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## AHAT 421.01: Assessment of the Thorax and Medical Conditions in the Athletic Lecture

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**AHAT 421 – Assessment of the Thorax and Medical Conditions in the Athlete lecture**

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**CREDIT HRS:** 2

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**SEMESTER:** Fall 2013  
**OFFICE:**  
**CREDIT HRS:** 2

**CLASS MEETS:** Tuesday 6:00-7:00 pm – Blended Learning Format

**REQUIRED TEXT:** Cuppett M., & Walsh, KM. *General Medical Conditions in the Athlete* 2<sup>nd</sup> ed. 2011. Elsevier/Mosby.,.

**SUPPLEMENTAL TEXT:** Prentice, WE. *Arnheim's Principles of Athletic Training: A Competency-Based Approach*. 13 or 14 ed. 2007/2009: McGraw Hill.

**ONLINE RESOURCES:** <http://courseware.umt.edu/>

**PREREQUISITE:** AHAT 324-325 **COREQUISITE** AHAT 422

**COURSE DESCRIPTION:** Offered autumn. Prereq., AHAT 324-325 or consent of instr.; coreq., AHAT 422. Recognition and assessment techniques of thorax, abdomen and general medical conditions in sports.

**Course Outcomes-**The student will be able to:

AC-28	Differentiate the different methods for assessing core body temperature.
AC-32	Determine when use of a metered-dosed inhaler is warranted based on a patient's condition.
AC-36a	sudden cardiac arrest
AC-36c	cervical, thoracic, and lumbar spine trauma
AC-36e	exertional sickling associated with sickle cell trait
AC-36f	rhabdomyolysis
AC-36h	diabetic emergencies including hypoglycemia and ketoacidosis
AC-36i	asthma attacks
AC-36k	epileptic and non- epileptic seizures
AC-36n	toxic drug overdoses
AC-36o	local allergic reaction
CE-22	Determine when the findings of an examination warrant referral of the patient.
CE-23	Describe current setting-specific (eg, high school, college) and activity-specific rules and guidelines for managing injuries and

	illnesses.
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-17c	Traumatic brain injury
PHP-17e	Hyponatremia
PHP-17f	Exertional sickling
PHP-17g	Anaphylactic shock
PHP-17h	Cervical spine injury
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.
TI-17	Analyze gait and select appropriate instruction and correction strategies to facilitate safe progression to functional gait pattern.
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.

1. **EXAMS** – Students will complete 2 written exams throughout the semester.
2. **QUIZZES/ASSIGNMENTS**- Online quizzes & assignments
3. **PARTICIPATION** – All students are expected to complete reading assignments, quizzes and review PPT lectures before attending class. Active participation in face-to-face discussions is expected.

**GRADING SYSTEM:**

**Scale:** (percentage of total points)

A = 93.50 – 100.00

A- = 90.00 – 93.49

B+ = 87.50 – 89.99

B = 83.50 – 87.49

B- = 80.00 – 83.49

C+ = 77.50 – 79.99

C = 73.50 – 77.49

C- = 70.00 – 73.49

D = 65.00 – 69.99

F = < 65 %

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**POINT BREAKDOWN:**

2 written exams online	50% (25% each)
Moodle and quizzes	35%
Participation in face-to-face discussions	15%
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<b>TOTAL</b>	<b>100%</b>

**Attendance:**

Attendance is **mandatory**. Prior arrangements should be made with the instructor for excused absences to make up work. Class work may not be made up unless prior arrangements have been made.

**American w/Disabilities Act (ADA):** *The University of Montana upholds the ADA by providing reasonable accommodations to individuals with disabilities. If any student requires reasonable accommodations to adequately perform the duties of the class, please see the instructor as soon as possible so that a plan can be made for specific modifications.*

**Student Conduct Code:** *All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at <http://www.umt.edu/SA/VP/SA/index.cfm/page/1321>*

