

Audience Response:

ttpoll.com

Session ID: ndafp

My favorite runs can be found . . .

A. Off Swift Current . . . I am a "Mr. K" kind of a skier

B. Off of Challenger — blacks/double blacks all day for me!

C. Ram Charger — the bluer the better

D. Moonlight - I like to cruise by the mansions

3

Objectives

Distinguish between preoperative assessment and preoperative clearance
Define the goals of a thorough preoperative assessment
See Define risk based on type of surgery
Recognize which testing is appropriate based on history and physical

Outline

Preoperative Evaluation

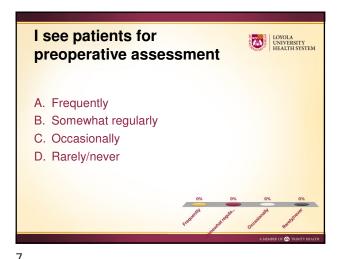
Defining goals
Evidence
How to choose the right tests

Risks of anesthesia
Surgical Risk
Cardiac Testing
A look at risk calculation and an algorithmic approach
Lab tests

Pulmonary evaluation
A closer look at specific lab tests

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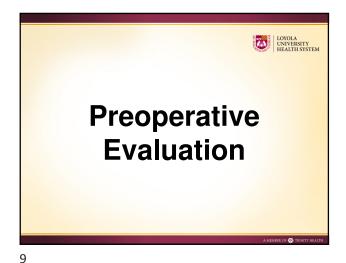




72-year-old male is being evaluated for an inguinal herniorrhaphy. He has OA, but jogs 3-5 miles several times per week. No meds and NKDA. Which preoperative tests are necessary?

A. CBC
B. PT/PTT
C. ECG
D. All of the above
E. None of the above

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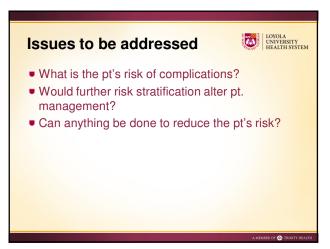


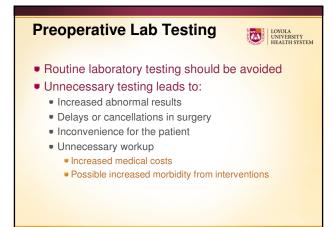
Goal of Preop Evaluation

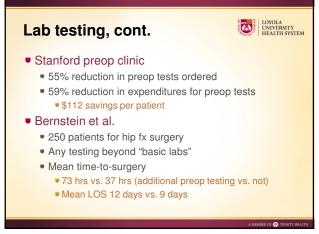
■ Evaluate pt readiness
■ Optimize health
■ Reduce morbidity and length of stay
■ Return pt to normal functioning

11 12









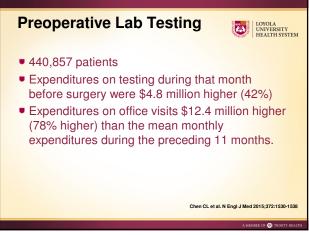
Routine ECG

No more predictive than H&P and patient's activity level (van Klei, et al.)
Assessed 2,400 pts over the age of 50

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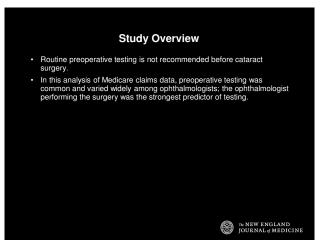
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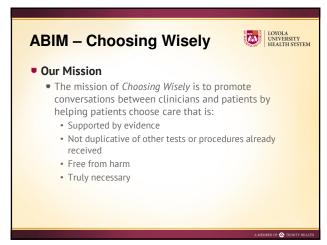


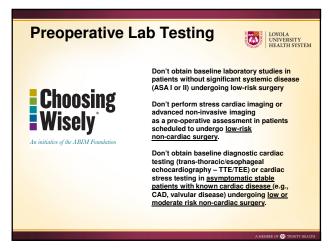


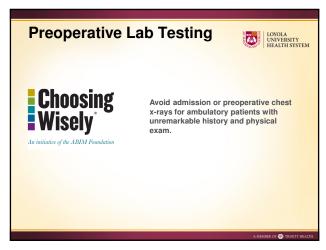
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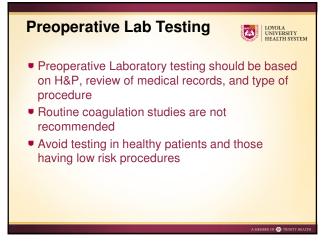








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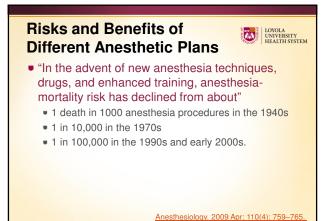




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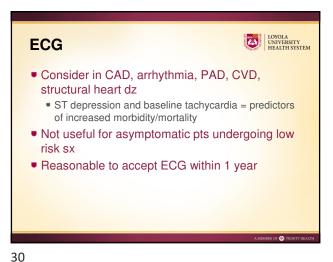


incommentate surgical insk (1-5/s)
Carotid symptomatic (CEA or CAS)
Carotid symptomatic (CEA)
Carotid symptomatic (CEA)
Endovacular aortic aneuryom repair
Head or neck surgery
Intraperitoreast piemedomy, hatal hiernia
repair, cholesystectiony
Intrathoracic non-major
Neurological or orthopaedic major (hip and
spine surgery)
Peripheal arerial angioplasty
Renal fareoplants
Unological or gynaecological major
Unological or gynaecological major · Adrenal resection Adres and major vascular surgery
 Carotid symptomatic (CAS)
 Dissocient-procreate surgery
 Liver resection, list dust surgery
 Ossophagectory
 Ossophagectory
 Open lower limb resecularization for acut isothaemia or amputation
 Presumonectomy (VATS or open surgery)
 Pulmonary or liver transplant
 Repair of perforated bowel
 Total systections Dental Endocrine: thyroid Endocrine: thyroid
 Eye
 Gynaecological: mino
 Orthopaedic minor (i
 Reconstructive
 Superficial surgery
 Urological minor: (tra of the prostate) VATS minor lung resection

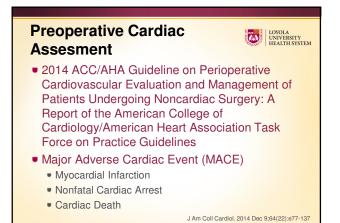
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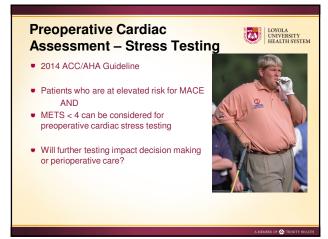
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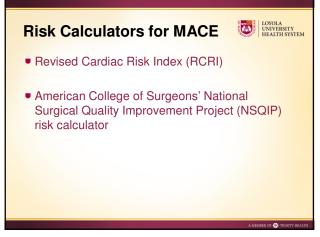








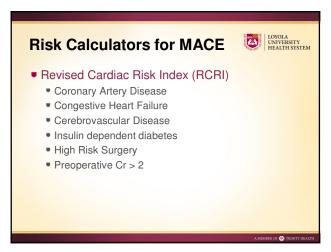


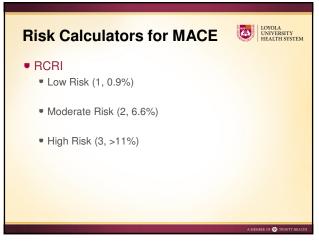


Risk Calculators for MACE

■ RCRI
■ In use since 1999
■ Externally validated
■ Only estimates cardiac risk
■ Only 6 criteria
■ Most common risk calculator used currently

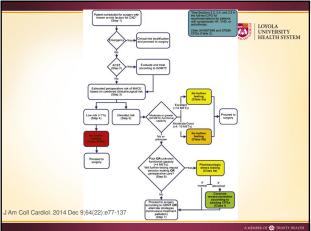
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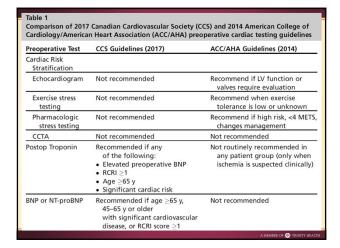


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Stress Testing	UNIVERSITY HEALTH SYSTEM
 Dobutamine echocardiography – ar best positive and negative predictive (Mantha, et. al) 	0

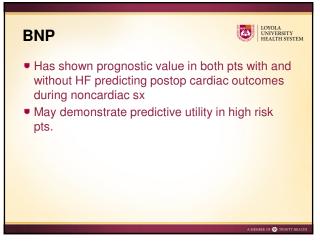
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Duke Activity Status Index Weight (in METs) Activity Can you.. 1. Take care of yourself, that is, eating, dressing, bathing, or using the toilet? 2.75 2. Walk indoors, such as around your house? 1.75 3. Walk a block or 2 on level ground? 2.75 4. Climb a flight of stairs or walk up a hill? 5.50 5. Run a short distance? 8.00 6. Do light work around the house like dusting or washing dishes? 2.70 7. Do moderate work around the house like vacuuming, sweeping floors, or 3.50 carrying groceries? 8. Do heavy work around the house like scrubbing floors or lifting or moving 8.00 heavy furniture? 9. Do yardwork like raking leaves, weeding, or pushing a power mower? 4.50 10. Have sexual relations? 5.25 11. Participate in moderate recreational activities like golf, bowling, dancing, 6.00 doubles tennis, or throwing a baseball or football? 12. Participate in strenuous sports like swimming, singles tennis, football, basketball, or skiing? 7.50



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41 42





A 71 year-old male presents to the preoperative clinic in preparation for a left total hip replacement. Hx of DM 2, HTN, obesity, arthritis, and GERD. The patient lives on a 1st story apartment and rarely does any physical activity due to arthritis.

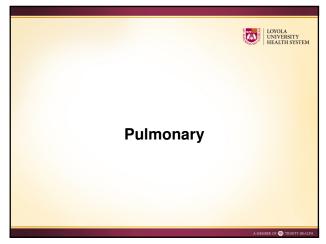
A. Basic labs only (CBC, BMP)

B. Basic labs + ECG

C. Labs, ECG, Echo

D. Labs, ECG, Stress testing

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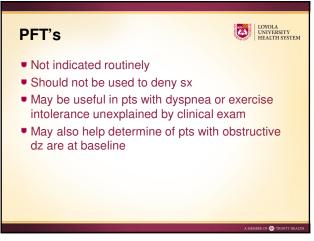
Chest X-ray

Routine CXR not indicated

New or unstable cardiopulmonary sx's

May require intervention or delay sx

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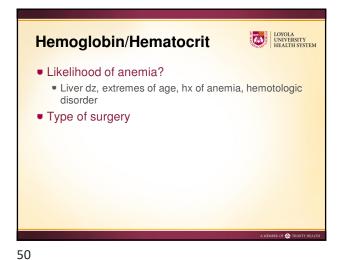


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Coagulation Studies

On anticoagulants?
Hx of coagulopathy?
Liver dz/renal dz?

Urinalysis

■ Not recommended routinely (ASA Task Force)

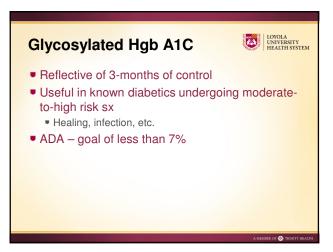
■ Certain Urologic procedures

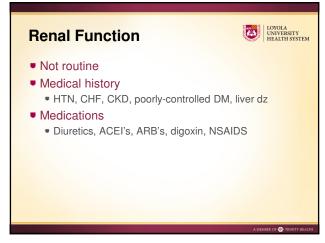
■ Signs of infection

■ Prosthesis implantation

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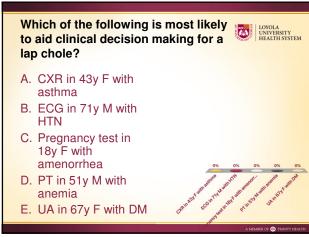




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Parvall, J. N., Gregorevic, K. J., Story, D. A., Hubbard, R. E., & Lim, W. K. (2018). Frailly indexes in perioperative and critical care: a systematic review. Archives of genotrology and generative, 79, 88-96.

■ Edwards, A. F., & Forset, D. J. (2018). Preoperative leating Jacob Properative leating Jacob Properative leating Jacob Properative Leating Properative leating period properative setting before control of the part of the properative leating Jacob Properative leating period properative setting leating and Cardiac Pilos Assessment of medical. Properative leating period properative Services and Cardiac Pilos Assessment of medical. Properative Services (Properative Services) period (Properative Properative Services) period (Properative Services) period (Properative Services) period

