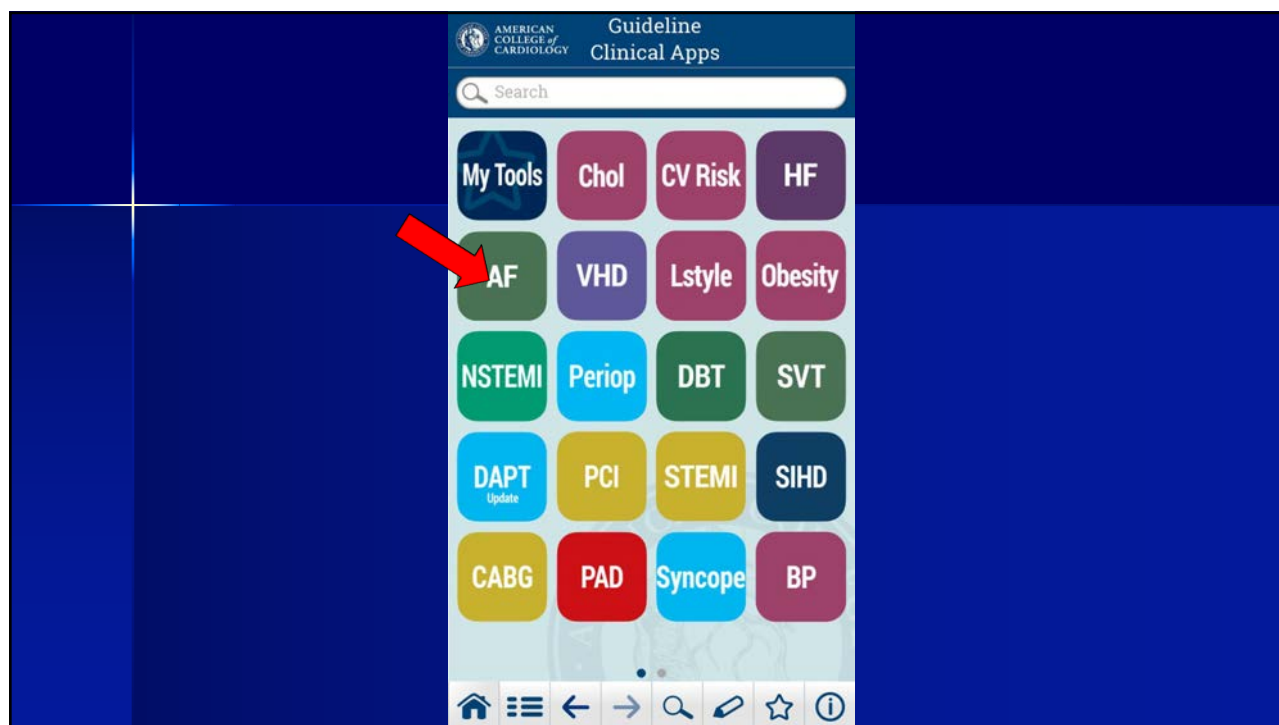
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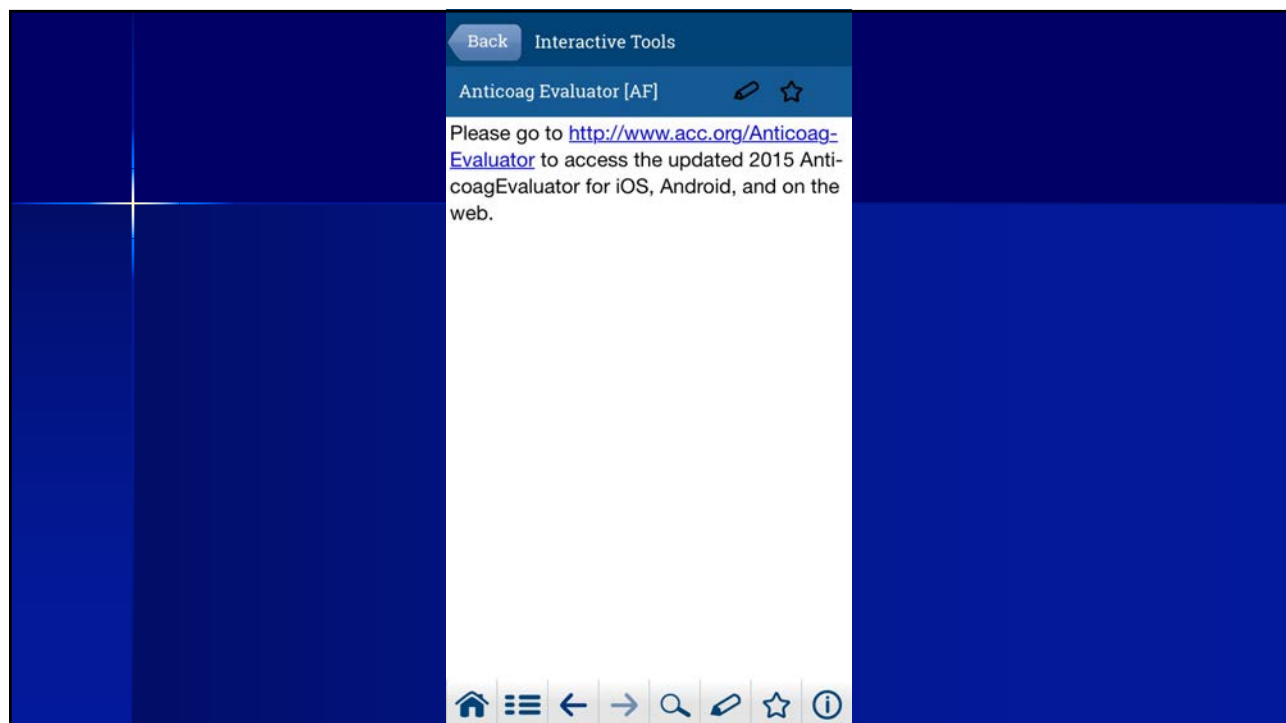
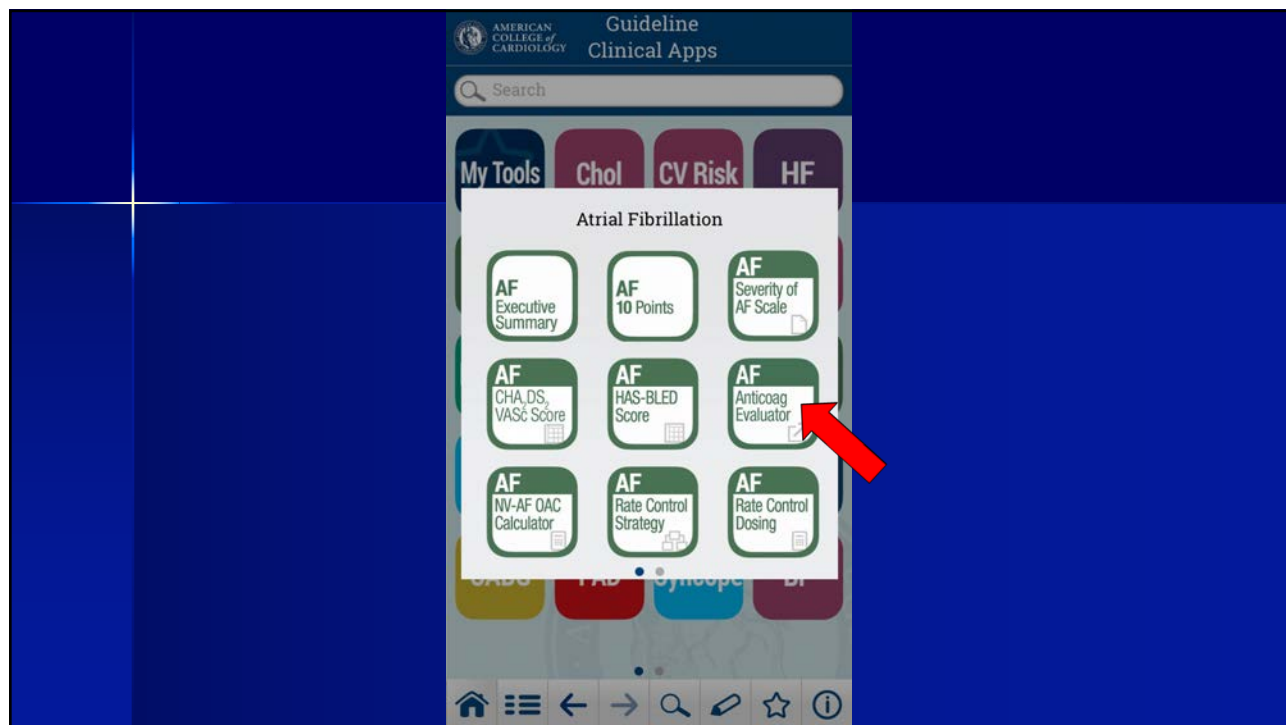
Cardiovascular Cases

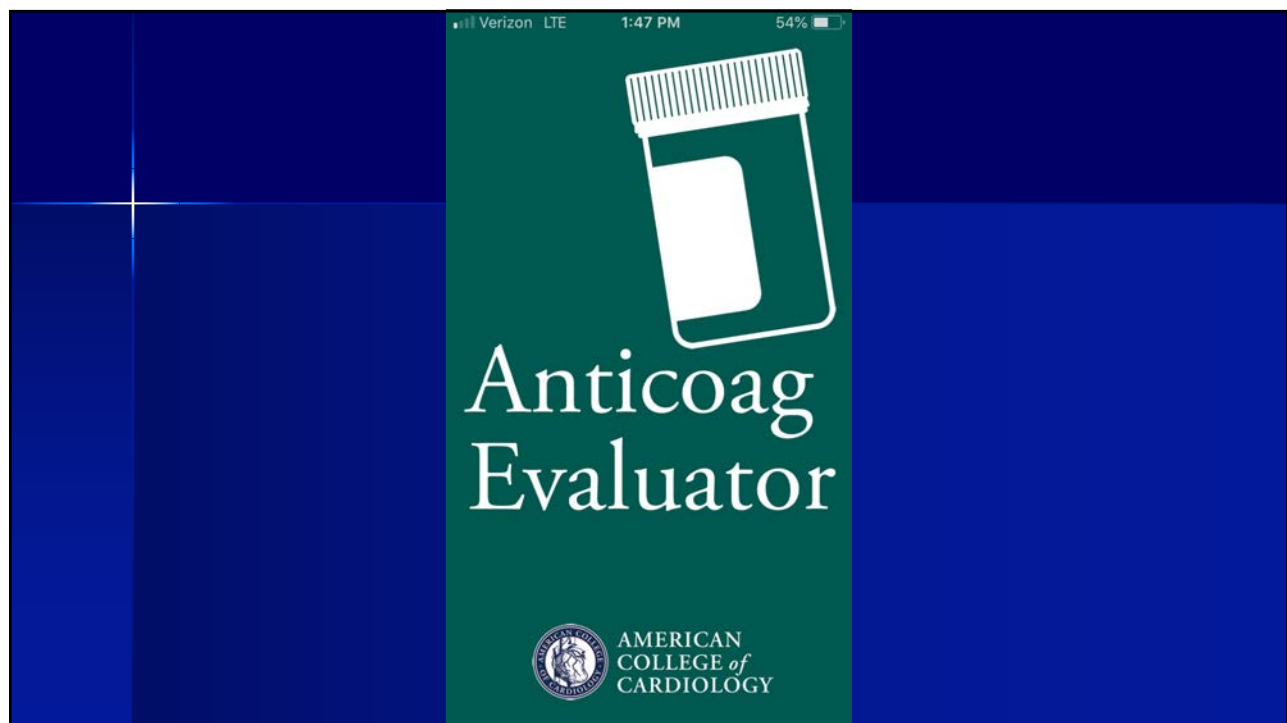
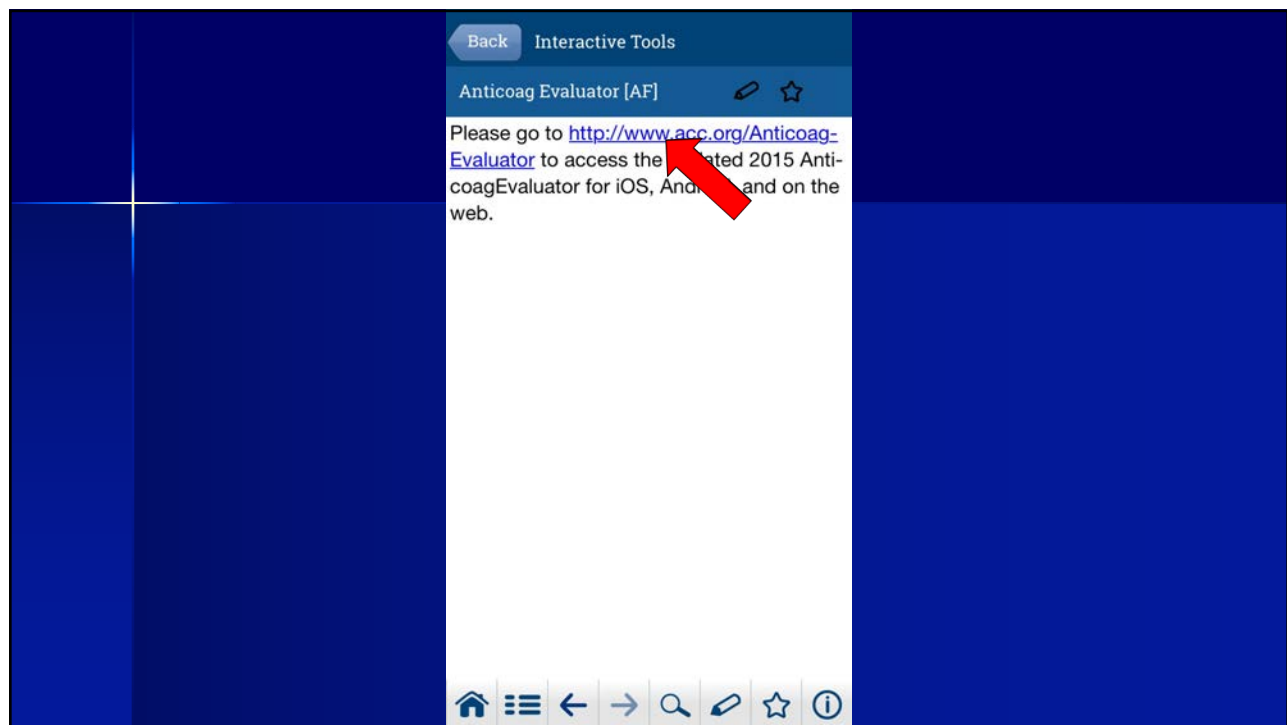
2017 ACC/AHA Guidelines**Current ACC Guidelines (AF and many others):**

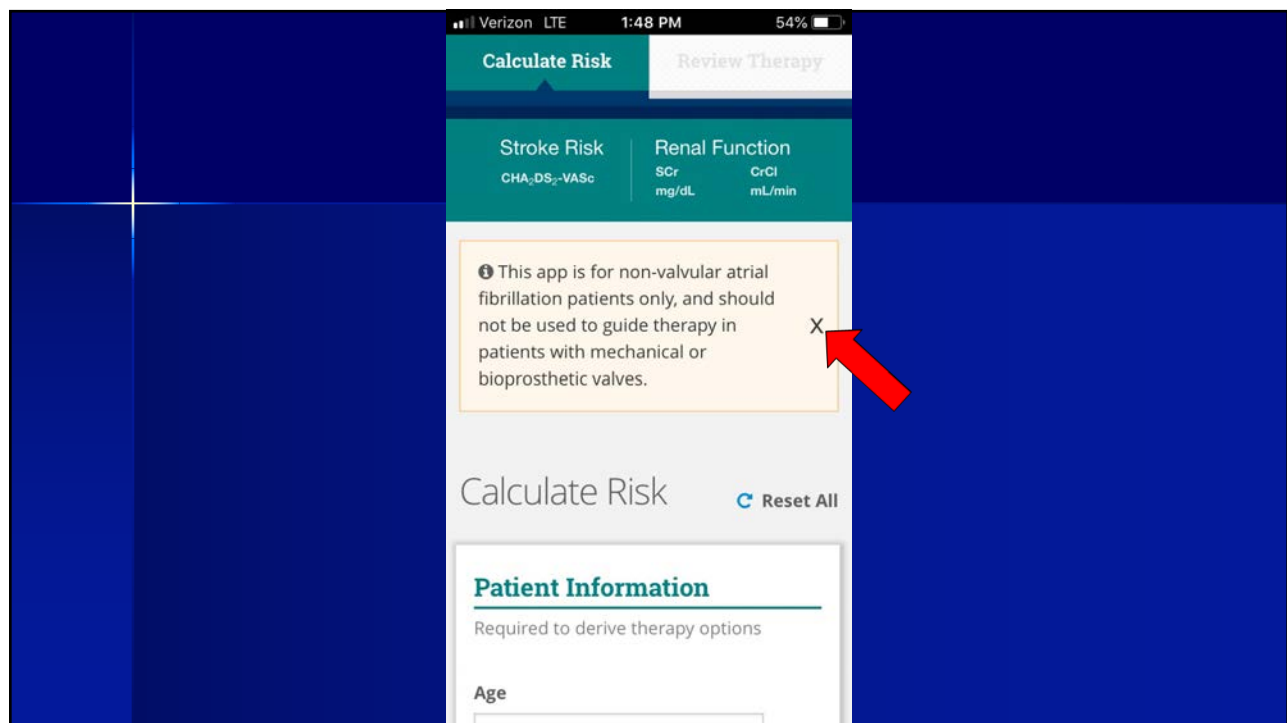
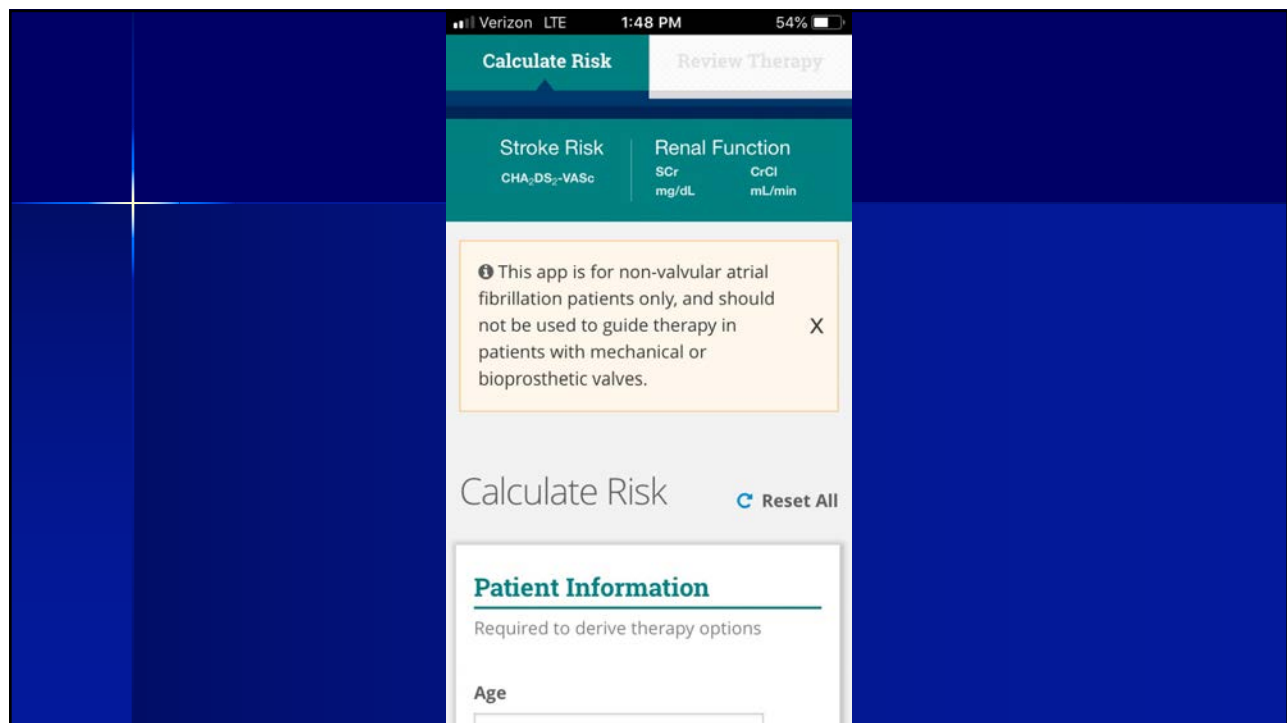
- There's an app for that!
- Enter: "ACC Guideline Clinical Apps"











The screenshot shows a mobile app interface for calculating risk. At the top, there are two tabs: "Calculate Risk" (active) and "Review Therapy". Below the tabs, there are two sections: "Stroke Risk" with the formula CHA_2DS_2-VASc and "Renal Function" with units for SCr (mg/dL) and CrCl (mL/min). The main heading is "Calculate Risk" with a "Reset All" button. Under "Patient Information", it states "Required to derive therapy options". There are two input fields: "Age" (empty) and "Sex" (dropdown menu showing "Please select").

The screenshot shows the same mobile app interface, but with the "Age" field filled with "46" and the "Sex" dropdown menu set to "Female". The "Stroke Risk" section now displays a result: "1 CHA_2DS_2-VASc Intermediate risk". The "Renal Function" section remains empty. The "Calculate Risk" heading and "Reset All" button are still present.

App Store LTE 1:21 PM 65%

Calculate Risk Review Therapy

Stroke Risk $\text{CHA}_2\text{DS}_2\text{-VASc}$ Renal Function
SCr mg/dL CrCl mL/min

$\text{CHA}_2\text{DS}_2\text{-VASc}$

Select all that apply

- ☐ CHF/LV dysfunction ⓘ
- ☐ Hypertension ⓘ
- ☐ Age ≥ 75 yrs
- ☐ Diabetes mellitus
- ☐ Stroke/TIA/TE ⓘ
- ☐ Vascular disease ⓘ
- ☐ Age 65-74 yrs
- ☐ Sex: Female

App Store LTE 1:30 PM 61%

Calculate Risk Review Therapy

Stroke Risk $\text{CHA}_2\text{DS}_2\text{-VASc}$ Renal Function
2 High risk SCr $\mu\text{mol/L}$ CrCl mL/min

$\text{CHA}_2\text{DS}_2\text{-VASc}$

Select all that apply

- ☐ CHF/LV dysfunction ⓘ
- ☒ Hypertension ⓘ
- ☐ Age ≥ 75 yrs
- ☐ Diabetes mellitus
- ☐ Stroke/TIA/TE ⓘ
- ☐ Vascular disease ⓘ
- ☐ Age 65-74 yrs
- ☒ Sex: Female

App Store LTE 1:24 PM 64%

Calculate Risk Review Therapy

Stroke Risk CHA₂DS₂-VASc Renal Function SCr $\mu\text{mol/L}$ CrCl mL/min

Creatinine Clearance

(Cockcroft-Gault Equation)

All four values are required to calculate Creatinine Clearance

Select Units ☒ SI ☐ US

Age Yrs

Sex

Weight kgs

App Store LTE 1:24 PM 64%

Calculate Risk Review Therapy

Stroke Risk CHA₂DS₂-VASc Renal Function SCr $\mu\text{mol/L}$ CrCl mL/min

Creatinine Clearance

(Cockcroft-Gault Equation)

All four values are required to calculate Creatinine Clearance

Select Units ☒ SI ☐ US

Age Yrs

Sex

Weight kgs

Verizon 9:34 AM 65%

Calculate Risk Review Therapy

Stroke Risk CHA₂DS₂-VASc Renal Function SCr mg/dL CrCl mL/min

Creatinine Clearance

(Cockcroft-Gault Equation)

All four values are required to calculate Creatinine Clearance

Select Units SI **US**

Age Yrs

Sex

Weight lbs

Verizon 12:02 PM 41%

Calculate Risk Review Therapy

Stroke Risk CHA₂DS₂-VASc 2 High Risk Renal Function SCr 1 mg/dL CrCl 79.5 mL/min

Select Units SI **US**

Age Yrs

Sex

Weight lbs

Serum Creatinine mg/dL

Verizon 12:18 PM 38%

Calculate Risk **Review Therapy**

Stroke Risk **2** CHA₂DS₂-VASc High Risk

Renal Function **1** SCr mg/dL **79.5** CrCl mL/min

Bleed Risk Considerations

Consider a patient's bleed risk when evaluating for anticoagulation therapy, and minimize bleed risk whenever possible.

Select all that apply

HAS-BLED **SCORE: 1**

- ☒ Hypertension
- ☐ Abnormal Renal Function
- ☐ Abnormal Liver Function
- ☐ Stroke/TIA/TE
- ☐ History of Major Bleeding

Verizon 12:18 PM 37%

Calculate Risk **Review Therapy**

Stroke Risk **2** CHA₂DS₂-VASc High Risk

Renal Function **1** SCr mg/dL **79.5** CrCl mL/min

- ☒ Hypertension
- ☐ Abnormal Renal Function
- ☐ Abnormal Liver Function
- ☐ Stroke/TIA/TE
- ☐ History of Major Bleeding
- ☐ History of Labile INR
- ☐ Age > 65 yrs
- ☐ Current "excess" of Alcohol
- ☐ Currently taking antiplatelet drugs or NSAIDs

Verizon 12:35 PM 33%

Calculate Risk **Review Therapy**

Stroke Risk **2** CHA₂DS₂-VASc High risk

Renal Function **1** SCr mg/dL **79.5** CrCl mL/min

Concomitant Medications

☐ Aspirin (any dose)

☐ P2Y12 Inhibitors ⓘ

☐ NSAIDs

☐ Other antiplatelets ⓘ

Review Therapy ↻

AMERICAN COLLEGE of CARDIOLOGY AnticoagEvaluator

Verizon 12:35 PM 33%

Calculate Risk **Review Therapy**

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Review Therapy ↻

AMERICAN COLLEGE of CARDIOLOGY AnticoagEvaluator

App Store LTE 1:34 PM 59%

Calculate Risk Review Therapy

2 CHA₂DS₂-VASc High risk 1 SCr mg/dL 79.5 CrCl mL/min

Review Therapy

1 Consider Therapy
Guidance ⓘ

Oral anticoagulation therapy recommended due to high stroke risk

2 Select Therapy Option

Please select ▼

Email Results ➔

App Store LTE 1:34 PM 59%

Calculate Risk Review Therapy

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Email Results ➔

App Store LTE 1:34 PM 59%

Calculate Risk Review Therapy


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Review Therapy

1 Consider Therapy
Guidance ⓘ
Oral anticoagulation therapy recommended due to high stroke risk

2 Select Therapy Option
Please select

Email Results



App Store LTE 1:36 PM 58%

Oral anticoagulation therapy recommended due to high stroke risk

2 Select Therapy Option
Please select

Email Results

Calculate Risk

Done

Dabigatran
Edoxaban
Rivaroxaban
Warfarin

App Store LTE 1:36 PM 58%

Oral anticoagulation therapy recommended due to high stroke risk

2 Select Therapy Option

Please select ▼

Email Results +

+ Calculate Risk


^ v Done

Dabigatran

Edoxaban

Rivaroxaban

Warfarin



App Store LTE 1:37 PM 58%

Oral anticoagulation therapy recommended due to high stroke risk

2 Select Therapy Option

Warfarin ▼

3 Evaluate Therapy

Standard Initial dose 2-5 mg
RID. Individualize and

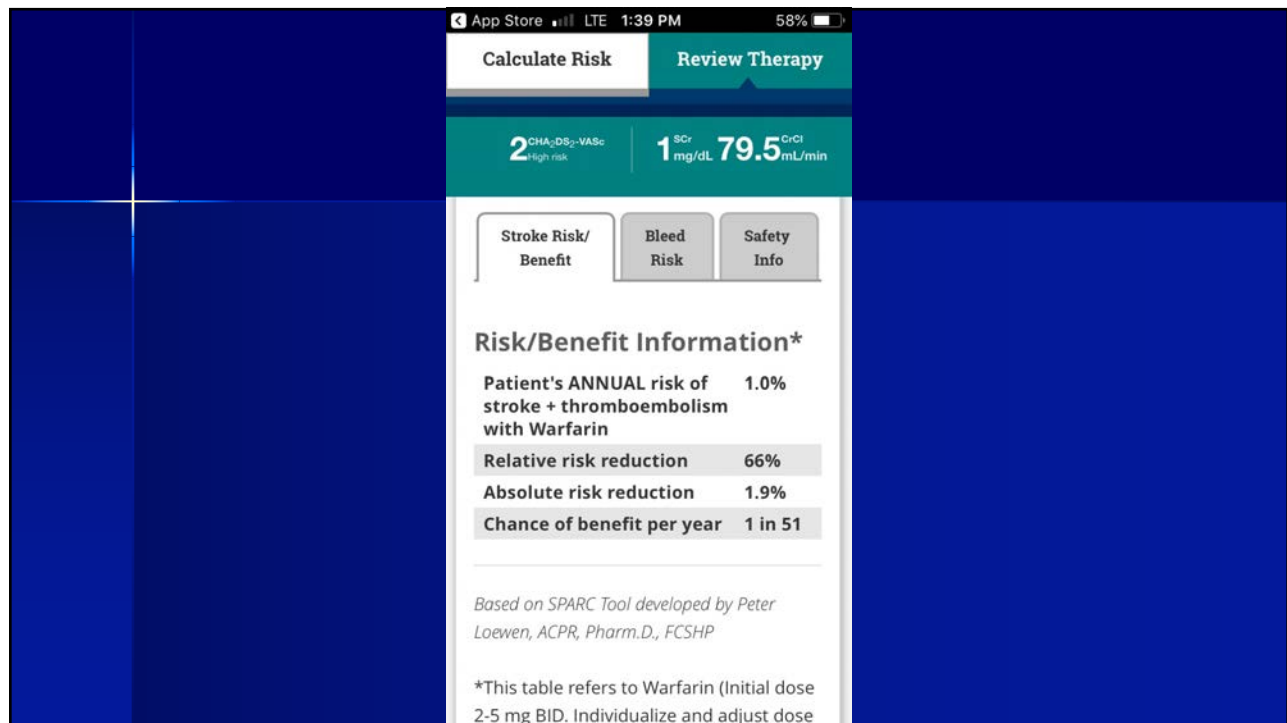
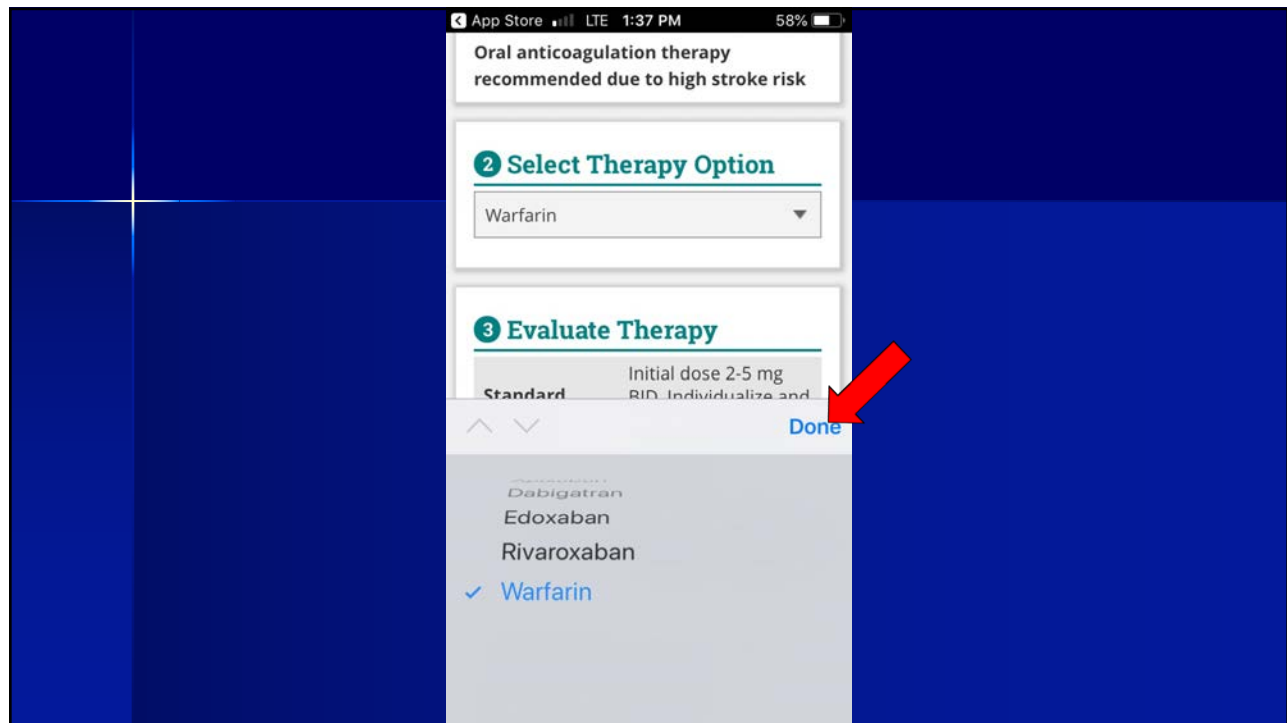
^ v Done

Dabigatran

Edoxaban

Rivaroxaban

✓ Warfarin



Cardiovascular Cases

Case 2 (cont.)

Which of the following is the most appropriate recommendation regarding anticoagulation prior to surgery?

- A. Discontinue warfarin now, as anticoagulation is not indicated in this patient.
- B. Discontinue warfarin four days prior to scheduled surgery. Check the INR daily. When the INR is < 2 , begin enoxaparin 1 mg/kg SQ BID and continue it until the morning of surgery.
- C. Discontinue warfarin four days prior to scheduled surgery. Check the INR the morning of scheduled surgery. Proceed with surgery if the INR is < 2 .
- D. Continue warfarin through the day before scheduled surgery. Withhold warfarin on the morning of surgery and initiate a continuous intravenous infusion of unfractionated heparin, which may then be discontinued on call to the operating room.

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Cardiovascular Cases

Case 2 (cont.)

Provided that the surgery was uneventful, which of the following is the most appropriate recommendation regarding anticoagulation postoperatively?

- A. Do not resume anticoagulation postoperatively, as it is not indicated in this patient.
- B. Resume warfarin as soon as the surgeon feels that the patient is at a low risk for bleeding. Discharge the patient when the INR is ≥ 2 .
- C. Begin enoxaparin 1 mg/kg SQ BID and resume warfarin 2 mg PO daily as soon as the surgeon feels that the patient is at a low risk for bleeding. Check the INR daily. Discontinue enoxaparin and discharge the patient when the INR is ≥ 2 .
- D. Begin enoxaparin 1 mg/kg SQ BID and resume warfarin 2 mg PO daily as soon as the surgeon feels that the patient is at a low risk for bleeding. Check the INR daily until the INR is ≥ 2 . Discontinue enoxaparin after 10 doses regardless of INR.

Cardiovascular Cases

Case 2 (cont.)

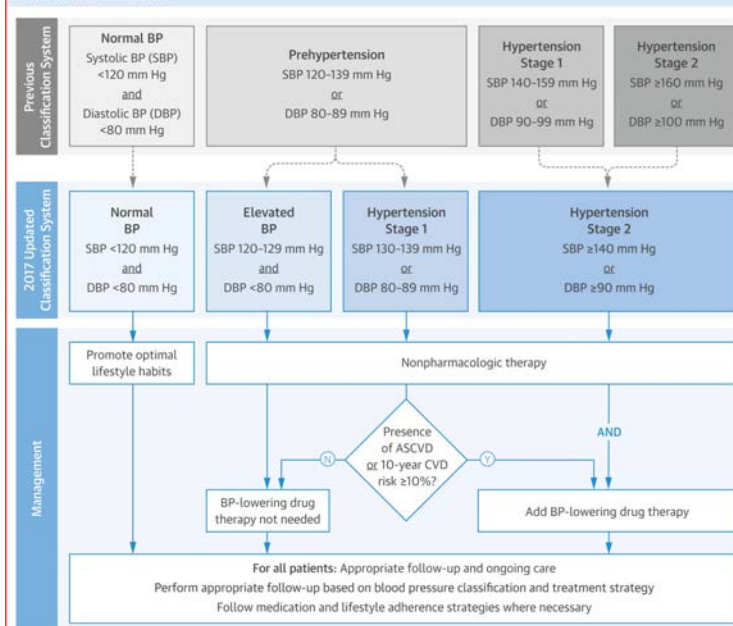
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- C. Begin enoxaparin 1 mg/kg SQ BID and resume warfarin 2 mg PO daily as soon as the surgeon feels that the patient is at a low risk for bleeding. Check the INR daily. Discontinue enoxaparin and discharge the patient when the INR is ≥ 2 .
- D. Begin enoxaparin 1 mg/kg SQ BID and resume warfarin 2 mg PO daily as soon as the surgeon feels that the patient is at a low risk for bleeding. Check the INR daily until the INR is ≥ 2 . Discontinue enoxaparin after 10 doses regardless of INR.

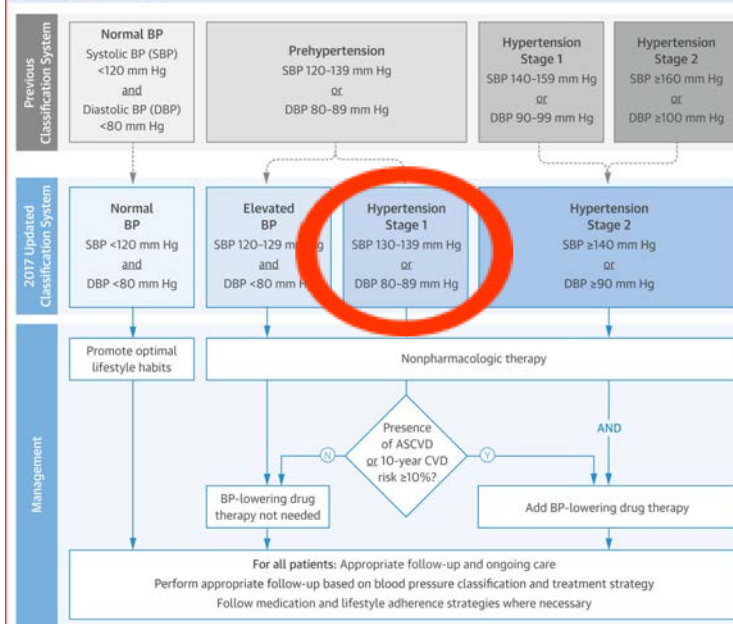
Cardiovascular Cases

Case 3

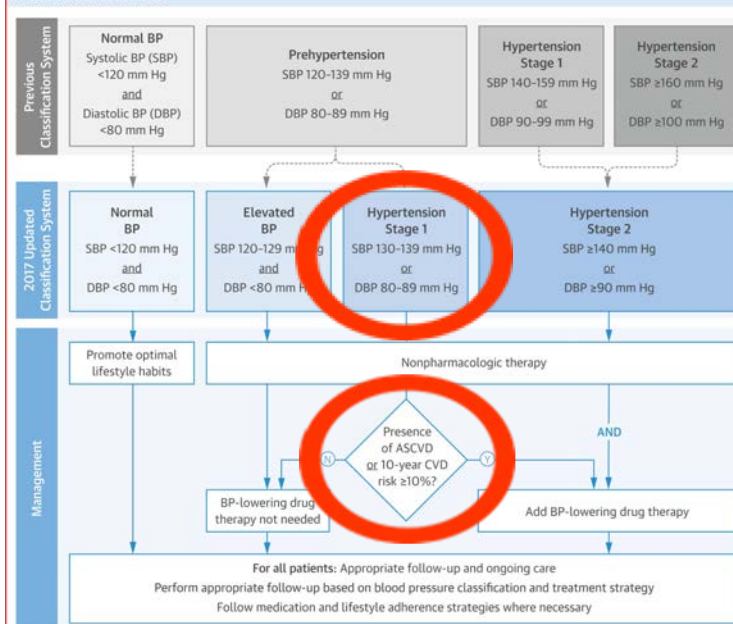
62-year-old African American male without clinical CVD presents for routine medical evaluation. He is a nonsmoker and he is not diabetic. He has a history of asthma, for which he takes montelukast 10 mg PO daily. His total cholesterol is 192 mg/dL, his HDL-cholesterol is 38 mg/dL, triglycerides are 180 mg/dL, and his LDL-cholesterol is 118 mg/dL. His blood pressure is 134/76 mmHg, averaged from two separate occasions. Does his blood pressure require pharmacologic treatment at this time?

CENTRAL ILLUSTRATION: 2017 Updated Classification and Management of High Blood Pressure in Adults


Whelton, P.K., et al. J Am Coll Cardiol. 10.1016/j.jacc.2017.11.006.

CENTRAL ILLUSTRATION: 2017 Updated Classification and Management of High Blood Pressure in Adults


Whelton, P.K., et al. J Am Coll Cardiol. 10.1016/j.jacc.2017.11.006.

CENTRAL ILLUSTRATION: 2017 Updated Classification and Management of High Blood Pressure in Adults


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App intended for primary prevention patients (without ASCVD) who have LDL-C < 190 mg/dL (4.921 mmol/L)

Current Age <input type="text"/> <small>Age must be between 40-79</small>	Sex <input type="radio"/> Male <input type="radio"/> Female	Race <input type="radio"/> White <input type="radio"/> African American <input type="radio"/> Other
Systolic Blood Pressure (mm Hg) <input type="text"/> <small>Value must be between 90-200</small>	Diastolic Blood Pressure (mm Hg) <input type="text"/> <small>Value must be between 60-130</small>	
Total Cholesterol (mg/dL) <input type="text"/> <small>Value must be between 130 - 320</small>	HDL Cholesterol (mg/dL) <input type="text"/> <small>Value must be between 20 - 100</small>	LDL Cholesterol (mg/dL) <input type="text"/> <small>Value must be between 30-300</small>
History of Diabetes? <input type="radio"/> Yes <input type="radio"/> No	Smoker: <input type="radio"/> Yes <input type="radio"/> Former <input type="radio"/> No	
On Hypertension Treatment? <input type="radio"/> Yes <input type="radio"/> No	On a Statin? <input type="radio"/> Yes <input type="radio"/> No	On Aspirin Therapy? <input type="radio"/> Yes <input type="radio"/> No
Do you want to refine current risk estimation using data from a previous visit? <input type="radio"/> Yes <input type="radio"/> No		

10.3% Current 10-Year ASCVD Risk		
Calculator only provides lifetime risk estimates for individuals 40 to 59 years of age. Optimal ASCVD Risk: 6.2%		
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Current Age 62 <small>▲ Lifetime Risk Calculator only provides lifetime risk estimates for individuals 40 to 59 years of age.</small> <small>Age must be between 40-79</small>	Sex <input checked="" type="radio"/> Male <input type="radio"/> Female	Race <input type="radio"/> White <input checked="" type="radio"/> African American <input type="radio"/> Other
Systolic Blood Pressure (mm Hg) 134 <small>Value must be between 90-200</small>	Diastolic Blood Pressure (mm Hg) <input type="text"/> <small>Value must be between 60-130</small>	
Total Cholesterol (mg/dL) 192 <small>Value must be between 130 - 320</small>	HDL Cholesterol (mg/dL) 38 <small>Value must be between 20 - 100</small>	LDL Cholesterol (mg/dL) <input type="text"/> <small>Value must be between 30-300</small>
History of Diabetes? <input type="radio"/> Yes <input checked="" type="radio"/> No	Smoker: <input type="radio"/> Yes <input type="radio"/> Former <input checked="" type="radio"/> No	
On Hypertension Treatment? <input type="radio"/> Yes <input checked="" type="radio"/> No	On a Statin? <input type="radio"/> Yes <input type="radio"/> No	On Aspirin Therapy? <input type="radio"/> Yes <input type="radio"/> No
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Current Age ⓘ *
62
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Sex ⓘ *
☒ Male ☐ Female

Race ⓘ *
☐ White ☒ African American ☐ Other

Systolic Blood Pressure (mm Hg) ⓘ *
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Value must be between 90-200

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Total Cholesterol (mg/dL) ⓘ *
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Value must be between 30-300

History of Diabetes? ⓘ *
☐ Yes ☒ No

Smoker: ⓘ *
☐ Yes ☐ Former ☒ No

On Hypertension Treatment? ⓘ *
☐ Yes ☒ No

On a Statin? ⓘ *
☐ Yes ☐ No

On Aspirin Therapy? ⓘ *
☐ Yes ☐ No

Do you want to refine current risk estimation using data from a previous visit? ⓘ *
☐ Yes ☒ No

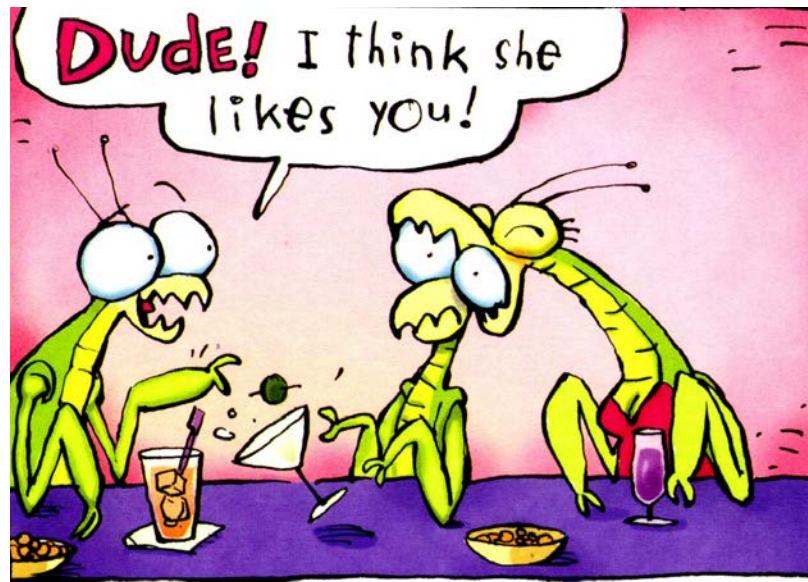
Yes!

Cardiovascular Cases

Summary

1. **Patients with undiagnosed cardiovascular disease are commonly encountered in the primary care setting.**
2. **Web-based resources are available that can be very useful to health care providers in managing patients with cardiovascular disease.**
3. **Never be too proud to ask for help.**

<https://www.youtube.com/watch?v=NAInRHicgWs>



Praying mantis singles Bars.