

# Course Specifications

Course Title:	Andrology
Course Code:	1000430
Program:	MBBCH
Department:	Internal medicine
College:	Medicine
Institution:	King Faisal University

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## A. Course Identification

<b>Credit hours:</b> 1			
<b>2. Course type</b>			
a.	University <input checked="" type="checkbox"/>	College <input type="checkbox"/>	Department <input type="checkbox"/>
b.	Required <input type="checkbox"/>	Elective <input checked="" type="checkbox"/>	Others <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> Year 4			
<b>4. Pre-requisites for this course</b> (if any):			
<b>5. Co-requisites for this course</b> (if any):			

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	8	
2	Blended		
3	E-learning	7	
4	Correspondence		
5	Other	15	

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	8
2	Laboratory/Studio	7 ( Videos, online activities)
3	Tutorial	
4	Others (specify) (CBT, Seminars, Morning meetings, Logbook activity)	
	<b>Total</b>	15
<b>Other Learning Hours*</b>		
1	Study	8
2	Assignments	2
3	Library	
4	Projects/Research Essays/Theses	5
5	Others (specify)	
	<b>Total</b>	15

\* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

### 1. Course Description

The course is intended to prepare the future physician with a sound knowledge about diseases related to male health. It is complementary to the Internal medicine course. The study of male sexual disorders will be from endocrinology perspective. It is a clinical course that includes cases and problems that mimic everyday cases met in clinical practice.

### 2. Course Main Objective

- a- Understand basic knowledge about anatomy, physiology and development of male reproductive system and its relation to clinical problems.
- b- Know basics of male health disorders and the scope of andrology.
- c- Learn male sexual disorders, Infertility, Pubertal disorders Gynecomastia and Hypogonadism.
- d- Discuss management of clinical problems related to andrology.
- e- Be familiar with updates and research in andrology

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
1	<b>Knowledge:</b>	
1.1	<b>Recognize</b> the anatomy, physiology and development of male reproductive organs and <b>compare</b> this with the female reproductive system. <b>Correlate</b> these with clinical problems.	K1
1.2	<b>Discuss</b> clinical manifestations of common disorders related to male reproduction including erectile dysfunction, loss of libido, ejaculatory dysfunction, infertility, pubertal disorders as well as new topics in andrology e.g. disorders of sex differentiation	K2
1.3	<b>Explain</b> the management of diseases related to male health which includes investigations and treatment. <b>Learn how to decide</b> about the most appropriate choices among treatment modalities. <b>Be aware of</b> the side effects of different treatment modalities	K3
2	<b>Skills :</b>	
2.1	<b>Apply</b> clinical reasoning; critical and analytical skills in discussing the patient's complaints related to male health disorders, presenting the different possible solutions and therapies while considering the different medical, epidemiological, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge.	S1
2.2	<b>Integrate and organize</b> the history, physical, and investigative findings into a meaningful differential diagnosis formulation in the context of andrology related disorders	S1
2.3	<b>Compare</b> different modalities of pharmacological and non-pharmacological therapeutic options and <b>design</b> effective therapeutic and ongoing management of an individual patient in the context of Andrology.	S3

CLOs		Aligned PLOs
<b>3</b>	<b>Competence:</b>	
3.1	Perform basic medical skills and pharmacological therapies, including investigative procedures related to Andrology.	C1
3.2	Develop and implement a suitable plan of care for different andrology medical problems	C2
3.3	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment.	C3

## C. Course Content

No	List of Topics	Contact Hours
1	Introduction to Andrology	2
2	Anatomy, physiology and development of male reproductive system	3
3	Hyopogonadism	5
4	Puberty and its disorders	5
5	Erectile and other sexual dysfunction	5
6	Male infertility and its management	5
7	Gynecomastia and other gender disorders	2
8	Research in andrology and other minor topics	3
<b>Total</b>		<b>30</b>

## D. Teaching and Assessment

### 1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge</b>		
1.1	<b>Recognize</b> the anatomy, physiology and development of male reproductive organs and <b>compare</b> this with the female reproductive system. <b>Correlate</b> these with clinical problems.	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Assignments</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>
1.2	<b>Discuss</b> clinical manifestations of common disorders related to male reproduction including erectile dysfunction, loss of libido, ejaculatory	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Assignments : clinical case</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based</li> </ul>

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
	dysfunction, infertility, pubertal disorders as well as new topics in andrology e.g. disorders of sex differentiation		MCQ
1.3	<b>Explain</b> the management of diseases related to male health which includes investigations and treatment. <b>Learn how to decide</b> about the most appropriate choices among treatment modalities. <b>Be aware of</b> the side effects of different treatment modalities	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Assignments: Research topic</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>
2.0	<b>Skills</b>		
2.1	<b>Apply</b> clinical reasoning; critical and analytical skills in discussing the patient's complaints related to male health disorders, presenting the different possible solutions and therapies while considering the different medical, epidemiological, social, psychological and cultural backgrounds keeping in mind basic sciences knowledge.	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Assignments : clinical case</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>
2.2	<b>Integrate and organize</b> the history, physical, and investigative findings into a meaningful differential diagnosis formulation in the context of andrology related disorders	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Assignments : clinical case</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
2.3	<b>Compare</b> different modalities of pharmacological and non-pharmacological therapeutic options and <b>design</b> effective therapeutic and ongoing management of an individual patient in the context of male health disorders.	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Assignments : clinical case</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>
3.0	✓ <b>Competence</b>		
3.1	Perform basic medical skills and pharmacological therapies, including investigative procedures related to Andrology.	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Clinical case assignment</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>
3.2	Develop and implement a suitable plan of care for different andrology medical problems	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Clinical case assignment</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>
3.3	Apply the principles of teamwork dynamics, leadership processes, ethics, professional and legal standards to enable and support effective medical services and collaboration within an integrative health care environment.	<ul style="list-style-type: none"> <li>➤ Seminar</li> <li>➤ Online videos and other resources</li> <li>➤ Research assignment</li> </ul>	<ul style="list-style-type: none"> <li>✓ Interactive seminar : Formative</li> <li>✓ Precourse evaluation</li> <li>✓ Quizzes (MCQ)</li> <li>✓ Final test : Problem based MCQ</li> </ul>

## 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Seminar attendance	Every week	10%
2	Interactive discussion ( formative assessment)	Every week	10%
3	Precourse evaluation	First week	10%
4	Assignment 1( Clinical case)	2 <sup>nd</sup> week	5%
5	Assignment 2 ( Research project in andrology)	3 <sup>rd</sup> week	5%
6	Assignment 3 (Mini review article)	4 <sup>th</sup> week	5%
7	Online group activities	Last week	5%
8	Quiz 1 ( first 4 topics)	Mid-course	10%
9	Quiz 2 ( second 4 topics)	Last week	10%
10	Final test ( problem based written MCQ )	Last week	30%

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Student Academic Counseling and Support

**Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :**

Students in need of appointments for any academic counseling can consult the faculty during the publicized office hours after giving reasonable notice prior to the appointment

## F. Learning Resources and Facilities

### 1.Learning Resources

<b>Required Textbooks</b>	<ol style="list-style-type: none"> <li>1. Hand book of andrology by American Society of andrology, 2<sup>nd</sup> edition 2010</li> <li>2. Kumar and Clarks's clinical medicine 9th edition</li> <li>3. Mac Leod's clinical examination 13th edition</li> </ol>
<b>Essential References Materials</b>	PowerPoint presentations and handouts by the course coordinator
<b>Electronic Materials</b>	<p>Merck manuals.com, professional version E-medicine, Medscape online source.</p> <p><a href="https://opentextbc.ca/anatomyandphysiology/chapter/27-1-anatomy-and-physiology-of-the-male-reproductive-system/">https://opentextbc.ca/anatomyandphysiology/chapter/27-1-anatomy-and-physiology-of-the-male-reproductive-system/</a></p> <p><a href="https://www.uspharmacist.com/article/male-hypogonadism-a-review-of-the-disease-and-its-treatment">https://www.uspharmacist.com/article/male-hypogonadism-a-review-of-the-disease-and-its-treatment</a></p>
<b>Other Learning Materials</b>	Videos ( links sent to the students or submitted to the blackboard)



## 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lecture halls for seminars , case discussions and exams
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Basic computers , wireless microphone, Microsoft power point
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	NA

## G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Course objectives, content and learning outcomes	Curriculum committee	Course review Course report
Effectiveness of teaching	Faculty and students	Classroom observation (QMS annex O and P) Course evaluation survey (QMS annex B)
Achievement of course learning outcomes	Course faculty	Moderation (QMS annex G and annex H)
Assessment	Course faculty	Verification
Learning resources and facilities	Students Faculty	Course evaluation Survey Course report
Student academic counseling and support	Students	Course evaluation Survey
Course quality management	Program coordinator	Course report review

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## H. Specification Approval Data

Council / Committee	
Reference No.	
Date	