



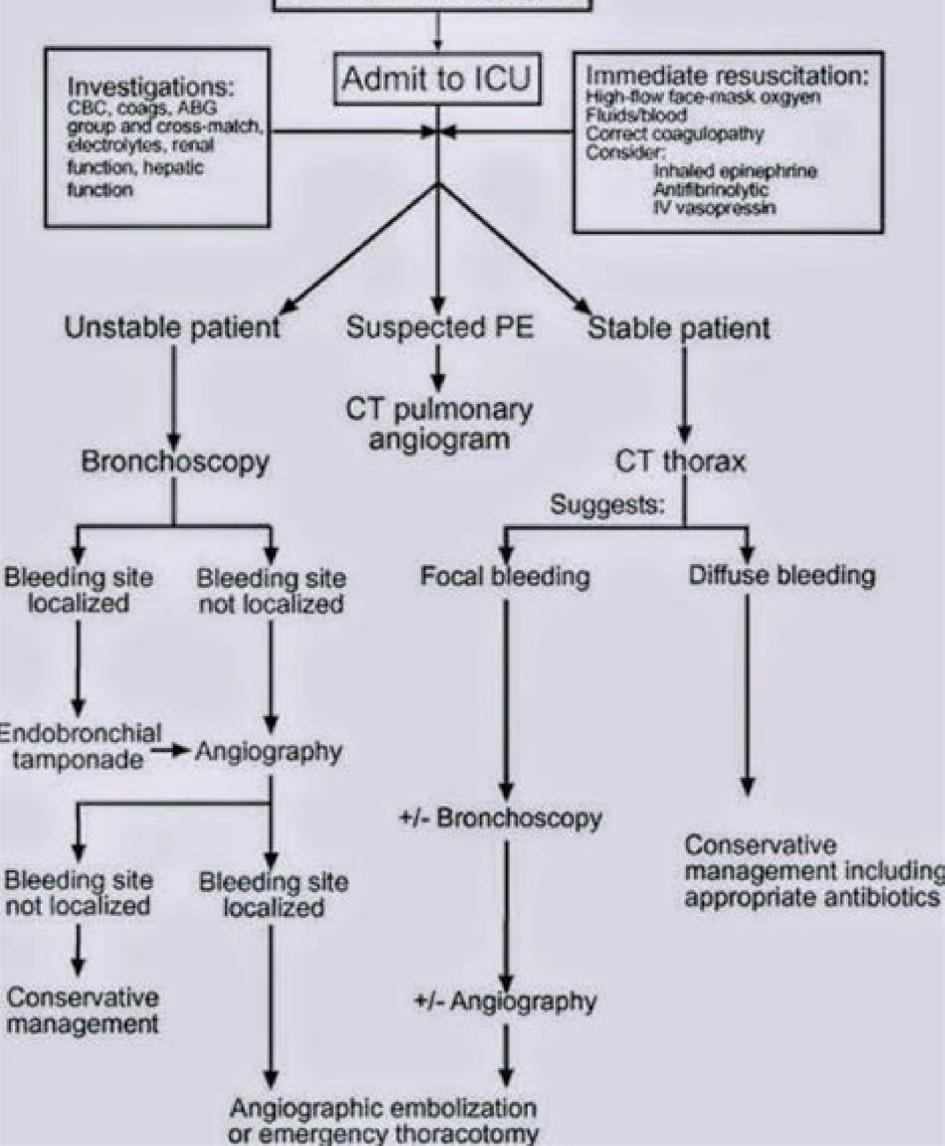
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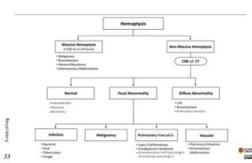
Massive hemoptysis



TAKE-HOME MESSAGES

- 1 Clinical alert**
 - Fever, organ enlargements, skin rash, adenopathies
 - Cytopenias, ↑ liver enzymes, acute phase reactants
- 2 Etiology**
 - No clear genetic basis in adults
 - Association: infections, autoimmune diseases, neoplasia
- 3 Differential diagnosis**
 - Difficult (Still's disease, infection, lymphoma)
- 4 Treatment**
 - Complex (corticoids, chemotherapy, immunosupresors, antimicrobial therapy)
- 5 Prognosis**
 - Mortality = 40% despite treatment (higher in neoplasia and transplantation, lower in SAD and viral etiology)

Hemoptysis



MASSIVE HEMOPTYSIS
 Presenting Features, Associated with Death
 Hemoptysis: coughing up blood from the lungs.
 Massive Hemoptysis: coughing up more than 100-600 mL of blood in 24 hours.
 Hemoptysis is a symptom, not a disease. It can be a sign of a serious condition.
 Causes of massive hemoptysis include:
 - Lung cancer
 - Bronchiectasis
 - Vasculitis
 - Infection
 - Neoplasia
 - Systemic disease

MASSIVE HEMOPTYSIS by Nick Mark MD, Mark Remy MD

DEFINITIONS
 Hemoptysis: coughing up blood from the lungs.
 Massive Hemoptysis: coughing up more than 100-600 mL of blood in 24 hours.
 Hemoptysis is a symptom, not a disease. It can be a sign of a serious condition.

APPROACH
 Hemoptysis is a symptom, not a disease. It can be a sign of a serious condition. Approach to massive hemoptysis includes:
 - History and physical examination
 - Laboratory tests (CBC, coagulation studies, renal and liver function tests)
 - Imaging (Chest X-ray, CT scan, bronchoscopy)

WORKUP
 CBC, coagulation studies, renal and liver function tests, chest X-ray, CT scan, bronchoscopy.

GENERAL MANAGEMENT
 Supportive care, oxygen, fluids, blood products, correction of coagulopathy.

DEFINITIVE TREATMENT
 Bronchoscopy, angiography, embolization, surgery.

PROGNOSIS
 Mortality is high, up to 40%.

They both require tissue biopsy either by bronchoscopy, radiologically guided needle biopsy, or thoracoscopy to confirm diagnosis. When considering malignancy review smoking history, asbestos exposure, recurrent pneumonia, unintentional weight loss, family history, and more chronic hemoptysis. 25. Infective endocarditis is defined by modified Duke criteria. In younger patients, the differential diagnosis should be expanded to include cystic fibrosis and idiopathic pulmonary hemosiderosis. Players have to be age 21 or older, just as they would have to be in the U.S. In addition to featuring a variety of creative slot games, such as themes with ancient gods and popular characters, the site also offers poker and table games. II. Lung injury, whether trauma or inhalant in origin, can be diagnosed by history and clinical examination. Granulomatosis with polyangiitis, whether the ANCA is positive or negative, requires a tissue diagnosis of either lung or renal lesions, but not both. CTA of the arterial phase examines abnormalities in systemic arterial contrast, e.g., aortic dissection, aortic fistula, while venous phase examines abnormalities in pulmonary arterial contrast, e.g., pulmonary embolism. You'll also need your email address as well as a unique username and password that you'll use to access all areas of the site when you sign in. What You Get With a Free Pogo Account It's not necessary to pay to use the site. Search for hidden objects, play online versions of some of your favorite board games or give your brain a workout with puzzle games. In order to avoid this pitfall, an accurate history must be obtained, but this may be difficult with the panic that frank blood can cause in the patient, family, and ancillary providers. Photo Courtesy: @mbphotography/Unsplash Love playing slots, but you can't just head to a casino whenever you want? (This article was also written in the context of review lung anatomy and ways to localize the source of the bleeding in a patient presenting with hemoptysis. No sponsor or advertiser has participated in, approved or paid for the content provided by Decision Support in Medicine LLC. The site offers more than 400 online slots to add to casino games like baccarat, blackjack and poker. The differential diagnosis also includes inflammatory conditions (e.g., chronic bronchitis or bronchiectasis), vasculitis (particularly granulomatosis with polyangiitis [formerly known as Wegener's granulomatosis]), and autoimmune diseases (e.g., Goodpasture syndrome and systemic lupus erythematosus). Management of hemoptysis. With low to intermediate and systemic probability, a negative D-dimer rules out pulmonary embolism as well as thoracic aorta dissection. Urine toxicology may be of benefit in suspected "crack lung" if patient is unable to provide history. Additional diagnostic testing, as stated above, will usually, but not always, include CT of the chest. If vasculitis is suspected (particularly when considering granulomatosis with polyangiitis), be sure to pursue urinary symptoms, particularly hematuria: "Has your urine changed color or looked bloody?" If systemic lupus erythematosus is suspected, history of myalgia, fatigue, fever, rash, and weight-change may be present. D. The natural history of the sputum is important to understand. It also breaks down the different imaging modalities and emphasizes which modality may be best to identify the exact location of the bleed. You can also take part in daily challenges, though you can't participate in the premium challenges offered on the site. Photo Courtesy: Slots.lv Additionally, Slots.lv often provides welcome bonuses and other promotions to boost players' earnings while providing a trusted entertainment option. All payouts are limited to a minimum of \$150 and a maximum of \$2,500. BetOnline Casino This online casino is headquartered in Panama, where online wagering is allowed, but the site still cautions everyone to abide by their local governments' rules and regulations. In addition to a live virtual casino, which has all the card and table games you would expect, it offers more than 50 creative slot games with payout options that put real money into your hands. Bronchiectasis is diagnosed by high resolution computed tomography (CT) and pulmonary function testing. To play as a guest, there's no need to sign up. Prothrombin time/international normalized ration (PT/INR) Partial thromboplastin time (PTT) Chest X-ray, preferably posterior-anterior and lateral views. Diagn Interv Radiol. From the beginning, the website has been free, making its money off of advertising. 1. pp. Purulent (i.e., yellow or green) sputum, either preceding or associated with hemoptysis, is more indicative of infectious etiology. (This review focuses on the management of patients with massive hemoptysis. Thoracic Surgery Clinics. Systemic lupus erythematosus has specific diagnostic criteria written by the American College of Rheumatology. Always remember to elicit a history of smoking or inhalation of other (acute) caustic and (remote) carcinogenic substances. For a monthly fee, Club Pogo offers players numerous perks, including the ability to play without commercials and advertisements. Management while the Diagnostic Process is Proceeding A. Pulmonary hypertension, mitral stenosis, and left systolic heart failure are characterized by specific echocardiographic criteria. Consider a "Pneumonia Panel" which includes serum, urine, and nasal wash antigen and/or serology testing for Legionella, Pneumococcus, Mycoplasma, and viral studies. It provides a clear outline to approaching such patients in the clinical setting.) Larici, AR, Franchi, P, Occhipinti, M, Contegiacomo, A. For that reason, it's important to do your research to make sure non-U.S. online slots with real cash won and lost are legal for you to play before checking them out. El Royale Online Casino The El Royale Casino accepts U.S. players and allows them to play for real money after they complete the registration process. Other possibilities include Ethereum, Ripple, person-to-person transactions and even checks sent to you by courier. Describe a diagnostic approach/method to the patient with this problem First, remain calm. If considering septic emboli, elicit a history of intravenous drug use or recent vascular access by central line, pacemaker, or defibrillator. Physical Examination maneuvers that are likely to be useful in diagnosing the cause of this problem. If administration of an antitussive and correction of coagulopathy is enough to halt or slow the hemoptysis, do this first and then re-approach the patient. Laboratory, radiographic and other tests that are likely to be useful in diagnosing the cause of this problem. It is considered a type of chronic obstructive pulmonary disease. If you suspect tuberculosis, airborne isolation should be ordered empirically to protect other patients and providers. C. Strongly consider PA and lateral views for chest radiography rather than simply portable films for greater diagnostic yield. Tuberculosis can be ruled out when three consecutive acid fast bacilli cultures are negative. Pulmonary function testing may be useful to diagnose obstructive or restrictive lung disease that could cause hemoptysis. To ensure you have the most fun and get paid some real cash doing it, you need to figure out your best options — and make sure those options are legal in your area. Bitcoin is one of the fastest ways to get paid — typically within 24 hours. To sign up for Club Pogo, you'll need to provide your date of birth and the country where you live. Photo Courtesy: El Royale Online Casino To receive your winnings, you choose from four payout options: Visa, Mastercard, bank wire or Bitcoin. Photo Courtesy: PhotoAttractive/E+/Getty Images Membership allows you to play premium games, take part in premium challenges and play in full-screen mode. Once you sign up, you can use one of the multiple deposit options to start playing with real cash. To get you started, we've put together a quick guide with basic details on some of the best online slots you can play to make some real money. Are Online Slots Legal? The legality of online gambling is murky at best, thanks in large part to the Unlawful Internet Gambling Enforcement Act of 2006 (UIGEA). Common Pitfalls and Side-Effects of Management of this Clinical Problem Focusing on the blood that the patient is expectorating rather than the cause of the hemoptysis is the primary pitfall of management. Other payout options include wire transfer, cryptocurrency, person-to-person transfers and a few other methods. Wild Casino Wild Casino has been dedicated to providing dynamic gaming experiences since 1991. Routine diagnostic work-up includes: Complete blood count (CBC) Comprehensive metabolic panel (CMP) - elevated BUN may be indicative of consumed blood; abnormal liver function tests may be indicative of coagulopathy secondary to liver disease; decreased total protein and albumin or hypercalcemia may be indicative of pulmonary malignancy. You won't experience ads when you play as a member, and you can take advantage of members-only discounts. The authors present management algorithms for both massive and non-massive hemoptysis.) Copyright © 2017, 2013 Decision Support in Medicine, LLC. For infection consider asking: "Have you had any fever, chills, shakes, night sweats, malaise, fatigue, or decreased appetite?" For tuberculosis, questions regarding immune suppression, HIV exposure, foreign travel, or incarceration will be important. Continuous positive pressure ventilation may, theoretically, play a role by applying positive pressure (i.e., tamponade) to allow clotting to occur. Thus, repeated bedside assessment to gauge whether the hemoptysis is improving or worsening is important. Payments are made quickly, typically within four to 10 business days, depending on the payment method you choose. Thorough examination of the oropharynx and nasopharynx with a strong light source and tongue blade may yield diagnostic clues for vasculitis and help to confirm the source of bleeding as being oropharyngeal rather than pulmonary. Bitcoin and Bitcoin Cash are popular options that generally process quickly. The Licensed Content is the property of and copyrighted by DSM. Lung injury, whether it be external from pulmonary contusion, status post-biopsy, or inhalant injury from an aspirated foreign body or cocaine (i.e., "crack lung") can also lead to hemoptysis. Further diagnostic testing will also be driven by clinical suspicion. You'll find games you're familiar with, like Scrabble, Yahtzee, Risk and Monopoly, and games that are unique to the site. Patients requiring intubation may need more urgent bronchoscopy or arteriography to

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