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KNR 361 - Pathology and Pharmacology in Athletic Training			
Code	Description	Instructed	Evaluated
AC-5	Obtain a medical history appropriate for the patient's ability to ... respond. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-6	When appropriate, obtain and monitor signs of basic body functions ... including pulse, blood pressure, respiration, pulse oximetry, pain, and core temperature. Relate changes in vital signs to the patient's status. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-7	Differentiate between normal and abnormal physical findings (eg, pulse, ... blood pressure, heart and lung sounds, oxygen saturation, pain, core temperature) and the associated pathophysiology. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-27	Explain the role of core body temperature in differentiating between ... exertional heat stroke, hyponatremia, and head injury. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-28	Differentiate the different methods for assessing core body temperature. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-29	Assess core body temperature using a rectal probe.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-30	Explain the role of rapid full body cooling in the emergency management ... of exertional heat stroke. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-31	Assist the patient in the use of a nebulizer treatment for an asthmatic ... attack. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-32	Determine when use of a metered-dosed inhaler is warranted based on a ... patient's condition. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-33	Instruct a patient in the use of a meter-dosed inhaler in the presence of ... asthma-related bronchospasm. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-34	Explain the importance of monitoring a patient following a head injury, ... including the role of obtaining clearance from a physician before further patient participation. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-35	Demonstrate the use of an auto-injectable epinephrine in the management ... of allergic anaphylaxis. Decide when auto-injectable epinephrine use is warranted based on a patient's condition. <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36	Identify the signs, symptoms, interventions and, when appropriate, the ... return-to-participation criteria for: <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36a	sudden cardiac arrest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36d	heat illness including heat cramps, heat exhaustion, exertional heat ... stroke, and hyponatremia <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36e	exertional sickling associated with sickle cell trait	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36f	rhabdomyolysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36g	internal hemorrhage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36h	diabetic emergencies including hypoglycemia and ketoacidosis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC-36i	asthma attacks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

AC-36j	systemic allergic reaction, including anaphylactic shock			
AC-36k	epileptic and non- epileptic seizures			
AC-36n	toxic drug overdoses			
AC-36o	local allergic reaction			
CE-6	Describe the basic principles of diagnostic imaging and testing and their ... role in the diagnostic process.			
CE-20g	respiratory assessments (auscultation, percussion, respirations, ... peak-flow)			
CE-20h	circulatory assessments (pulse, blood pressure, auscultation)			
CE-20i	abdominal assessments (percussion, palpation, auscultation)			
CE-20j	other clinical assessments (otoscope, urinalysis, glucometer, ... temperature, ophthalmoscope)			
CE-21i	Cardiovascular function (including differentiation between normal and ... abnormal heart sounds, blood pressure, and heart rate)			
CE-21j	Pulmonary function (including differentiation between normal breath ... sounds, percussion sounds, number and characteristics of respirations, peak expiratory flow)			
CE-21k	Gastrointestinal function (including differentiation between normal and ... abnormal bowel sounds)			
CE-21l	Genitourinary function (urinalysis)			
CE-21m	Ocular function (vision, ophthalmoscope)			
CE-21n	Function of the ear, nose, and throat (including otoscopic evaluation)			
CE-21o	Dermatological assessment			
CE-21p	Other assessments (glucometer, temperature)			
HA-28	Understand the role of and use diagnostic and procedural codes when ... documenting patient care.			
PD-9	Specify when referral of a client/patient to another healthcare provider ... is warranted and formulate and implement strategies to facilitate that referral.			
PD-10	Develop healthcare educational programming specific to the target ... audience (eg, clients/patients, healthcare personnel, administrators, parents, general public).			
PHP-5	Explain the precautions and risk factors associated with physical ... activity in persons with common congenital and acquired abnormalities, disabilities, and diseases.			
PHP-8	Identify the necessary components to include in a preparticipation ... physical examination as recommended by contemporary guidelines (eg, American Heart Association, American Academy of Pediatrics Council on Sports Medicine & Fitness).			
PHP-	Explain the role of the preparticipation physical exam in identifying ...			

9	conditions that might predispose the athlete to injury or illness.			
PHP-14	Assess weight loss and hydration status using weight charts, urine color ... charts, or specific gravity measurements to determine an individual's ability to participate in physical activity in a hot, humid environment.			
PHP-15	Use a glucometer to monitor blood glucose levels, determine participation ... status, and make referral decisions.			
PHP-16	Use a peak-flow meter to monitor a patient's asthma symptoms, determine ... participation status, and make referral decisions.			
PHP-17	Explain the etiology and prevention guidelines associated with the ... leading causes of sudden death during physical activity, including but not limited to:			
PHP-17a	Cardiac arrhythmia or arrest			
PHP-17b	Asthma			
PHP-17d	Exertional heat stroke			
PHP-17e	Hyponatremia			
PHP-17f	Exertional sickling			
PHP-17g	Anaphylactic shock			
PHP-46	Identify and describe the signs, symptoms, physiological, and ... psychological responses of clients/patients with disordered eating or eating disorders.			
PHP-47	Describe the method of appropriate management and referral for ... clients/patients with disordered eating or eating disorders in a manner consistent with current practice guidelines.			
PHP-48	Explain the known usage patterns, general effects, and short- and ... long-term adverse effects for the commonly used dietary supplements, performance enhancing drugs, and recreational drugs.			
PHP-49	Identify which therapeutic drugs, supplements, and performance-enhancing ... substances are banned by sport and/or workplace organizations in order to properly advise clients/patients about possible disqualification and other consequences.			
PS-2	Explain the theoretical background of psychological and emotional ... responses to injury and forced inactivity (eg, cognitive appraisal model, stress response model).			
PS-6	Explain the importance of educating patients, parents/guardians, and ... others regarding the condition in order to enhance the psychological and emotional well-being of the patient.			
PS-12	Identify and refer clients/patients in need of mental healthcare.			
PS-13	Identify and describe the basic signs and symptoms of mental health ... disorders (eg, psychosis, neurosis; sub-clinical mood disturbances (eg, depression, anxiety); and personal/social conflict (eg, adjustment to injury, family problems, academic or emotional stress, personal assault or abuse, sexual assault or harassment) that may indicate the need for referral to a mental healthcare professional.			
PS-14	Describe the psychological and sociocultural factors associated with ... common eating disorders.			

PS-17	Describe the psychological and emotional responses to a catastrophic ... event, the potential need for a psychological intervention and a referral plan for all parties affected by the event. 		
TI-1	Describe and differentiate the physiological and pathophysiological ... responses to inflammatory and non-inflammatory conditions and the influence of these responses on the design, implementation, and progression of a therapeutic intervention. 		
TI-3	Differentiate between palliative and primary pain-control interventions. 		
TI-21	Explain the federal, state, and local laws, regulations and procedures ... for the proper storage, disposal, transportation, dispensing (administering where appropriate), and documentation associated with commonly used prescription and nonprescription medications. 		
TI-22	Identify and use appropriate pharmaceutical terminology for management of ... medications, inventory control, and reporting of pharmacological agents commonly used in an athletic training facility. 		
TI-23	Use an electronic drug resource to locate and identify indications, ... contraindications, precautions, and adverse reactions for common prescription and nonprescription medications. 		
TI-24	Explain the major concepts of pharmacokinetics and the influence that ... exercise might have on these processes. 		
TI-25	Explain the concepts related to bioavailability, half-life, and ... bioequivalence (including the relationship between generic and brand name drugs) and their relevance to the patient, the choice of medication, and the dosing schedule. 		
TI-26	Explain the pharmacodynamic principles of receptor theory, dose-response ... relationship, placebo effect, potency and drug interactions as they relate to the mechanism of drug action and therapeutic effectiveness. 		
TI-27	Describe the common routes used to administer medications and their ... advantages and disadvantages. 		
TI-28	Properly assist and/or instruct the patient in the proper use, cleaning, ... and storage of drugs commonly delivered by metered dose inhalers, nebulizers, insulin pumps, or other parenteral routes as prescribed by the physician. 		
TI-29	Describe how common pharmacological agents influence pain and healing and ... their influence on various therapeutic interventions. 		
TI-30	Explain the general therapeutic strategy, including drug categories used ... for treatment, desired treatment outcomes, and typical duration of treatment, for the following common diseases and conditions: asthma, diabetes, hypertension, infections, depression, GERD, allergies, pain, inflammation, and the common cold. 		
TI-31	Optimize therapeutic outcomes by communicating with patients and/or ... appropriate healthcare professionals regarding compliance issues, drug interactions, adverse drug reactions, and sub-optimal therapy. 		