

# كلية الطب

College of Medicine



**Title: Introduction to year-4 Medicine**

CRN No: 15639 ( male),15640(Females)

Block: Block 4.1

Subject / Discipline: Internal Medicine

Block Coordinator: **Dr. Ahmed Elshebiny**

Block Co-coordinator: **Dr. Ehab Darwish**

# VISION

to become a model in community engagement through excellence and international recognition in medical education, research and health care.

# MISSION

to promote higher standards in medical education, health care, research and community health services .

# VALUES

1. islamic values
2. excellence
3. creativity
4. compassion
5. leadership
6. responsiveness to community

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

# Year 4 Medicine :

## *Introduction and orientation session*

***By Dr. Ahmed Elshebiny***

*Assistant professor of Internal Medicine  
(Diabetes & Endocrine), KFU*

*Lecturer of Internal Medicine, Menoufia University*

*Former Clinical Research Fellow,  
Joslin Diabetes Center, Harvard University*



# Questions

- What does this course teaches?
- What are the **contents of this course**?
- What are the **learning goals**?
- What are the involved medical **specialities**?
- Which **teaching methods** are being used?
- What is the **rationale** for pre-hospital clinical training sessions?
- What are PS, CiA, CiB, CiAB, CC, CTC?
- How the students are **assessed**?
- What is the **exam format and blueprint**?
- What is the **OSCE exam** and its components?
- What are the **passing marks**?
- What are the **resources for learning**?
- How can we **communicate**?



# Course description

- 3 weeks of pre-hospital preparation and consolidation of what was learned in the pre-clinical years. Models , role playing, and simulated patients are being used instead of real patients.
- 4-5 weeks of Hospital Rotation and exposure to real patients.
- Topics cover different IM specialties, diseases, problems and clinical skills.

# Learning goals

- Diseases related to different IM specialties
- History taking, general and local examination skills
- Communication skills
- Investigation of clinical cases and patient problems with interpretation of test results
- Learning from contact with hospital patients /exposed to a variety of cases and signs at hospitals
- Planning treatment and how to discuss strategy with the patient
- Competency in solving medical complaints related to IM e.g. abdominal pain, chest pain, palpitation, dyspnea, cough, skin rash.

# Topics Covered

Specialty	Topics
Cardiology	<ol style="list-style-type: none"><li>1. Ischemic heart Diseases</li><li>2. Pulmonary embolism</li><li>3. Pericardial diseases</li><li>4. Valvular heart diseases</li><li>5. Infective endocarditis</li><li>6. Cardiomyopathy</li><li>7. Arrhythmia and conduction disorders</li><li>8. Heart failure</li><li>9. Hypertension</li></ol>
Pulmonology	<ol style="list-style-type: none"><li>1. COPD</li><li>2. Pneumonia</li><li>3. TB</li><li>4. Pneumothorax</li><li>5. Pulmonary embolism</li><li>6. Bronchial asthma</li><li>7. Pleurisy</li><li>8. Respiratory failure</li></ol>
GIT	<ol style="list-style-type: none"><li>1. Abdominal swellings (Ascites, Hepatosplenomegaly...)</li><li>2. Colon tumour</li><li>3. Esophageal disorders</li><li>4. Ischaemic colitis</li><li>5. Bacillary dysentery</li><li>6. Peptic ulcer diseases</li><li>7. pancreatic disease</li><li>8. Inflammatory bowel diseases</li><li>9. Acute diverticulitis</li><li>10. Steatorrhoea</li><li>11. Liver cirrhosis</li><li>12. Constipation</li><li>13. Diarrhea</li></ol>

# Topics covered( Cont.)

Rheumatology	<ol style="list-style-type: none"><li>1. SLE</li><li>2. systemic sclerosis</li><li>3. Sjögren's syndrome</li><li>4. Rheumatoid arthritis</li><li>5. Vasculitis</li><li>6. Sarcoidosis</li><li>7. Antiphospholipid syndrome</li></ol>
Endocrinology	<ol style="list-style-type: none"><li>1. Hyperthyroidism</li><li>2. Hypothyroidism</li><li>3. Thyroid nodules</li><li>4. Thyroglossal cyst</li></ol>
Hematology	<ol style="list-style-type: none"><li>1. Lymphoma: Hodgkin's/non-Hodgkin's</li><li>2. Iron deficiency anemia</li><li>3. Megaloblastic anemia</li></ol>
Nephrology	<ol style="list-style-type: none"><li>1. kidney stones</li><li>2. Nephrotic syndrome</li><li>3. Pyelonephritis</li></ol>
Dermatology	<ol style="list-style-type: none"><li>1. Eczema</li><li>2. Psoriasis</li><li>3. Pigmentary disorders ( e.g. Vitiligo, pityriasis versicolor .....)</li><li>4. Leg ulcer</li><li>5. Skin malignancies</li><li>6. Urticaria/anaphylaxis/angioedema</li></ol>

# Block Calendar & Exam dates

Day/Date	Activity
29/8/2021-16/9/2021	Clinical Teaching Center (CTC) Weeks
19/9/2021-21/10/2021	Hospital Rotation Weeks
31/10/2021	Start of Quarter 2

Day/Date	7:30-8:30	8:30-9:30	9:30-10:30	10:30-11:30	11:30-2:30	12:30-1:30	1:30-2:30	2:30-3:30	3:30-4:30
Sunday 19/9/2021	Mid-block Written Assessment								
Sunday 24/10/2021	Final Year 4 Medicine ( Block 4.1) Assessment (Q1)								
Tuesday 26/10/2021	OSCE and Multimedia Block 4.1 Exam								

# Who is going to teach us?

Specialities	Faculty	Initials	Contact Info.
<b>Dermatology</b>	Dr Dalal Al Saadoun	DA	503918900 ----- <a href="mailto:dr_dalal_s@hotmail.com">dr_dalal_s@hotmail.com</a>
	Dr. Heba Yousef Al Ojail	HY	503394207 ----- <a href="mailto:dr.heba.yousef@hotmail.com">dr.heba.yousef@hotmail.com</a>
	Dr. Mahdi Aldhafiri	MhD	533558525 ----- <a href="mailto:mahdi056@hotmail.com">mahdi056@hotmail.com</a>
<b>Cardio-vascular Diseases</b>	Dr. Emad Al Khoufi	EK	564909044 ----- <a href="mailto:emadco2@hotmail.com">emadco2@hotmail.com</a>
	Dr. Eman Elsheikh	ES	544709634 ----- <a href="mailto:emancardiology@yahoo.com">emancardiology@yahoo.com</a>
<b>Pulmonology</b>	Dr. Zainab Amjad	ZA	532637824 ----- <a href="mailto:zainabamjad@hotmail.com">zainabamjad@hotmail.com</a>

# GIT & Hepatology

<b>GIT- Hepatology- Infections Diseases</b>	Dr. Abdallah Essa	AE	532264781 ----- <a href="mailto:drabdo1974@yahoo.com">drabdo1974@yahoo.com</a>
	Dr. Abdulrhman Al-Abdulqader	AQ	555917740 ----- <a href="mailto:doctorakq@hotmail.com">doctorakq@hotmail.com</a>
	Dr Bashaeer Al-Jalal	BA	568867748 ----- <a href="mailto:baljalal@kfu.edu.sa">baljalal@kfu.edu.sa</a>
	Dr. Ehab Darwish	ED	542603466 ----- <a href="mailto:ehab_drwish_123@yahoo.com">ehab_drwish_123@yahoo.com</a>
	Dr. Omar Al-Omair	OA	503903338 ----- <a href="mailto:oao123@live.com">oao123@live.com</a>
	Dr. Somia Shehab-Eldeen	SS	507913675 ----- <a href="mailto:drsomaia76@yahoo.com">drsomaia76@yahoo.com</a>

# Other IM specialities

<b>Hematology-Oncology</b>	Dr. Murtada Al-Salman	MS	506914993
			<a href="mailto:mortadah1985@gmail.com">mortadah1985@gmail.com</a>
<b>Nephrology</b>	Dr. Hany Elbarbary	HE	556363542
			<a href="mailto:hanyelbarbary2004@yahoo.com">hanyelbarbary2004@yahoo.com</a>
	Dr. Khaled Elzorkany	KZ	569550422
			<a href="mailto:khaledelzorkany1979@yahoo.com">khaledelzorkany1979@yahoo.com</a>
	Dr.Mohammed Yousef Almulhim	MY	554921113
			<a href="mailto:mohammed.y.almulhim@gmail.com">mohammed.y.almulhim@gmail.com</a>
	Dr. Muthana Al Sahlawy	MAS	568610683
			<a href="mailto:mualsahlawi@kfu.edu.sa">mualsahlawi@kfu.edu.sa</a>
<b>Rheumatology</b>	Dr. Eman Ali	EA	567550229
			<a href="mailto:emanali_abdallah@yahoo.com">emanali_abdallah@yahoo.com</a>
	Dr. Naushad Abid	NA	566052750
			<a href="mailto:naushadabid1966@gmail.com">naushadabid1966@gmail.com</a>
<b>Endocrinolog</b>	Dr. Saleh Almogairen	SM	500555813
			<a href="mailto:salmogairen@kfu.edu.sa">salmogairen@kfu.edu.sa</a>
	Dr. Hessah Al-Hussaini	HA	553990966
			<a href="mailto:halhussaini@kfu.edu.sa">halhussaini@kfu.edu.sa</a>
	Dr. Ahmed Elshebiny	AA	546094814
			<a href="mailto:ashebiny@yahoo.com">ashebiny@yahoo.com</a>



# Student Grouping System

Serial	Subgroup
1	M1
2	
3	
4	
5	
6	
7	M2
8	
9	
10	
11	
12	
13	M3
14	
15	
16	
17	
18	
19	M4
20	
21	
22	
23	
24	
25	M5
26	
27	
28	
29	
30	
31	M6
32	
33	
34	
35	
36	
37	

Serial	Subgroup
1	F1
2	
3	
4	
5	
6	
7	F2
8	
9	
10	
11	
12	
13	F3
14	
15	
16	
17	
18	
19	F4
20	
21	
22	
23	
24	
25	F5
26	
27	
28	
29	
30	
31	F6
32	
33	
34	
35	
36	
37	
38	

# CTC Weeks

Dermatology

Cardio-  
pulmonary

GIT and  
General

# Timetables

	A	B	C	D	E	F	G	H	I	J	K	L	M	
			Week 1 Cardio-Pulmonary ( Female Groups)											
			Day/Date	7:30-8:30	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-1:30	1:30-2:30	2:30-3:30	3:30-4:30		
			Sunday 29/8/2021		Introduction & Orientation (Auditorium)	PS: Hand Hygiene-Basics of consultation & History taking- General Screening Physical Examination			PS: Pathological Heart Sounds		PS: Pathological lung sounds			
					Dr. A. Elshebiny	Dr.Hessah ( F1,2) Dr. Eman Ali (F3,4) Dr. Murtada(F5,6)			Dr. Emad ( F1,2), Dr. E. Elsheikh (F3,4), Dr. Zainab ( F5,6)		Dr.Zainab ( F1,2), Dr. A. Elshebiny (F3,4), Dr.M.Y Almulhim(F5,6)			
			Monday 30/8/2021						PS: Pathology in cardiac/pulmonary examination		PS: Pathology in cardiac/pulmonary examination			
									Dr. Emad ( F1,2), Dr. E.Elsheikh (F3,4)		Dr. Emad ( F5,6)			
			Tuseday 31/8/2021						Cardio-pulmonary Interactive Seminar					
									Dr. A. Elshebiny ( F1,2) , Dr. Zainab ( F3,4) , Dr. Khaled(F5,6)					
			Wednesday 1/9/2021						CiA : Respiratory and Circulatory systems( 4 cases)					
									Dr. Khaled(F1,2) , Dr. Emad (F3,4), Dr. Hany(F5,6)					
			Thursday			Cardio-pulmonary CC-SP Assessment			Cardio-pulmonary CC-SP Assessment					
			Dermatology CTC weeks(1&2)		Cardio-pulmonary CTC weeks(1&3)		GIT & General IM CTC weeks(2&3)		Exam dates		Faculty contact information		M groups & assignments	F groups and assignments

# Types of teaching sessions

- Practical session
- Consultation interview A
- Consultation interview B
- Consultation interview AB
- Complete consultation (CC)
- Seminar
- Clinical bed-side teaching
- Mini-CEX presentations
- Large group sessions (Auditorium)

# CC sessions

- Assigned students are those who will be assessed.
- Other Students should attend the discussions.
- You will conduct a complete history and examination typically with a simulated patient; however, the professor may act the role of a patient during the part of history taking.
- You should have good communication skills.
- You should put a differential diagnosis, suggest investigations and discuss a treatment strategy.

# CC-Checklist

KINGDOM OF SAUDI ARABIA  
Ministry of Higher Education  
KING FAISAL UNIVERSITY  
(037)



الجامعة الإسلامية  
وزارة التعليم العالي  
جامعة الملك فيصل  
( ٠٣٧ )

الموضوع: .....

## CC - Checklist

	Rubrics	Assessment		Mark	Notes
Establishing contact & reason for consultation	(rubrics from item in SEGUE form) - Greet the patient - Establish reason for encounter - Set agenda for consultation - Personal contact - Protect patient privacy - Hand hygiene	10	History Taking  Global Assessment 30%		
Clarification of the problem & exploring main health issue	ALECOBO + application of general consultation skills	10			
Extended history taking <small>(10 min) Working heart: 20 Standard heart: 10</small>	Review of systems General aspects Circulatory system Respiratory system Digestive system Urinary system Female genital/sexual Male genital/sexual Musculo-skeletal CNS Endocrine Skin & MM Hematology	10			
Physical examination <small>(10 min) Working heart: 20 Standard heart: 10</small>	- General aspects - Head: general - eye - ear - nose - mouth & throat - Neck: thyroid - LN - CVP - Thorax, lung: inspection, auscultation, palpation, percussion - Thorax, heart: inspection, auscultation, palpation, percussion - Breast & axilla: inspection & palpation - Abdomen: inspection, auscultation, palpation, percussion - External genitalia: inspection, palpation only when indicated - Skin: all types of lesions - Extremities: inspection, palpation - Neurological exam (some items when only indicated)	20	Physical Examination  Global Assessment 20%		
Findings & explaining them	- Making a list of differential diagnosis with reasoning - Ordering supplementary tests - Explaining findings to patient	20	Supplementary tests & (investigations) 20%		
Advice, referral & treatment plan		20	Treatment & follow up 20%		
Conclusion &/or recording details		10	10%		

المرافقات:

التاريخ:

الرقم:

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# CC Assignments

CC Assignments							
Serial	Subgroup	Academic Number	Name		Day & Date	Time	CC Speciality
1	M1	218017336	Ibrahim Adel Ibrahim	Alhosain	2/9/2021	9:30-11:30	Dermatology
2		218010696	Ibrahim Abdullah Nasser	Alhumaidi			
3		218013949	Ibrahim Mohammed Ibrahim	Almulhim	9/9/2021	9:30-11:30	GIT
4		215026804	Ahmad	Alrasasi			
5		218019282	Ahmed Khalid Yousef	Abu Sinah			
6	M2	218019095	Ahmed Amer Abdullah	Almutawah	9/9/2021	12:30-2:30	General IM
7		218010143	Ahmed Alshaikh	Husain			
8		218014943	Ahmed Ali Bin Saad	Al Jizan			
9		218028076	Osama Ali Mansoor	Alghanem	16/9/2021	9:30-11:30	Cardio-pulmonary
10		218015681	Osama Mustafa Ali	Alramadhan			
11		218009867	Baqer Mohammed Abdullah	Albaqshi	16/9/2021	12:30-2:30	Cardio-pulmonary
12		218012961	Badah Abdulrahman Mohesen	Alqahtani			

# Seminar Sessions

- During both the CTC & hospital weeks
- Specialty seminars
- Topics will be announced

## During CTC



- ☐ Dermatology
- ☐ Cardio-pulmonary
- ☐ GIT
- ☐ General IM

## During Hospital rotation



- ☐ Cardiopulmonary
- ☐ GIT
- ☐ General IM



# Hospital Rotation

- Timetables?
- Hospitals involved?
- Time?
- Dermatology clinic rotations
- Seminars
- Min-CEX discussions

# Mini-CEX (mini clinical evaluation exercise)

- At the last day of each week of hospital rotations
- Groups are assigned to different specialties
- Usually 4 sessions of Mini-CEX
- Students should prepare a presentation of their case

# Assignments

- CC Assignment
- Assignments for Other sessions (CiA ,CiB)
- Seminar presentations (5-7 min presentations)
- Case presentation at the hospital
- Mini CEX Presentations

# Assessment

## Formative

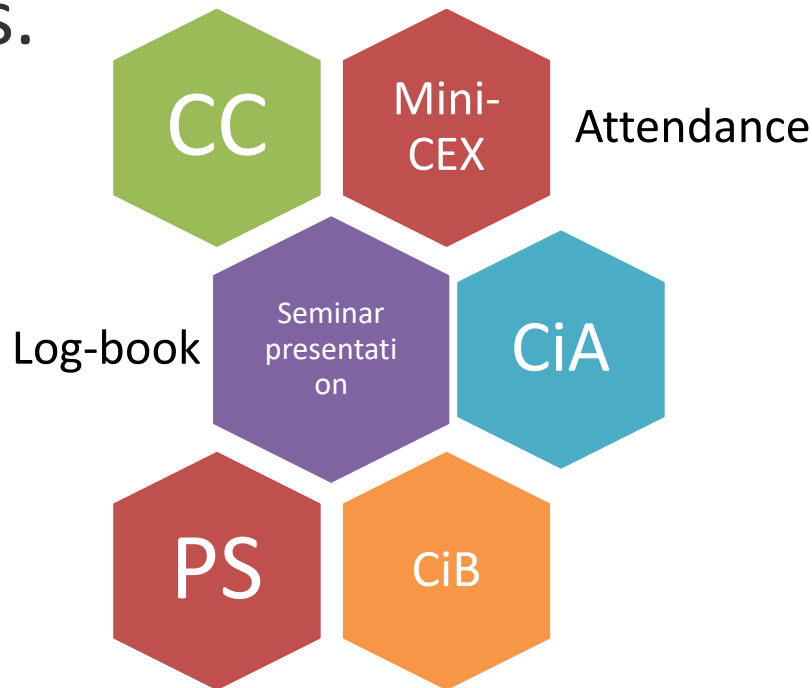
- Sessions
- Attendance
- Logbook

## Summative

- Mid-block
- Final
- OSCE and  
Multimedia  
Stations

# Formative -Assessment

**Formative assessment** refers to tools that identify misconceptions, struggles, and learning gaps along the way and assess how to close those gaps.



# Summative Assessment

- Mid-block assessment
- Final assessment

## **Assessment methods:**

1. MCQs (20, 30) ( Problem-based)
2. Problem solving questions (5, 5)
3. OSCE, Multimedia and consultation (11)

# OSCE , Multimedia and Consultation exam

5 Examination  
skill stations

1 History  
Station

4 Multimedia

1 consultation  
skill

# Mark Distribution

CTC	Hospitals	Assessments	
		Witten	OSCE
5 marks/week 5 for Cardio/pulmon 5 for GIT & General 5 for Dermatology	10 for each specialty (40 then corrected to 15)	✓ 30 marks for MCQs ✓ 10 marks for PS	✓ 30 marks (11 stations)
15 marks	15 marks	○ 30 marks MCQs (10 for Midblock & 20 for Final)	5 skills + 1 History + 4 MM +1 CS
**Student should get 60 % (18/30) to enter final assessment Less than 18 = Fail/ repeat.		○ 10 marks for PS (5 Midblock +5 final )	
15	15	70	
100			



# Final exam Blueprint

- Distribution of questions among specialities

# Exam Format

- MCQ sample question:

A 63-year-old male with chronic heart failure and recurrent arrhythmia presented to your clinic with symptoms and signs suggesting thyrotoxicosis. His laboratory investigations revealed low TSH and increased both free T4 and free T3. Additionally, T4 to T3 ratio was higher than usual. Which of the following of his medications may be a cause for his recent thyrotoxicosis?

- A. Aspirin
- B. Amiodarone
- C. Furosemide
- D. Enalapril

# Problem solving

- A 42-year-old woman presents to the clinic with several months' history of generalized weakness, cold intolerance, and weight gain. The condition was associated with heavy menstrual cycles. Physical examination reveals alopecia, a thick tongue, and delayed deep tendon reflexes. Her heart rate is 55/min and her blood pressure is 100/70 mm Hg. She is not taking any medications. Relevant laboratory findings are as follows: Free thyroxine (T4): 4.5 pmol/L (normal: 10.5–20pmol/L) Thyroid-stimulating hormone (TSH): 31 mU/L (normal: 0.35–5.5mU/L) Cholesterol: 230 mg/dL.
- What is the most likely diagnosis? (2 marks)
- Primary hypothyroidism (full mark if specifies the type of hypothyroidism)
- What is the most common cause of this condition? (1 mark)
- Hashimoto thyroiditis (autoimmune destruction of the thyroid gland).
- What endocrine disorder is associated with low free T4 and low serum TSH levels? (1 mark)
- Secondary hypothyroidism, the most common cause of which is hypopituitarism.
- What is the appropriate treatment for this patient? (1 mark)
- Levothyroxine (synthetic T4 hormone).

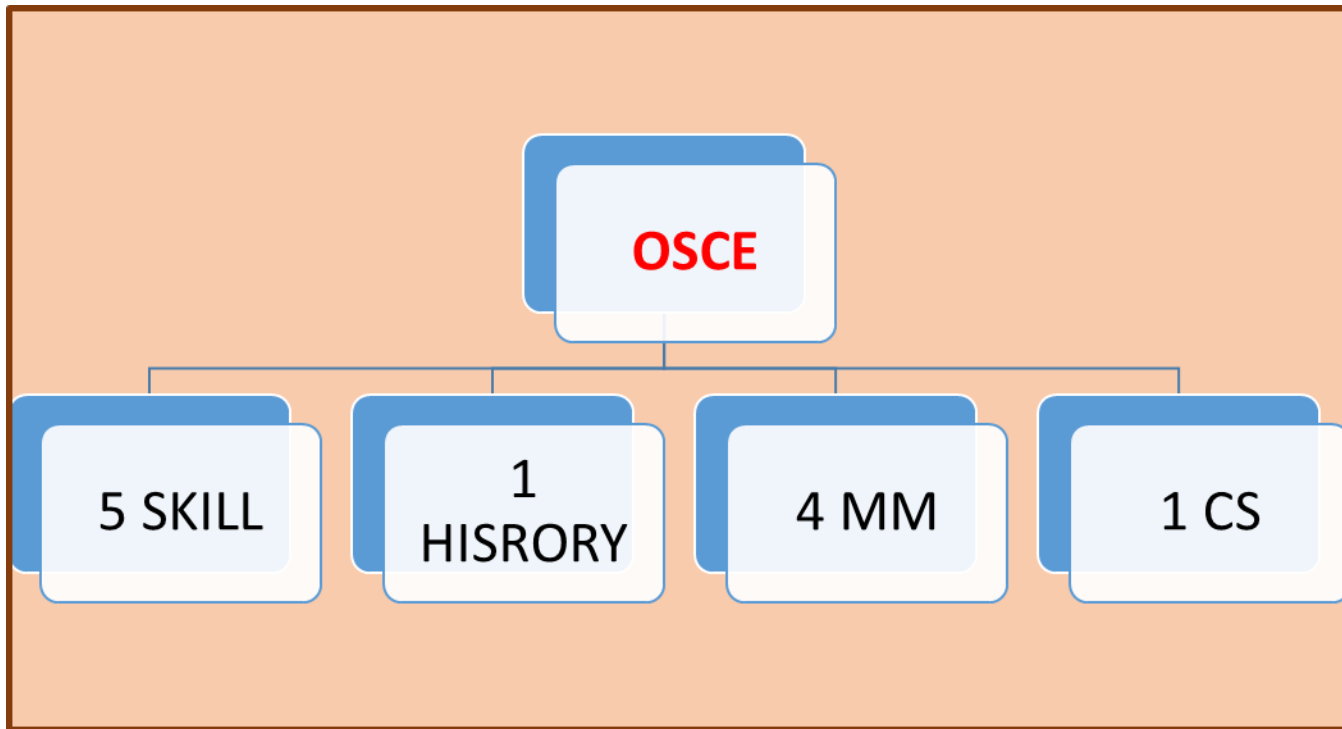
# Multimedia



What is the sign shown in the provided photograph?

2- What is the clinical significance of this clinical sign?

# OSCE



# OSCE

- **Instructions to student:**

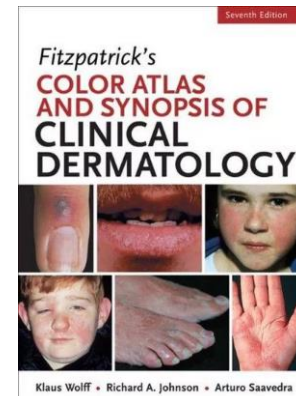
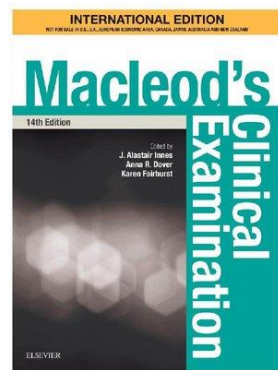
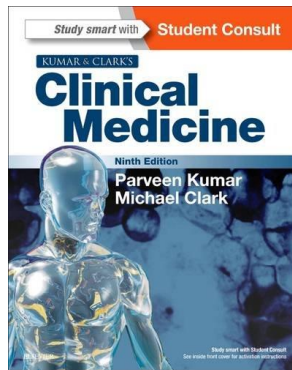
## **Case scenario**

A previously healthy 30-year-old man presented to you complaining of .....

## **Student Task**

**Perform a complete .....examination in order to reach the diagnosis of this patient.**

# Resources



# Log-Book

- CTC activity log
- Hospital case log



# Communication

- Student representatives
- Office hours
- E-mail
- Social networks



# Orientation sessions

- 45 min each
- At the start of Block
- Before mid-block exam
- Before hospital rotation
- Before Final exam
- To answer your questions and guide your learning process

# Take home message



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College of Medicine

Thank You

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Thank You