



**Hamadan University of Medical Sciences and Health Services
Educational Deputy of the University
Center for Studies and Development of Medical Sciences Education**

Lesson Plan: Theory of Clinical Immunology

Dear Colleagues,

As the teaching-learning process is one that cannot achieve its objectives without planning, it is essential to develop a lesson plan at the beginning of the educational process (as a roadmap and guide for instructors and students). Therefore, it is requested that esteemed instructors exercise utmost care in completing the lesson plan

Course and instructor details (all fields completed)

- Course title: English for Medical Students 1
- Instructor: Seyyedeh Zahra Asghari
- Course coordinator: Seyyedeh Zahra Asghari
- Head of Department: Seyyedeh Zahra Asghari
- Type and credit hours: Theory — 3 units
- Program & student level: Medicine / Professional Doctorate (MD)
- Term/semester: First semester
- Teaching location: Classroom / School of Medicine

سرفصل (عنوان)	اهداف رفتاری ^۱	حیطه یادگیری ^۲	روش تدریس ^۳	مدت زمان	وسایل کمک آموزشی	روش ارزشیابی ^۴	جلسه
							۱
Concepts, suffixes, and prefixes of medical terminology:	The student should be able to: 1.Explain the purpose of medical terminology 2-Define the terms root, suffix and prefix 3-Recognize and define prefixes and suffixes used in medical terminology 4.Analyze the suffixes , prefixes and roots used in chapter case studies	1.Co gnitive 2.Co gnitive 3.Co gnitive	Multi media: 1. Lecture, 2.Educ ational videos, 3. Questi on & answe r.	۹۰ minutes	1.Pow er point 2.Dictio nary 3.educ ational videos 4.Whit eboard	1. Short answer questions (during the semester) 2. MCQ (final exam)	
Body structure:	The student should be able to: 1. Define basic terms pertaining to the structures and function of body tissues 2.Match terms with their descriptions 3. pronounce the key terms correctly 4. Form medical terms by combining	1.Co gnitive 2.Co gnitive 3.Co gnitive	Multi media: 1. Lecture, 2.Educ ational videos, 3. Questi on & answe r.	۹۰ minutes	1.Pow er point 2.Dictio nary 3.educ ational videos 4.Whit eboard	1.Short answer questions (during the semester) 2. MCQ (final exam)	۲

¹ بمنظور نگارش اهداف رفتاری باید از افعالی استفاده شود که عینی و قابل اندازه گیری باشد. به عنوان مثال در حیطه knowledge از افعالی مانند نام ببرد، توضیح دهد، مقایسه کند، تحلیل کند، برآورد کند و... در حیطه Attitude از افعالی مانند اعتقاد پیدا کند، بتواند متقاعد کند، همکاری نماید، تبلیغ کند و... و در حیطه Psychomotor از افعالی مانند بتواند تقلید کند، انجام دهد و... استفاده می شود.

² با توجه به هدف آموزشی حیطه یادگیری در سطح knowledge, attitude, psychomotor مشخص می شود.

^۳ روش تدریس متناسب با هدف آموزشی مانند سخنرانی، بحث گروهی، ایفای نقش، PBL و... انتخاب شود

⁴ در هر جلسه در صورت وجود ارزشیابی، نحوه انجام آن مشخص شود. مثل پرسش و پاسخ، کوئیز (MCQ یا تشریحی) و...

					suffixes and roots related to the body chemistry.		
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive 3. Cognitive	The student should be able to: 1. Identify and interpret terms for Directions, body cavities, and positions. 2.Match terms with their descriptions 3. pronounce the key terms correctly	Body structure : 1.Directional terms 2.Terms for Body cavities 3. Terms for body Positions.	3
1. Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive 3. Cognitive 4. Cognitive	The student should be able to: 1. Match terms with their descriptions. 2. pronounce the key terms correctly 3. Identify and interpret terms related to different types of disease.	Disease and Treatment: 1. Key terms for the major categories of diseases. 2. Prefixes and roots for infectious disease	4
1..Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos	90 minutes	Multi media: 1. Lecture, 2.Educational videos,	1. Cognitive 2. Cognitive	The student should be able to: 1. Form medical terms by combining prefixes, suffixes and roots related to disease 2. Identify and interpret terms	Disease and Treatment: 1. Roots for disease. 2. Prefixes for disease. 3.Suffixes for disease	5

	4. Whiteboard		3. Question & answer.		related to the disease.		
Short..1 answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos 4. Whiteboard	90 minutes	Multi media: 1. Lecture, 2. Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive	The student should be able to: 1. Match terms with their descriptions. 2. Pronounce the key terms correctly. 3. Identify and use suffixes pertaining to diagnosis. 4. Interpret abbreviations.	Disease and Treatment: 1.. Key terms for the main methods used in patient examination. 2. suffixes for diagnosis 3. Key terms for the imaging techniques 4. Abbreviations	6
1.Short answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos 4. Whiteboard	90 minutes	Multi media: 1. Lecture, 2. Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive 3. Cognitive 4. Cognitive 5. Cognitive	The student should be able to: 1. Match terms related to different types of surgeries with their descriptions. 2. Match terms related to alternative and complementary medicine with their descriptions. 3. Pronounce the key terms correctly. 4. Recognize and define suffixes for different surgeries.	Disease and Treatment: 1. Key terms for different types of surgeries. 2. suffixes for surgery 3. Key terms for alternative and complementary medicine	7
1.Short answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos	90 minutes	Multi media: 1. Lecture, 2. Educational videos,	1. Cognitive 2. Cognitive	The student should be able to: 1. Match terms related to drug administration and preparation with their descriptions. 2. Form medical terms by prefixes,	Disease and Treatment (drugs): 1. Terms for drug administration 2. Terms for drug preparation 3. Terms for the injectable drugs.	8

	4. Whiteboard		3. Question & answer.		suffixes and roots related to drugs. 3. Interpret abbreviations related to drugs	4. word parts pertaining to drugs 5. Abbreviations for drugs	
1. Short answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos 4. Whiteboard	90 minutes	Multi media: 1. Lecture, 2. Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive	The student should be able to: 1. Match key terms related to Integumentary system with their descriptions. 2. Pronounce the key terms correctly. 3. Form medical terms by roots related to Integumentary system.	Integumentary system: 1. key terms related to the Integumentary system 2. roots for skin and associated structures	9
1. Short answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos 4. Whiteboard	90 minutes	Multi media: 1. Lecture, 2. Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive 3. Cognitive	The student should be able to: 1. Identify and interpret diagnostic and symptomatic terms related to the pathophysiology specific to the Integumentary system. 2. Summarize and correctly interpret the texts .	Integumentary System: 1. Clinical Aspects of the Integumentary system.	10
1. Short answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos 4. Whiteboard	90 minutes	Multi media: 1. Lecture, 2. Educational videos, 3. Question &	1. Cognitive 2. Cognitive	The student should be able to: 1. Interpret abbreviations commonly used with reference to the integumentary system. 2. Analyze medical terms in case studies pertaining to integumentary system.	Integumentary System: 1. Abbreviations 2. case studies	11

			answer.				
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3.Question & answer.	1.Cognitive 2.Cognitive 3.Cognitive 4.Cognitive	The student should be able to: 1. Identify and use the roots pertaining to the bones and joints. 2. Identify and use the roots pertaining to the skeleton. 2. Match medical terms used in reference to the skeletal system with their descriptions. 3. Pronounce the key terms correctly 4. Form medical terms by combining prefixes, suffixes and roots related to the skeletal system.	Skeletal System: 1. Key terms. 2. Roots for the bones and joints. 3. Roots for the skeleton.	12
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3.Question & answer.	1.Cognitive 2.Cognitive	The student should be able to: 1. Identify and interpret diagnostic and symptomatic terms related to the pathophysiology specific the skeletal system. 2. Summarize and correctly interpret the texts	Skeletal System: 1.Clinical Aspects of the skeletal System	13
1.Short answer questions (during the semester)	1.Power point 2.Dictionary	90 minutes	Multi media: 1. Lecture,	1.Cognitive	The student should be able to: 1. Interpret abbreviations used in referring to the skeletal system. 2. Analyze the medical terms in case studies	skeletal System: 1. Abbreviations 2.case studies	14

2. MCQ (final exam)	3.educational videos 4.Whit eboard		2.Educational videos, 3.Question & answer.	2. Cognitive	related to the skeletal system		
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3.Question & answer.	1. Cognitive 2. Cognitive 3. Cognitive 4. Cognitive	The student should be able to: 1. Identify and use the roots pertaining to the muscles. 2. Match medical terms used in reference to the Muscular system with their descriptions. 3. Pronounce the key terms correctly 4. Form medical terms by combining prefixes, suffixes and roots related to the Muscular system.	Muscular System: 1. Key Terms 2. Roots pertaining to muscles	15
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictionary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3.Question & answer.	1. Cognitive 2. Cognitive	The student should be able to: 1. Identify and interpret diagnostic and symptomatic terms related to the pathophysiology specific to the Muscular system. 2. Summarize and correctly interpret the texts.	Muscular System: 1. Clinical Aspects of the Urinary System	16
1.Short answer questions (during the semester)	1.Power point 2.Dictionary	90 minutes	Multi media: 1. Lecture,	1. Cognitive 2. Cognitive	The student should be able to: 1. Interpret abbreviations used in reference to the Muscular system.	Muscular System: 1. Abbreviations 2.case studies	17

2. MCQ (final exam)	3.educational videos 4.Whit eboard		2.Educ ational videos, 3.Ques tion & answe r.		2. Analyze medical terms in case studies pertaining to the Muscular system.		
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Pow er point 2.Dictio nary 3.educ ational videos 4.Whit eboard	90 mi nu tes	Multi media: 1. Lectur e, 2.Educ ational videos, 3.Ques tion & answe r.	1. Co gniti ve 2. Co gniti ve 3. Co gniti ve 4. Co gniti ve	The student should be able to: 1. Identify and use roots pertaining to the Nervous system & mental health. 2. Match medical terms used in reference to the Nervous system & mental health with their descriptions. 3. Pronounce the key terms correctly 4. Form medical terms by combining prefixes, suffixes and roots related to the Nervous system.	Nervous System & mental health: 1. Key Terms. 2. Roots for the Nervous system and spinal cord. 3. Roots for the brain. 4. Suffixes for the Nervous System	18
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Pow er point 2.Dictio nary 3.educ ational videos 4.Whit eboard	90 mi nu tes	Multi media: 1. Lectur e, 2.Educ ational videos, 3.Ques tion & answe r.	1. Co gniti ve 2. Co gniti ve	The student should be able to: 1. Identify and interpret diagnostic and symptomatic terms related to the pathophysiology specific to the nervous System. 2. Summarize and correctly interpret the texts.	Nervous System & mental health: 1.Clinical Aspects of the Nervous system	19
1.Short answer questions (during the semester)	1.Pow er point 2.Dictio nary	90 mi nu tes	Multi media: 1. Lectur e,	1. Co gniti ve	The student should be able to: 1. Interpret abbreviations used in referring to the nervous system and mental health.	Nervous System & mental System: 1. Abbreviations 2.case studies	20

2. MCQ (final exam)	3.educational videos 4.Whit eboard		2.Educational videos, 3.Question & answer.	2. Cognitive	2. Analyze medical terms in several case studies concerning the nervous system and mental health.		
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictio nary 3.educational videos 4.Whit eboard	90 minutes	Multi media: 1. Lecture, 2.Educational videos, 3.Question & answer.	1. Cognitive 2. Cognitive 3. Cognitive 4. Cognitive	The student should be able to: 1. Identify and use suffixes pertaining to the senses. 2. Match medical terms used in reference to the ear and hearing with their descriptions. 3. Pronounce the key terms correctly 4. Form medical terms by roots related to the ear and hearing.	Special senses: Ear and Eye 1. Key Terms for senses. 2. Suffixes pertaining to senses. 3. Key terms for the ear. 4. Roots for the ear and hearing.	21
					1. Match medical terms used in reference to the eye & vision with their descriptions. 2. Pronounce the key terms correctly. 3. Form medical terms by roots related to the eye & vision.	Special senses: Ear and Eye: 1. Key terms for the eye. 2. Roots for the external eye structure. 3. Roots for the eye and vision.	22
1.Short answer questions (during the semester) 2. MCQ (final exam)	1.Power point 2.Dictio nary 3.educational videos	90 minutes	Multi media: 1. Lecture, 2.Educational videos,	1. Cognitive 2. Cognitive	The student should be able to: 1. Identify and interpret diagnostic and symptomatic terms related to the pathophysiology specific to the vision and hearing.	Special senses: Ear and Eye: 1. Clinical Aspects of hearing 2. Clinical Aspects of vision	23

	4. Whiteboard		3. Question & answer.		2. Summarize and correctly interpret the texts.		
1. Short answer questions (during the semester) 2. MCQ (final exam)	1. Power point 2. Dictionary 3. educational videos 4. Whiteboard	90 minutes	Multi media: 1. Lecture, 2. Educational videos, 3. Question & answer.	1. Cognitive 2. Cognitive	The student should be able to: 1. Interpret abbreviations used in referring to Vision and hearing. 2. Analyze the medical terms in several case studies concerning the special senses.	Special senses: Ear and Eye: 1. Abbreviations 2. case studies	24

شیوه نمره دهی

میزان امتیاز از کل	ابزار ارزشیابی ^۵	نوع ارزشیابی
3	Oral Question & answer in class room	کوئیز
5	MCQ, short answer questions (written exam)	امتحان میان ترم
10	MCQ, short answer questions (written exam)	امتحان پایان ترم
2	Class participation, following academic regulations (class attendance, being on time,...)	سایر موارد
20		مجموع

منابع:

1. Medical Terminology, 9th edition, Barbara J Cohen; Shirley A Jones, 2021.

⁵ ابزار ارزشیابی می‌تواند مواردی مانند آزمون تشریحی، سوالات کوتاه پاسخ، سوالات کامل کردنی، MCQs، پروژه، آسکی و... باشد.

2. English for the Students of Medicine, Tahririan, Ameri, Golestan, 6th Print Publication: 2018, Publisher: SAMT.

3. English for the Students of Medicine, Atai , Shoja , Kafshgarsouteh , Zolghadri, 1391. SAMT.