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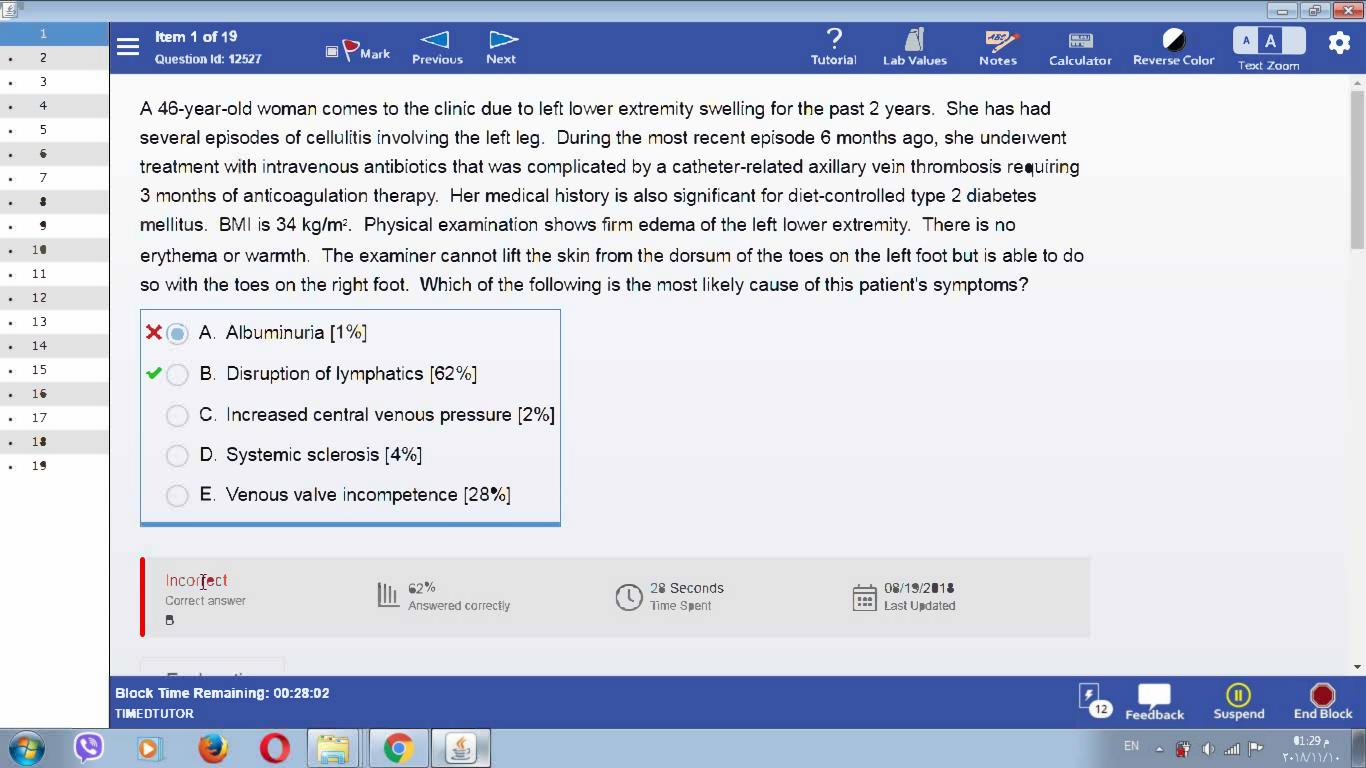


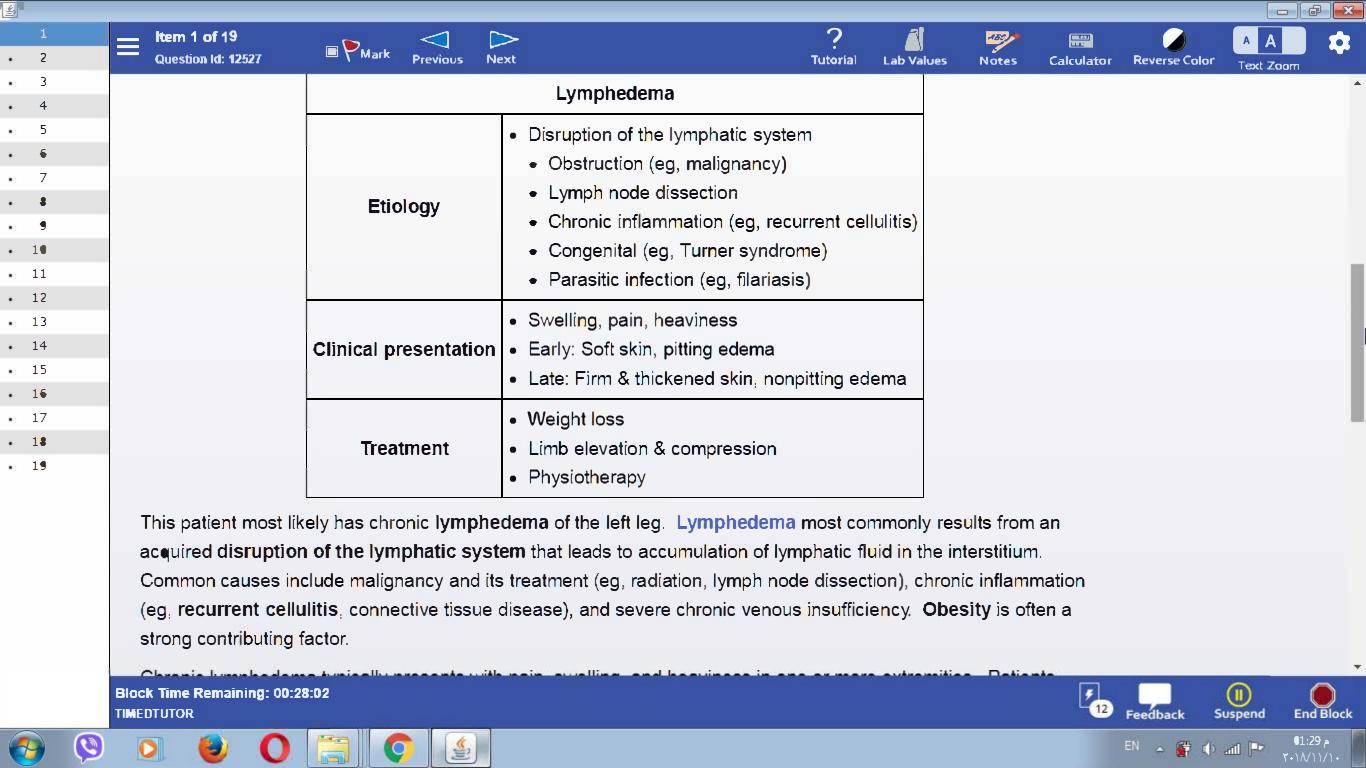


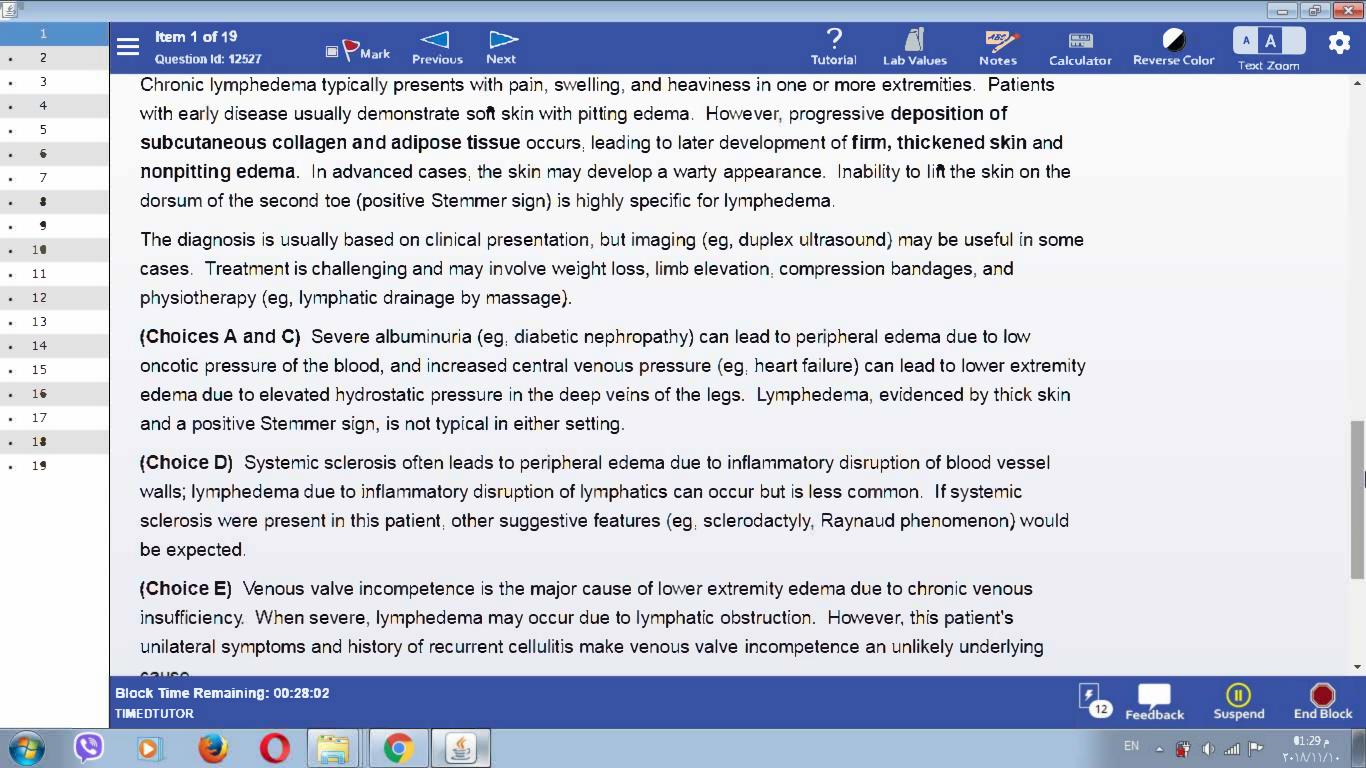


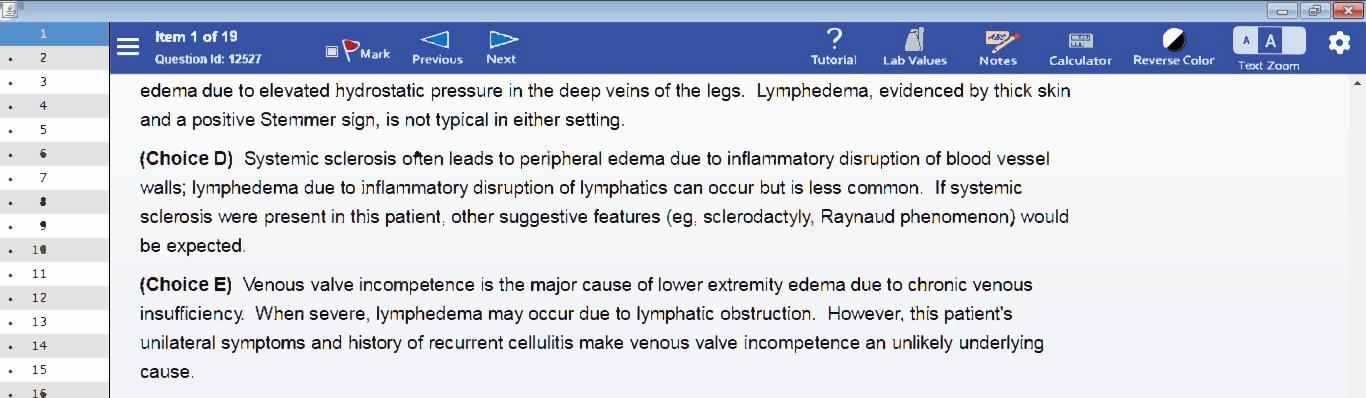












Educational objective:

Chronic lymphedema is most commonly caused by an acquired disruption of the lymphatic system (eg, chronic inflammation, malignancy) and typically presents with pain and swelling in one or more extremities. Patients usually have pitting edema that later progresses to nonpitting edema accompanied by firm, thickened skin.

References

Prevalence and characteristics of lymphoedema at a wound-care clinic.

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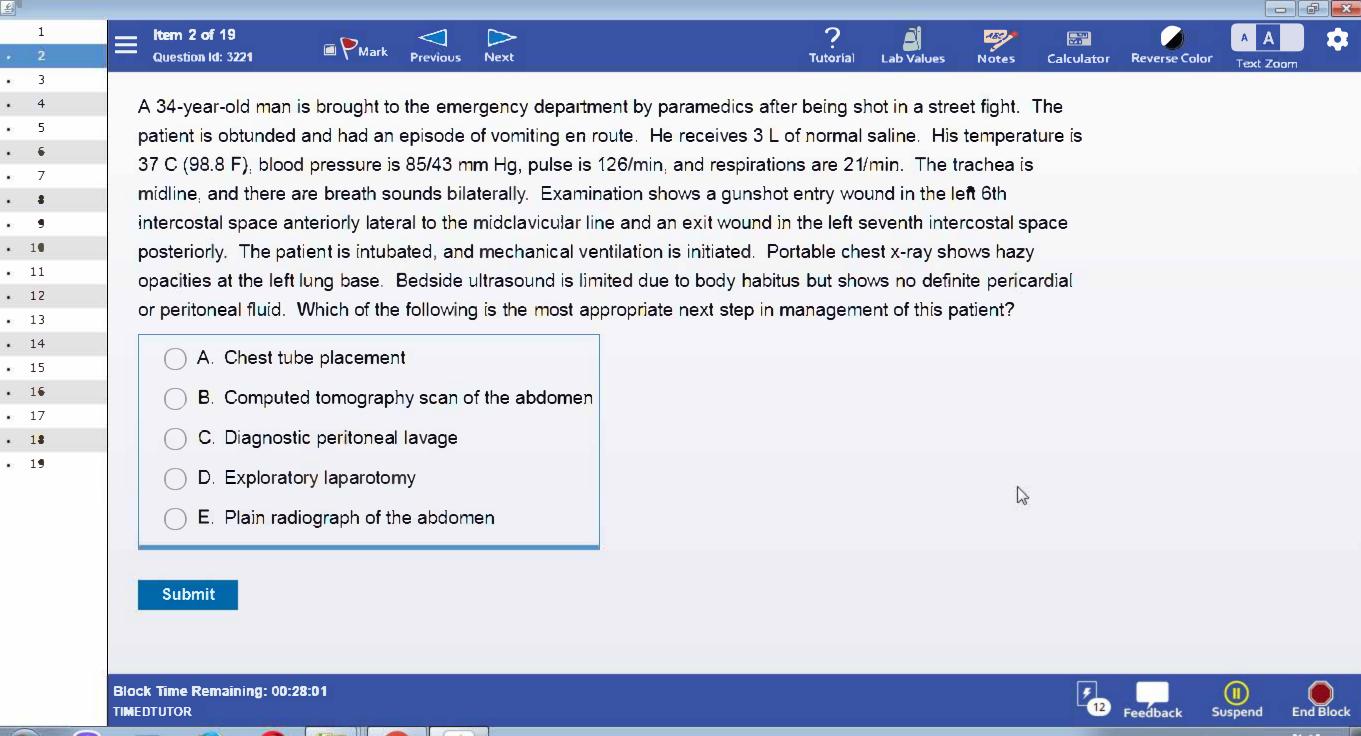






























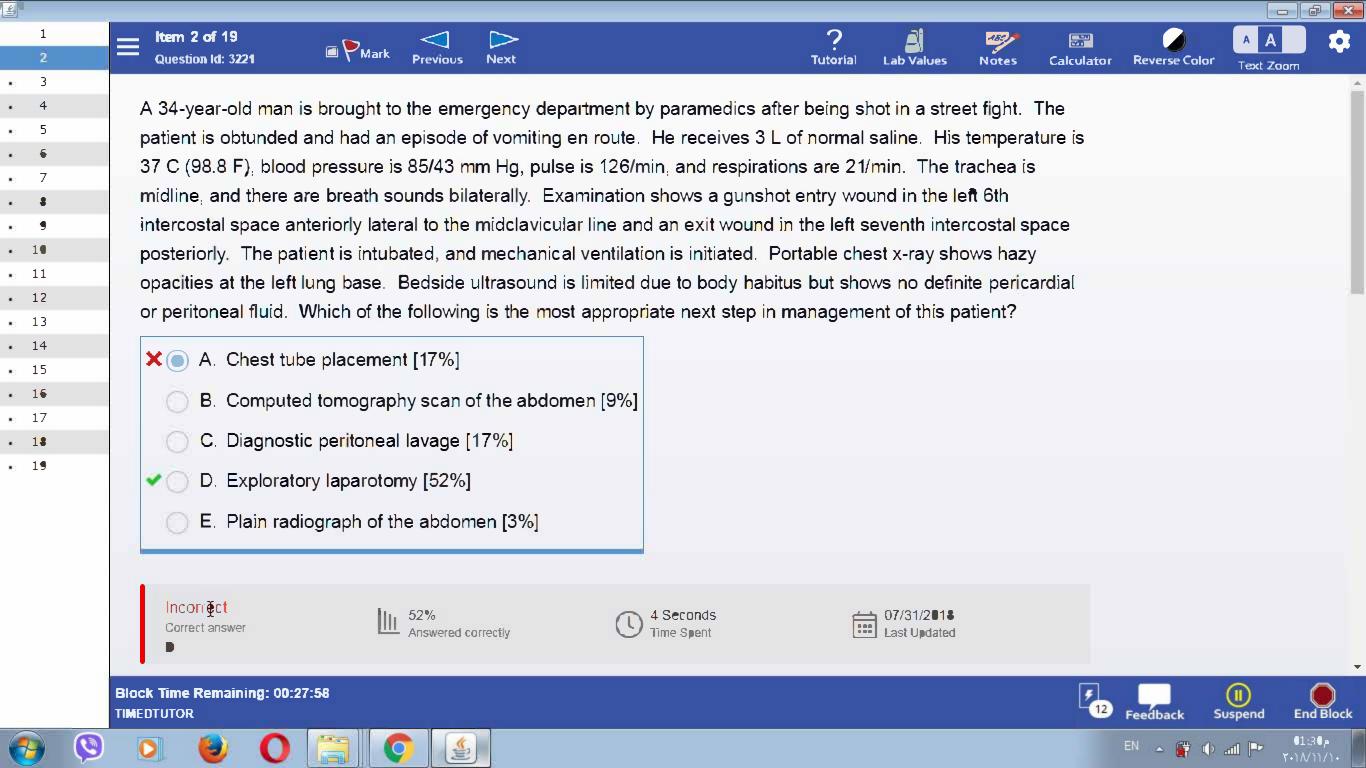


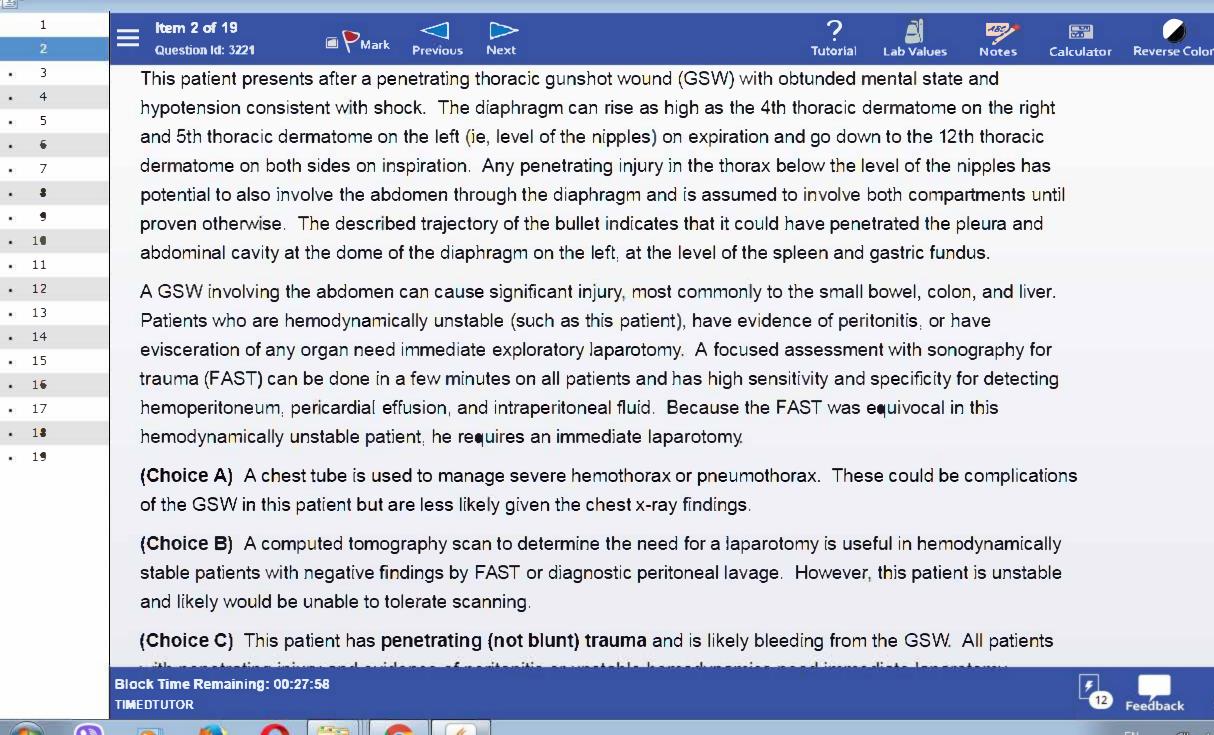


































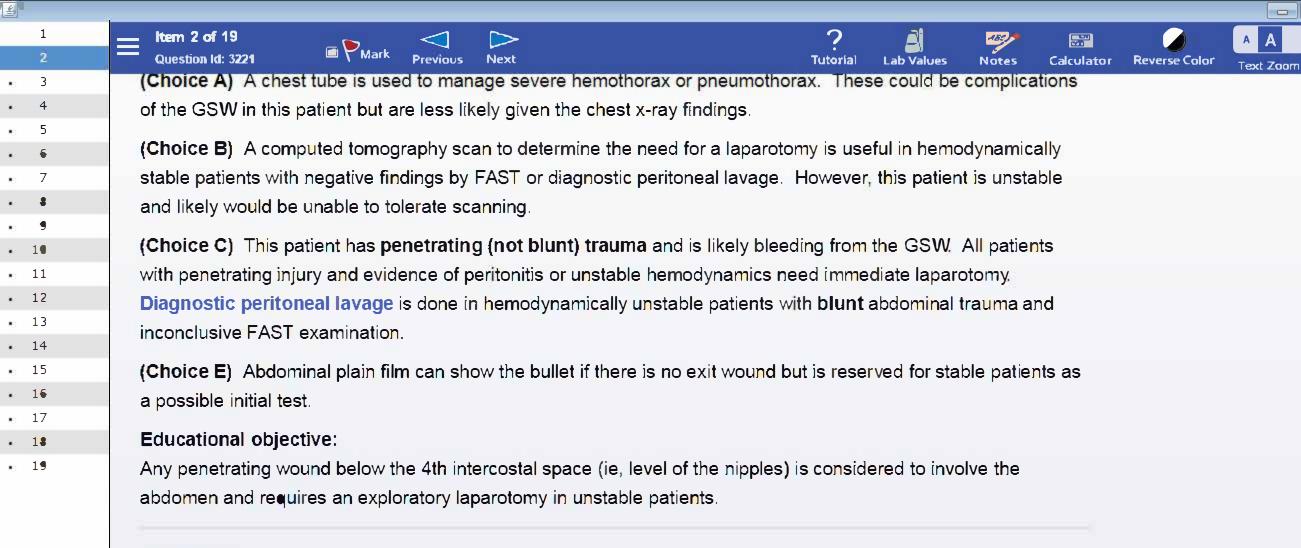












References

• Penetrating left thoracoabdominal trauma: the incidence and clinical presentation of diaphragm injuries

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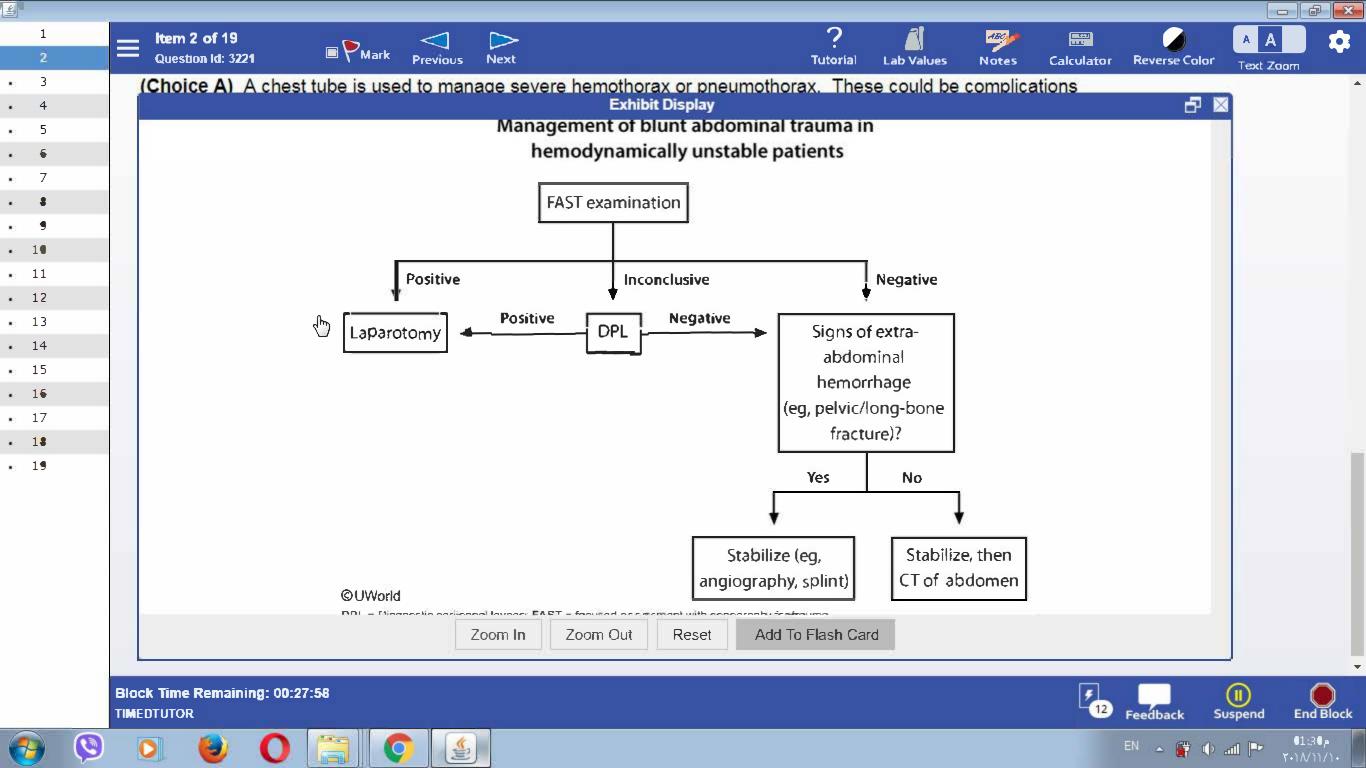


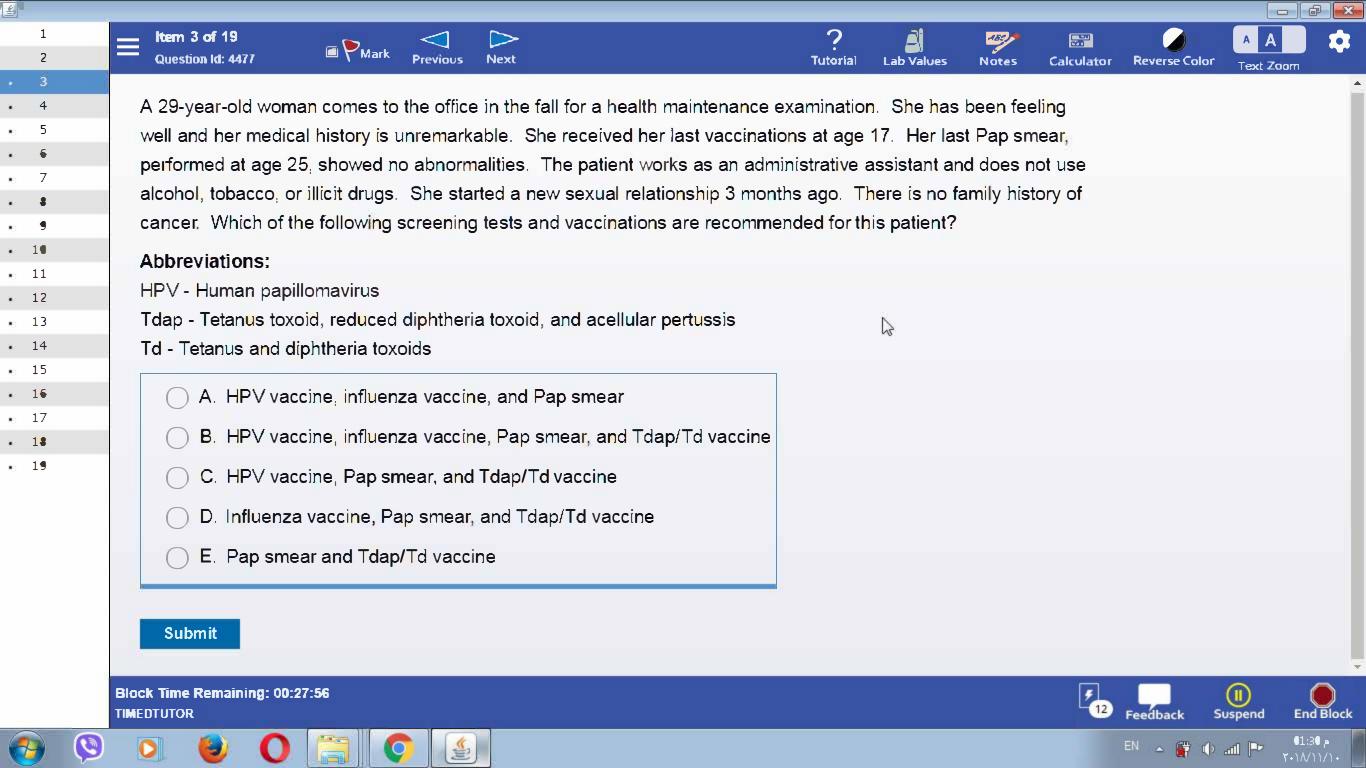


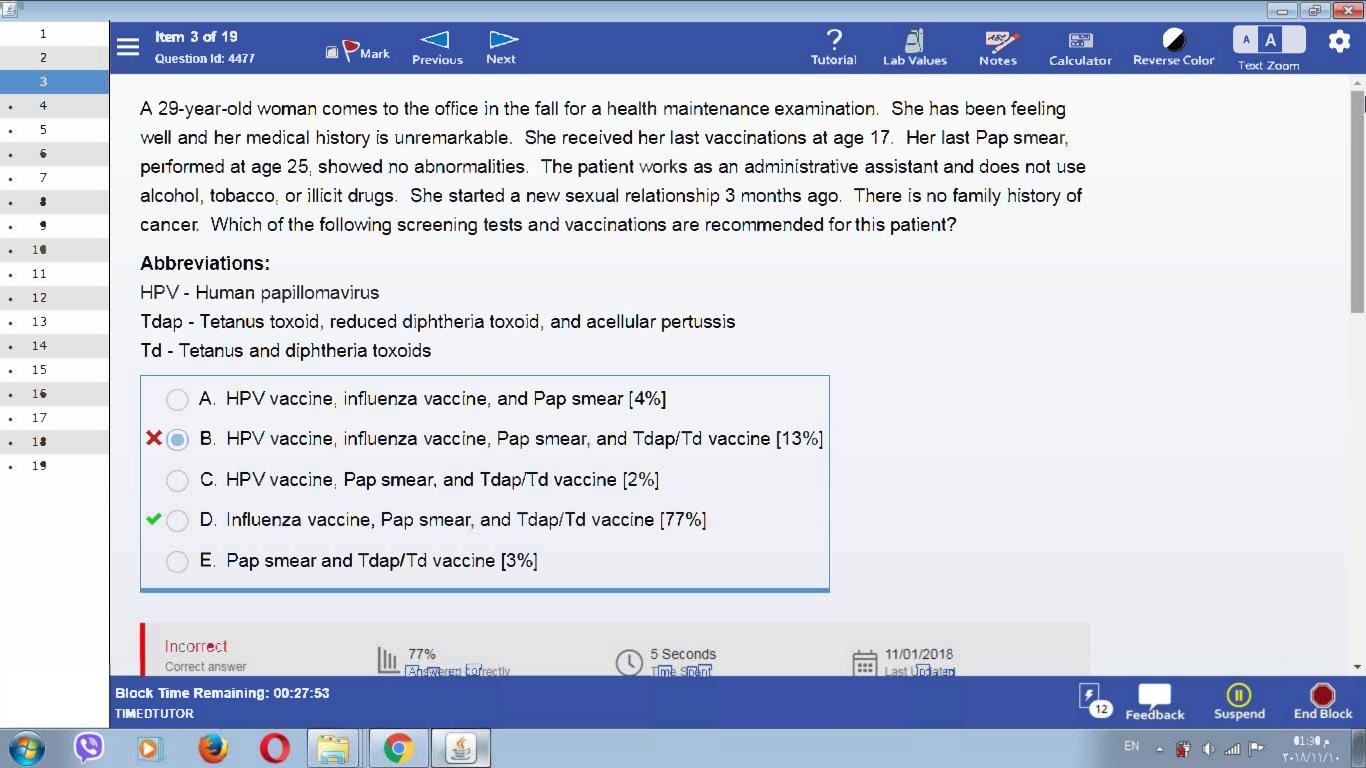


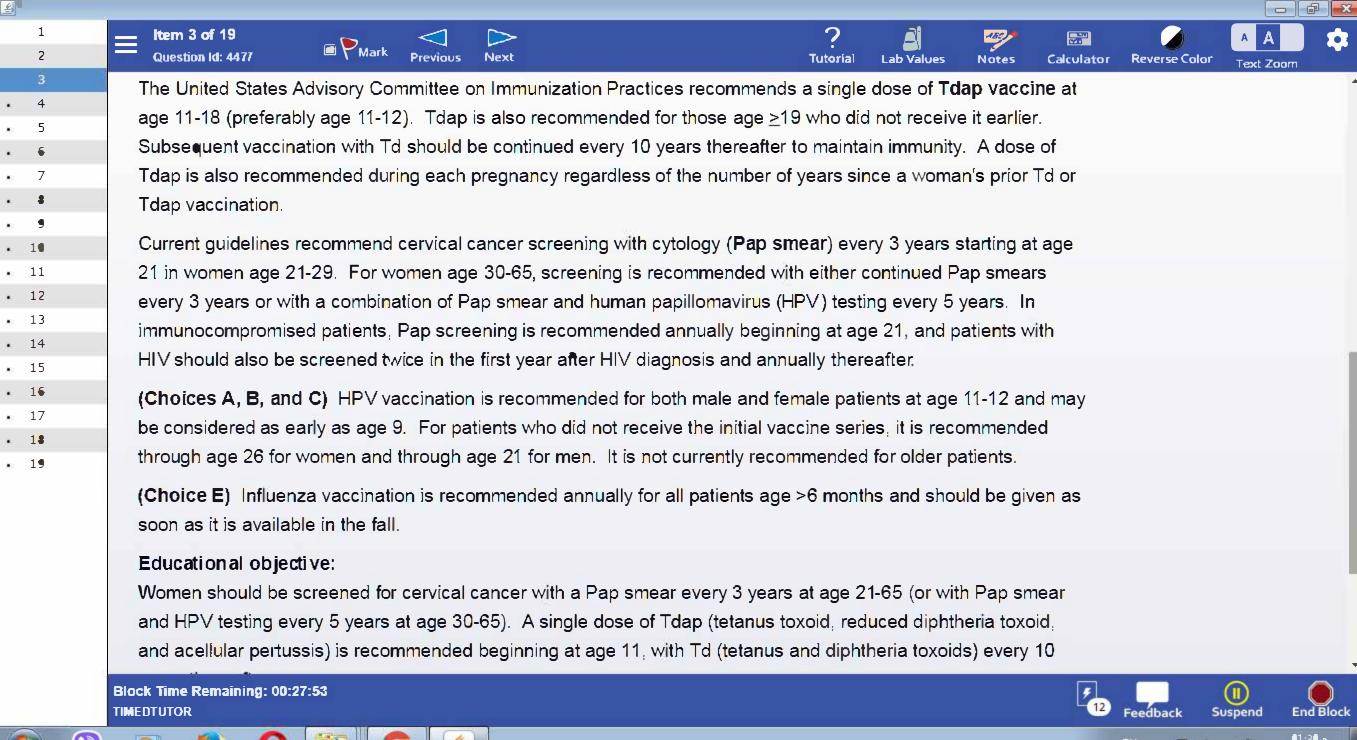




































Item 3 of 19 2 Reverse Color Calculator age the to tpreferably age the 12). Troup is also recommended for those age > 12 who did not receive it earlier. Subsequent vaccination with Td should be continued every 10 years thereafter to maintain immunity. A dose of . 4 · 5 Tdap is also recommended during each pregnancy regardless of the number of years since a woman's prior Td or Tdap vaccination. ***** 7 Current guidelines recommend cervical cancer screening with cytology (Pap smear) every 3 years starting at age * 4 21 in women age 21-29. For women age 30-65, screening is recommended with either continued Pap smears × 10 every 3 years or with a combination of Pap smear and human papillomavirus (HPV) testing every 5 years. In ★ 11 immunocompromised patients. Pap screening is recommended annually beginning at age 21, and patients with • 12 HIV should also be screened twice in the first year after HIV diagnosis and annually thereafter. · 13 • 14 (Choices A, B, and C) HPV vaccination is recommended for both male and female patients at age 11-12 and may ***** 15 be considered as early as age 9. For patients who did not receive the initial vaccine series, it is recommended . 15 through age 26 for women and through age 21 for men. It is not currently recommended for older patients. · 17 × 18 (Choice E) Influenza vaccination is recommended annually for all patients age >6 months and should be given as ***** 19 soon as it is available in the fall. Educational objective: Women should be screened for cervical cancer with a Pap smear every 3 years at age 21-65 (or with Pap smear

and HPV testing every 5 years at age 30-65). A single dose of Tdap (tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis) is recommended beginning at age 11, with Td (tetanus and diphtheria toxoids) every 10 years thereafter.

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- F X















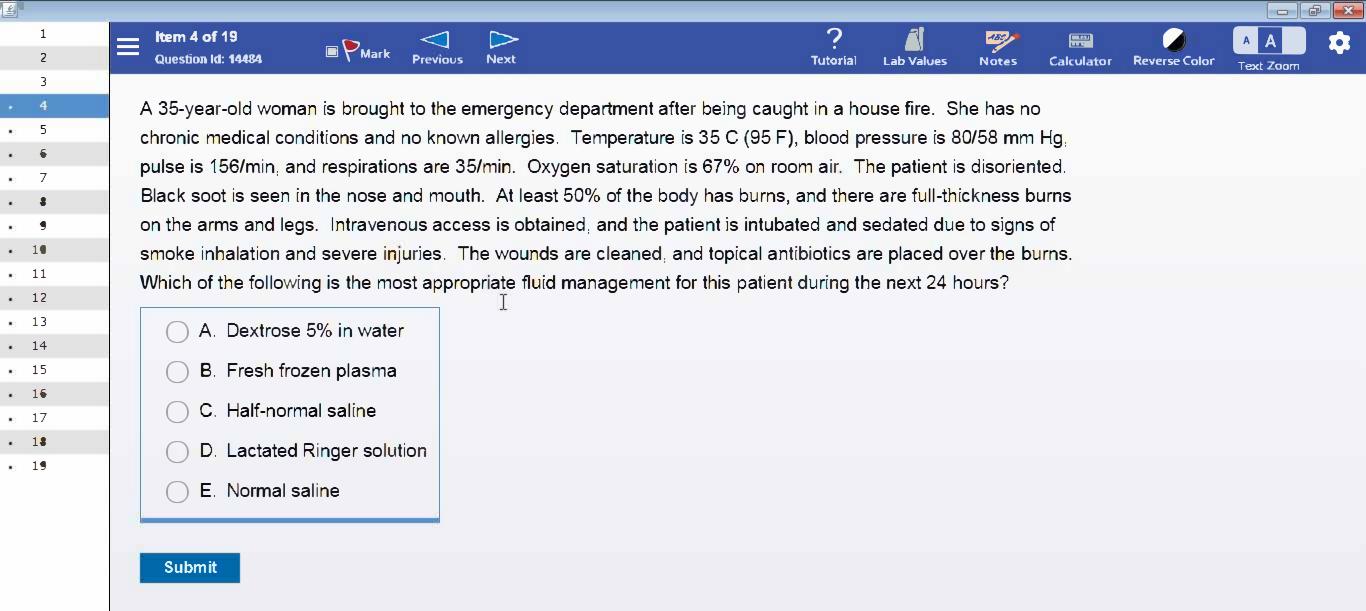












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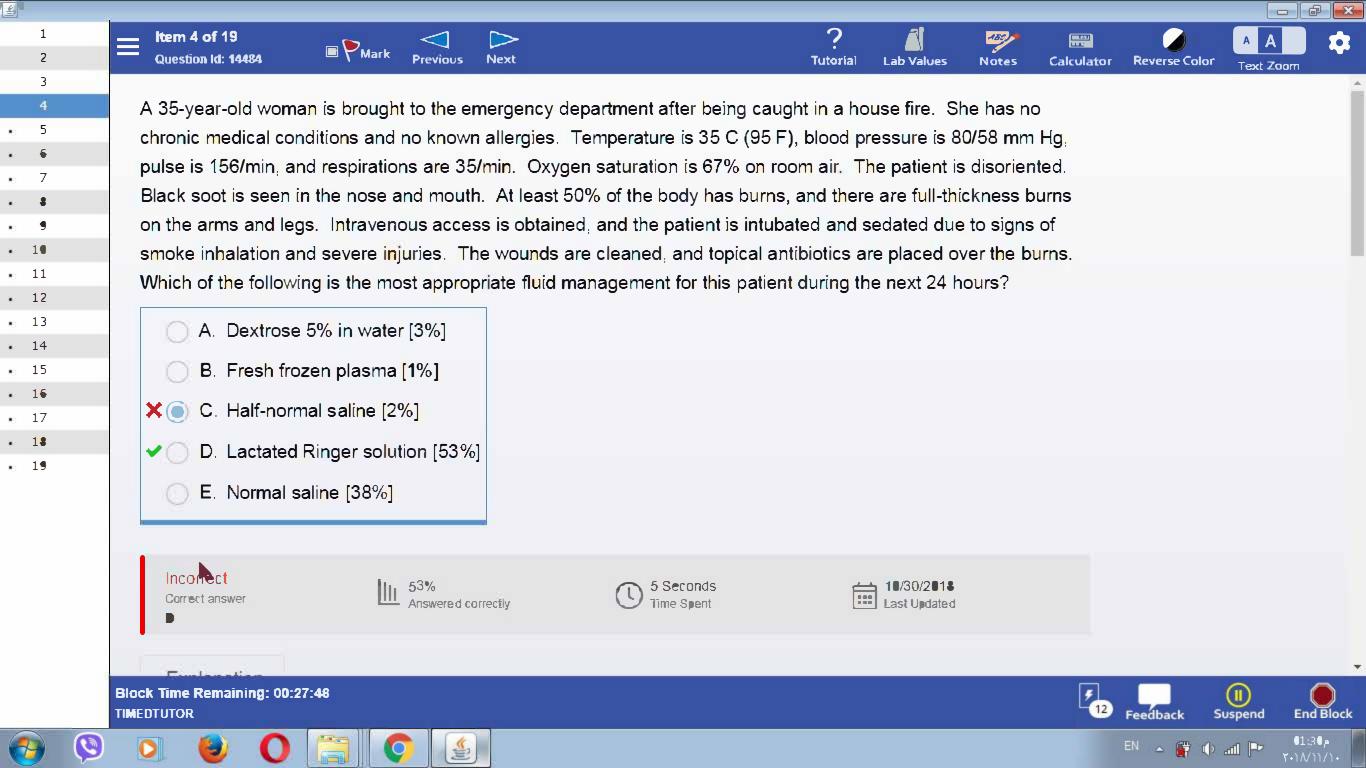


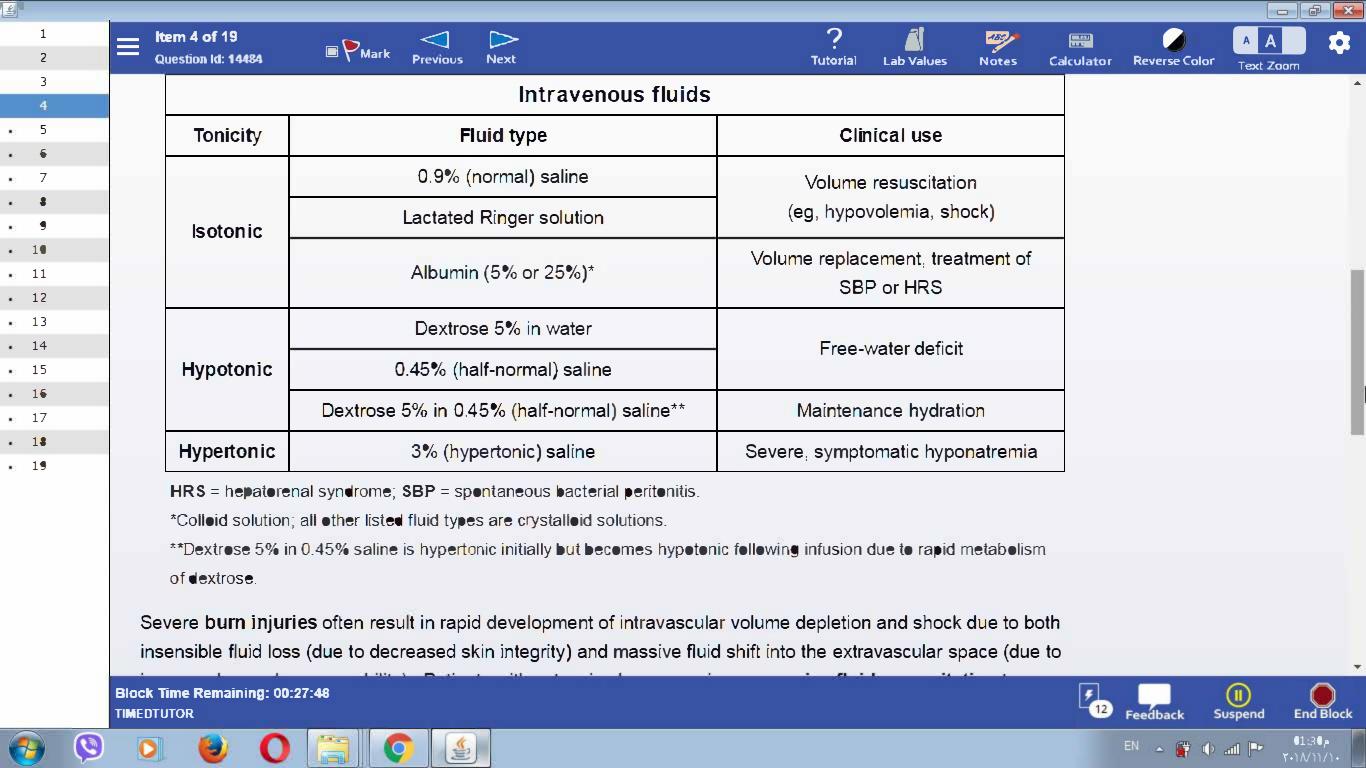


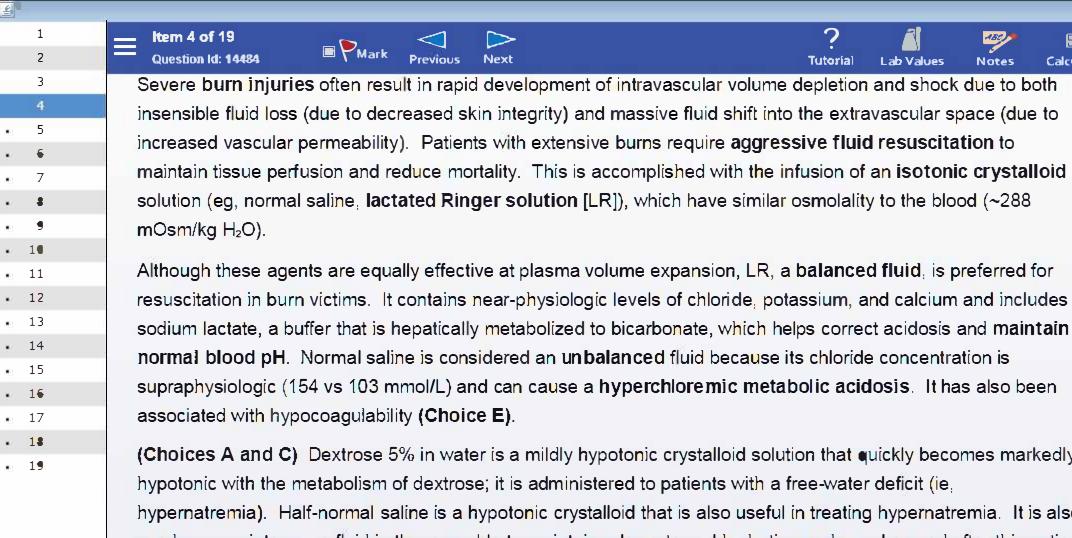












(Choices A and C) Dextrose 5% in water is a mildly hypotonic crystalloid solution that quickly becomes markedly hypernatremia). Half-normal saline is a hypotonic crystalloid that is also useful in treating hypernatremia. It is also used as a maintenance fluid in those unable to maintain adequate oral hydration and may be used after this patient has been adequately resuscitated. However, these solutions must be infused slowly because the low osmolality causes much of the fluid volume to shift into the intracellular space following infusion, which can result in cerebral edema.

(Choice B) Fresh frozen plasma is a colloid solution that is indicated for replacement of coagulation factors (eq.

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Reverse Color







electrolytes and includes a buffer that helps correct acidosis and maintain normal blood pH. Normal saline is associated with the development of hyperchloremic metabolic acidosis.

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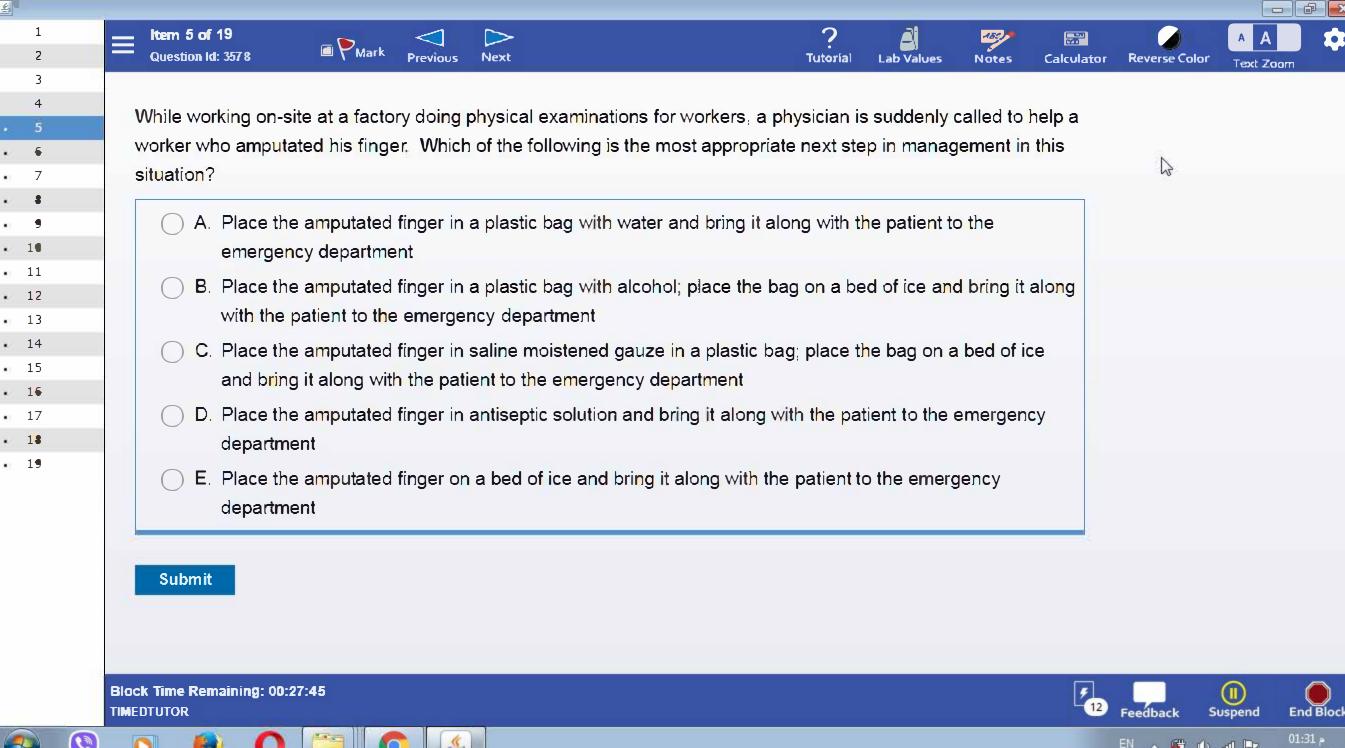


























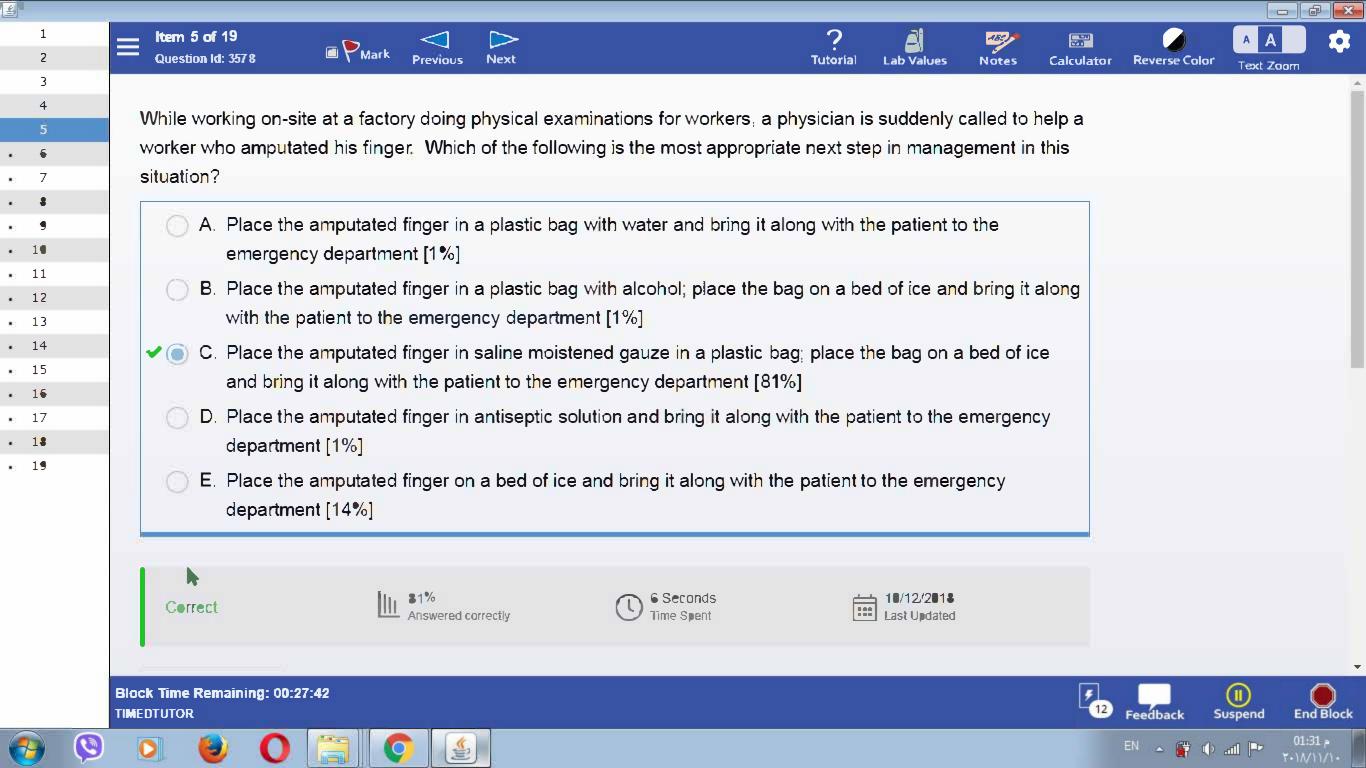


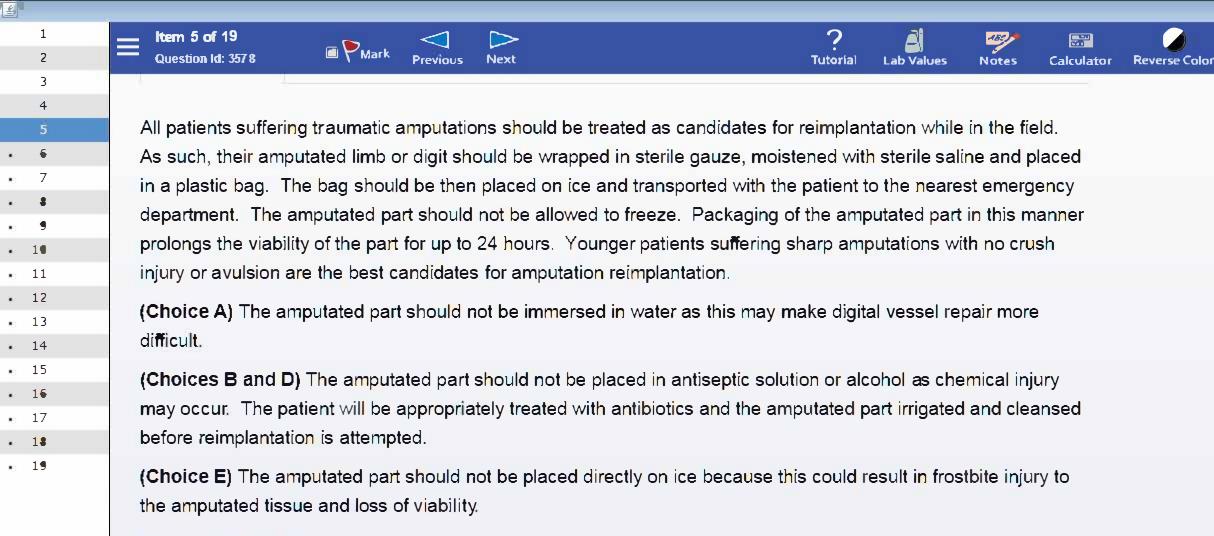












Educational objective:

In case of amputation injury, amputated parts should be wrapped in saline-moistened gauze, sealed in a plastic bag, placed on ice and brought to the emergency department with the patient.

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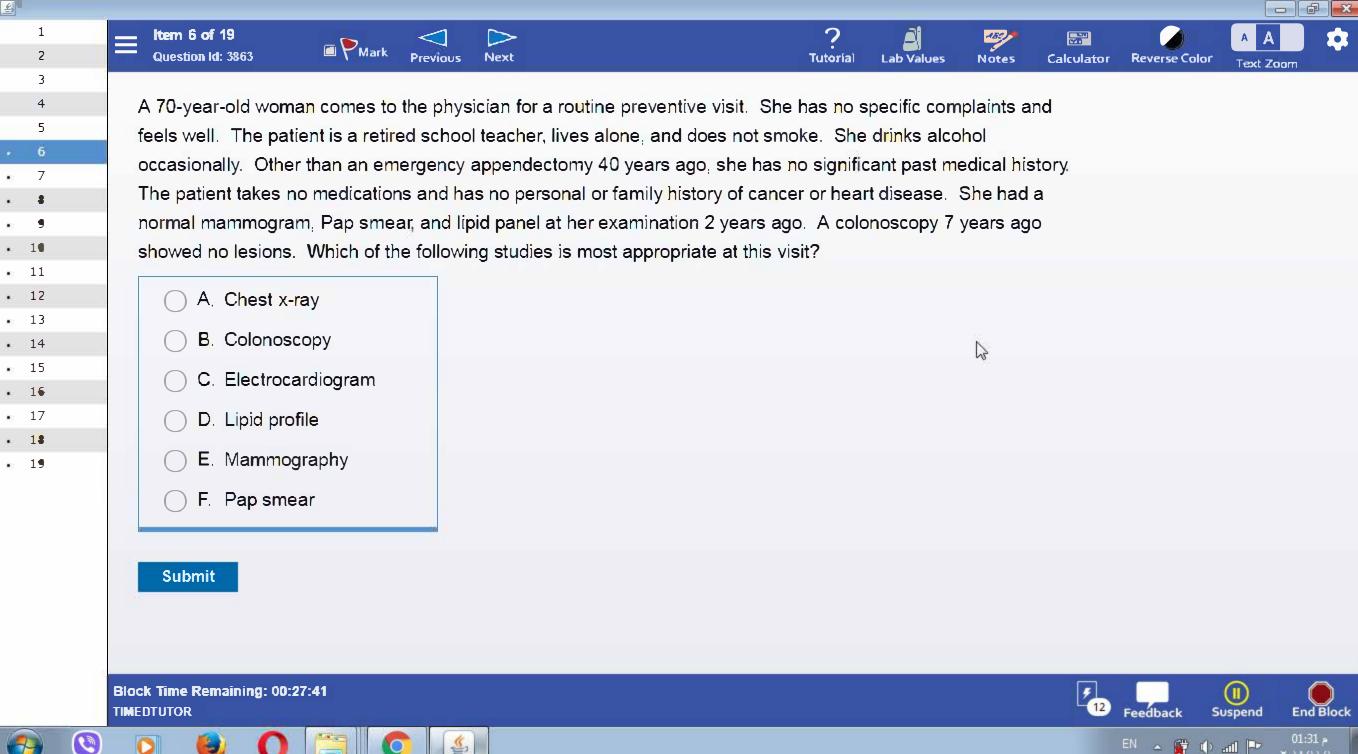
































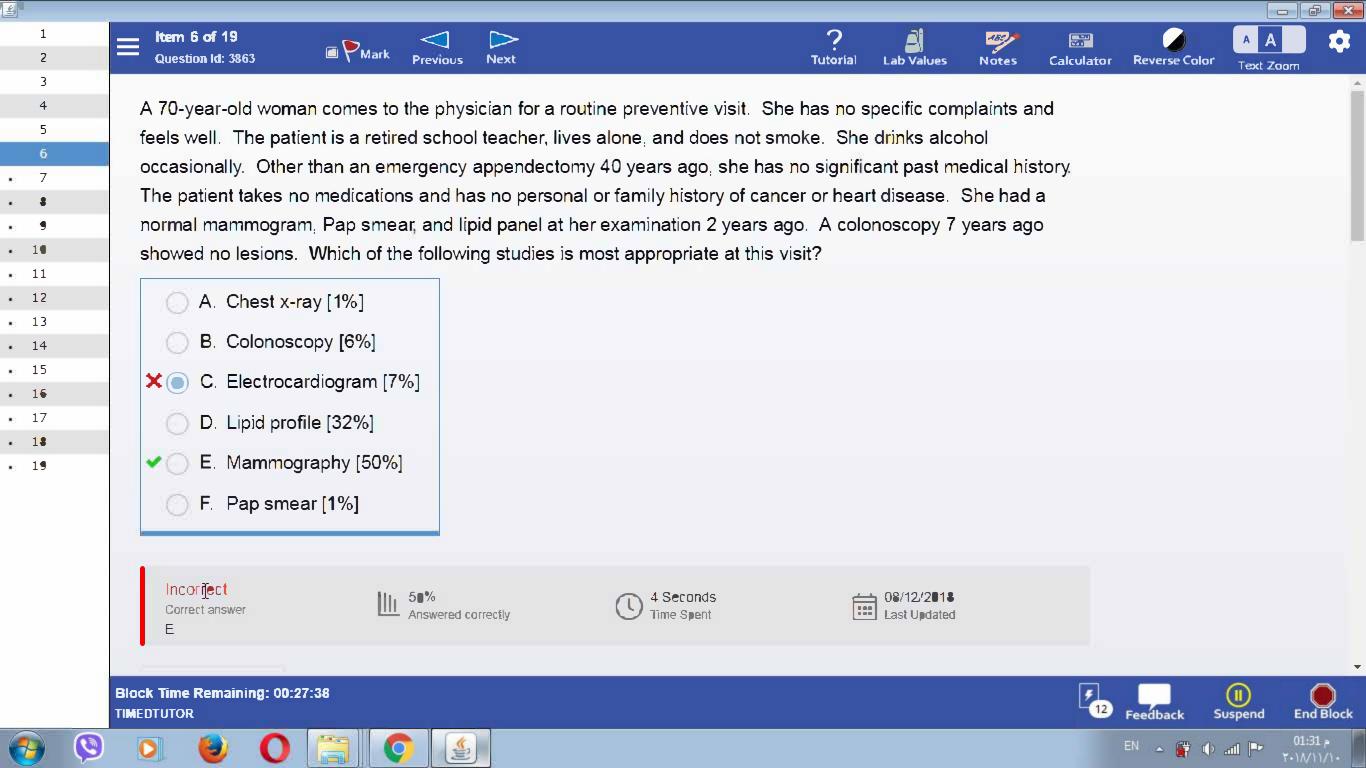


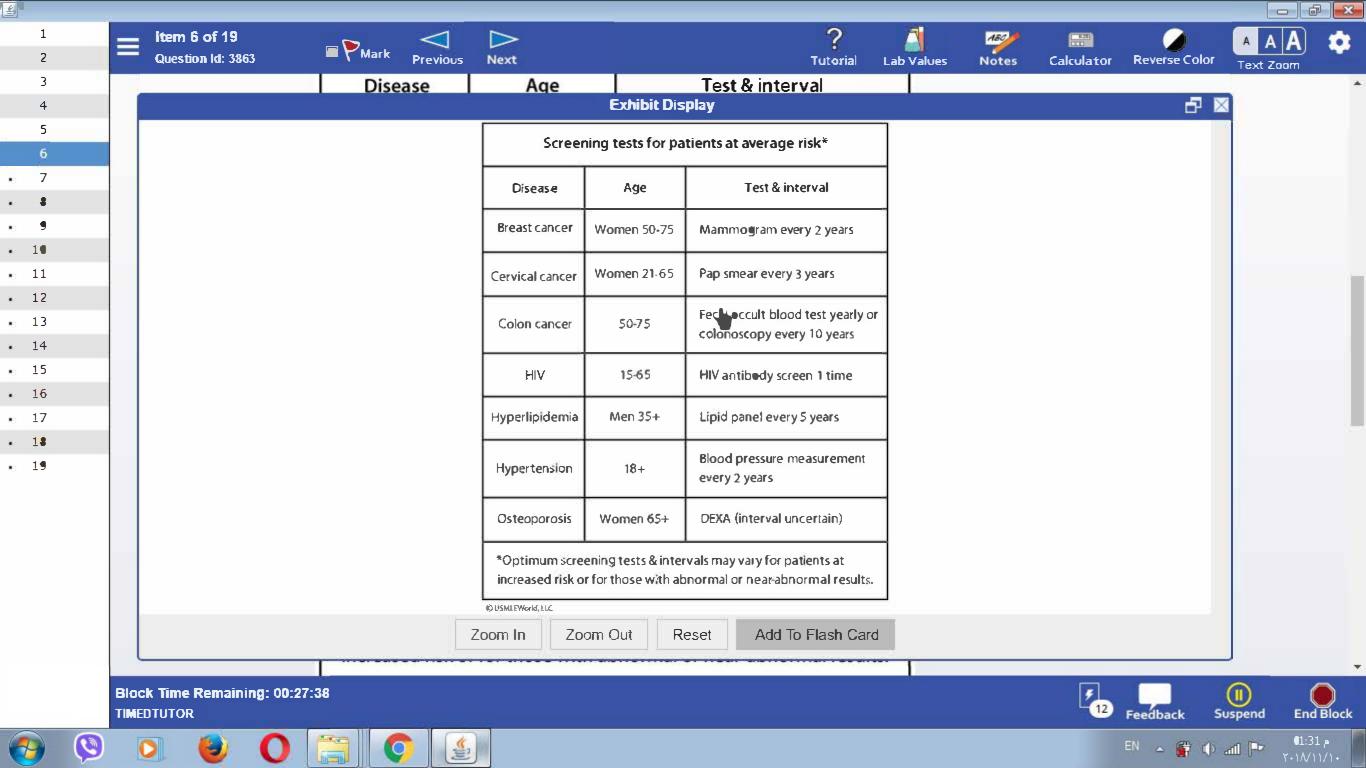


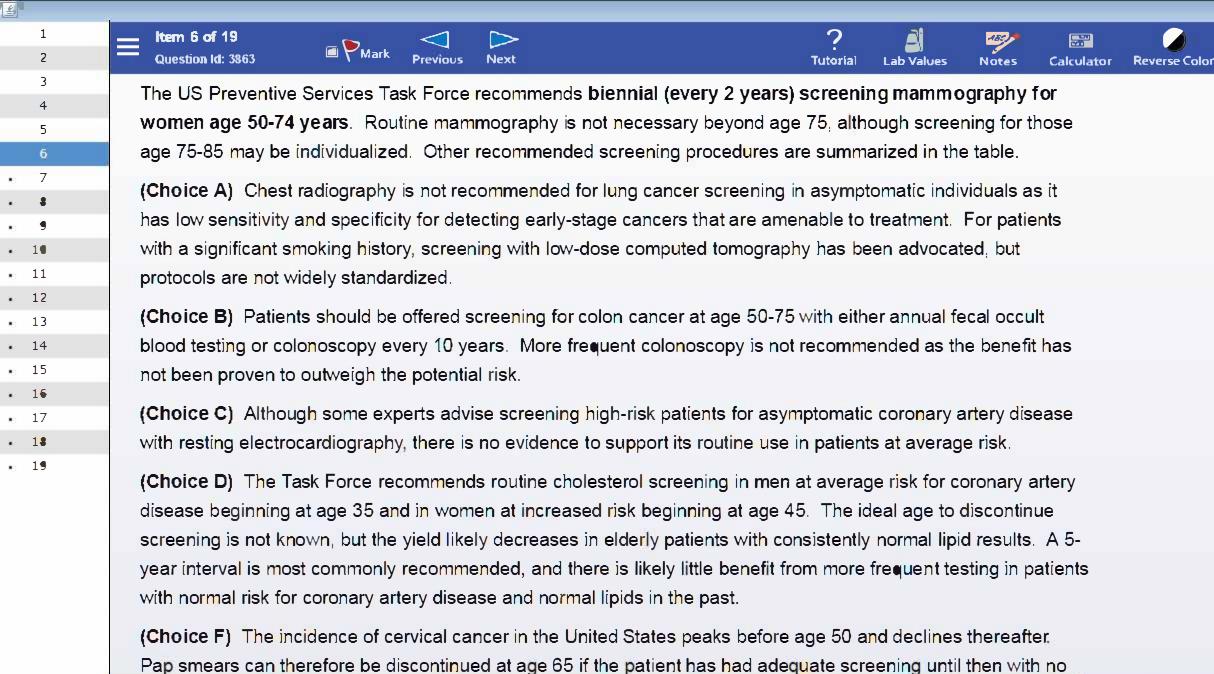












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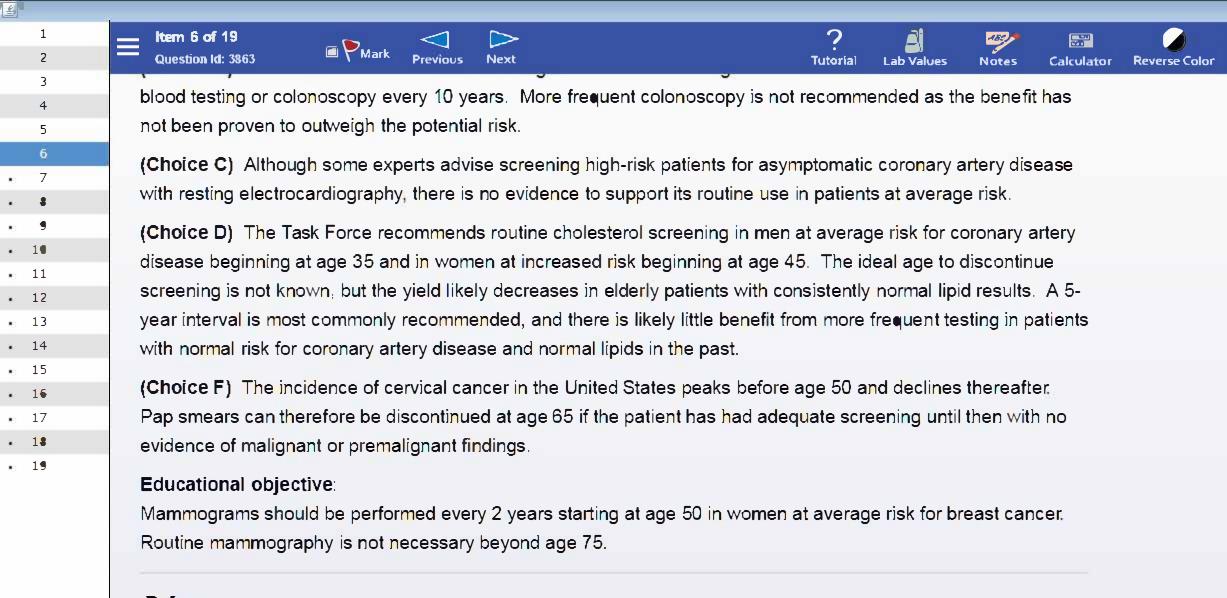








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References

Updated recommendations for breast cancer screening.

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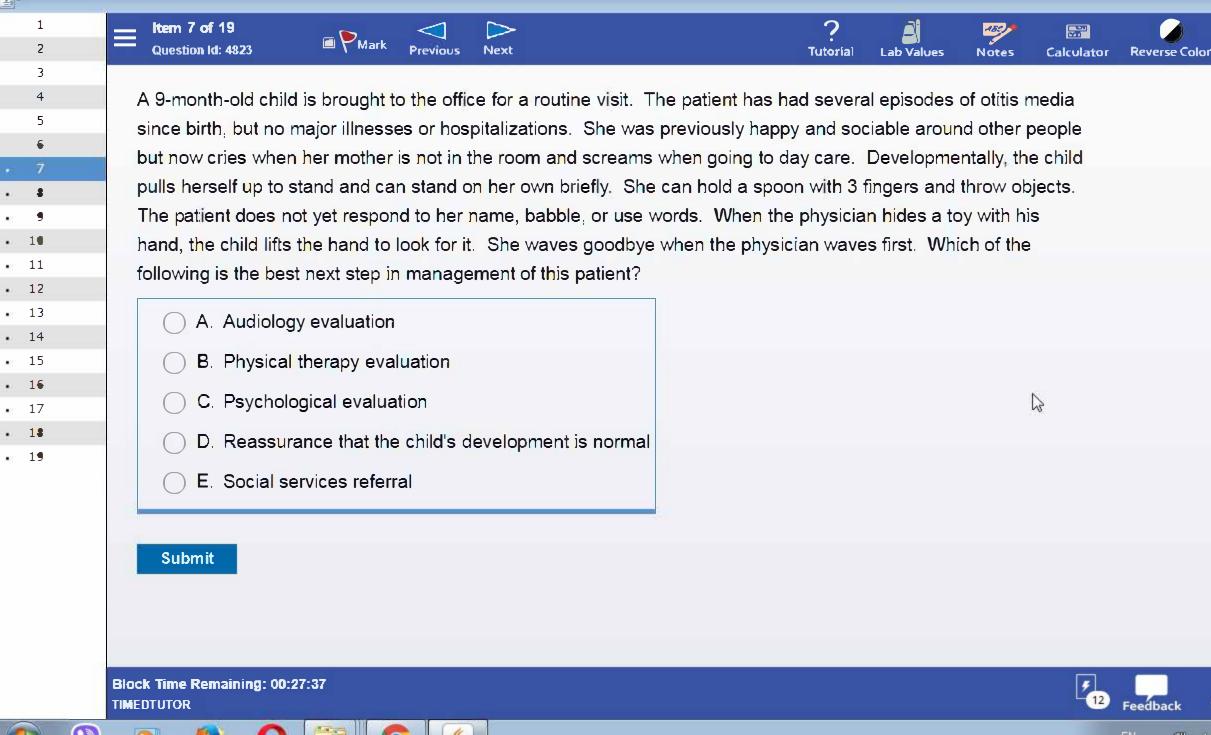




























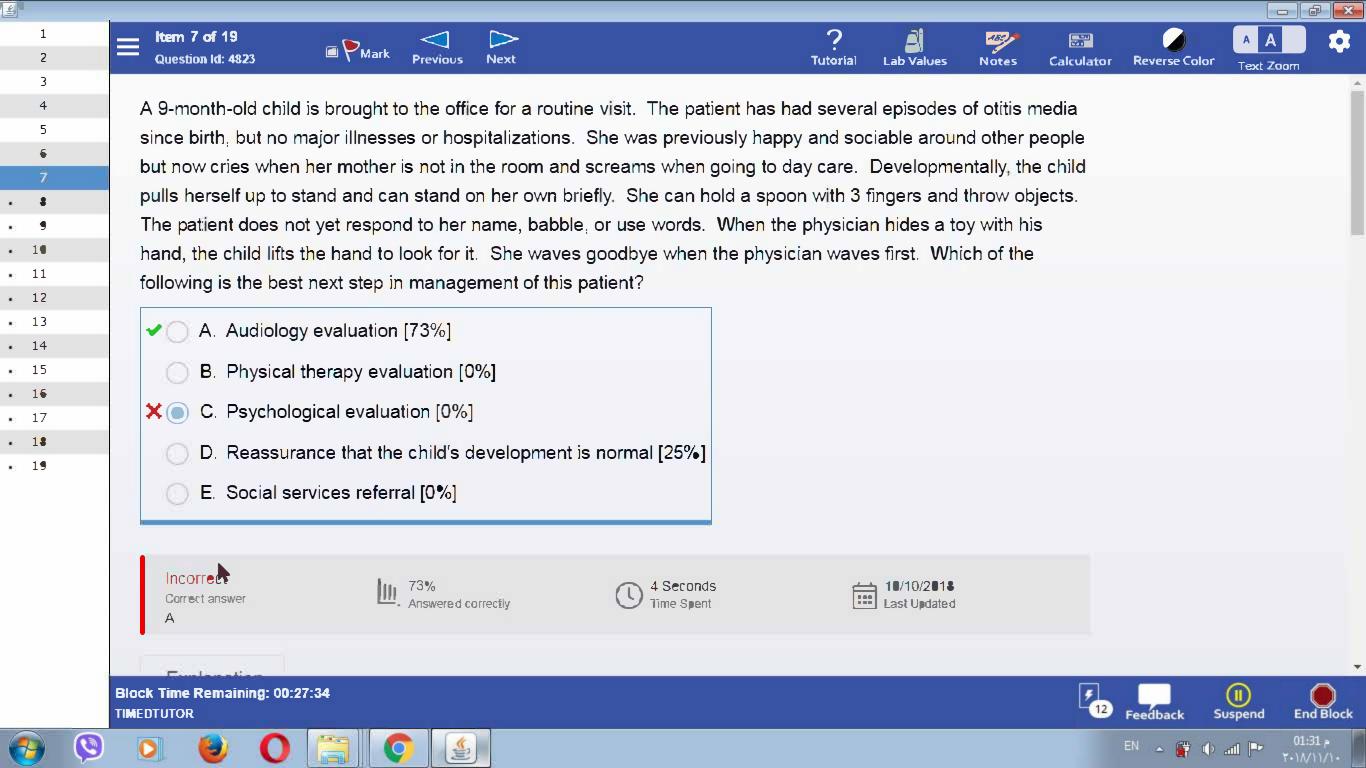


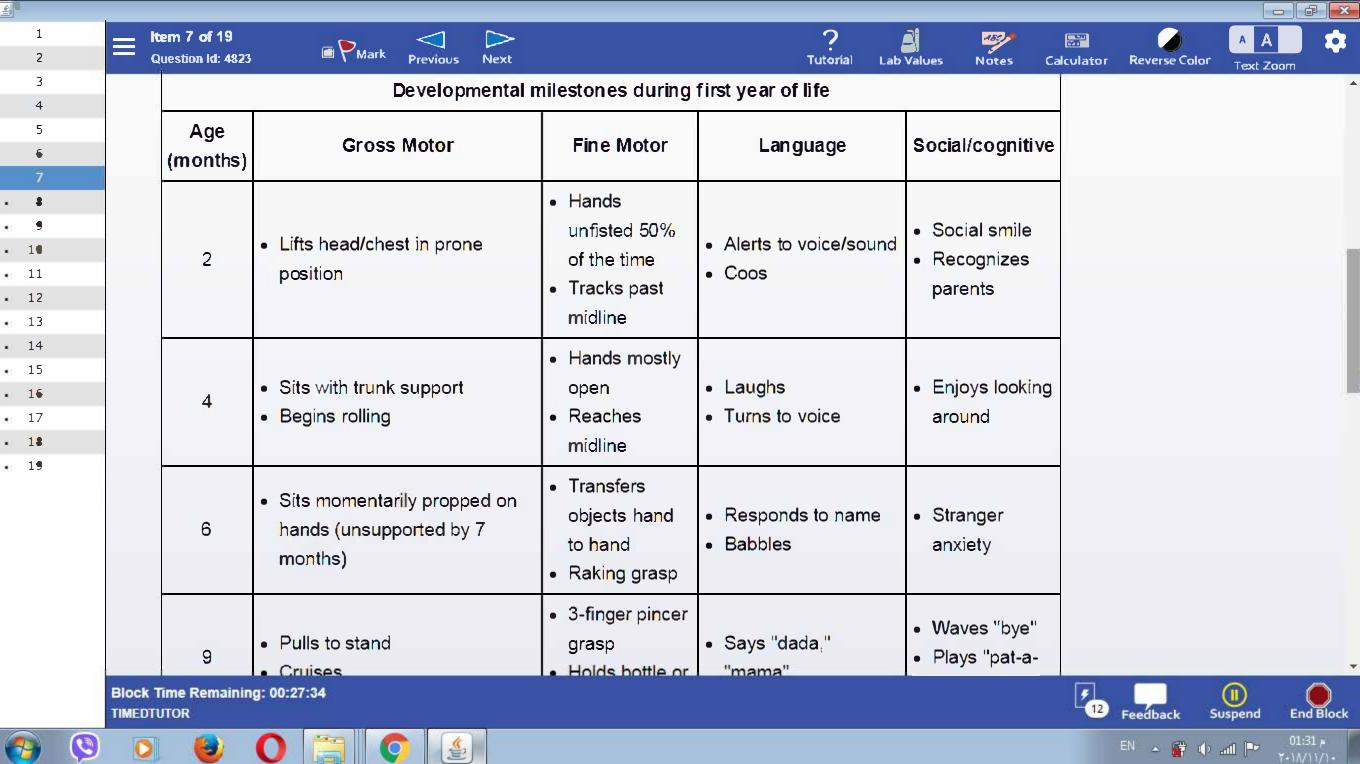






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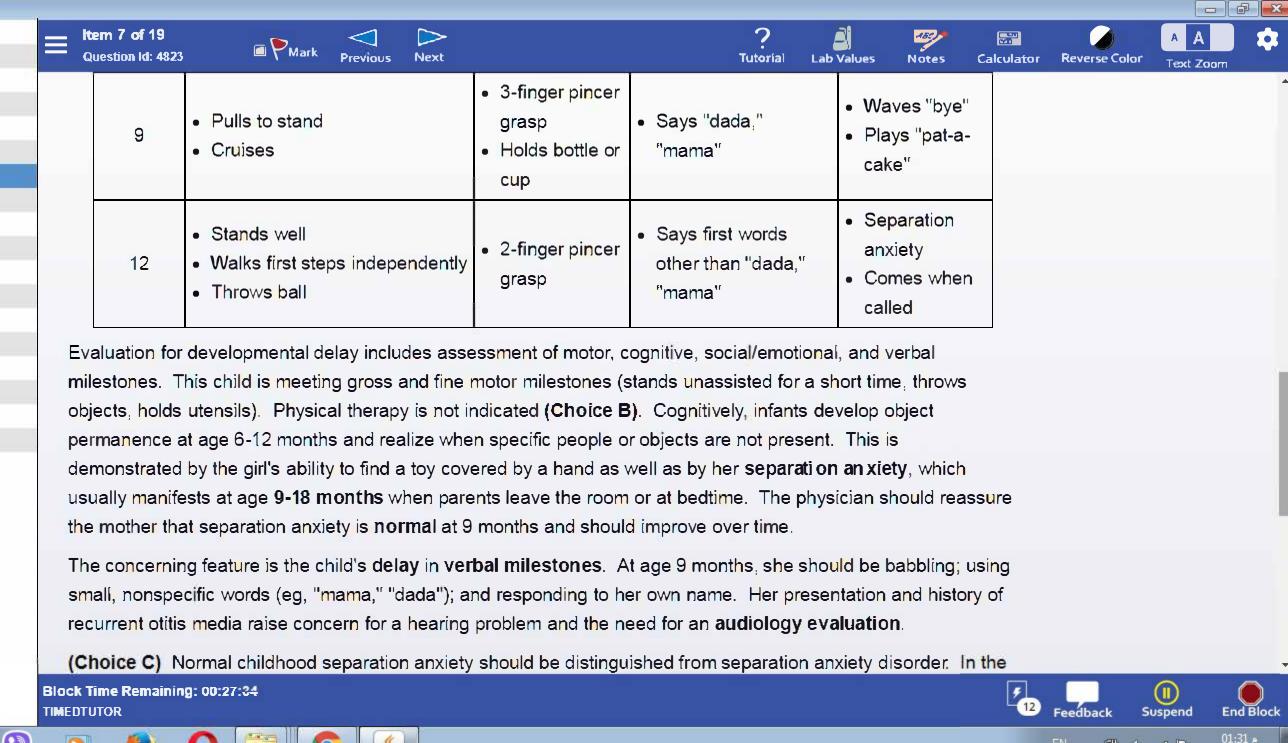














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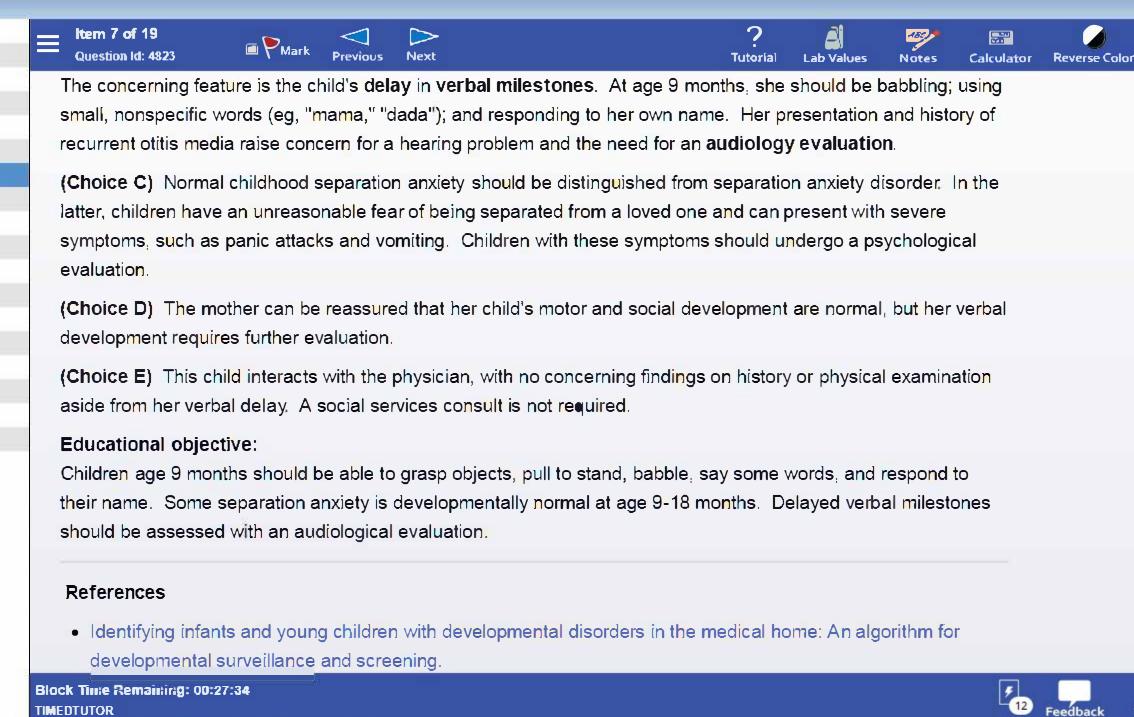














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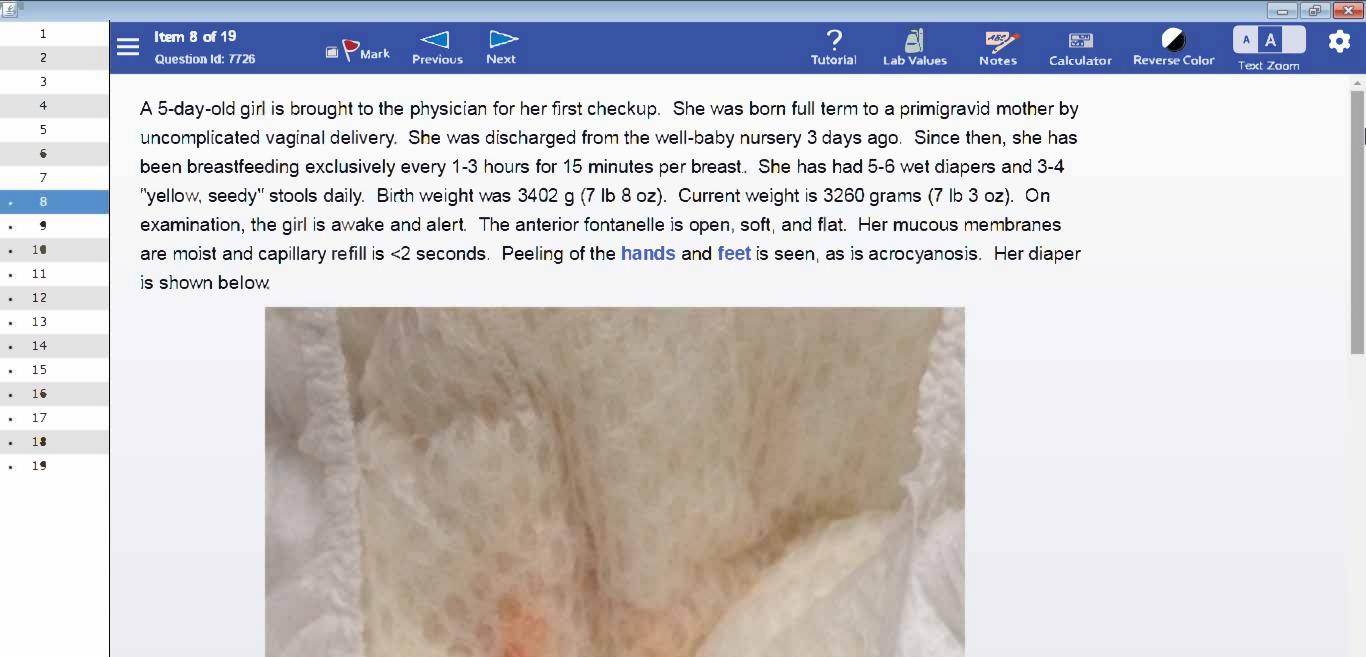






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TIMEDTUTOR





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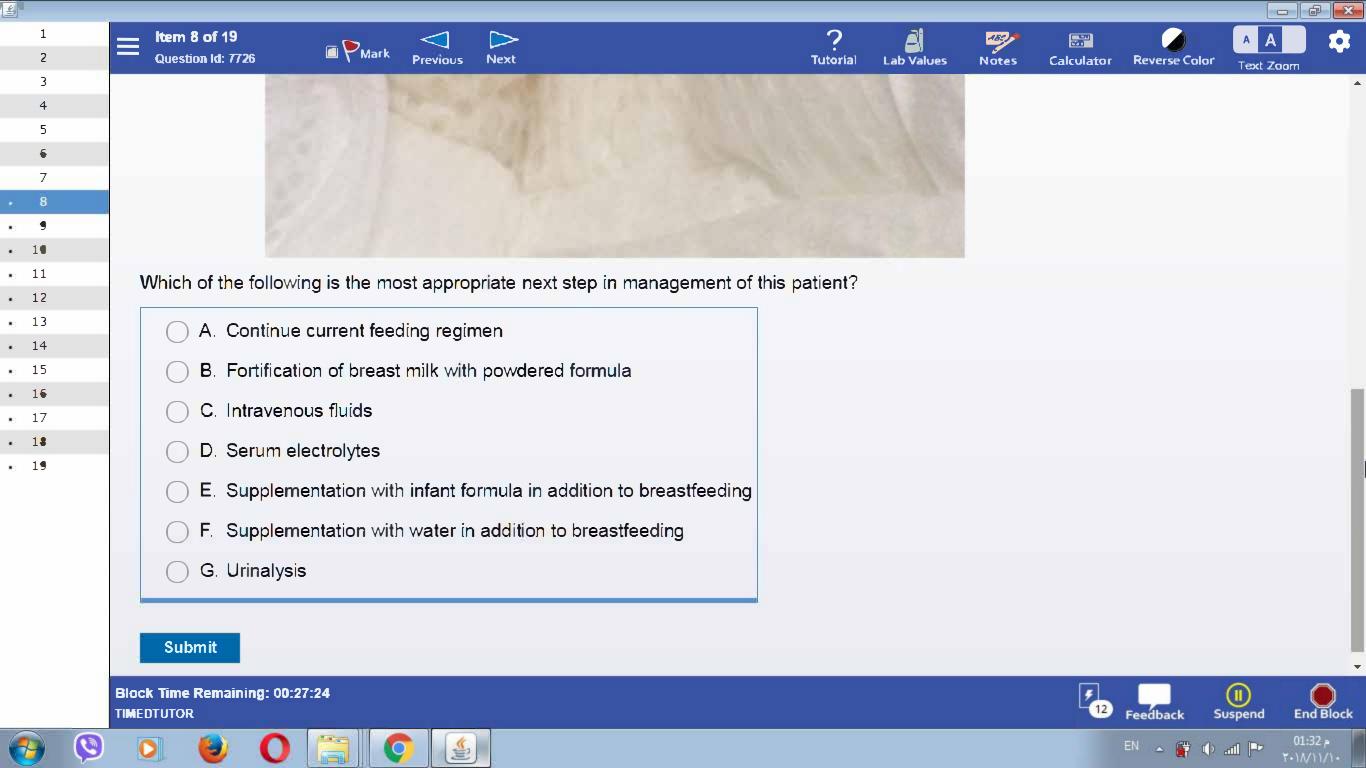






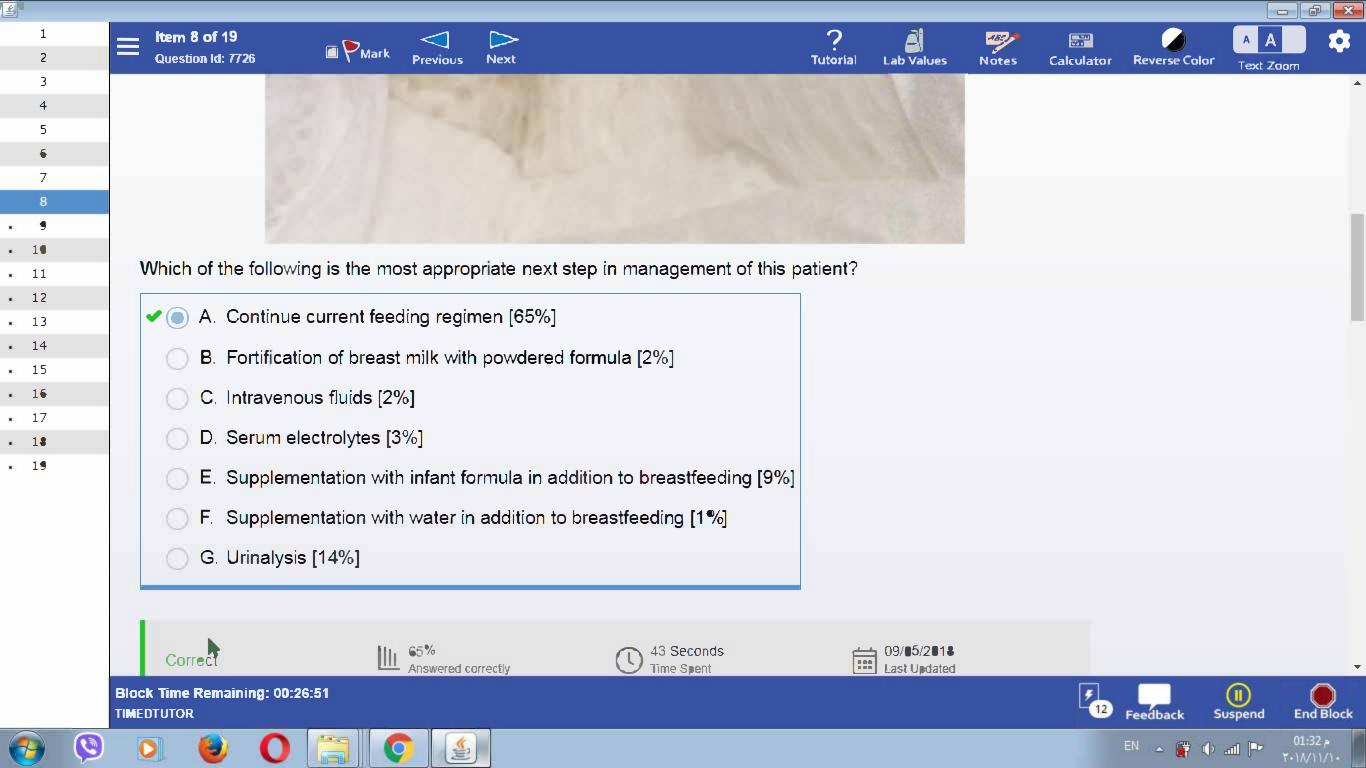


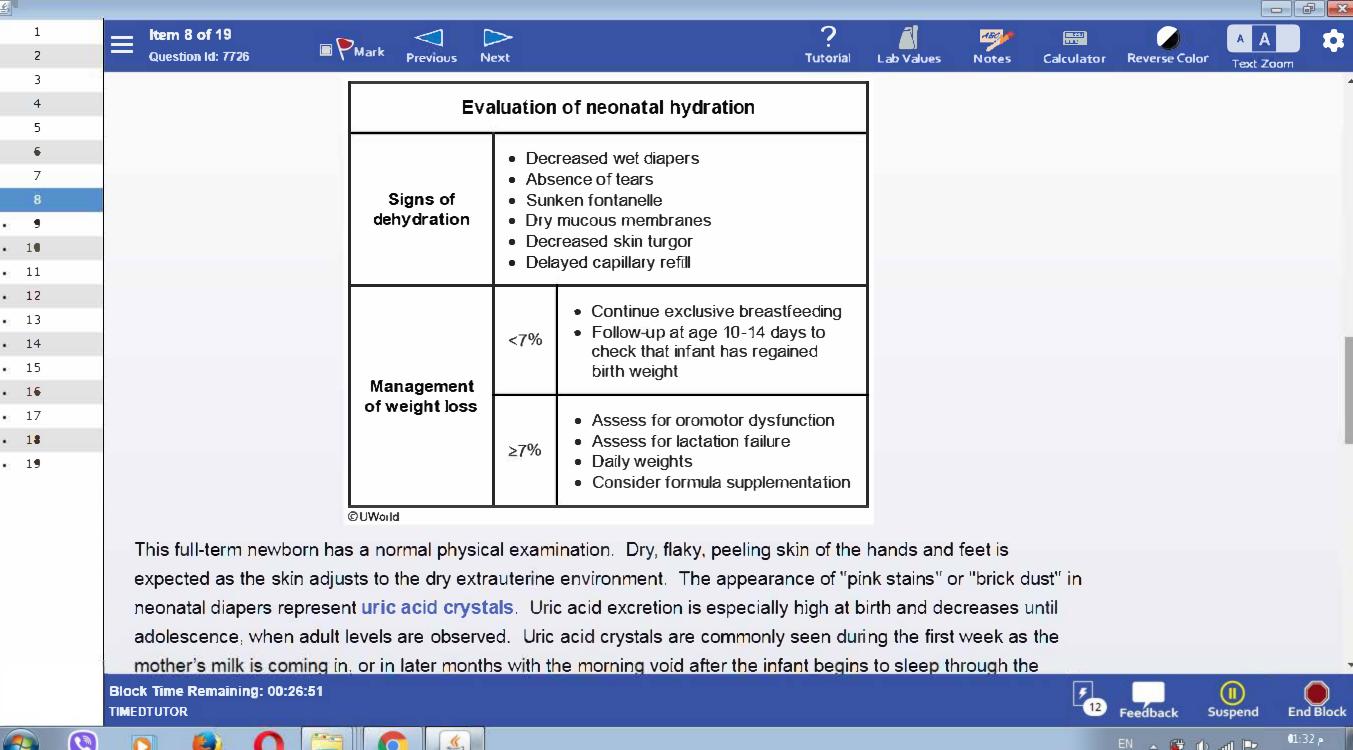






























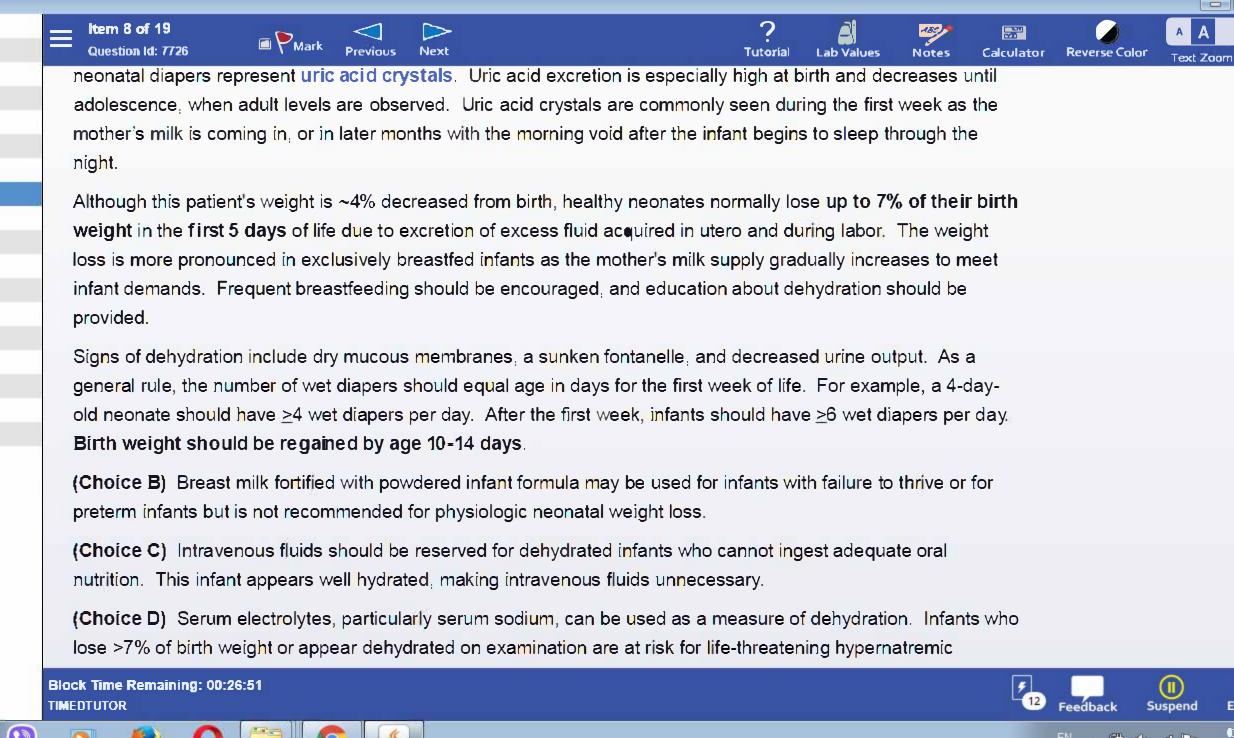














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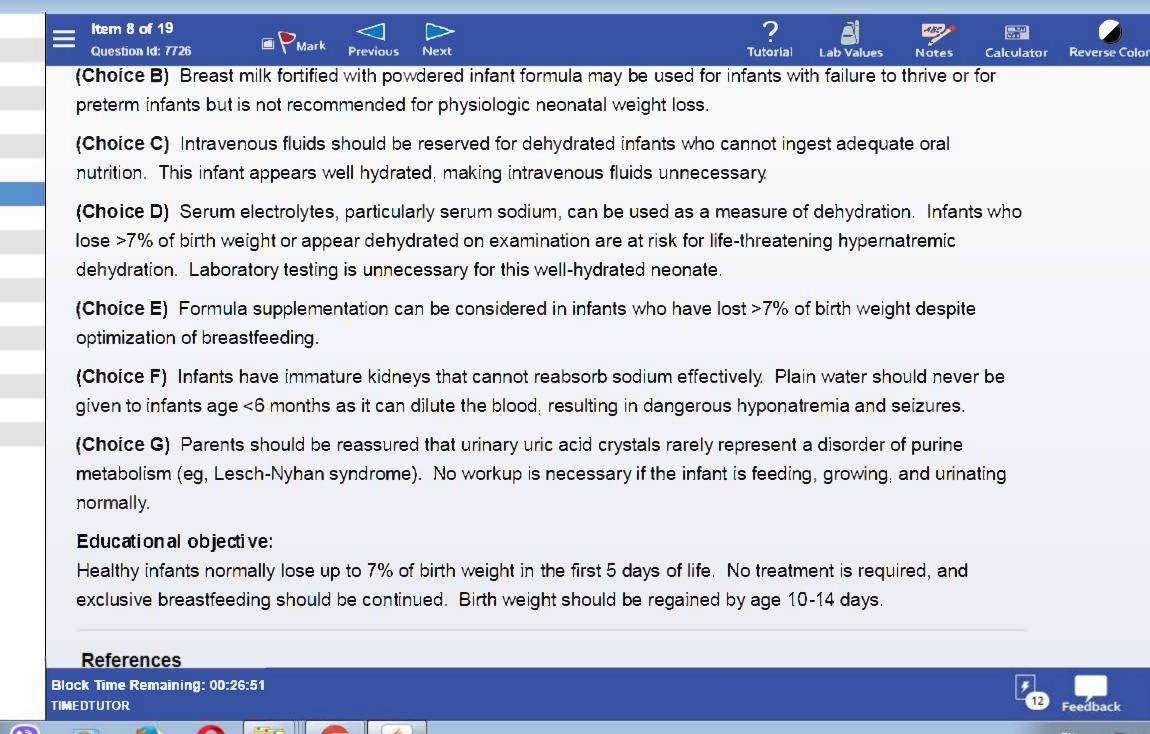














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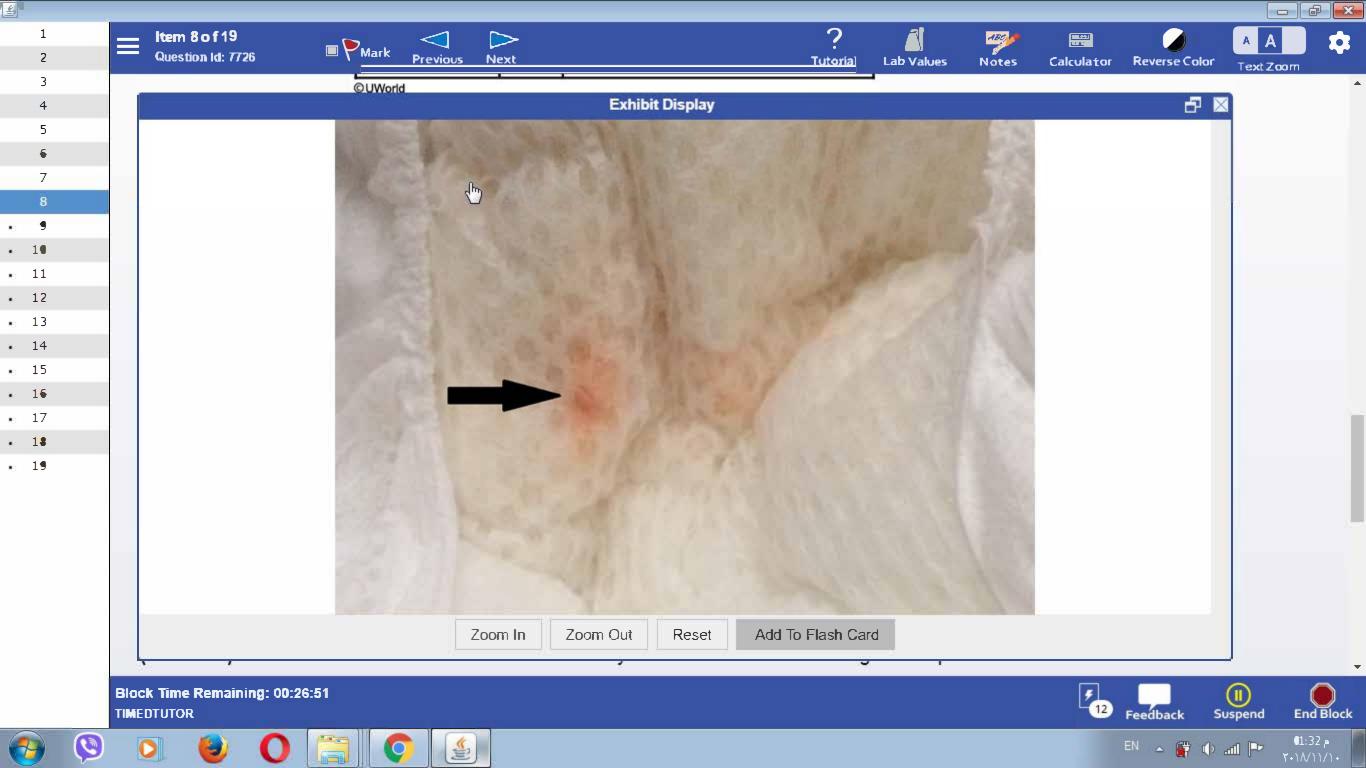


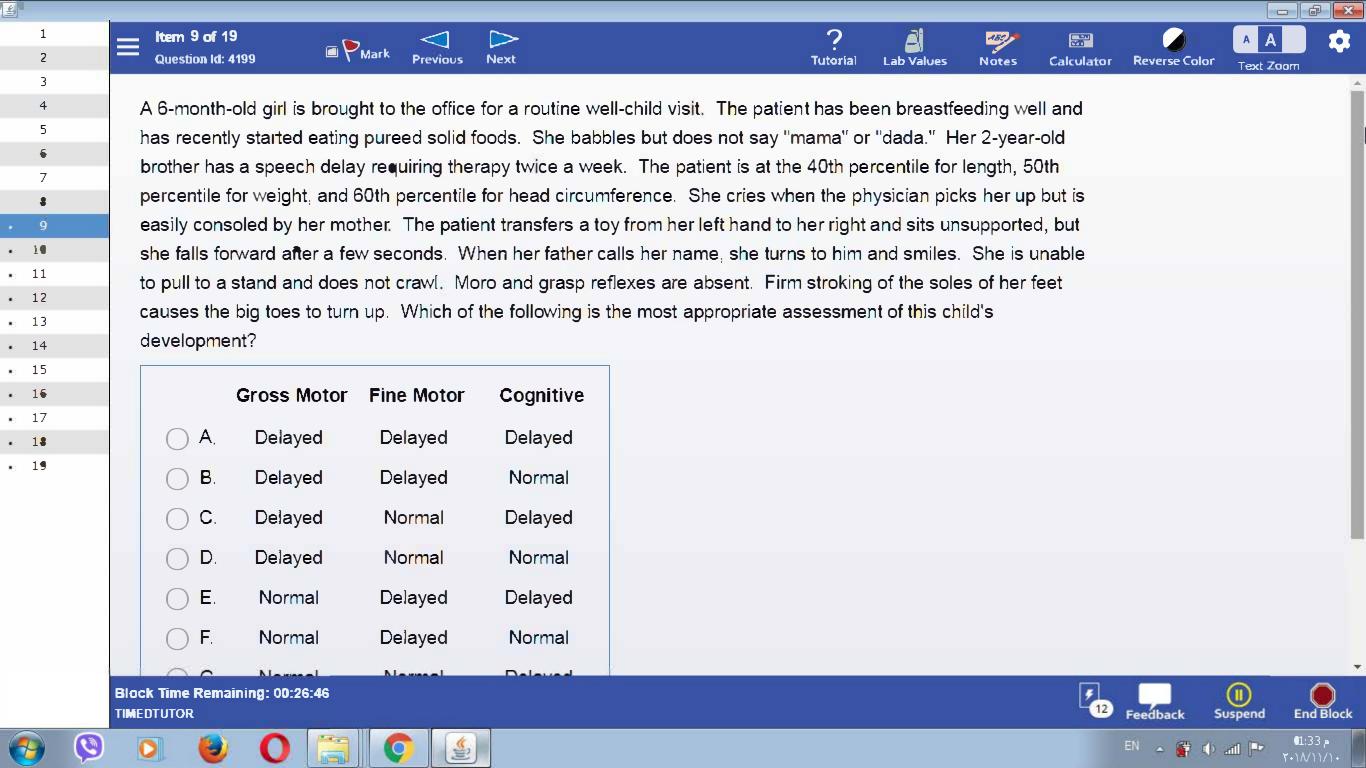


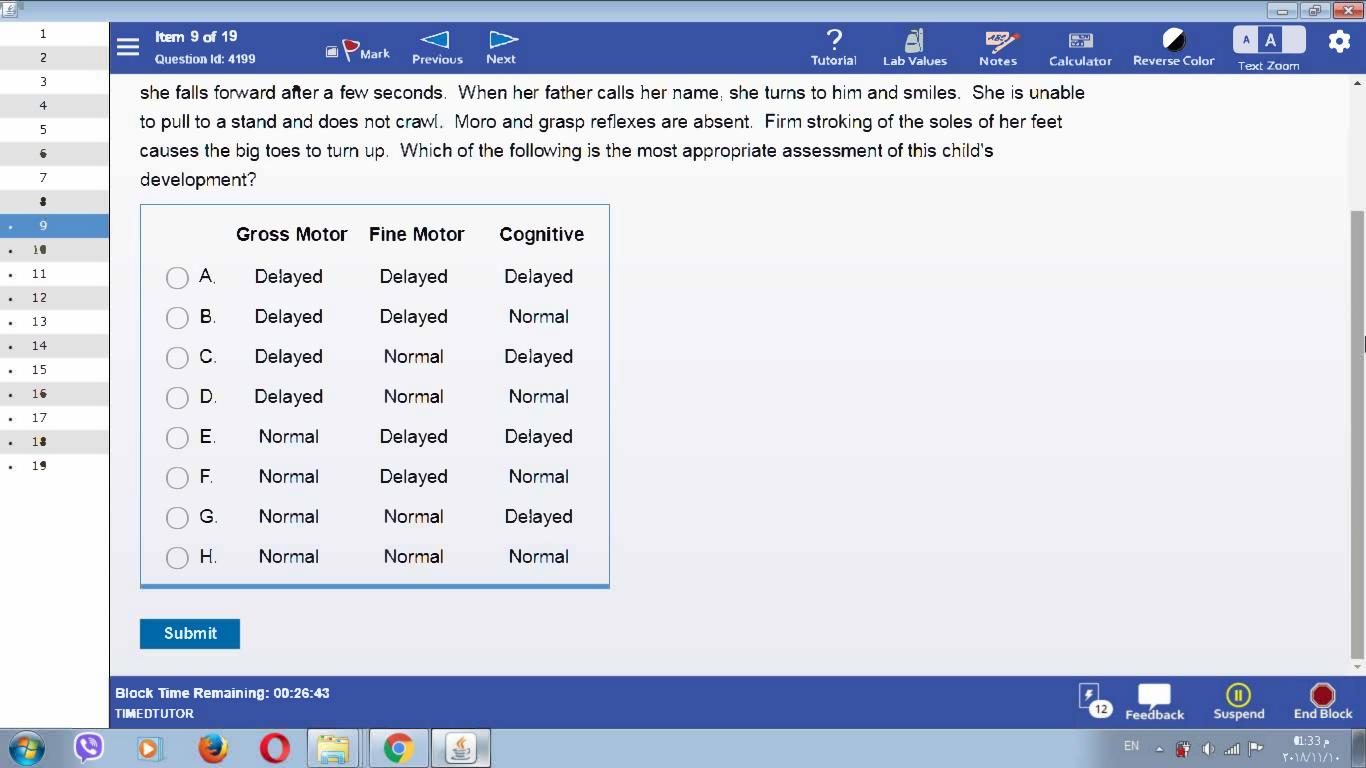


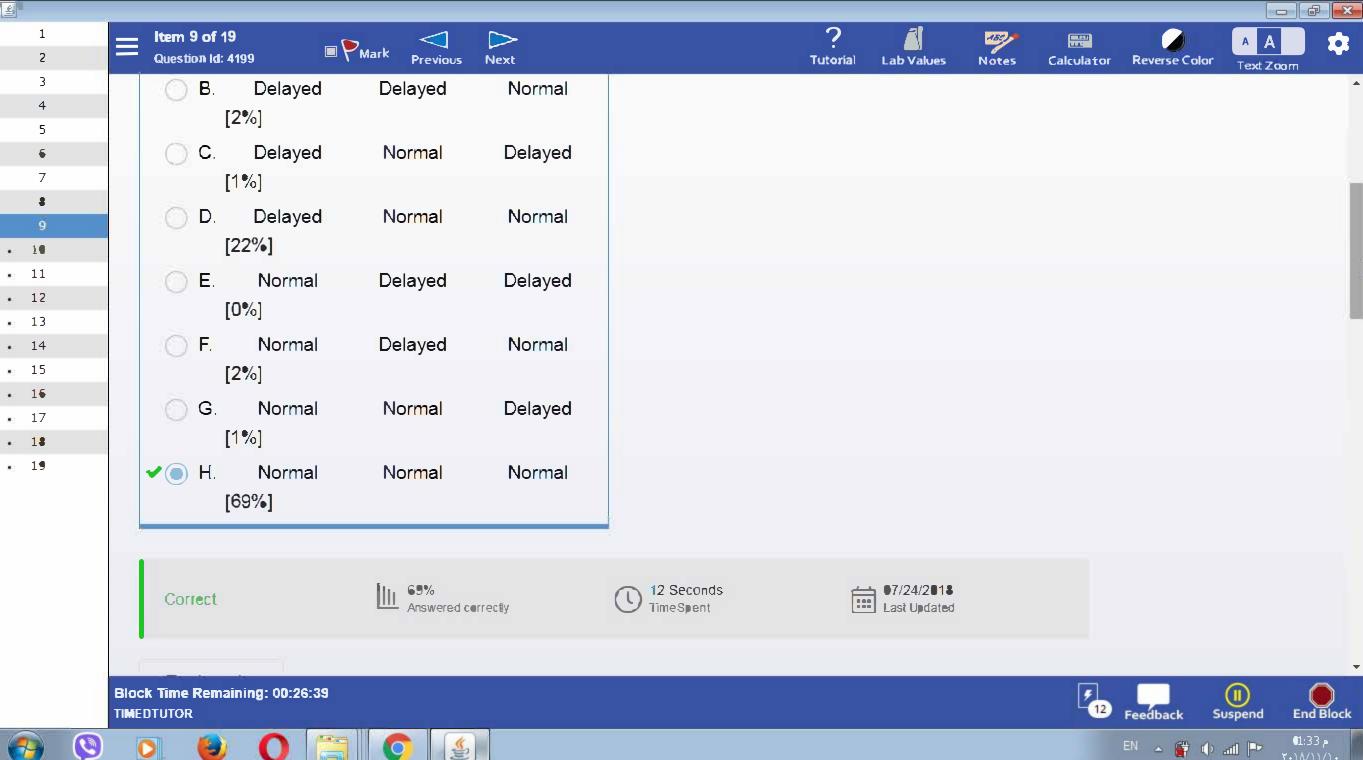




























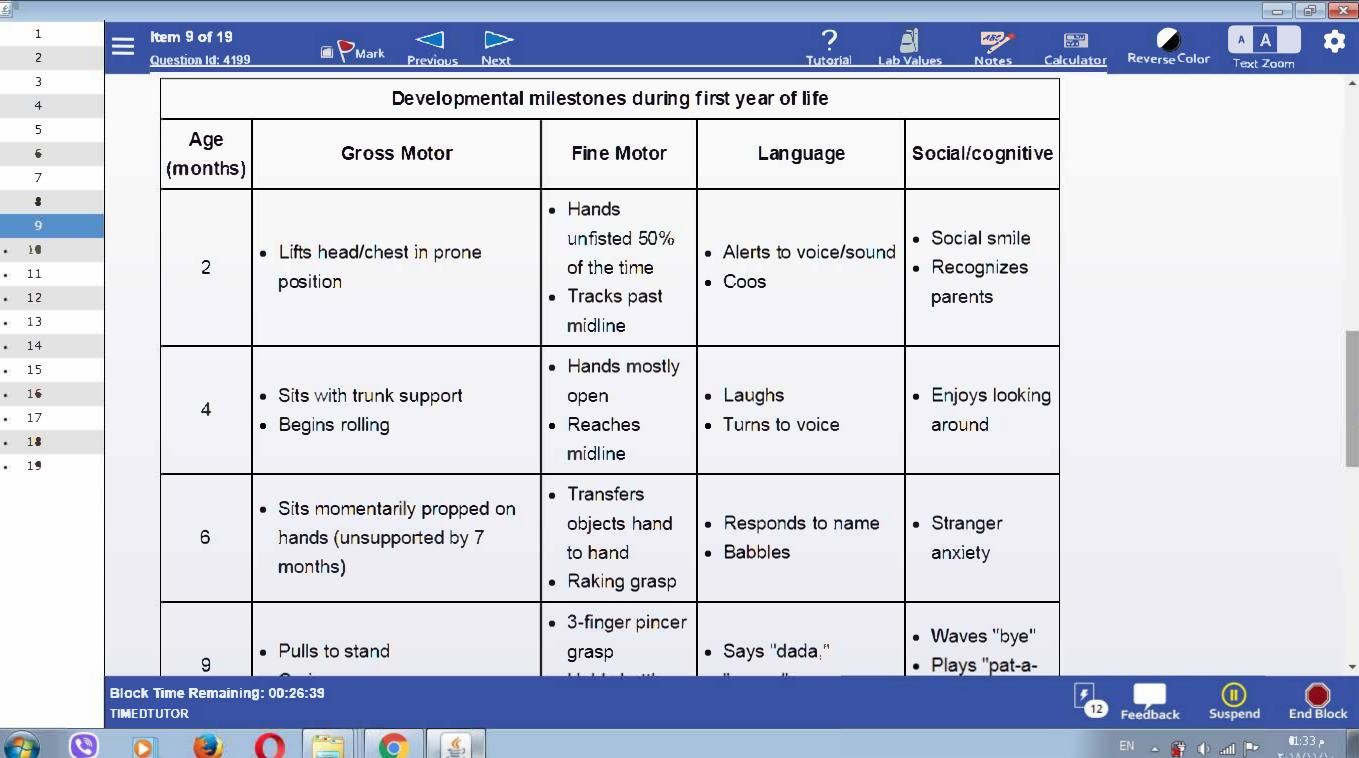




























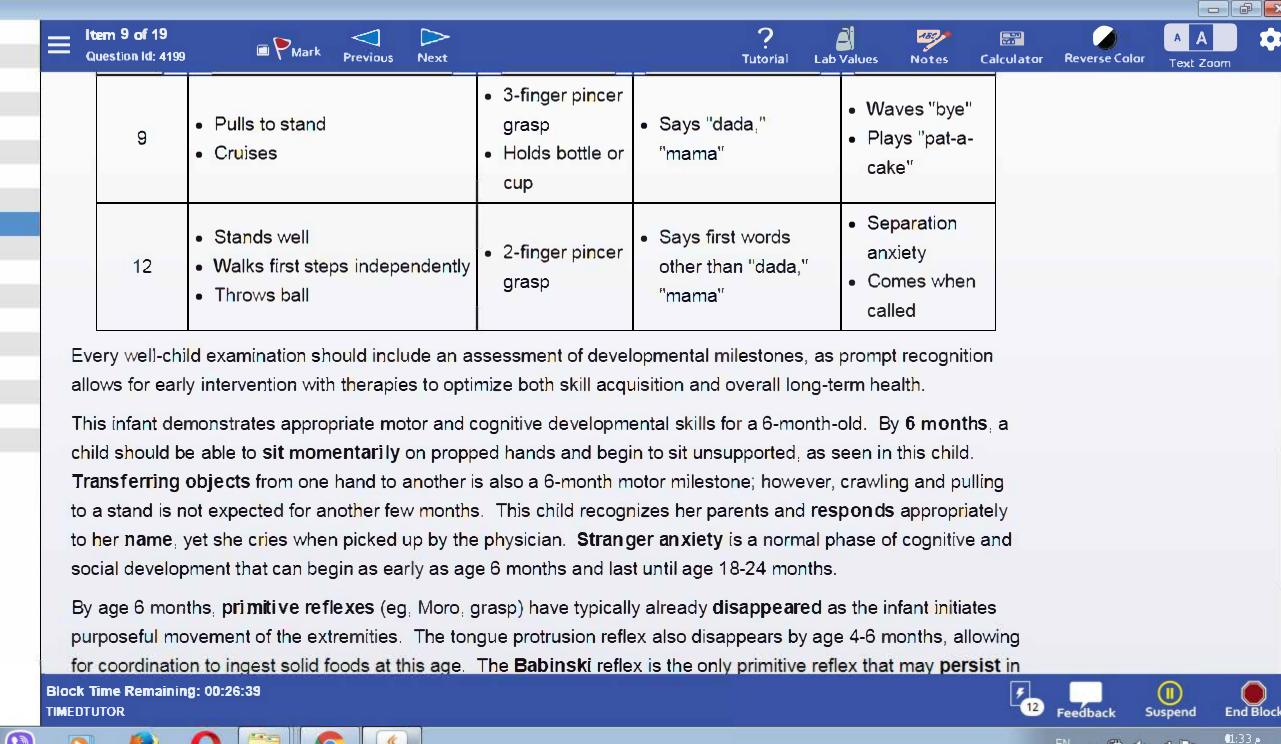














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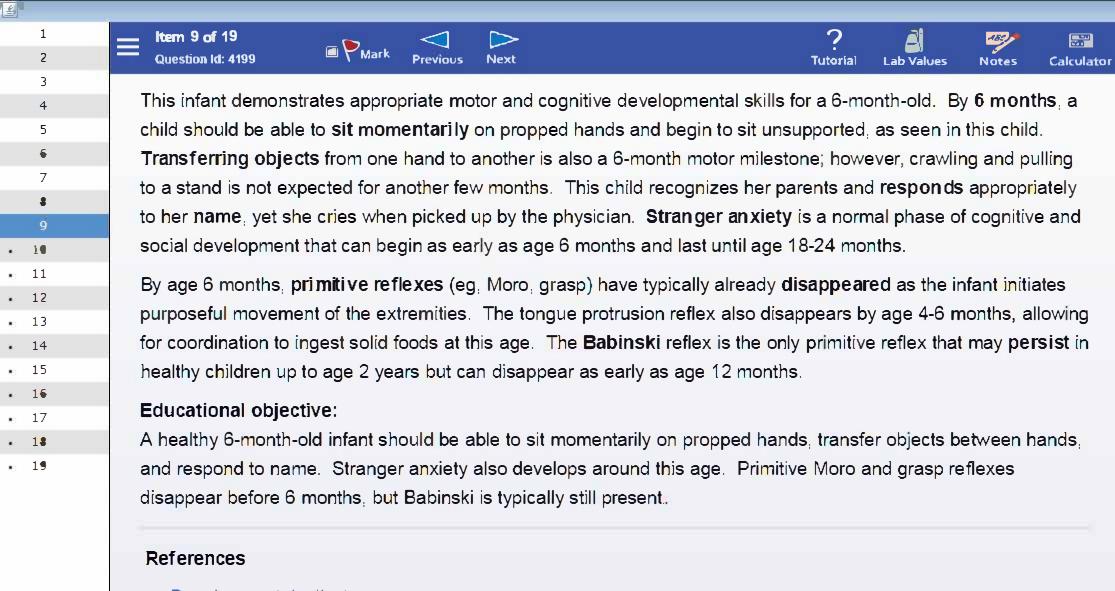












• Developmental milestones.

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Text Zoom

Reverse Color



A 62-year-old man comes to the emergency department because of severe abdominal pain. He states that he suddenly felt weak, diaphoretic, and had no energy. He is a smoker and has hypertension. His blood pressure on initial examination was 110/70 mm Hg. Physical examination shows a diffusely tender abdomen. During CT scan he becomes pale and drowsy. CT scan is shown below.



Repeat examination shows a man with anxiety and a blood pressure of 80/50 mm Hg and pulse of 110/min. Which of the following is the most appropriate next step in management?

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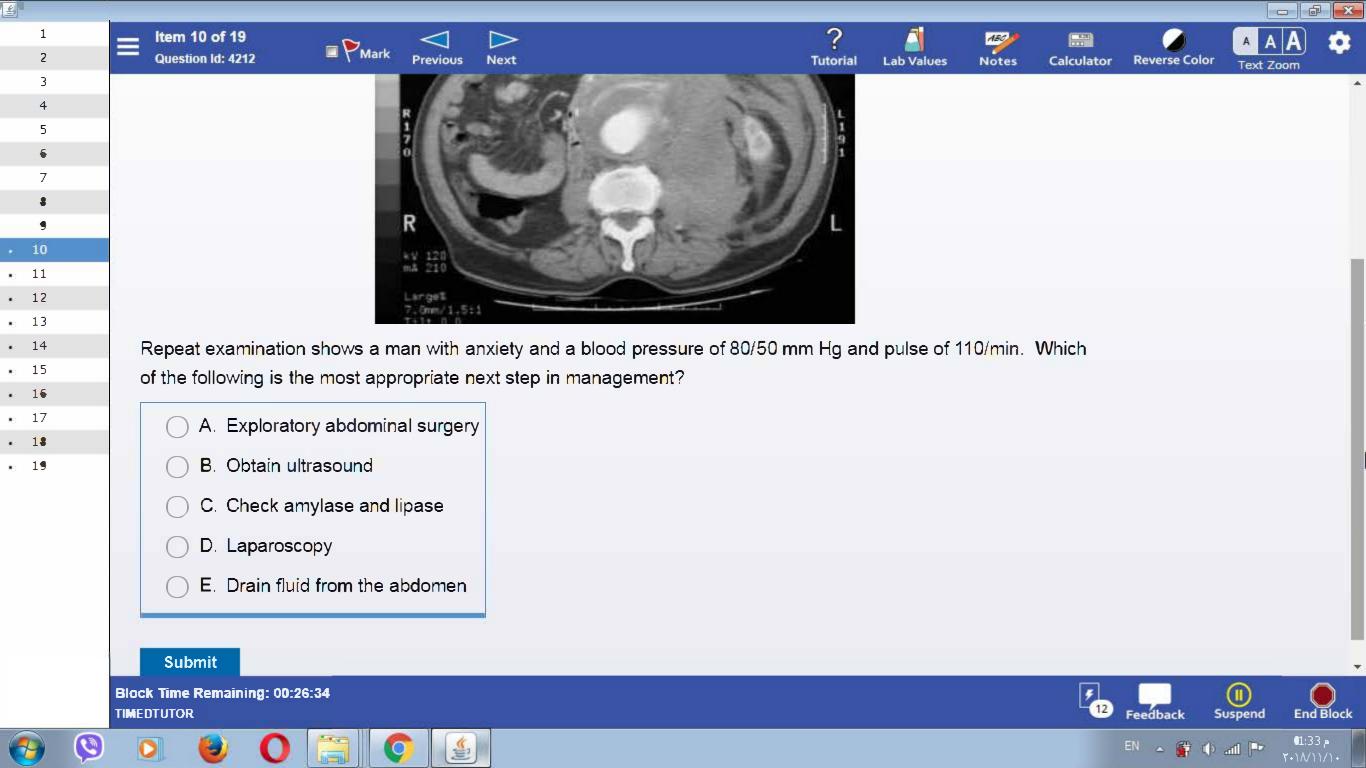


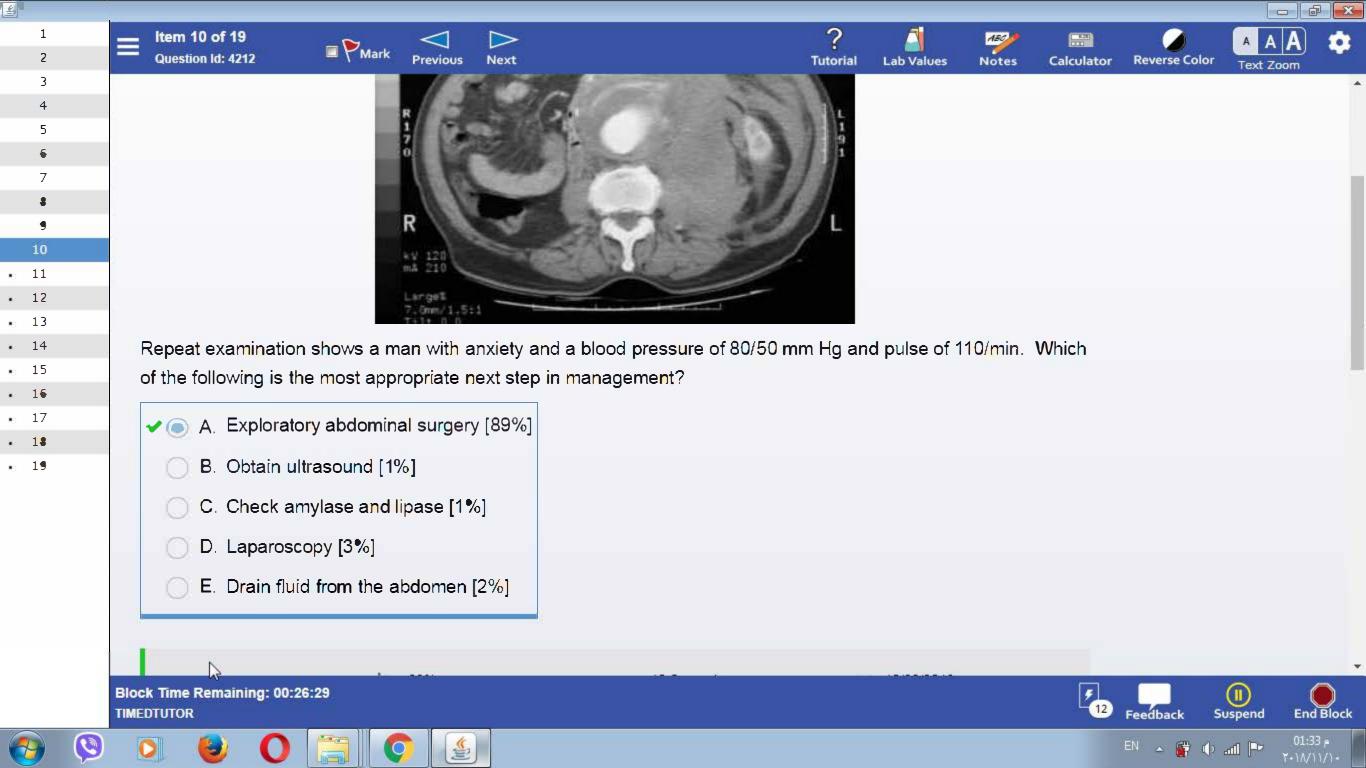


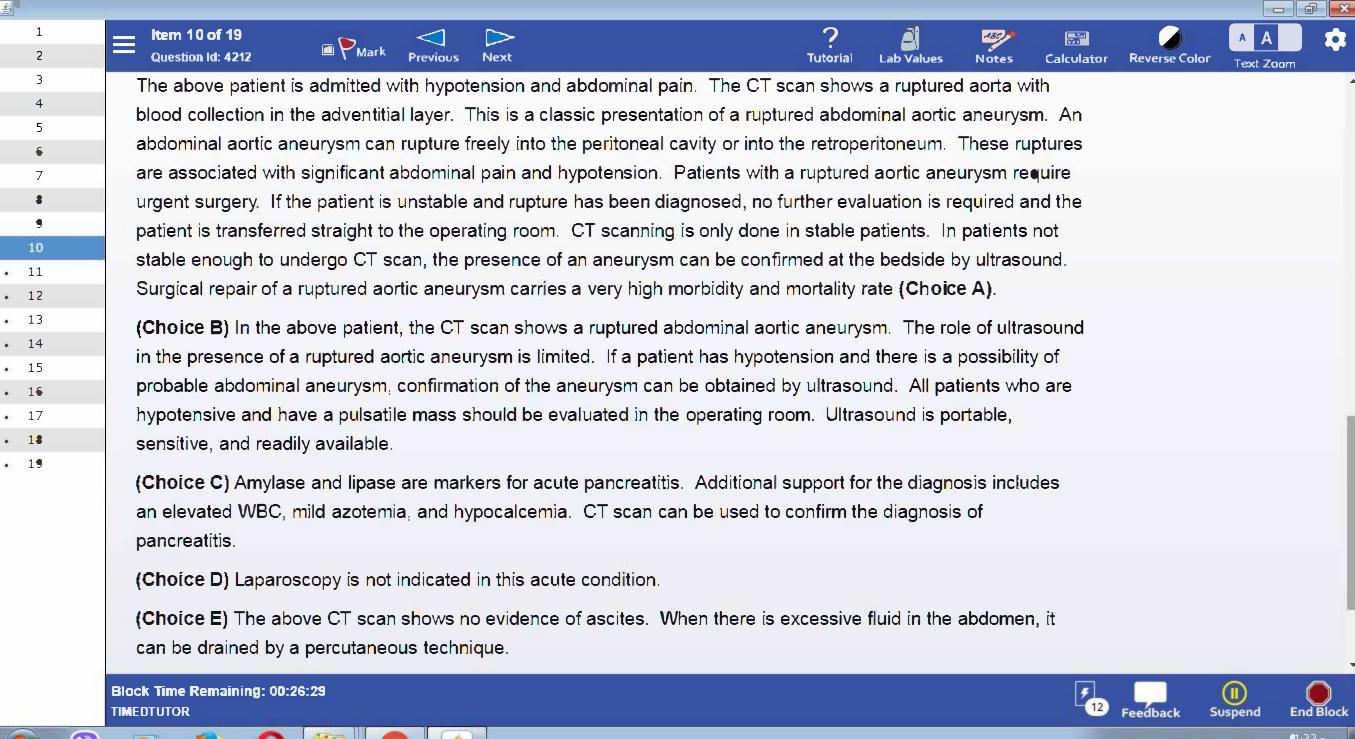


































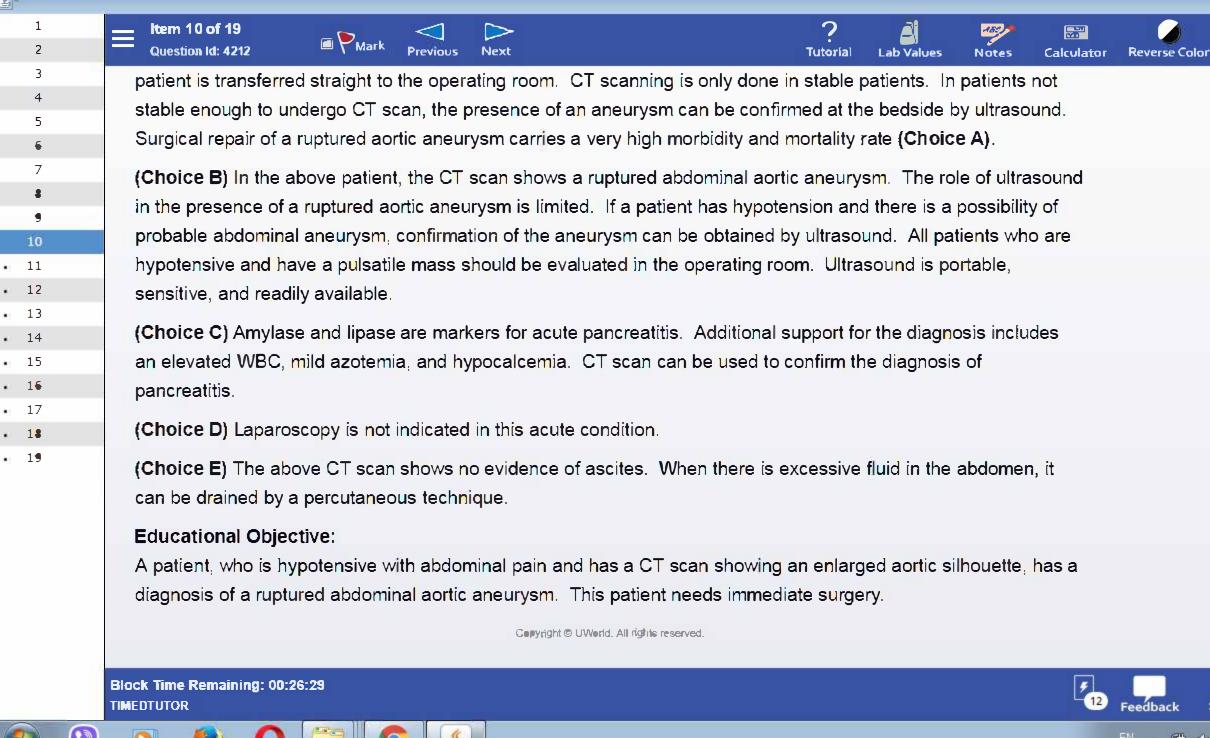


































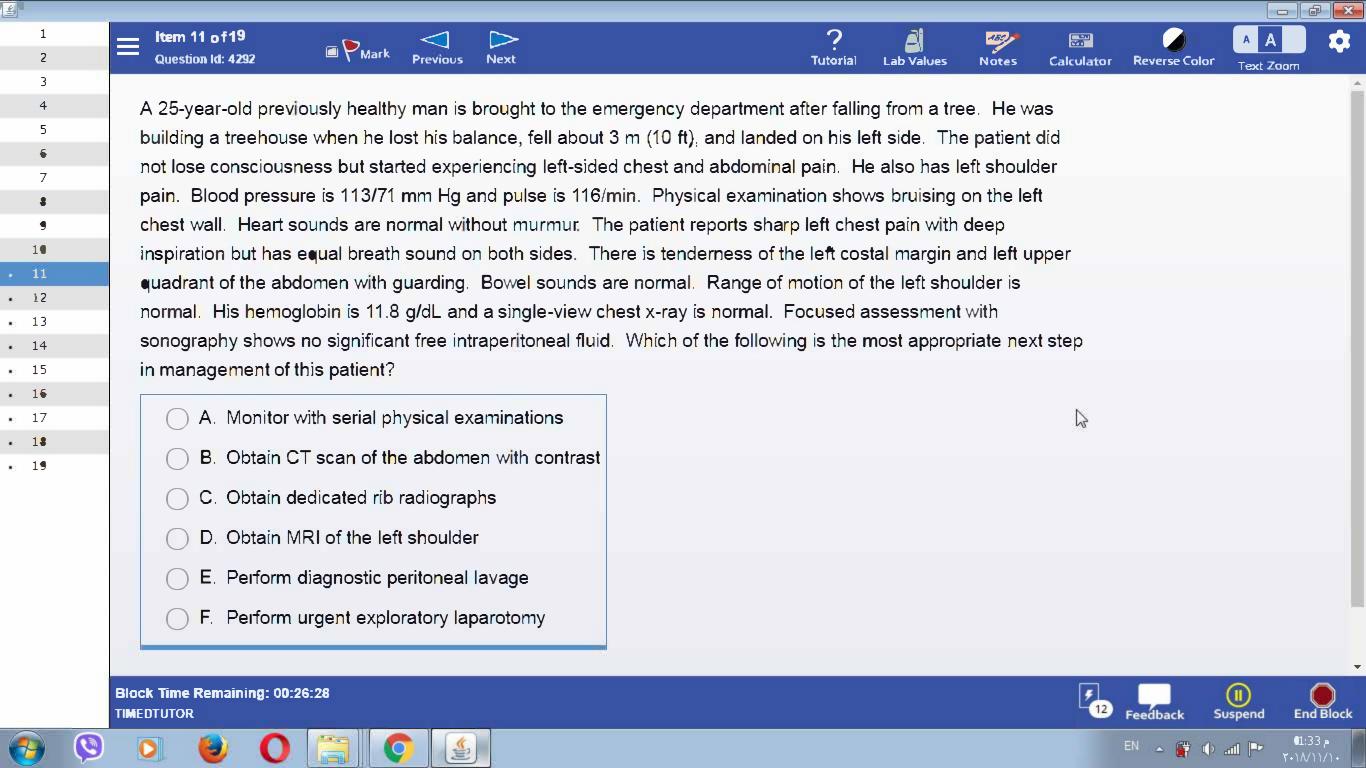


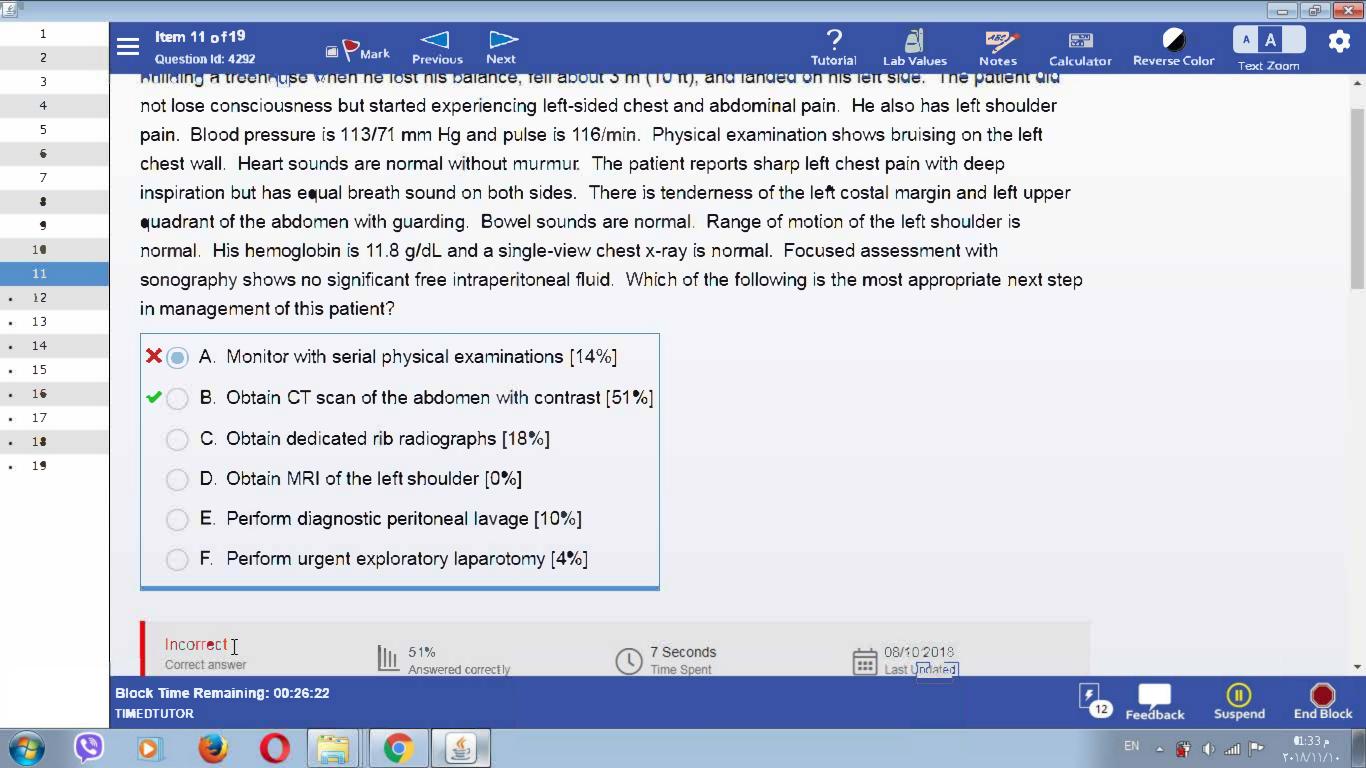


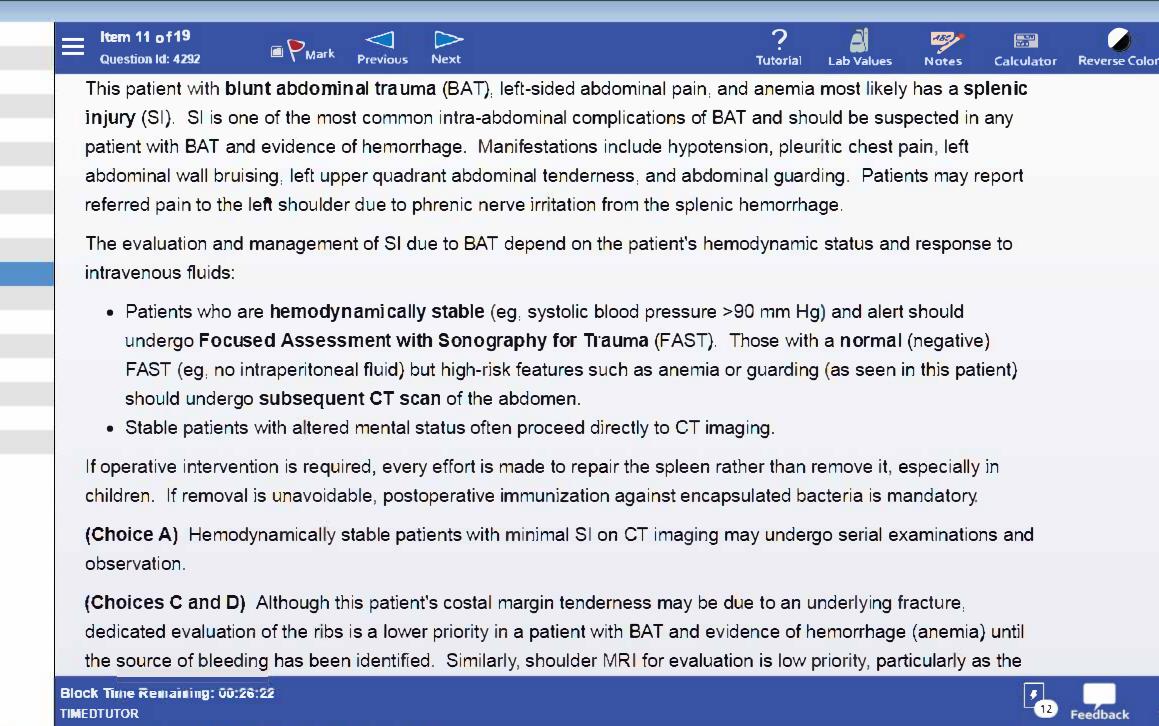














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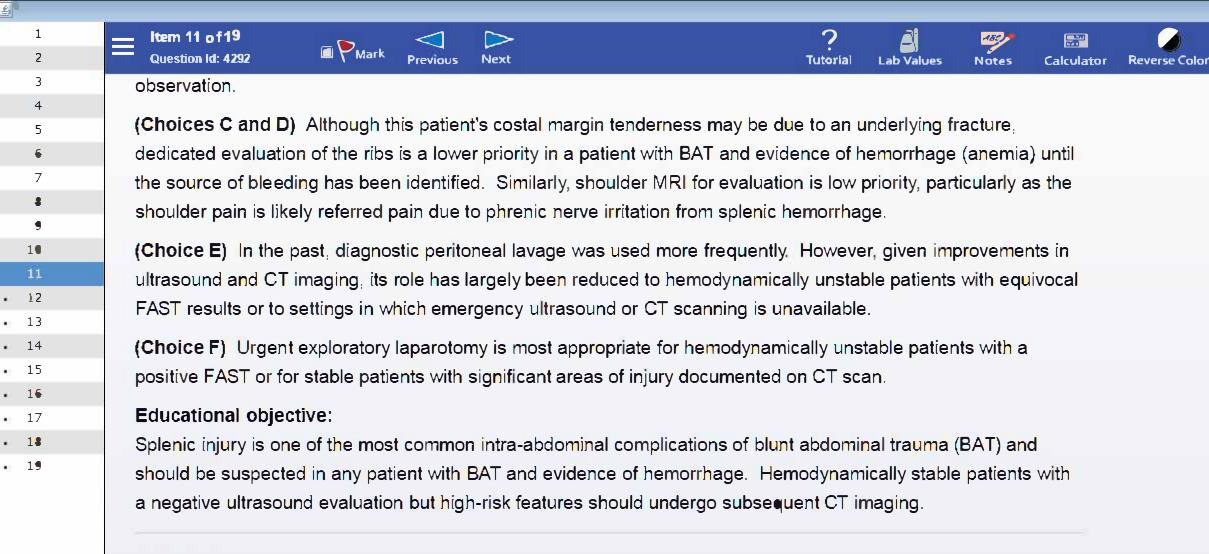






- F X





References

- Investigation of blunt abdominal trauma
- An experience with blunt abdominal trauma: evaluation, management and outcome.

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- F X















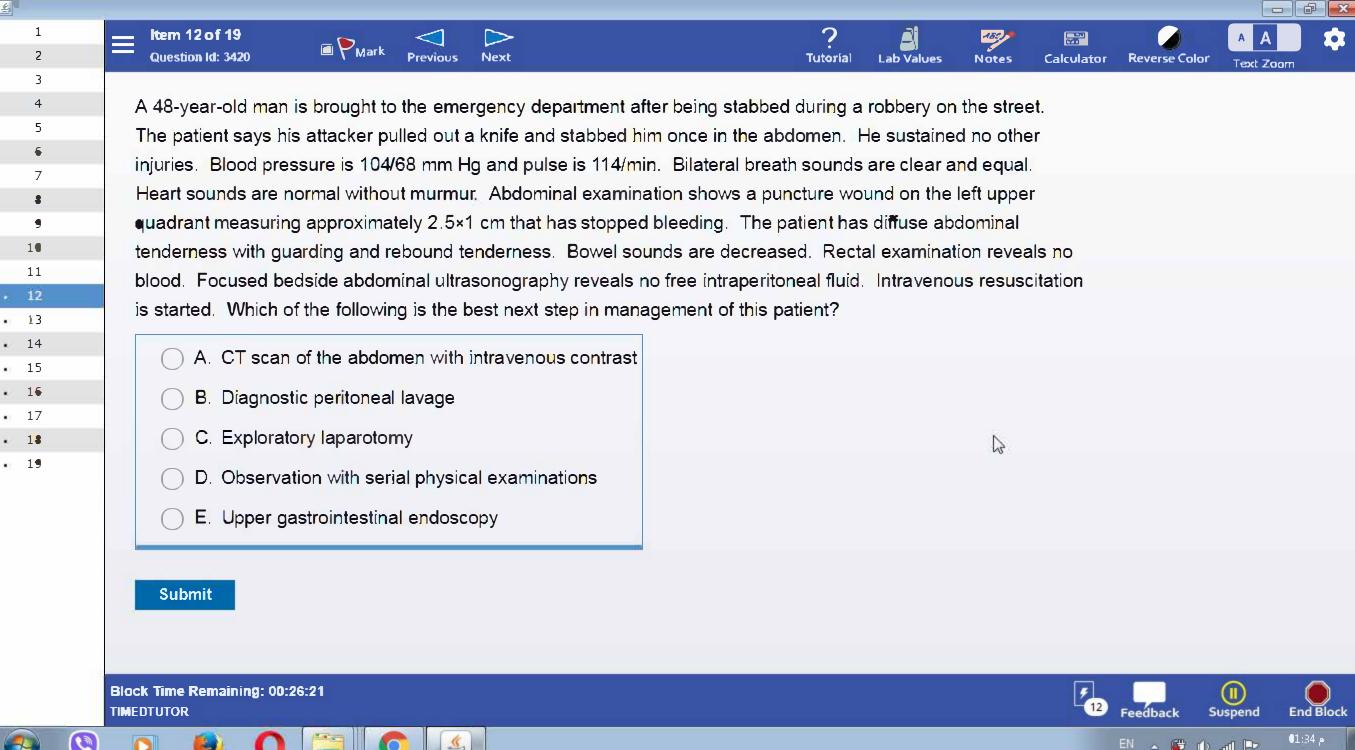


























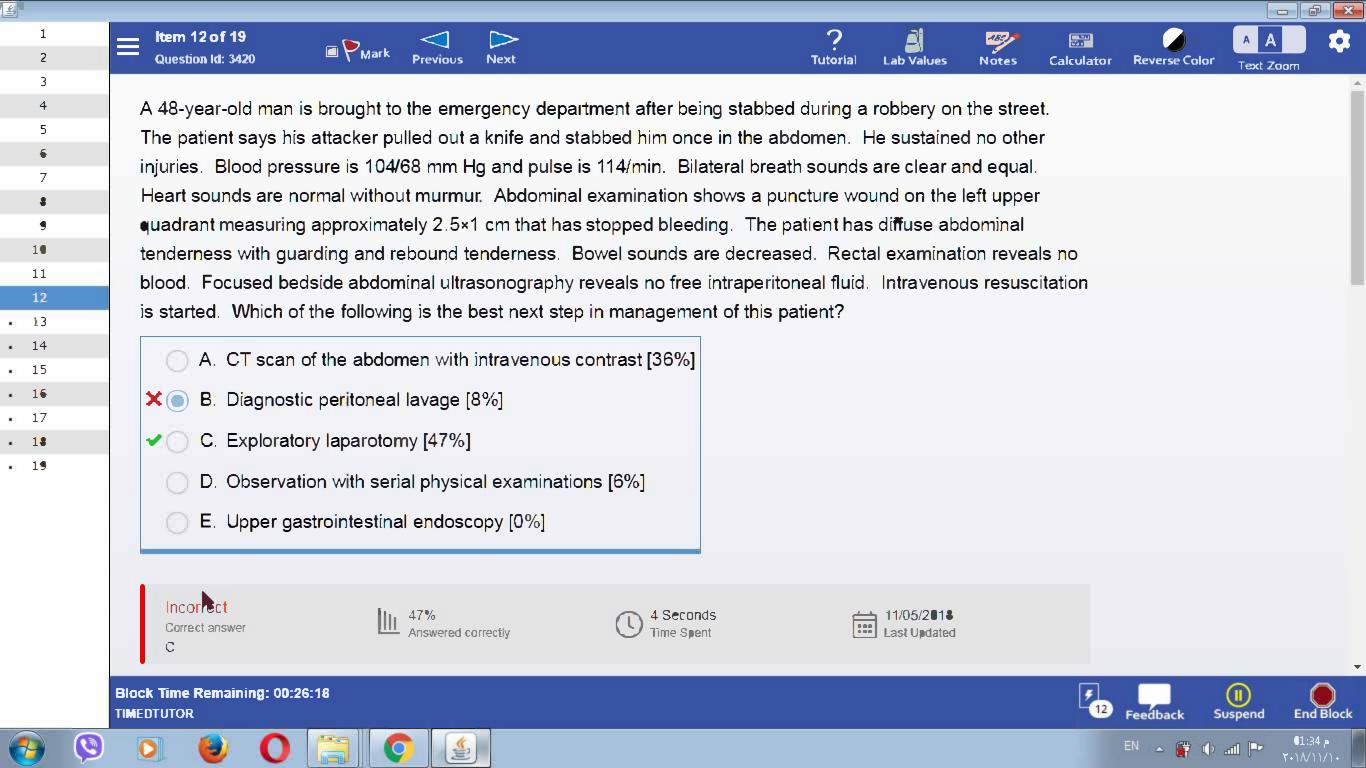


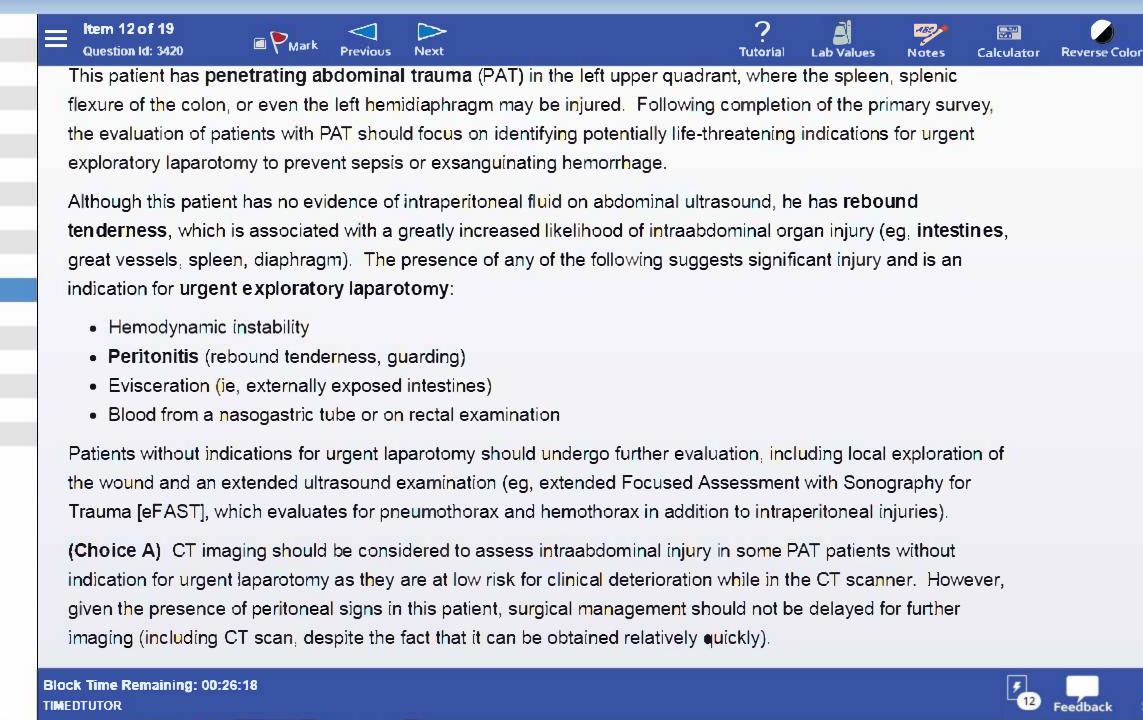














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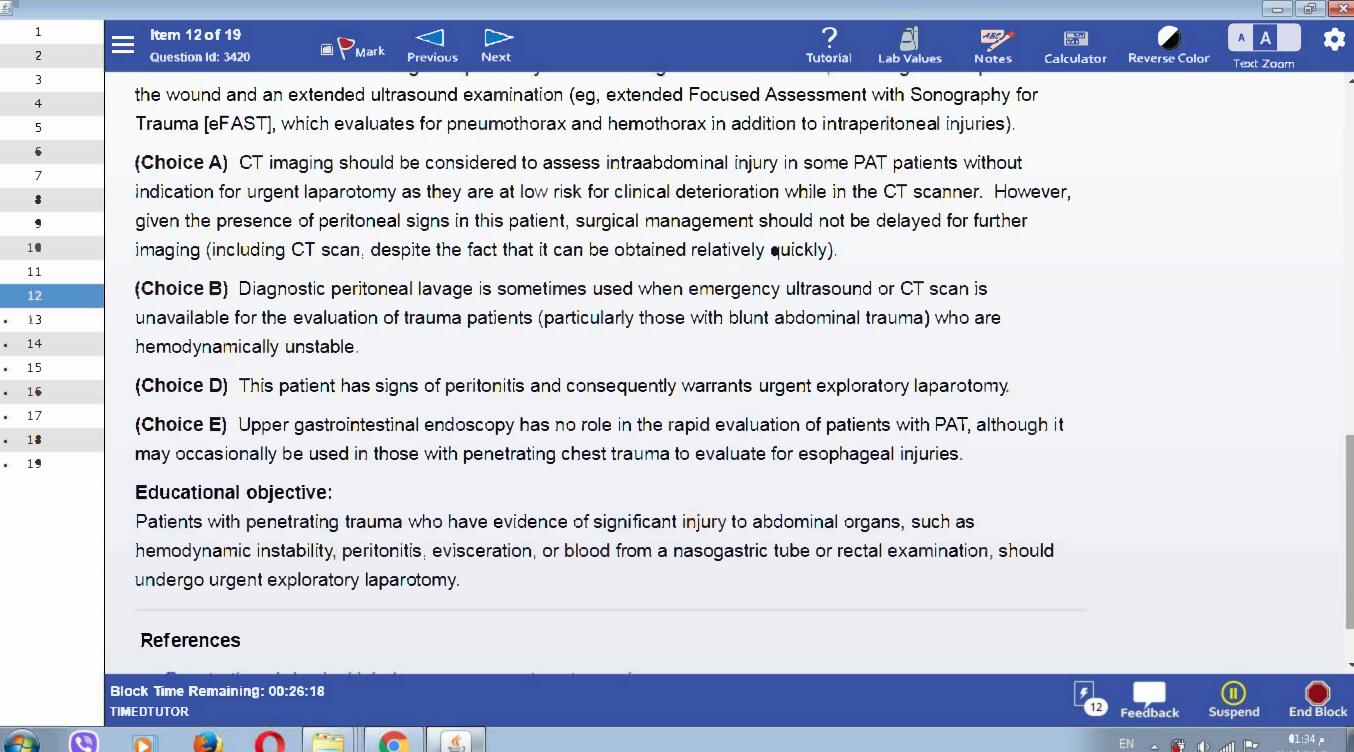






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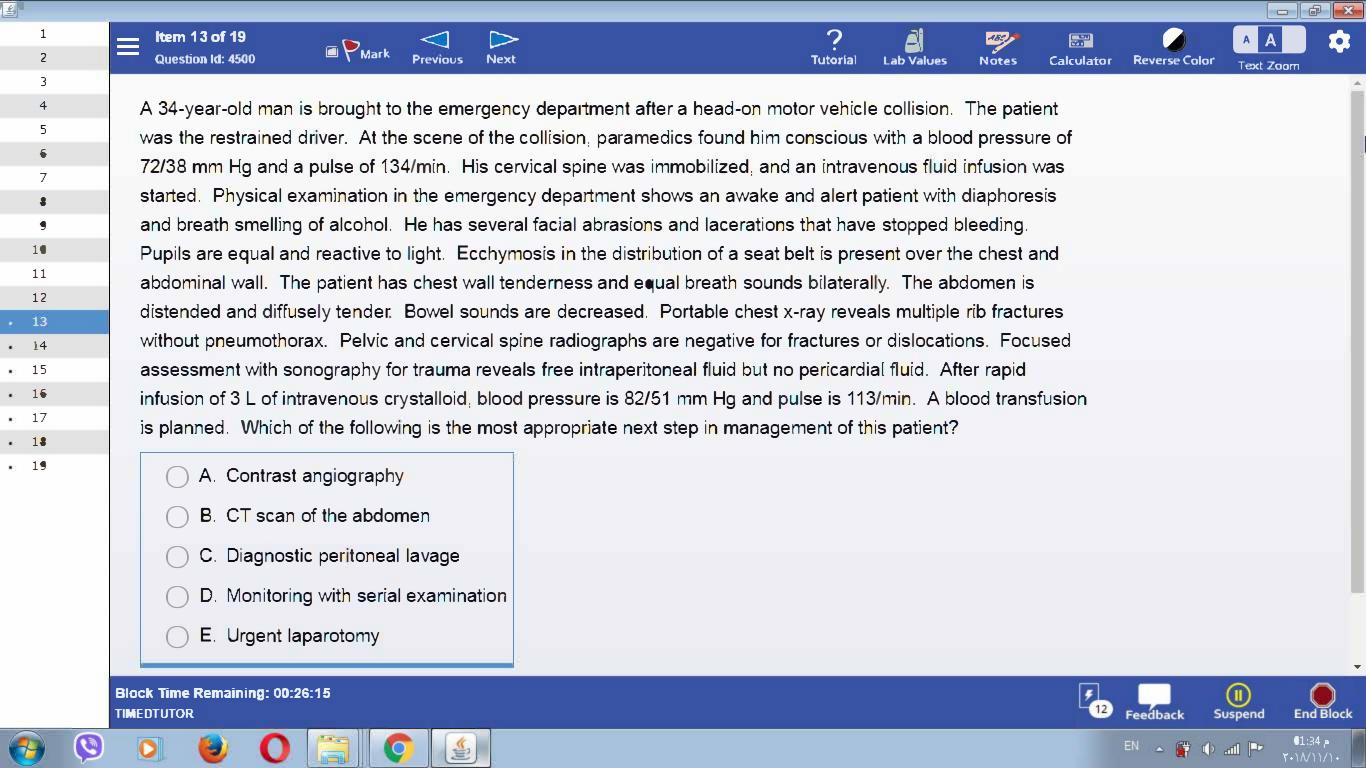


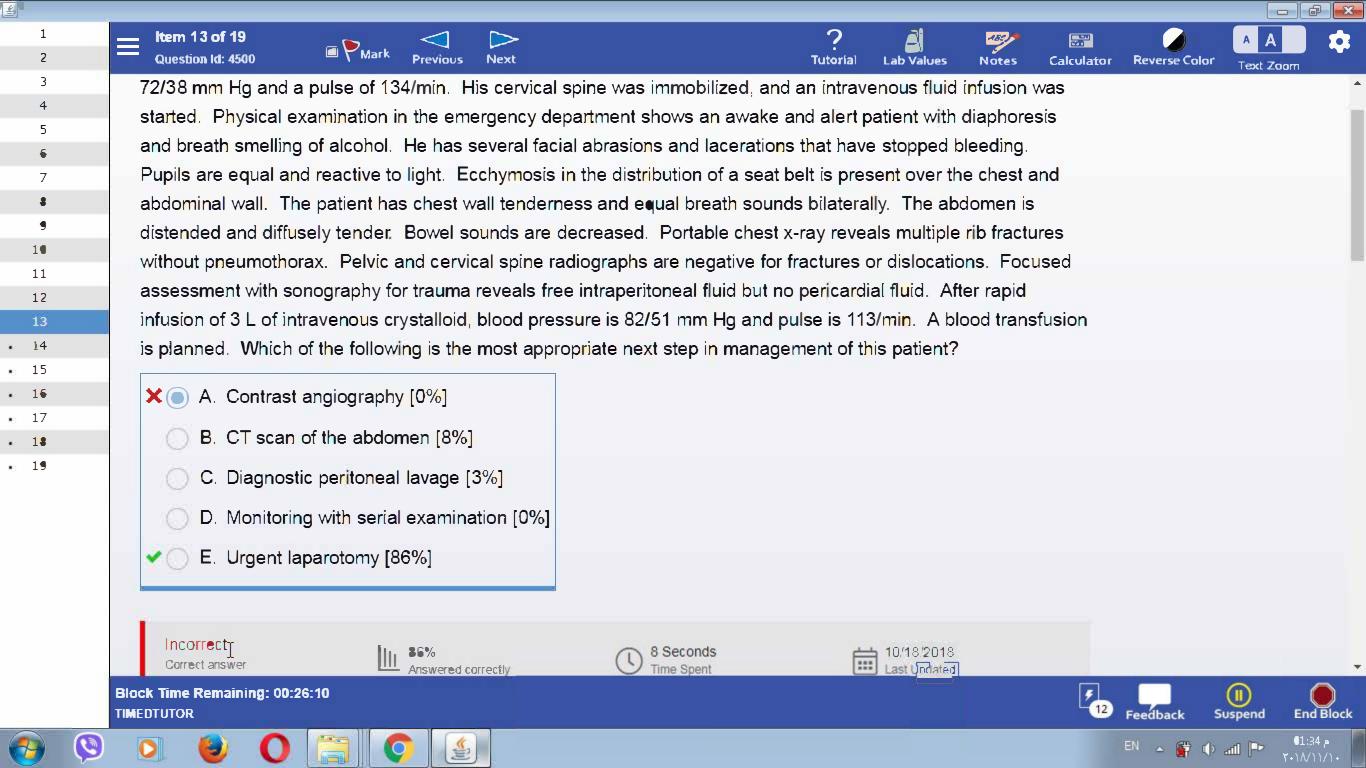


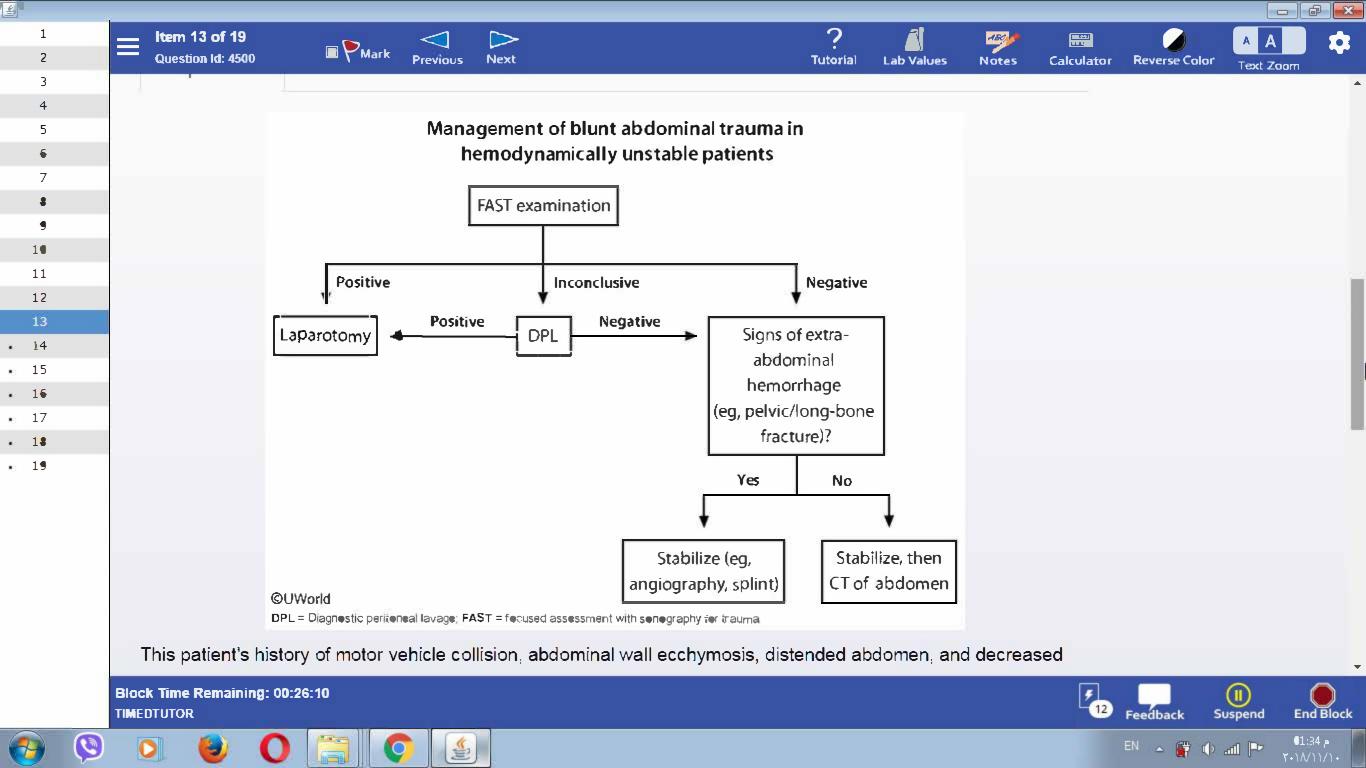


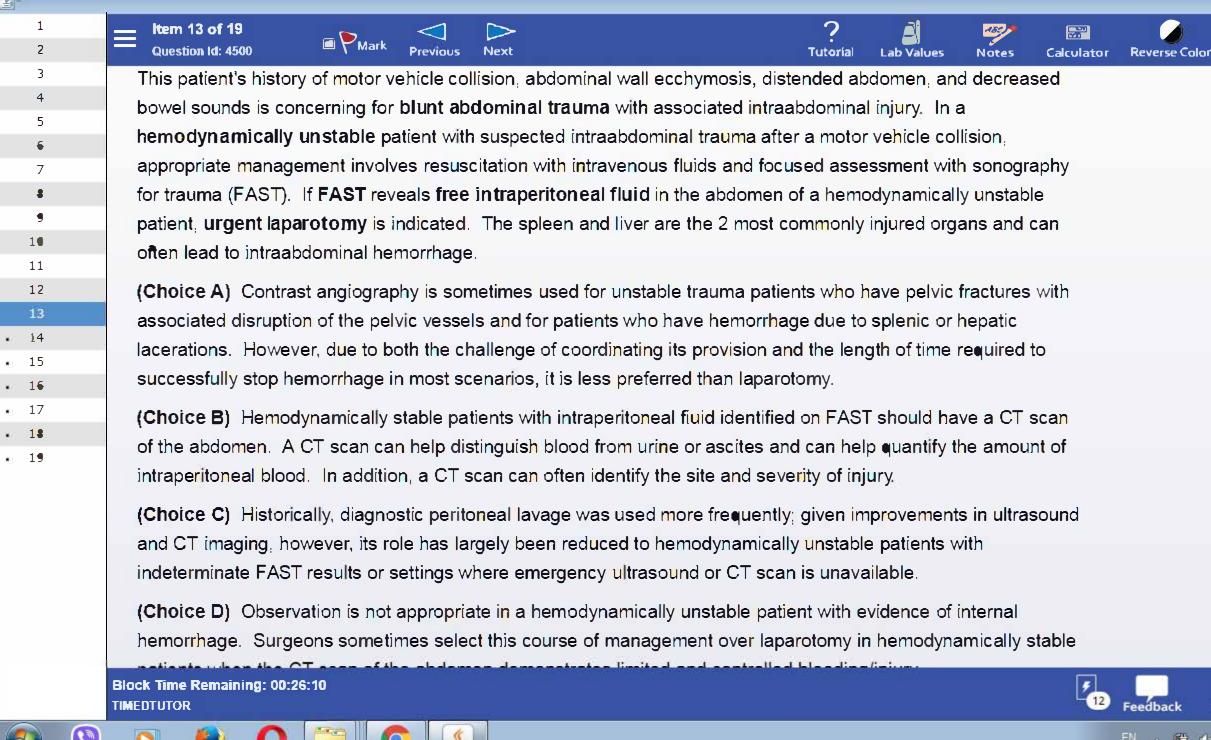
















































Text Zoom

Reverse Color

Calculator









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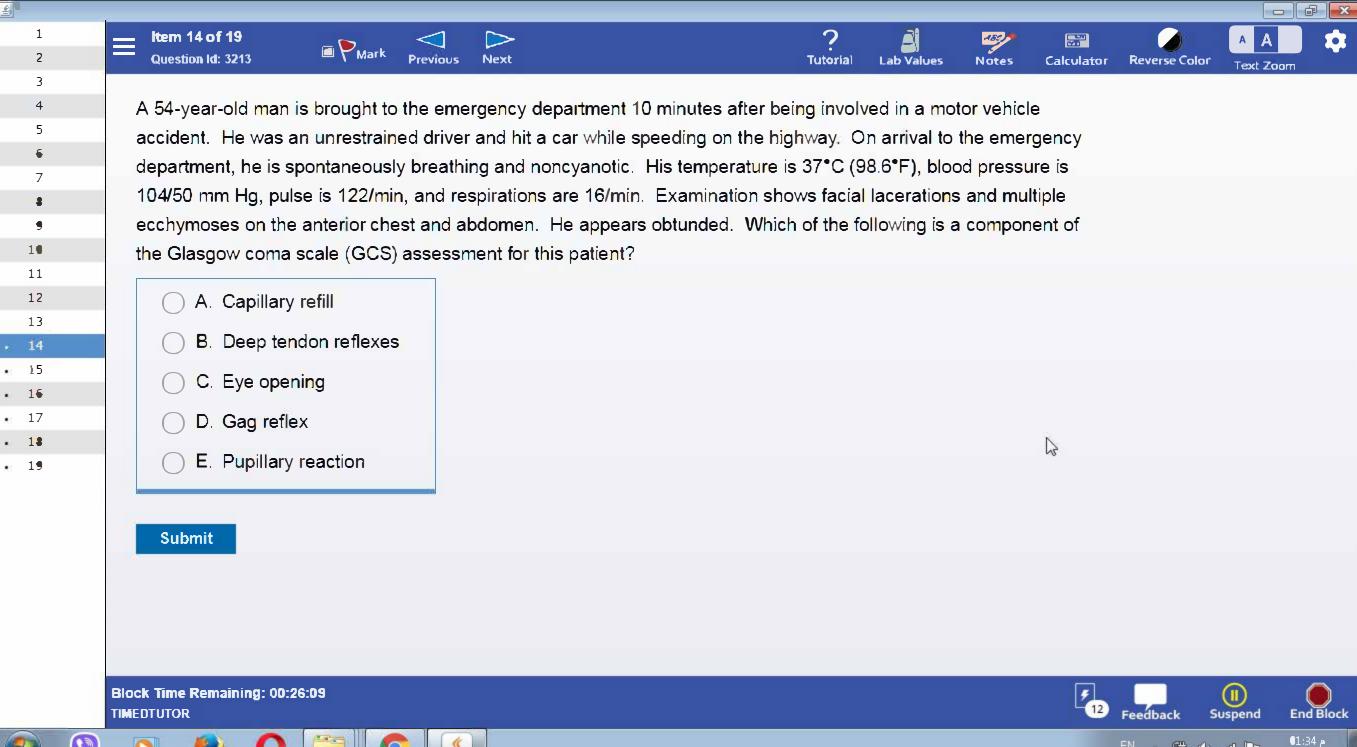
































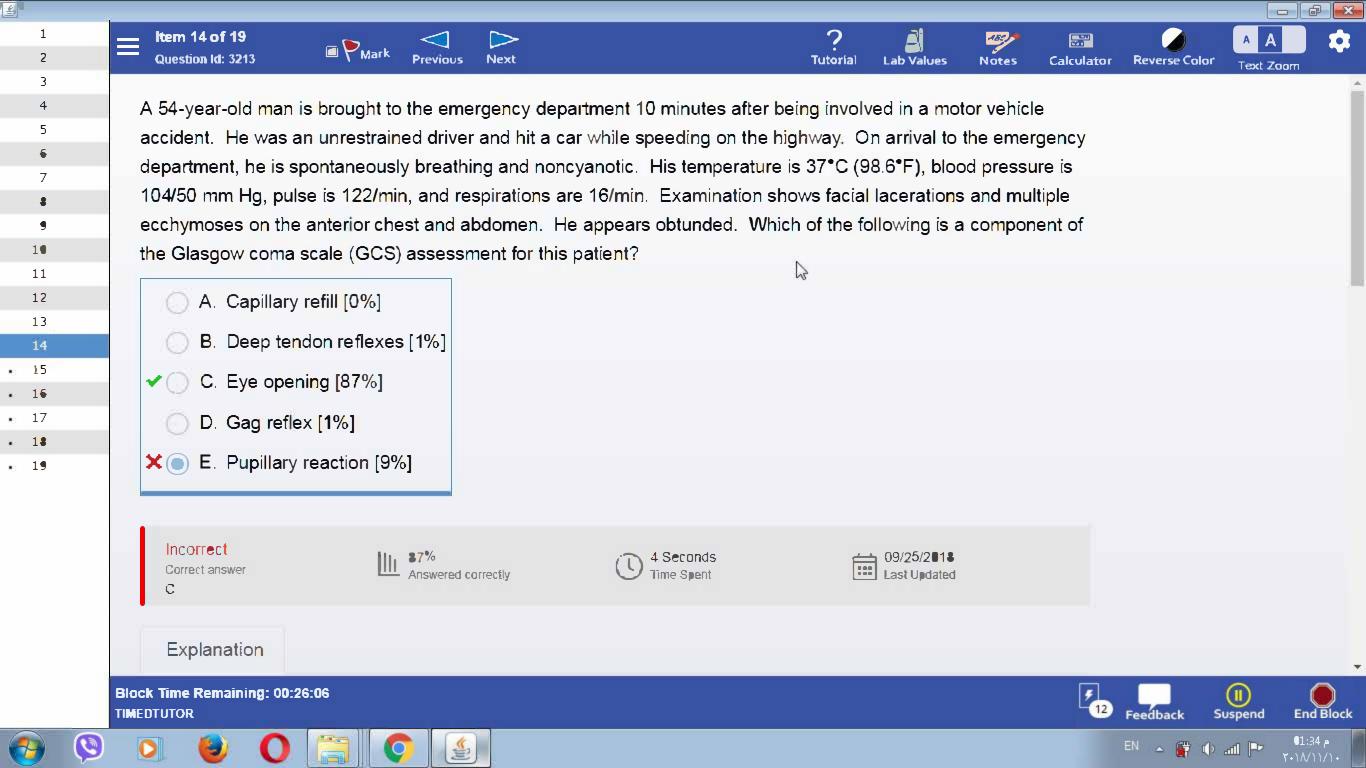












Item 14 of 19 Question Id: 3213



















- F X

This patient presents after a trauma with obtunded mental status and multiple ecchymoses on the chest and abdomen. All trauma patients should be first assessed using the GCS, which estimates the severity of the patient's neurologic injury for triage. The GCS can also give some prognostic information when used in conjunction with the patient's age and presence of concomitant adverse clinical findings, such as hypoxia, cardiovascular compromise, increased intracranial pressure, and radiographic evidence of a midline shift of the brain. Calculation of GCS score is shown below.

Eye Opening	
Spentaneous	4
Te verbal cemmand	ധ
T ● p ain	2
None	1
Verbal Response	
●riented	5
Disoriented / Confused	4
Inapprepriate werds	ω
Incomprehensible sounds	2
None	1
Motor Response	
Obeys	•
L●calizes	5
Withdraws	4
Flexion posturing (Decorticate)	ധ
Extension posturing (Decerebrate)	2
N●ne	1

The GCS is used to predict the prognosis of coma and other medical conditions, such as bacterial meningitis. traumatic brain injury, and subarachnoid hemorrhage. However, the GCS is not used to diagnose coma in a

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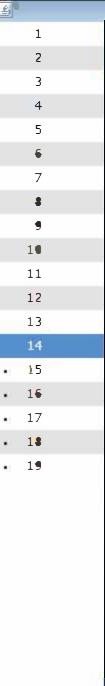


































- F X

The GCS is used to predict the prognosis of coma and other medical conditions, such as bacterial meningitis. traumatic brain injury, and subarachnoid hemorrhage. However, the GCS is not used to diagnose coma in a patient. Findings used to diagnose coma include impaired brainstem activity (e.g., disruption of the pupillary light, extraocular, and corneal reflexes), motor dysfunction (e.g., decorticate or decerebrate posturing), and impaired level of consciousness (Choice E).

(Choice A) Capillary refill is a marker of peripheral perfusion. It can be delayed beyond the normal 3 seconds in hypotension and volume depletion but is not used in the GCS.

(Choice B) Exaggerated deep tendon reflexes can be seen in locked-in syndrome, which mimics coma but is due to an ischemic or hemorrhagic stroke of the brainstem area. Patients have total paralysis of the limbs and an inability to speak, retain cognition and alertness, and can only communicate with their eyes.

(Choice D) The gag reflex is tested to evaluate for proper cranial nerve function and swallowing mechanism to prevent foreign objects from entering the pharynx, larynx, or trachea. Up to 20% of the normal patients can have an absent gag reflex. This is not used as a test in the GCS.

Educational objective:

All trauma patients should be triaged using the Glasgow coma scale (GCS), which can predict the severity and prognosis of coma, during the primary survey. The GCS assesses the patient's ability to open his/her eyes, motor response, and verbal response.

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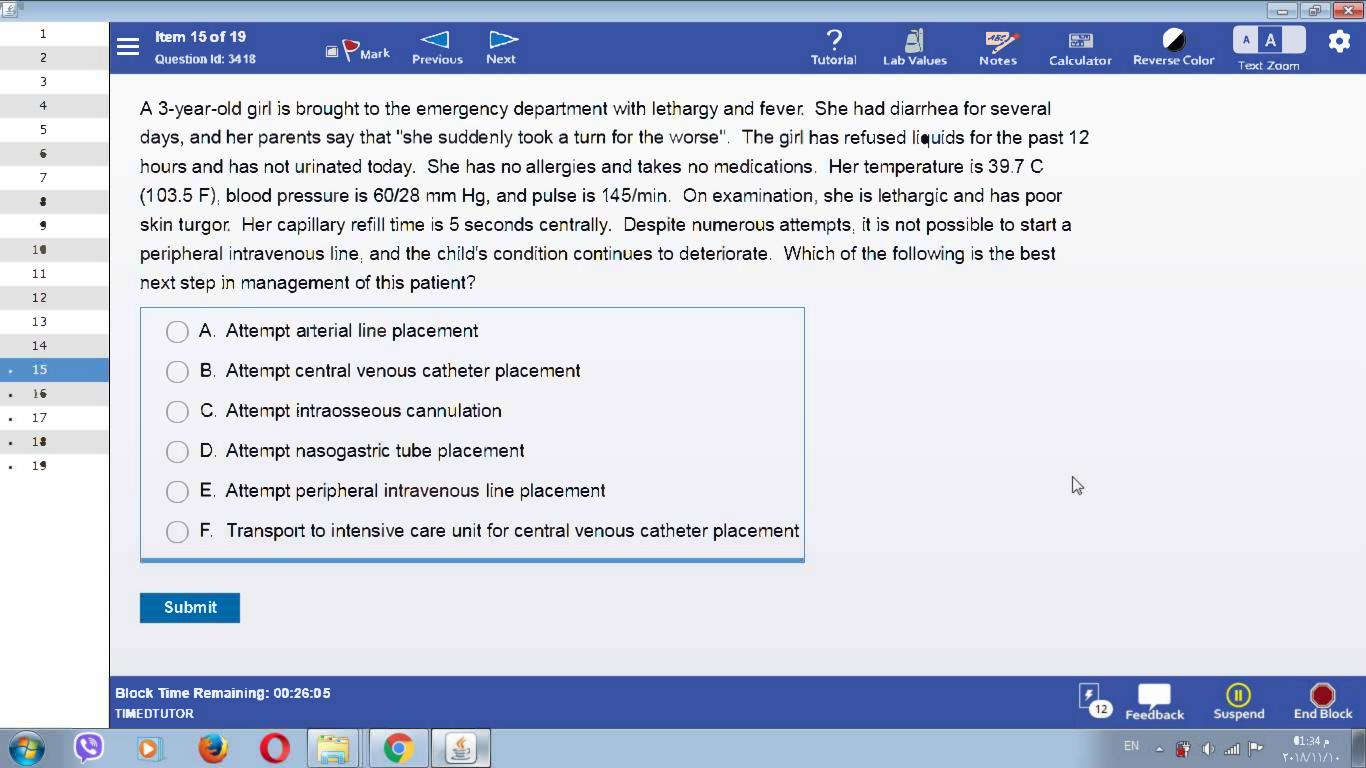


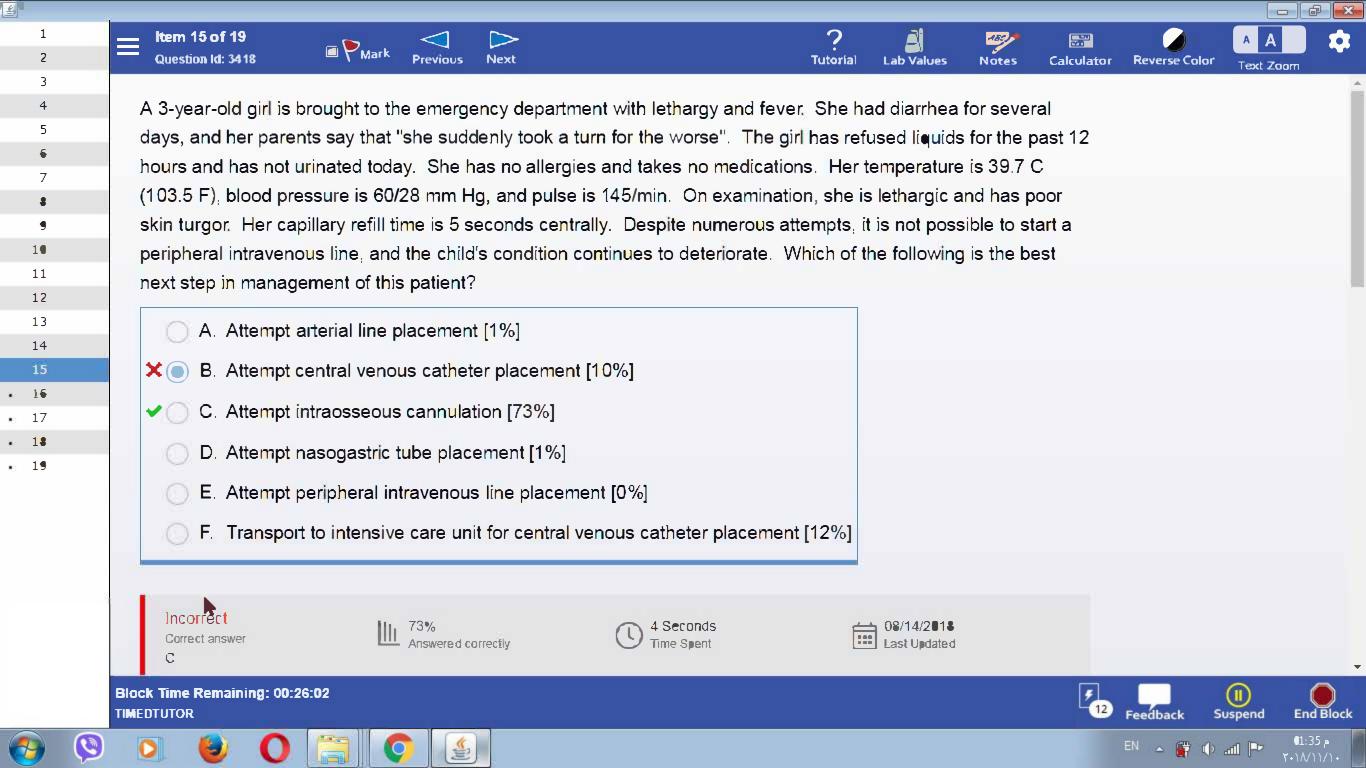




























This child's presentation is concerning for hypovolemic or septic shock and requires emergency fluid resuscitation. When intravenous access cannot be obtained in emergency cases, intraosseous (IO) access should be attempted immediately. IO access requires less skill and practice than central line placement, and clinical trials have demonstrated IO lines to be safer and faster than central lines. IO catheters provide a cannula large enough to deliver fluids and medications rapidly and to obtain blood samples for laboratory testing.

The most common site for IO access is the proximal tibia due to its wide, flat surface and distance from the sternum in case cardiopulmonary resuscitation is performed simultaneously. However, any large bone can be used. IO catheters can be placed manually or with a driver. Contraindications to IO placement include infection (eg. cellulitis) overlying the access site, fracture or previous IO attempts in the chosen extremity, or bone fragility

(Choice A) Arterial lines are used for continuous blood pressure monitoring and to draw laboratory studies. They are not used for fluid resuscitation and should be placed after the patient has been resuscitated as the procedure

(Choices B and F) Central catheters take longer to place than IO lines and require a higher amount of procedural skill and practice. This child needs immediate access for fluid resuscitation, and transporting her within the hospital will cause delays. A central line can be placed later if necessary when the patient is stable.

(Choice D) Although nasogastric fluids are preferred for mild to moderate dehydration associated with gastrointestinal disease, they are not recommended in shock, when the splanchnic circulation is constricted. At this point, absorption of enteral fluids will not be rapid enough to correct the patient's hypovolemia.





















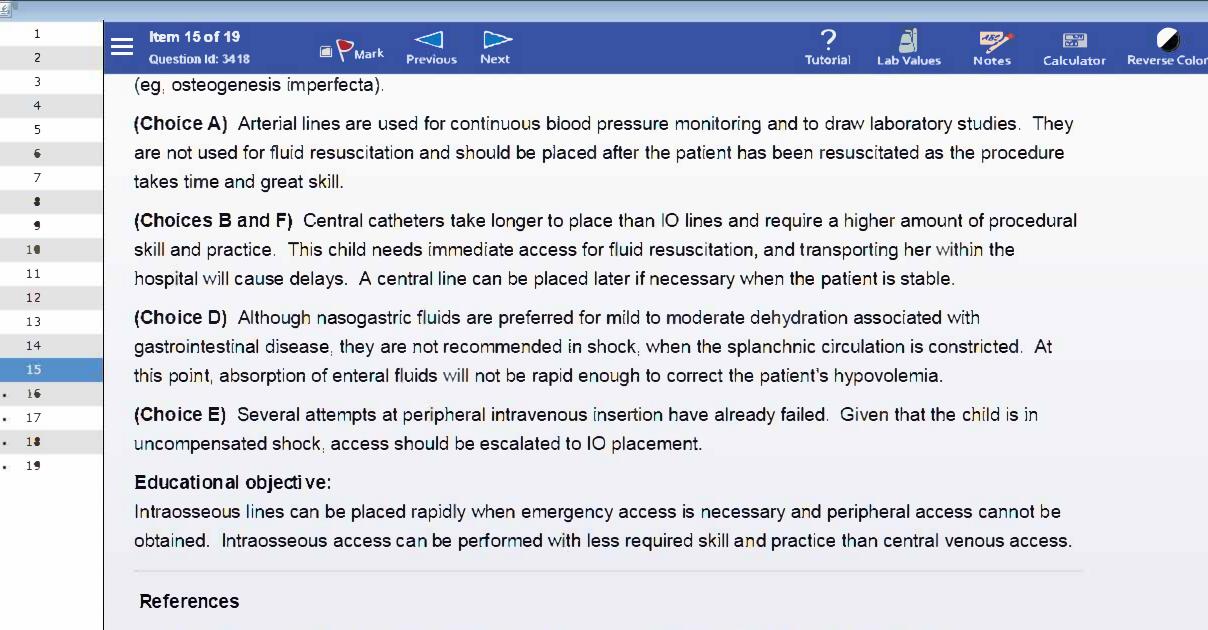












• Comparison of umbilical venous and intraosseous access during simulated neonatal resuscitation.

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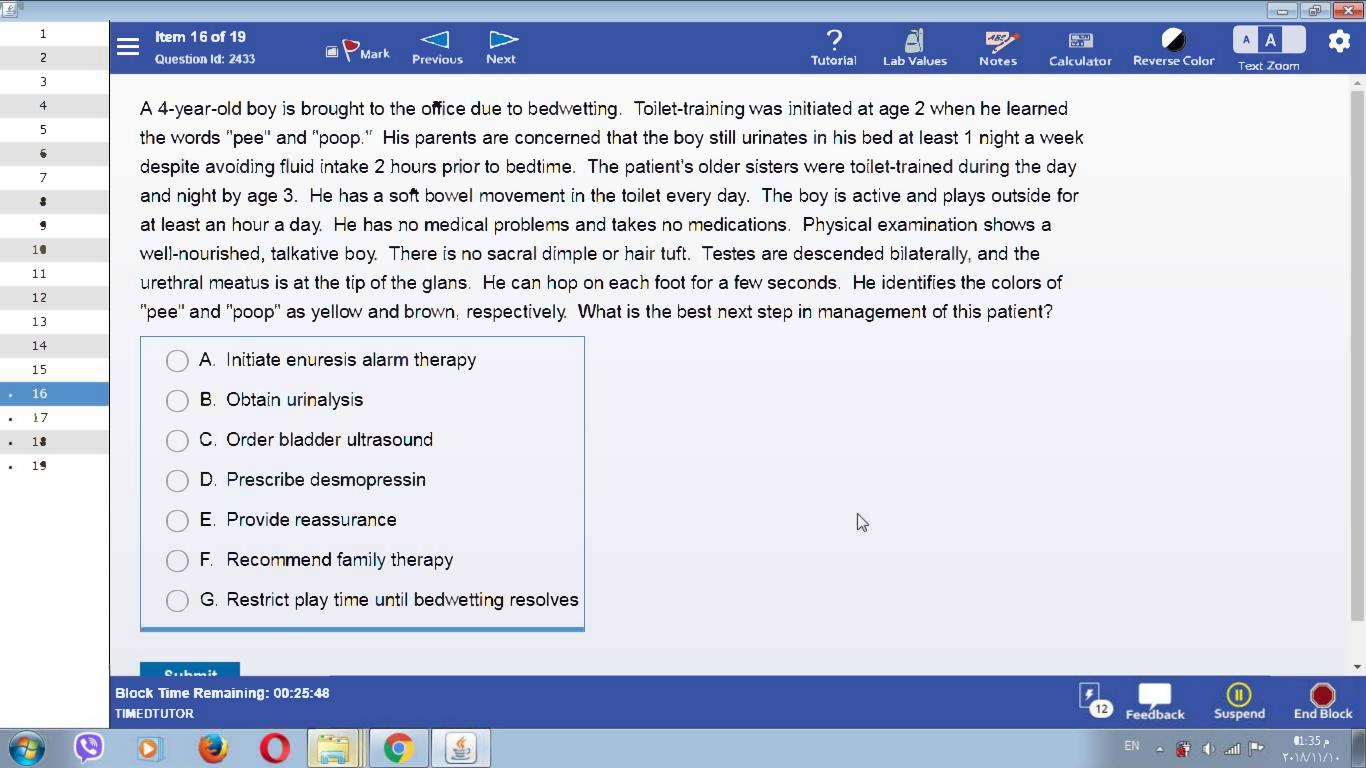


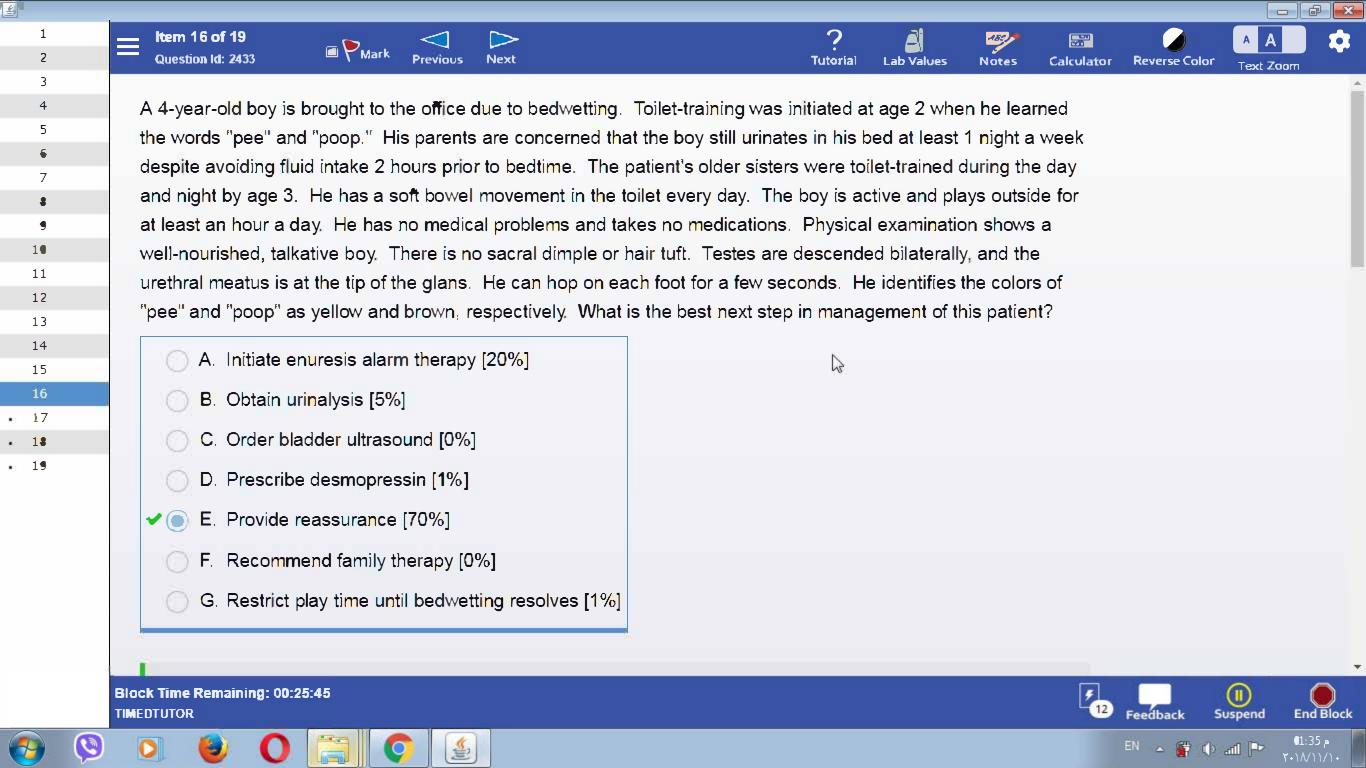


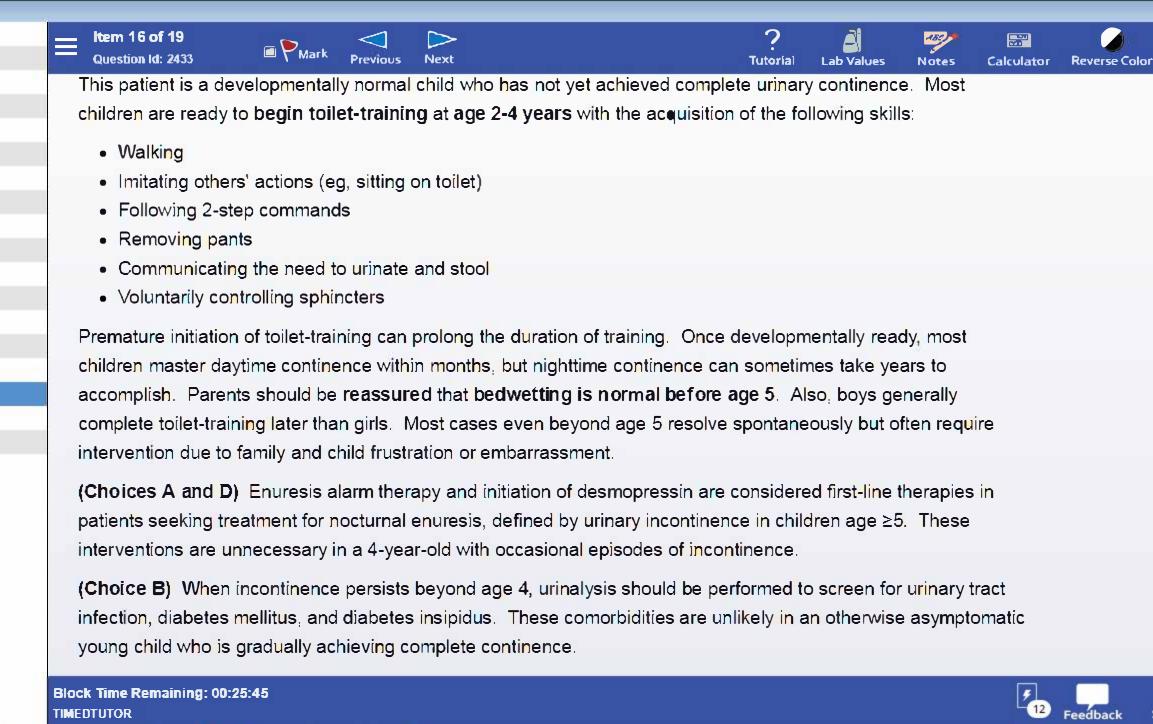














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achieve this milestone later than girls.

References

Toilet training.

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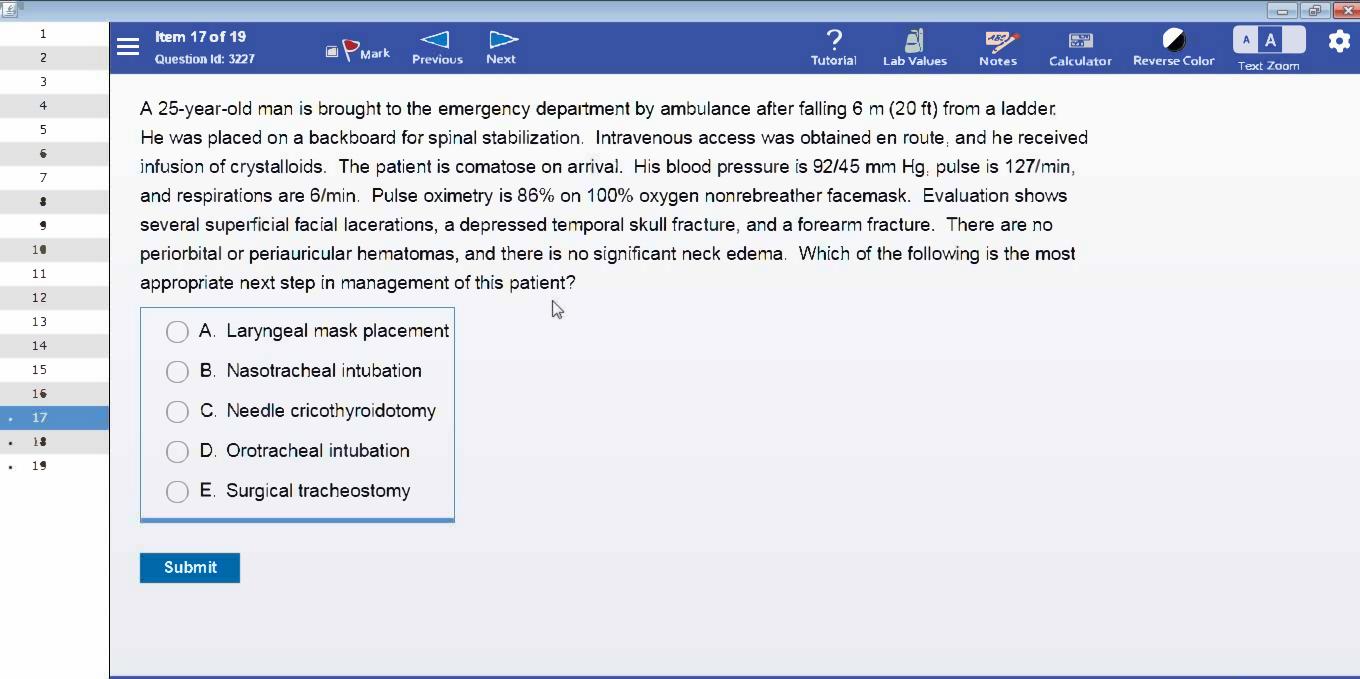












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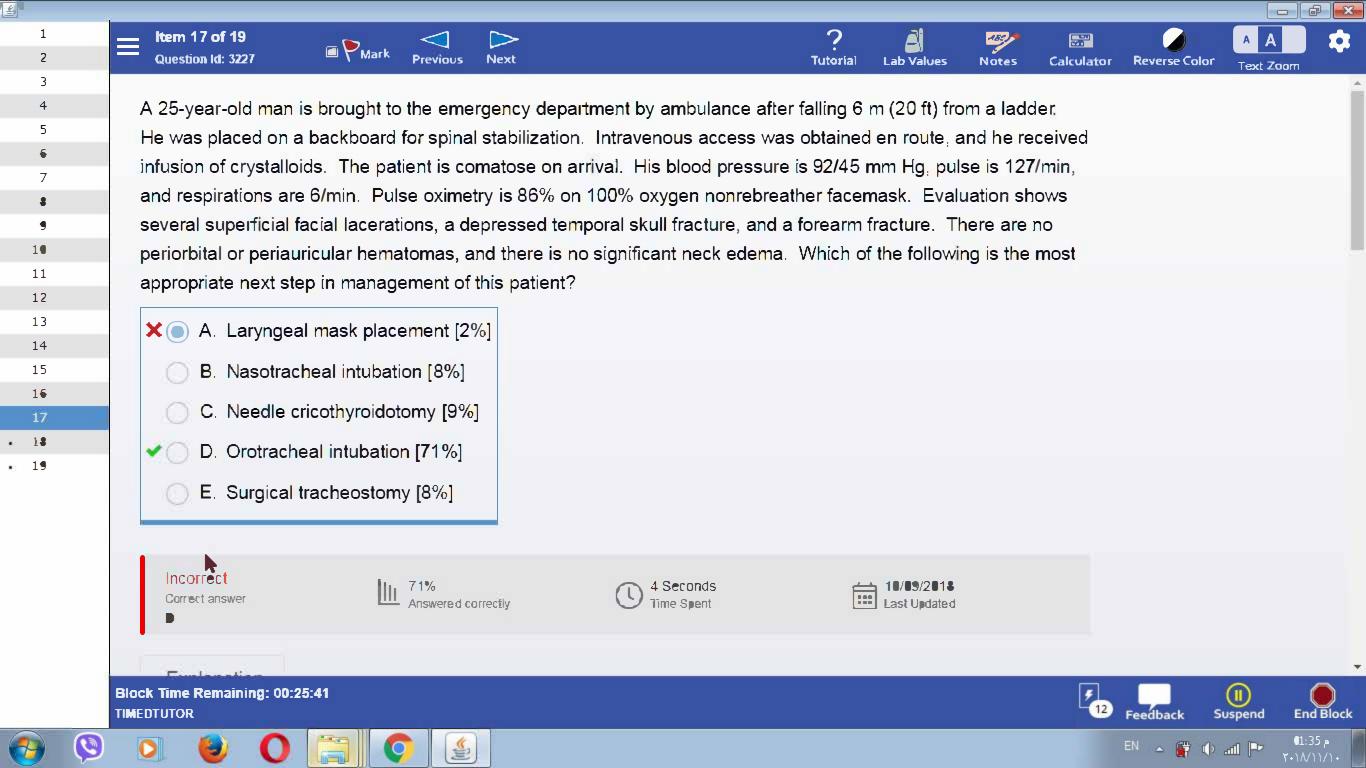


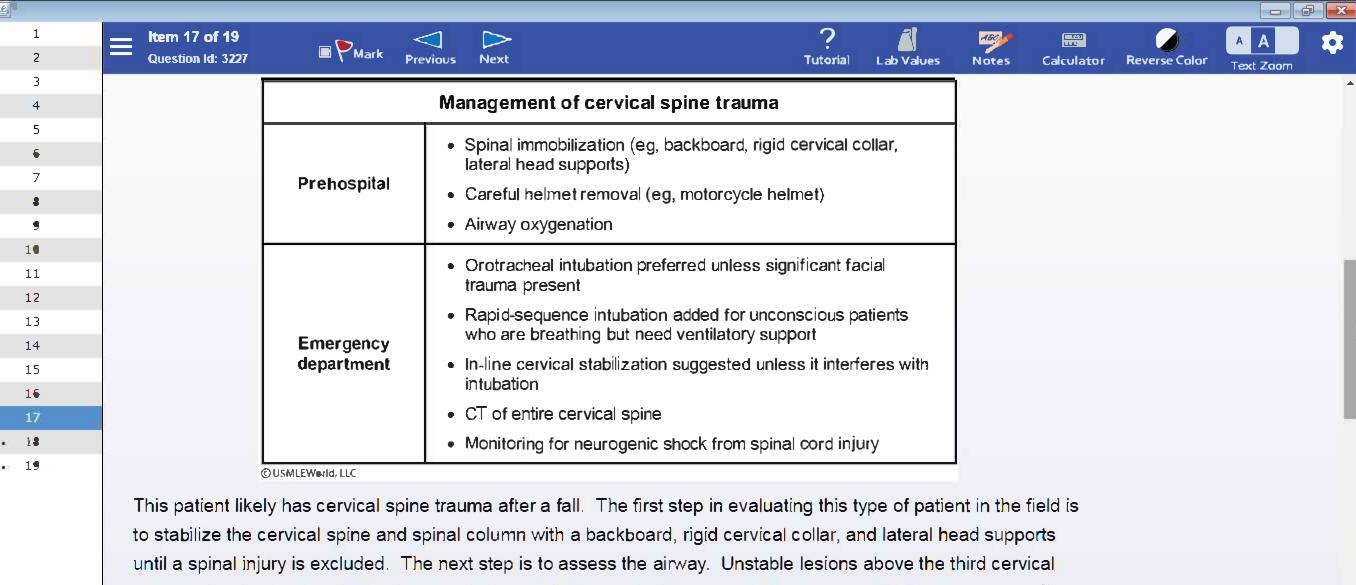












vertebra level can cause immediate paralysis, and lower cervical lesions can damage the phrenic nerve. Cervical spine injuries can be associated with oral maxillofacial trauma, hemorrhage in the retropharyngeal space, and significant airway and neck edema; all could prevent adequate landmark visualization during intubation.

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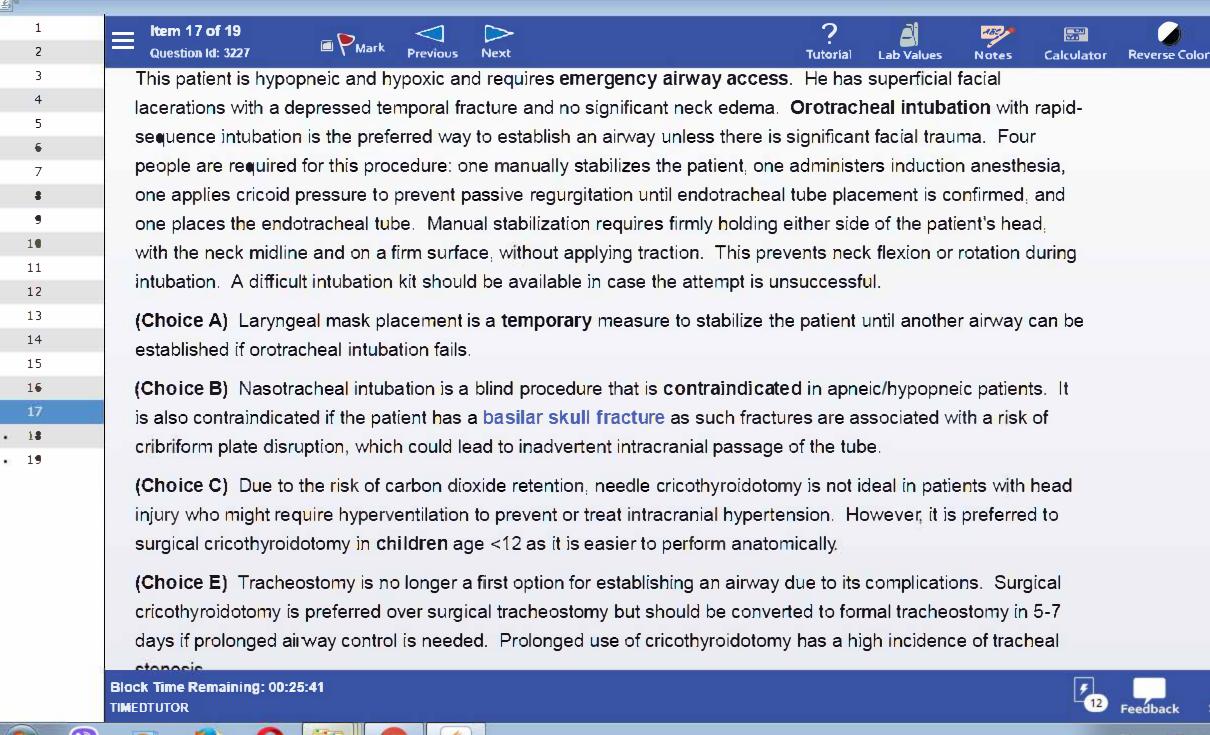
































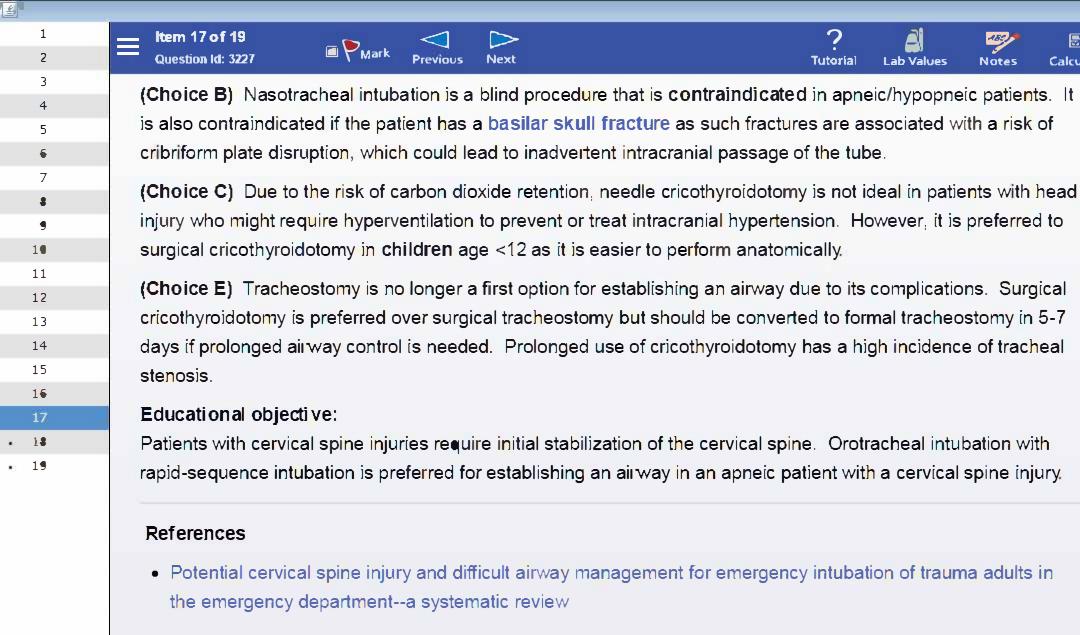








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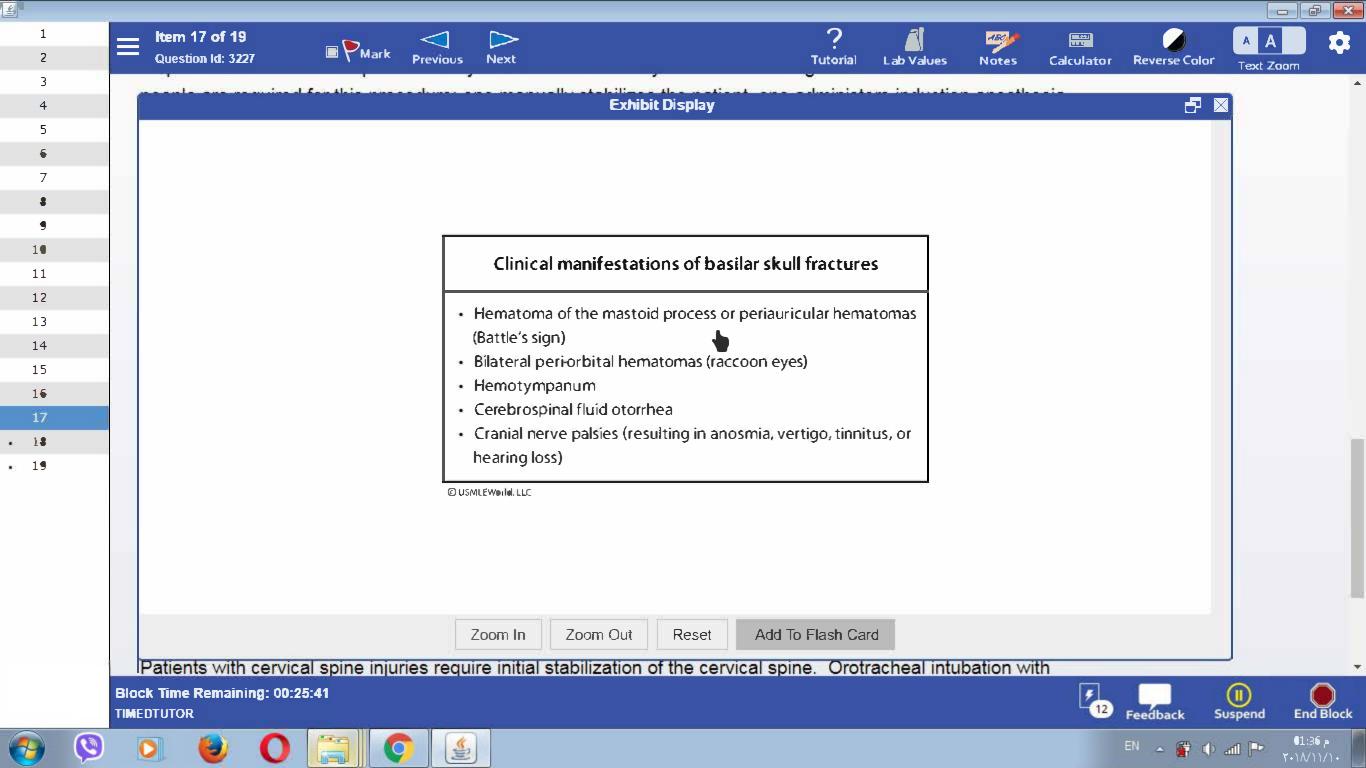


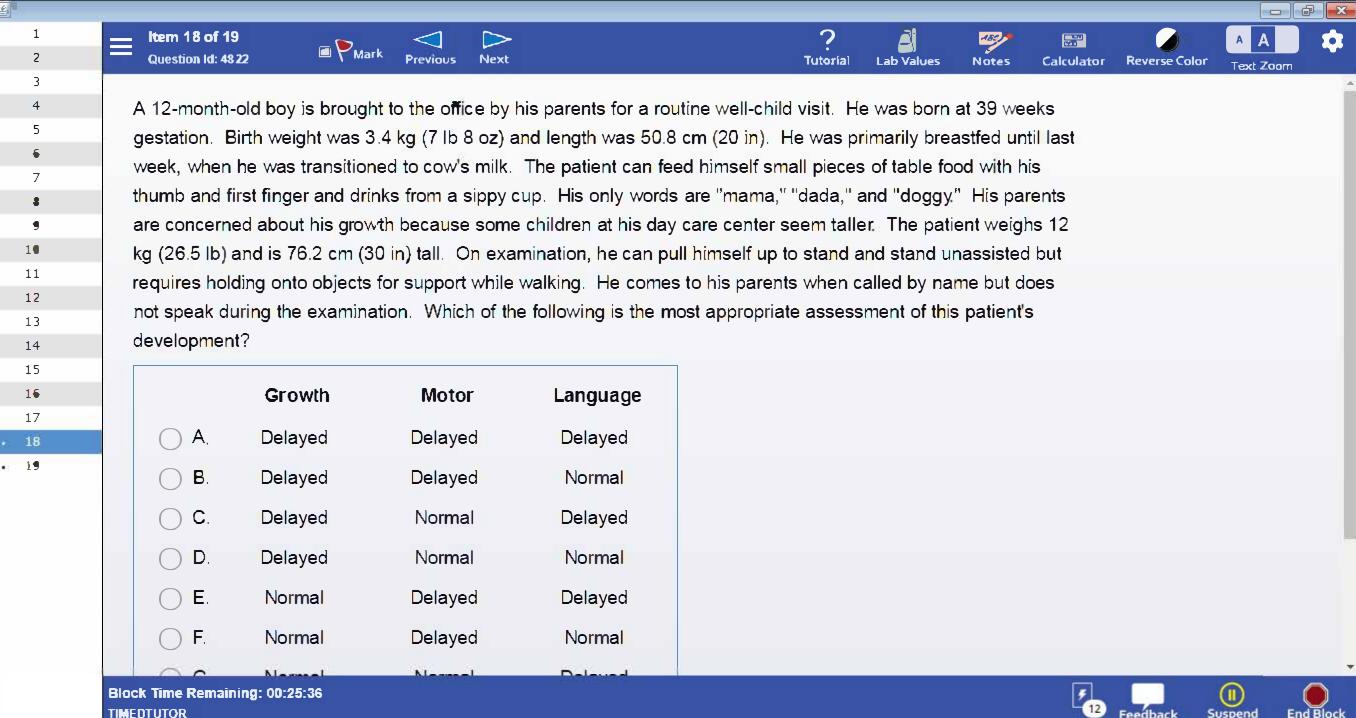




Text Zoom

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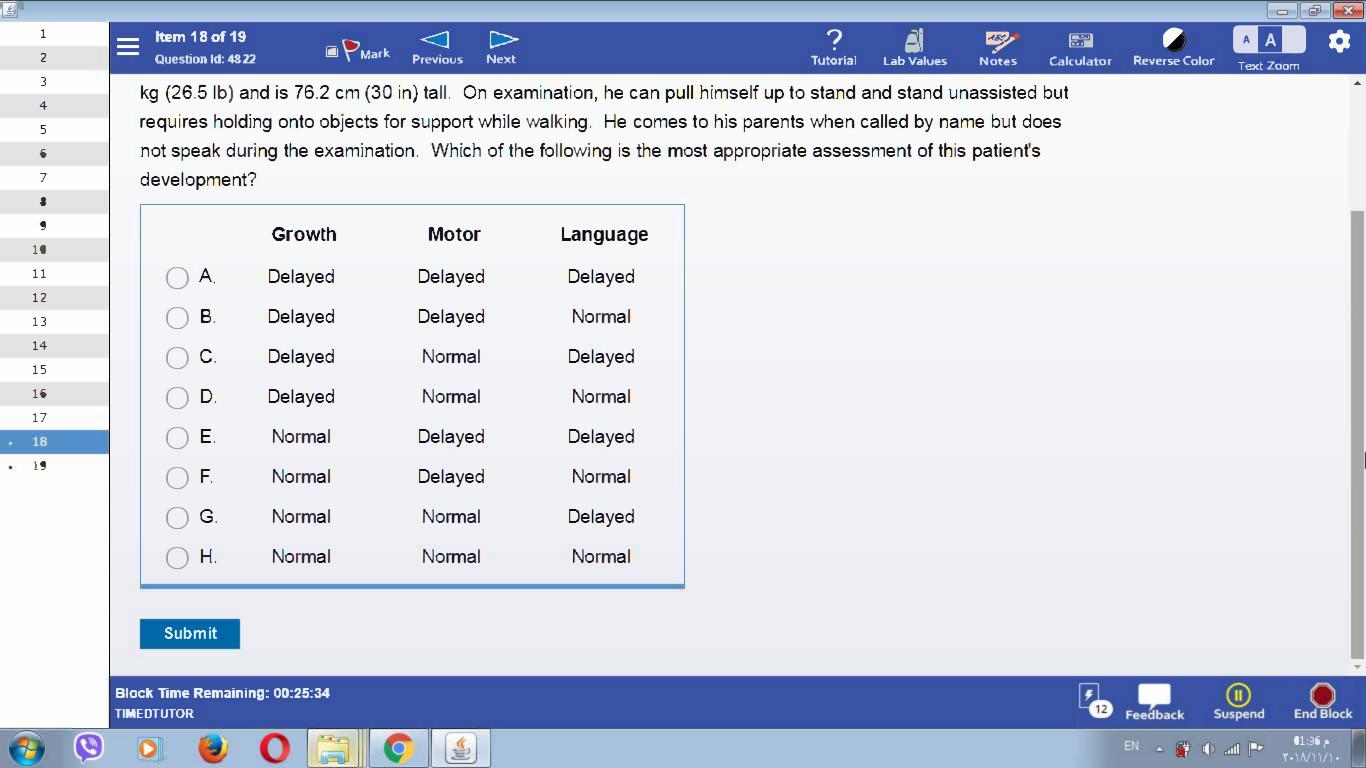


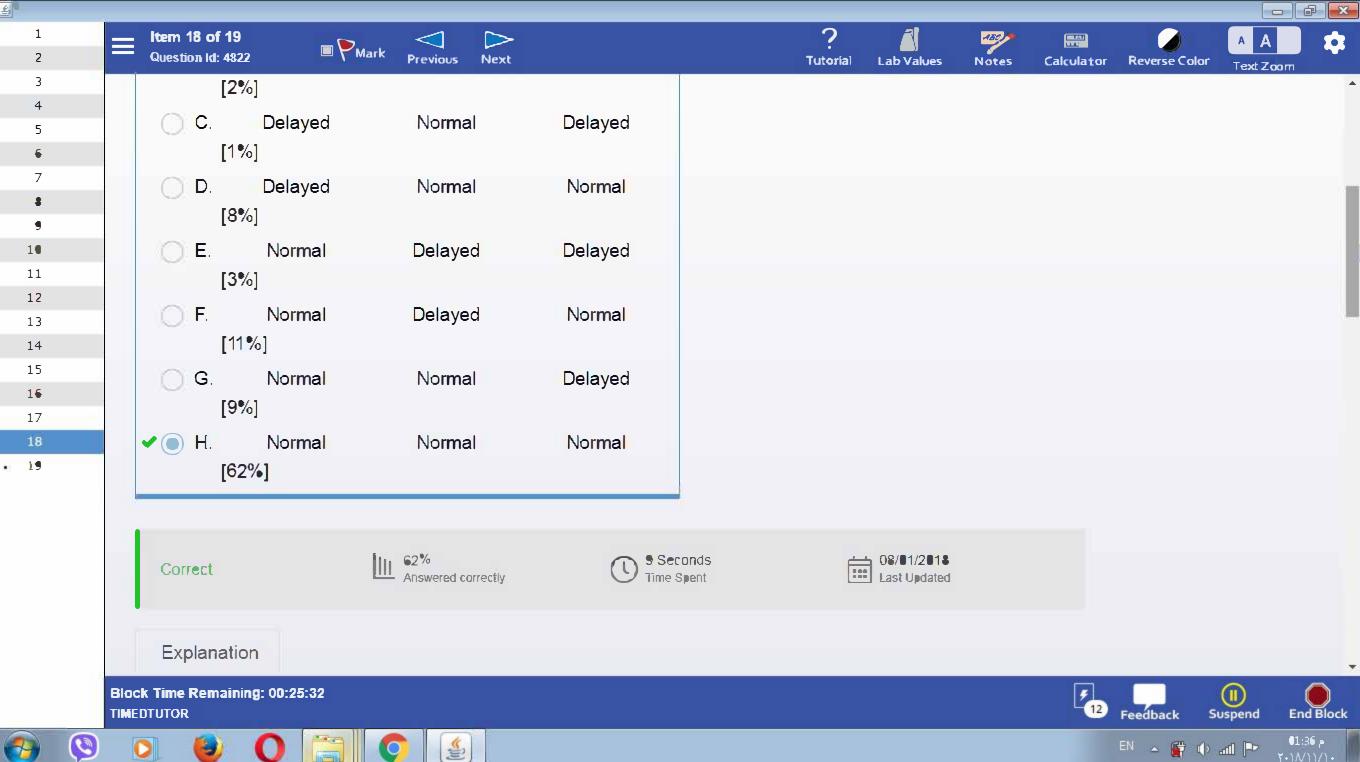


























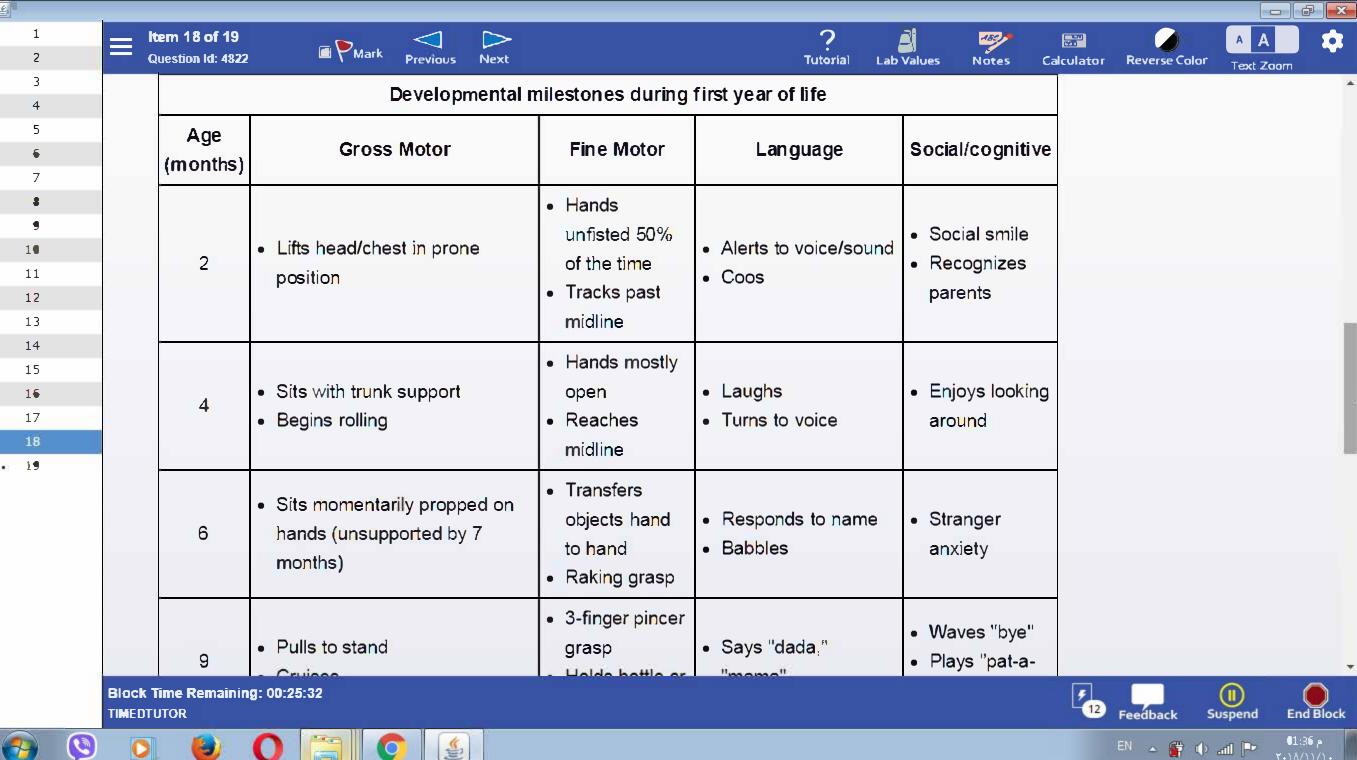


























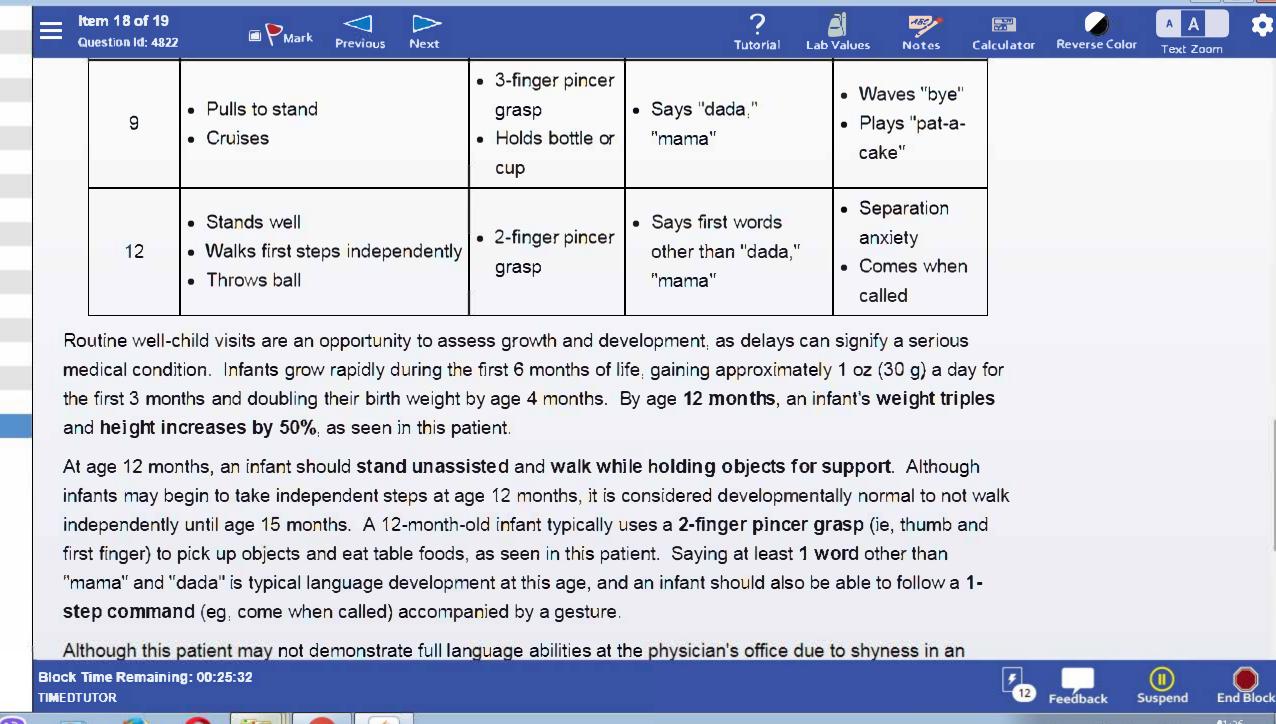














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Item 18 of 19 Question Id: 4822





















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infants may begin to take independent steps at age 12 months, it is considered developmentally normal to not walk independently until age 15 months. A 12-month-old infant typically uses a 2-finger pincer grasp (ie, thumb and first finger) to pick up objects and eat table foods, as seen in this patient. Saying at least 1 word other than "mama" and "dada" is typical language development at this age, and an infant should also be able to follow a 1step command (eg. come when called) accompanied by a gesture.

Although this patient may not demonstrate full language abilities at the physician's office due to shyness in an unfamiliar environment, his reported language development is age-appropriate. This patient also exhibits normal motor milestones and will likely begin walking independently within the next few months. The parents should be reassured that their son is growing and developing normally.

Educational objective:

By age 12 months, an infant's weight triples and height increases by 50%. Developmental milestones include standing unassisted and learning to walk independently, using a 2-finger pincer grasp, saying 1 word other than "mama" and "dada," and following a 1-step command with a gesture.

References

- Developmental milestones.
- Growth of breastfed infants.

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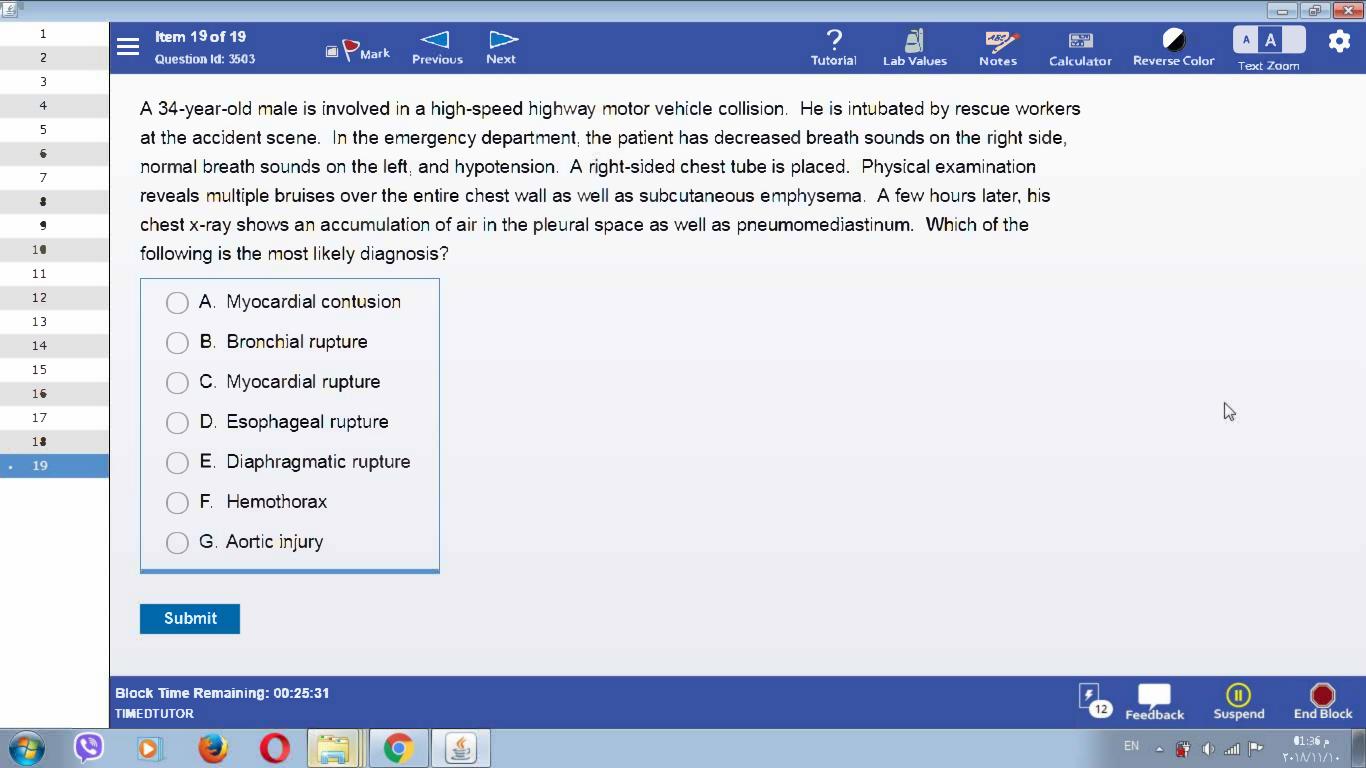


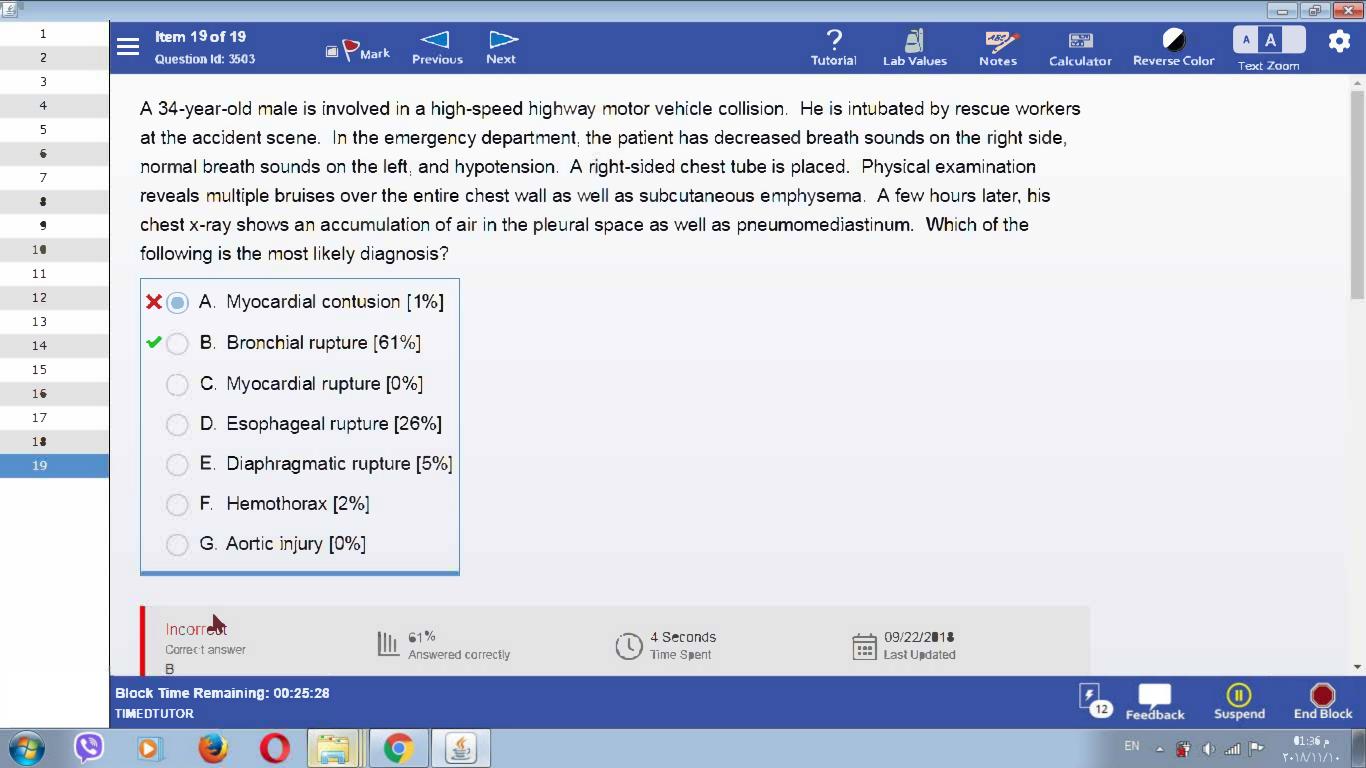


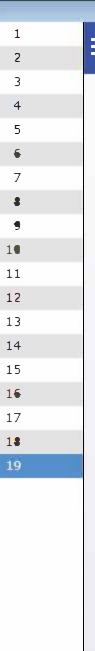
































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This patient has suffered rapid deceleration chest trauma, likely in association with forceful impact with his vehicle's steering wheel. Chest radiography is the most important initial diagnostic study in all stabilized patients (airway, breathing and circulation secure) following blunt chest trauma. This patient's chest x-ray shows a persistent pneumothorax despite chest tube placement and pneumomediastinum, and he has subcutaneous emphysema (palpable crepitus below the skin) on physical examination. Though rare, the most likely explanation for these radiographic and clinical findings is tracheobronchial perforation secondary to blunt thoracic trauma. The right main bronchus is most commonly injured in these cases. The diagnosis can be confirmed with high-resolution CT scanning, bronchoscopy, or surgical exploration. Operative repair is indicated.

(Choice A) Myocardial contusion classically causes tachycardia, new bundle branch blocks or arrhythmia. Sternal fracture is a commonly associated injury.

(Choice C) Myocardial rupture causes cardiac tamponade, which manifests with muffled heart sounds. hypotension and distended neck veins. The diagnosis can be made rapidly with ultrasound, and emergent surgical repair is warranted.

(Choice D) Esophageal rupture following blunt trauma is rare. latrogenic (e.g., with endoscopy) and esophagitisrelated etiologies are more common. Manifestations of esophageal rupture include pneumomediastinum and pleural effusions.

(Choice E) Patients suffering diaphragmatic rupture may experience abdominal pain, pain referred to the shoulder, shortness of breath, and/or vomiting. Radiographic studies may show abdominal viscera above the diaphragm and/or loss of the diaphragmatic contour.

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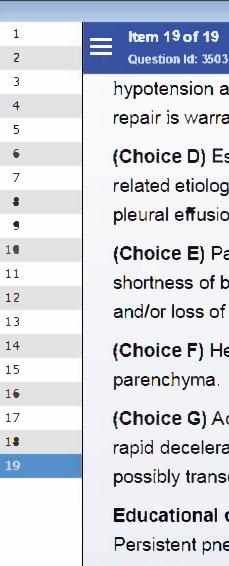


























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hypotension and distended neck veins. The diagnosis can be made rapidly with ultrasound, and emergent surgical repair is warranted.

(Choice D) Esophageal rupture following blunt trauma is rare. latrogenic (e.g., with endoscopy) and esophagitisrelated etiologies are more common. Manifestations of esophageal rupture include pneumomediastinum and pleural effusions.

(Choice E) Patients suffering diaphragmatic rupture may experience abdominal pain, pain referred to the shoulder, shortness of breath, and/or vomiting. Radiographic studies may show abdominal viscera above the diaphragm and/or loss of the diaphragmatic contour.

(Choice F) Hemothorax may result from injuries to the aorta, myocardium, hilar blood vessels or lung parenchyma. Symptoms depend on the degree of blood loss and can range from shortness of breath to shock.

(Choice G) Aortic injury can cause sudden death due to aortic rupture and exsanguination. Patients sustaining rapid deceleration injuries to the chest require radiographic evaluation for aortic injury with x-ray, CT scanning and possibly transesophageal echocardiography as well.

Educational objective:

Persistent pneumothorax and significant air leak following chest tube placement in a patient who has sustained blunt chest trauma suggests tracheobronchial rupture. Other findings include pneumomediastinum and subcutaneous emphysema.

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