



Physioex 9.0 exercise 7 activity 2

Title: Exercise 7: Respiratory Mechanics: Activity 2: Comparative Spirometry Lab ReportPre-Laboratory Quiz Results With a score of 100% by answered around: d. 500 ml.2. Which respiratory process is most disturbed by emaciation of the lungs? You answered correctly: c. expiration3. During an asthma attackYou correctly answered: b. inspiration and expiration and expiration are disturbed.4. Which respiratory variable increases the most with moderate aerobic exercise? You answered correctly: a. tidal volume5. Inhaler medications for an asthma patient are designed to to correctly answered: b. dilate the patient bronchioles.03/11/14 page 103/11/14 page 103/11/14 page 2Experiment ResultsPredict Question: Predict question 1: With emphysema, there is a significant loss of elastic recoil in lung tissue and noticeable, exhausting muscle stress is required for each expiration. In fact, inspiration becomes easier because the lungs are now too compatible. What lung values change (from normal patient values) in a spirogram when a patient with emedema of the lungs is selected (select everything that applies)? Your answer : b. ERV d. RV g. FEV1 h. FEV1 (%) Predict question 2: During an acute asthma attack, respiratory resistance is significantly increased by (1) increased secretions of the colon bridesmaid and (2) spasms of smooth airway muscles. What lung values change (from the values of a normal patient) in a spirogram when a patient suffering from acute asthma attack is selected (choose everything that applies)? Your answer : a. TV d. RV e. FVC g. FEV1 h. FEV1 (%) Predict Question 3: When an acute asthma attack occurs, many people seek relief from increased respiratory resistance using an inhaler. This device atomizes drugs and induces bronchiol dilation (although it may also contain ananti-inflammatory agent). What lung values will change back to the values of the normal patient in the spirogram after the asthma patient uses an inhaler (select everything that applies)? Your answer : a. TV b. ERV c. IRV d. RV e. FVC g. FEV1 h. FEV1 (%) Predict Question 4: During moderate aerobic exercise, the human body changes its breathing cycle to meet the extrememetabolic requirements of the body. Which lung value changes more during moderate exercise, ERV or IRV? Your answere to ERV Stop & amp; Think Questions; When obstructive pulmonary disease develops, what happened to FEV1 (%)? You answered correctly: b. It decreases. Compared to a normal patient, what happened to FEV1 in this patient? You answered correctly: b. Decreased. Compared to a normal patient, what happened to FVC in this patient? You are correct B. That's down. Compared to FVC in this patient? You are correctly: b. Decreased.03/11/14 page 3Which values in this spirogram did not return to normal patient values (select everything that applies)? You answered correctly: c. IRV d. RV e. FVC g. FEV1 For both types of exercises, tidal volumes and breathing increase more during moderate exercise? (Specify the percentage by which each value has softened.) Správně jste odpověděl: b. přílivová hlasitostExperiment data:Pacient typ TV ERV IRV FVC TLC FEV1 (%)Těžké cvičení 3650 750 600 1000 ND ND NDModerate Cvičení 1875 1125 2000 1000 ND NDASthma Attack Plus Inhalátor 500 1500 2800 1200 4800 6000 3840 80%Akutní astmatický záchvat 300 750 2700 2250 3750 6000 1500 40%Emfyzéma 500 750 2000 2750 3250 6000 1625 50%Normální 500 1500 3000 1000 5000 6000 4000 80%03/11/14 strana 403/11/14 strana 503/11/14 strana 603/11/14 strana 603/11/14 strana 603/11/14 strana 603/11/14 strana 603/11/14 strana 503/11/14 strana 603/11/14 strana 603/11/1 correctly: c. FEV12. Calculate the ERV of an individual with the following respiratory volumes: TLC = 6000 ml, RV = 1200 ml, RV b. 5000 ml4. What is the largest volume for a normal patient? You answered correctly: a. IRV5. What happened to the caravan for a patient with emedema and an asthma patient? You answered correctly: a. IRV5. What happened to the caravan for a patient with emedema and an asthma patient? emedema patient was selected? Why have these values changed so much? How well do the results compare to your predictions? Your answer: My prediction of the mucous membrane.2. Which of these two parameters has changed more for a patient with emedema, FVC or FEV1? Your answer: FEV1 has changed significantly from 4000 to 1625.3. What lung values have changed (from normal patient values) in the spirogram when a patient experiencing an acute seizure was selected? Why have these values changed so much? How well do the results compare to yourprediction? Your answer: all values except the value that was EERV(b). The values changed due to increased changes in the mucous membrane.4. How is having an acute asthma attack and emoticonia cause twisting and pinch is completed. Unlike emphysema, elastic lung discharge is not reduced during an asthma attack.5. Describe the effect that the inhaler had on the asthma patient. Have all the spirogram readings returned to normal? Why do you think some values that will go back to normal are TV (a), ERV (b), TLC(f) and FEV-1%(h). Asthmamedication causes the release of smooth muscles, thereby increased above normal levels and therefore it is much easierlarge percentage of gases to be excreted in one second after application of the inhaler TV, ERV, TLC and FEV-1%(h). Asthmamedication causes the release of smooth muscles, thereby increased above normal levels and FEV1 slightly lowered below normal levels. Despite the flow allowing greater air movement, the patient is asthemic, since the lateral value never reaches normal.6. How big an increase in FEV of 1% from 40% to more than 80% of normal levels in order to significantly improve from medications.7. With moderate aerobic exercise that has changed more from normal breathing, ERV or IRV? How well does theresults compare to your predictions? Your answer: With moderate aerobic exercise ERV changes more than the IRV in the counter to normal levels. ERV is normally increased to 1125 mlkompare to 1500. IRV remains the same in 2000 during moderate exercise8. Compare breathing, most normal breathing, most normal adults breathe at a rate of 15 breaths per minute. With moderate exercise, breathing increases, but tidal volumes increase more. During heavy exercise both breathing and tidal volumes increase the maximum permissible levels. Page 2 Solved Ramonistry Exercise 7: Mechanics of Breathing Systems: Activity 2: Comparative Spirometry Lab Report Pre-Laboratory Quiz Results You scored 100% by answering 5 of 5 questions correctly. It is expected that the normal resting tidal volume will be around Correctly answered: d. 500 ml. Which respiratory process is most disturbed by emaciation and expiration and expiration are disturbed. Which respiratory variable increases the most with moderate aerobic exercise? Correctly you answered: a. Tidal volume Inhaler drugs for the patient with asthma are designed to correctly respond: b. dilate the patient's bronchioles. Experiment Results Predict Question 1: With emematoly, there is a significant loss of elastic recoil in lung tissue and noticeable, exhausting muscle exertion is required for everyone In fact, inspiration becomes easier because the lungs are now too compatible. What lung values change (from normal patient values) in the spirogram when a patient values)? Your answer : b. ERV d. RV g. FEV1 h. FEV1 (%) Predict question 2: During an acute asthma attack, respiratory resistance is significantly increased by (1) increased dense secretion of mucous membranes and (2) spasms of smooth airway muscles. What lung values change (from the values of a normal patient) in a spirogram when a patient suffering from an acute asthma attack is selected (choose everything that applies)? Your answer : a. TV d. RV e. FVC g. FEV1 h. FEV1 (%) Predict Question 3: When an acute asthma attack occurs, many people seek relief from increased respiratory resistance using an inhaler. This device atomizes drugs and induces bronchiol dilation (although it may also contain an anti-inflammatory agent). What lung values will change back to the values of the normal patient in the spirogram after the asthma patient uses an inhaler (select everything that applies)? Your answer : a. TV b. ERV c. IRV d. RV e. FVC g. FEV1 h. FEV1 (%) Predict Question 4: During moderate aerobic exercise, additional changes in breathing are necessary in order to meet the extreme metabolic requirements of the body. Which lung value changes more during moderate exercise, ERV or IRV? Your answered correctly: b. It is decreasing. Compared to a normal patient, what happened to FVC in this patient? You answered correctly: b. That's down. Compared to a normal patient, what happened to FEV1 in this patient? You answered correctly: b. That's down. Compared to a normal patient, what happened to FEV1 in this patient? You answered correctly: b. That's down. Compared to a normal patient and patient? You answered correctly: b. That's down. Compared to FU1 in this patient? You answered correctly: b. That's down. Compared to a normal patient? You answered correctly: b. That's down. Compared to a normal patient? That's down. Which values in this spirogram did not return to the values of the normal patient (select everything that applies)? You answered correctly: c. IRV d. RV e. FVC g. FEV1 For both types of exercises, tidal volumes and breathing rate were increased. Compared to normal values, does tidal volume or breathing increase more during moderate exercise? (Specify the percentage by which each value has changed.) You answered correctly: b. Tidal Volume Experiment Data: Patient type TV ERV IRV FVC TLC FEV1 FEV1 (%) Heavy exercise 3650 750 600 1000 ND 6000 ND ND Moderate exercise 1875 1125 2000 1000 ND 6000 ND Plus Inhaler 500 1200 4800 6000 3840 80% Acute asthma attack 300 750 2700 2250 3750 6000 1500 40% Emphysema 500 750 2000 2750 3250 6000 1625 50% Normal 500 1500 1000 5000 6000 4000 80% Post-Laboratory Quiz Results You scored 100% by answering 5 out of 5 questions correctly. Which of the following respiratory values represents reduced flow during obstructive pulmonary disease?) You answered correctly: c. FEV1 Calculate the ERV of an individual with the following respiratory volumes: TLC = 6000 ml, TV = 500 ml, ERV = 1200 ml, ERV = 1200 ml, RV = 2900 ml, TV = 500 ml, ERV = 1500 ml. You answered correctly: b. 5000 ml What is the largest volume for a normal patient? You correctly answered: a. IRV What happened to the RV for the patients. Reviews of the results of the sheet What lung values have changed (from the values of the normal patient) in the spirogram, when the patient with emedema of the lungs was selected? Why have these values changed so much? How well do the results compare to your predictions? Your answer: ERV, RV, FVC, FEV1, FEV1(%). I missed fvc. Due to the increasing secretion of mucous membranes, respiratory resistance increases. So the spinogram has changed. Which of these two parameters has changed more for a patient with emedema, FVC or FEV1? Your answer: From 4000 to 1625 in FEV1. What lung values changed (from normal patient values) in the spirogram when a patient who has an acute asthma attack was selected? Why have these values changed so much? How well do the results compare to your predictions? Your answer: Due to changes in mucous membranes, TV, ERV, FVC, FEV1, FEV1(%). I just missed the E.I. How is having an acute asthma attack and emophthalmonia. Elastic lung secretion is not reduced only in an asthma attack. Describe the effect that the inhaler had on the asthma patient. Have all the spirogram readings returned to normal? Why do you think some values haven't returned to normal? Why do you think some values haven't returned to normal? Smooth muscles in the bronchioles have not returned to normal. How big an increase in FEV1 do you think it is necessary for it to be considered a significantly better medication? Your answer: From 40% to 80%. With moderate aerobic exercise that has changed more from normal breathing, ERV or IRV? How well do the results compare to your predictions? Your answer: The EEV is changing more. 1125 ml from 1500 ml in ERVA, but in IRV the same with earlier. Compare breathing, moderate exercise, and heavy exercise. Your answer: As the intensity of exercise goes heavy, breathing increases. Increases.

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