

**SAMPLE TESTS OF WRITTEN EXAMS AND CONCEPTS OF
ORAL AND PRACTICAL EXAMS
FOR
INTEGRATED UNIVERSITY STUDY PROGRAM
MEDICAL STUDIES IN ENGLISH
FOR THE ACADEMIC YEAR 2025./2026.**

Pathology – MFMSE501

Sample Written Exam Test

Learning Outcomes	Number of Questions/Tasks	Max. Number of Points per Question/Task	Min. Number of Points Required to Achieve the Learning Outcome
IU-MFMSE501-1	35	35	20
IU-MFMSE501-2	35	35	20
IU-MFMSE501-3	35	35	20
IU-MFMSE501-4	35	35	20
IU-MFMSE501-5	30	30	15
IU-MFMSE501-6	30	30	15

The exam in the subject Pathology consists of a total of 200 questions, divided into two partial exams (P1 and P2) with 100 questions each. Each partial exam covers two learning outcomes, with 50 questions assigned to each outcome. All questions are multiple-choice, and each correct answer is worth 1 point.

P1 (100 multiple-choice questions)

IU-MFM501-1 – 35 questions related to the description of groups of pathological processes, their etiopathogenetic mechanisms, and the integration of knowledge about the pathological structure and function of organs, organ systems, and the body.

IU-MFM501-2 – 35 questions related to pathological changes in organ systems, including the characteristics of pathological processes, morphological features specific to individual organ systems, and knowledge applied to clinical examples.

IU-MFM501-5 – 30 questions related to macroscopic changes in individual tissues and organs (pathological processes from general and organic pathology) and, based on their characteristics, thinks through differential diagnosis and creates a diagnosis.

P2 (100 multiple-choice questions)

IU-MFM501-3 – 35 questions related to disorders of the structure and function of organs and organ systems (morphological changes).

IU-MFM501-4 – 35 questions related to specific methods of morphological diagnostics and their clinical application, as well as the signs of death and the characteristics of individual stages of autopsy.

IU-MFM501-6 – 30 questions related to the technique of microscopy of pathohistological preparations, critically analyzing histochemical and immunohistochemical methods and uses them in the diagnosis of diseases.

Score Range for Passing Grades	The performance on the written exam is graded according to the following scale: Less than 60 points = grade 1 60 – 70 = grade 2 71 – 80 = grade 3 81 – 90 = grade 4 91 – 100 = grade 5 (provided that the minimum number of points required for achieving the learning outcomes for each task has been obtained)
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Note	The multiple-choice questions consist of a clearly defined question and five (5) offered answers, of which only one is always correct. There are no questions with more than one correct answer, and no negative points are given for incorrect answers
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Note	The final grade is generated from two assessment components: 1. Written Exam 1 accounts for 50% of the final grade 2. Written Exam 2 accounts for 50% of the final grade
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Study: MEDICAL STUDIES IN ENGLISH

Course: PATHOPHYSIOLOGY (MFMSE502)

WRITTEN EXAM:

Course learning outcome code	Number of questions/tasks	Max. number of points per question/task	Min. number of points to achieve learning outcome
IU-MFMSE502-1	20 MCQ	12 MCQ	6
IU-MFMSE502-2	20 MCQ	12 MCQ	6
IU-MFMSE502-3	20 MCQ	13 MCQ	7
IU-MFMSE502-4	20 MCQ	13 MCQ	7
IU-MFMSE502-5	20 MCQ	13 MCQ	7

The test of 100 questions in the written part of the exam is designed as multiple choice questions (MCQ), where only one of the five offered answers is correct. In order to meet the above-mentioned outcomes, or to meet the written part of the exam, the student must achieve a minimum of 6-7 points for each expected outcome.

Teaching is conducted in the form of lectures, seminars and exercises. For additional stimulation of continuous work, in seminars and exercises, the student actively discusses pathophysiological mechanisms with the teacher. The student is obliged to prepare the material to be discussed in advance. The teacher assesses the student's participation in the seminar and exercises based on the demonstrated knowledge, understanding, connection with previously acquired knowledge, ability to understand problems, draw conclusions, etc.

Examples of questions from the database:

I INSTRUCTION – there is only one correct answer to the question

1. Which of the following statements is correct about the Philadelphia chromosome:

the correct answer is E

- a) is formed by reciprocal translocation between the 8th and 22nd chromosomes
- b) it is the 9th chromosome with an increased content of genetic material
- c) translocation creates an inactive c-abl / bcr gene
- d) inactive gene c-abl / bcr causes loss of function of the protein that is created by transcription of the gene
- e) is often found in patients suffering from chronic myeloid leukemia

II INSTRUCTION - There is only one correct answer according to the combination of the provided correct statements.

- o A - for a combination of statements 1,2 and 3
- o B - for a combination of statements 1 and 3
- o C - for a combination of statements 2 and 4
- o D – for statement 4
- o E - for a combination of statements 1, 2,3,4.

1. Hereditary spherocytosis is characterized by:

the correct answer is C

- 1. deficiency or abnormal structure of selectin

2. increased permeability of the cell to Na⁺
3. decreased glucose metabolism in erythrocytes
4. reduced cell surface area to volume ratio

III INSTRUCTION - Listed below are statements and reasons that can either be correct or incorrect by themselves. Also, the reason can be a correct or an incorrect interpretation of the statement.

Choose the corresponding combination according to the instruction:

- A** Statement correct – the reason is the correct interpretation of the statement
- B** Statement correct – the reason is not the correct interpretation of the statement
- C** Statement correct - the reason incorrect
- D** Statement incorrect - the reason correct
- E** Statement incorrect - the reason incorrect

**1. Glucocorticoids increase release of free fatty acids and glycerol from fat tissue
because**

glucocorticoids strongly stimulate lypolysis.

the correct answer is A

Grade point range:	< 55 = insufficient (1) 55-65 = sufficient (2); 66-77 = good (3); 77-88 = very good (4); 89-100 = excellent (5). Each of the outcomes is monitored, evaluated and graded separately throughout the academic year.
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The written exam is followed by an oral exam. The student answers 4 questions. Each question requires an answer. The learning outcomes that are assessed in the oral exam are:

- **IU-MFMSE502-6**
- **IU-MFMSE502-7**
- **IU-MFMSE502-8**

The oral exam tests the ability to comprehensively connect pathophysiological mechanisms at the organism level. The list of questions is available on the faculty's website throughout the year. The student must provide a satisfactory answer to each question in order to pass the oral exam, and the answers are evaluated based on the accuracy of the facts presented, the scope of the answer and its quality, the ability to connect teaching units, and the integration of etiopathogenetic mechanisms in the origin and development of the disease.

Example of an oral exam question:

Anemia

(classification of anemias, etiopathogenetic division of anemias, compensatory mechanisms in anemias, manifestations of anemias, tissue consequences and complications that occur in anemias, etc.)

FINAL GRADING

The final grade is obtained as the arithmetic mean of the grades from the written and oral exams (the sum of the grades from the written test and oral exam divided by 2), in accordance with Article 60, paragraph 7 of the Regulations on Studying at the University of Mostar (May 2024):

average grade equal to or above 4.50 – excellent (5)

average grade from 3.50 to 4.49 – very good (4)

average grade from 2.50 to 3.49 – good (3)

average grade from 2.00 to 2.29 – sufficient (2)

MEDICAL MICROBIOLOGY AND PARASITOLOGY– MFMSE601

Sample test of written exam

The written exam consists of three partial exams: bacteriology, virology, micology and parasitology (B+V+MiP).

B (60 questions of multiple choice, each correct answer is awarded with one point)

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFM601-1 IU- MFM601-2 IU- MFM601-3 IU- MFM601-4	60	60	33

The range for each grade and passing threshold:	54-60 total points = 5 47-53 total points = 4 40-46 total points = 3 33-39 total points = 2 Less than 33 total points = 1 provided that the minimum number of points to achieve the learning outcomes for each task is achieved.
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V (40 questions of multiple choice, each correct answer is awarded with one point)

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFM601-1 IU- MFM601-2 IU- MFM601-3 IU- MFM601-4	40	40	22

The range for each grade and passing threshold:	36-40 total points = 5 31-35 total points = 4 27-30 total points = 3 22-26 total points = 2 Less than 22 total points = 1 provided that the minimum number of points to achieve the learning outcomes for each task is achieved.
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MiP (30 questions of multiple choice, each correct answer is awarded with one point)

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
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IU- MFM601-1 IU- MFM601-2 IU- MFM601-3 IU- MFM601-4	30	30	16
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The range for each grade and passing threshold:	27-30 total points = 5 24-26 total points = 4 20-23 total points = 3 16-19 total points = 2 Less than 16 total points = 1 provided that the minimum number of points to achieve the learning outcomes for each task is achieved.
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Concept of practical exam

The practical part of the exam consists of 10 tasks, as follows: description of 3 microscopic preparations (one of which is parasitological), readings of grown cultures on the 3 media (bacteriological and / or mycological), recognition and description of the phenomenon that can be recognized on 3 nutrient media and antibiogram reading. Minimum number of points on questions is 6, but at least one of three microscopic preparations must be described.

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFM601-5	10	10	6

The range for each grade and passing threshold:	10 total points = 5 9 total points = 4 7-8 total points = 3 6 total points = 2 Less than 6 total points = 1 provided that the minimum number of points to achieve the learning outcomes for each task is achieved.
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Concept for oral exam

After passing all three partial exams and practical exam student can take an oral exam that contains 5 questions (one each from general microbiology, special bacteriology, special virology, special mycology and parasitology). Student must answer satisfactorily on all 5 questions. Course learning outcomes IU- MFM601-1, IU- MFM601-2, IU- MFM601-3 i IU- MFM601-4 are checked with an oral exam.

PHARMACOLOGY

SCHOOL OF MEDICINE, UNIVERSITY OF MOSTAR

1. First partial exam – sample test

Learning outcome code	Number of questions	Max. number of points per questions	Min. number of points to achieve learning outcomes
IU-MFMSE602-1	2	2	1
IU-MFMSE602-2	3	3	1
IU-MFMSE602-3	5	5	3
IU-MFMSE602-4	15	15	7
IU-MFMSE602-5	5	5	3
IU-MFMSE602-6	15	15	7

IU-MFMSE602-1, IU-MFMSE602-2, IU-MFMSE602-3, IU-MFMSE602-4, IU-MFMSE602-5, IU-MFMSE602-5, IU-MFMSE602-6

1st partial exam is conducted in the form of multiple choice questions with one correct answer. It consist of **45 questions** covering the material presented in lectures, seminars and practical exercises.

Range of scores for passing grades	27-31 = sufficient (2) 32-35 = good (3) 36-40 = very good (4) 41-45 = excellent (5) provided that the minimum score required for achieving the learning outcomes in each task has been achieved.
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2. Second partial exam – sample test

Learning outcome code	Number of questions	Max. number of points per questions	Min. number of points to achieve learning outcomes
IU-MFMSE602-7	35	35	17
IU-MFMSE602-8	16	16	8
IU-MFMSE602-9	4	4	2

IU-MFMSE602-7, IU-MFMSE602-8, IU-MFMSE602-9

2nd partial exam is conducted in the form of multiple choice questions with one correct answer. It consist of **55 questions** covering the material presented in lectures, seminars and practical exercises.

Range of scores for passing grades	33-37 = sufficient (2) 38-43 = good (3) 44-49 = very good (4) 50-55 = excellent (5) provided that the minimum score required for achieving the learning outcomes in each task has been achieved.
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3. Final exam – sample test

Learning outcome code	Number of questions	Max. number of points per questions	Min. number of points to achieve learning outcomes
IU-MFMSE602-1	2	2	1
IU-MFMSE602-2	3	3	1
IU-MFMSE602-3	5	5	3

IU-MFMSE602-4	15	15	7
IU-MFMSE602-5	5	5	3
IU-MFMSE602-6	15	15	7
IU-MFMSE602-7	35	35	17
IU-MFMSE602-8	16	16	8
IU-MFMSE602-9	4	4	2

IU-MFMSE602-1, IU-MFMSE602-2, IU-MFMSE602-3, IU-MFMSE602-4, IU-MFMSE602-5, IU-MFMSE602-6, IU-MFMSE602-7, IU-MFMSE602-8, IU-MFMSE602-9

Final exam is conducted in the form of multiple choice questions with one correct answer. It consist of **100 questions** covering the material presented in lectures, seminars and practical exercises.

Range of scores for passing grades	60-69 = sufficient (2) 70-79 = good (3) 80-89 = very good (4) 90-100 = excellent (5) provided that the minimum score required for achieving the learning outcomes in each task has been achieved.
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Note:

The first and second partial exams are organized during the Pharmacology course. **Only students who have passed both midterm exams are eligible to take the oral exam. Students who have not passed any of the midterm exams during the course must take the full written test.**

4. Practical exam (colloquium) – sample test

The colloquium covers writing medical prescriptions (Rx) of medicines, galenic and magistral preparations. It consists of 7 tasks, each carrying 1 point. To achieve IU-MFMSE602-10 learning outcome, a minimum of 5 points must be obtained.

Learning outcome code	Number of questions	Max. number of points per questions	Min. number of points to achieve learning outcomes
IU-MFMSE602-10	7	7	5

Note:

The Pharmacography colloquium is organized immediately after the completion of the course. In order to take the final exam in Pharmacology, the student **must pass the Pharmacography colloquium**, which assesses the ability to correctly write a medical prescription. If the student does not pass Pharmacography at that time, they may retake it during the regular final exam periods, where a successful result in the colloquium is a prerequisite for taking the Pharmacology exam.

5. Oral exam – the concept

The oral exam consists of **three (3) randomly selected questions** from a **question bank** that is made available to students in advance and **covers the entire course content**. Students may take the oral exam only after successfully passing the final written exam and the practical exam (colloquium).

Students are required to answer all assigned questions. The exam assesses the understanding of fundamental pharmacological concepts, the ability to logically connect drug mechanisms of action with their therapeutic effects and adverse reactions, as well as the clarity and accuracy of expression. Particular attention is given to the student's ability to integrate theoretical knowledge with clinical examples.

Point ranges for passing grades:	According to Academic Regulations the final grade is determined as it follows: 0-54% insufficient (1) 55-66% sufficient (2) 67-78% good (3) 79-90% very good (4) 91-100% excellent (5)
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SAMPLE TESTS OF WRITTEN EXAMS AND CONCEPTS OF ORAL AND PRACTICAL EXAMS

3rd Year of the Integrated University Study of Medicine Course: Clinical propedeutics (MFMSE603)

Sample Written Exam or Pre-Exam

Learning outcomes	Number of questions/tasks	Max points per question/task	Min points required for learning outcome
IU- MFMSE603-1	10	10	5
IU- MFMSE603-2	10	10	5
IU- MFMSE603-4	20	20	11

The written exam consists of 40 questions. The questions are multiple-choice with five provided answers, of which only one is correct. Each question (one correct answer) earns one point. Passing the written exam is a prerequisite for taking the practical and oral exams.

1. **IU-MFMSE603 – 1:** Ten questions on the basics and principles of clinical propedeutics.
2. **IU – MFMSE603 - 2:** Ten questions on clinical, laboratory, and imaging characteristics of diseases.
3. **IU – MFMSE603 – 4:** Twenty questions on leading signs and symptoms in internal medicine.

Range of passing grades:	0 – 54% Unsufficient (1) 55 – 66% Sufficient (2) 67 – 78% Good (3) 79 – 90% Very Good (4) 91 – 100% Excellent (5) <i>Provided the minimum score for achieving the learning outcome for each task is achieved.</i>
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Practical Exam

The practical exam in Clinical Propedeutics typically consists of demonstrating clinical skills that are crucial for assessing patients and making diagnoses.

1. **IU- MFMSE603-3:** Taking patient history and conducting a clinical examination.
2. **IU- MFMSE603-5:** Communicating appropriately with the patient and members of the medical team.

Concept of the Oral Exam

Learning outcomes	Title of content unit	Number of questions/tasks related to learning outcome	Min number of answered questions/solved tasks for learning outcome
IU- MFMSE603-1	Describe the principles of clinical propedeutics and its significance as the foundation of all branches of clinical medicine	1	1

IU- MFMSE603-2	Explain the process of taking patient history and conducting a clinical examination	1	1
IU- MFMSE603-4	List and explain leading signs and symptoms in internal medicine	1	1
IU- MFMSE603-6	Explain basic differential diagnoses and basic diagnostic methods in internal medicine	1	1

Range of passing grades for the final oral exam:	Excellent (5): 91% to 100% correct answers = 35% of the grade The student demonstrates exceptional knowledge and understanding of the material. Responses are complete, accurate, and error-free. They can correctly apply theory to practical cases and demonstrate critical thinking ability. Communication is clear and structured. Very Good (4): 79% to 90% correct answers = 29.75% of the grade The student has a very good understanding of most material, with minor omissions or errors. Demonstrates solid ability to apply knowledge in clinical situations. Although there are minor inaccuracies, the student clearly understands key concepts and principles. Good (3): 67% to 78% correct answers = 24.5% of the grade The student shows basic understanding of the material, but with several major errors or deficiencies. They can recognize basic concepts but may not always accurately analyze more complex situations. Sufficient (2): 55% to 66% correct answers = 19.25% of the grade The student has minimal understanding of the material. There are significant gaps in knowledge, and responses are often unclear or incorrect. They succeed in recognizing only basic concepts, but the application of knowledge in clinical situations is very limited. Unsufficient (1): Less than 55% correct answers = 0% of the grade The student does not demonstrate sufficient understanding of the material and lacks the basic knowledge required to pass. Responses are imprecise, with numerous errors or completely incorrect. They are unable to apply basic concepts in clinical situations.
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PERSONALIZED MEDICINE AND BIOTECHNOLOGY (MFMSE604)– Medical studies in English

Course learning outcome code	Total number of questions	Maximum number of points on questions	Minimum number of points on questions
IU- MFMSE604-1	5	5	3
IU- MFMSE604-2	5	5	3
IU- MFMSE604-3	5	5	3
IU- MFMSE604-4	5	5	3
IU- MFMSE604-5	5	5	3

The written exam consists of 25 questions, for writing an answer or choosing one correct answer from several proposed answers (multiple choice).

IU- MFMSE604-1 to IU- MFMSE604-5: each outcome is assessed by 5 multiple choice question with one correct answer or writing a text answer. Minimum 3 points are warranted to achieve an outcome.

SEMINAR PAPERS

The seminar work is a pre-examination obligation of every student, which they are obliged to do in cooperation with the teacher. Topics for two seminar papers for each student are assigned at the beginning of the course.

The learning outcomes of IU-MFMSE604-2, IU-MFMSE604-4 and IU-MFMSE604-5 are achieved on the basis of two seminar papers. The structure, content and presentation of the papers are evaluated.

The range for each grade and passing threshold:	The course is considered passed if the student achieves at least 60% of the points, provided that the minimum number of points to achieve the learning outcomes for each task has been achieved. Range of passing grades on the written test: <15 points = grade 1 15-17 points = grade 2 18-19 points = grade 3 20-22 points = grade 4 23-25 points = grade 5 The final grade is obtained as a weighting of the grades (as ponder) from the seminar assignment (10% of the grade) and the written exam (90% of the grade).
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Course: SOCIAL MEDICINE MFMSE605**Sample Written Exam Test**

Learning Outcome Code	Number of Questions/Tasks	Max. Points per Question/Task	Minimum Points Required for Achieving Learning Outcome
IU-MFMSE605-1	3	6	4
IU-MFMSE605-2	2	4	2
IU-MFMSE605-3	2	4	2
IU-MFMSE605-4	2	4	2
IU-MFMSE605-5	2	4	2
IU-MFMSE605-6	2	4	2

IU-MFMSE605-1- three multiple-choice questions with one correct answer (2 points $\times$ 3 = 6). To achieve IU-MFMSE605-1, a minimum of 4 points is required.

IU-MFMSE605-2-two multiple-choice questions with one correct answer (2 points $\times$ 2 = 4). To achieve IU-MFMSE605-2, a minimum of 2 points is required.

IU-MFMSE605-3- two multiple-choice questions with one correct answer (2 points $\times$ 2 = 4). To achieve IU-MFMSE605-3, a minimum of 2 points is required.

IU-MFMSE605-4- two multiple-choice questions with one correct answer (2 points $\times$ 2 = 4). To achieve IU-MFMSE605-4, a minimum of 2 points is required.

IU-MFMSE605-5-two multiple-choice questions with one correct answer (2 points $\times$ 2 = 4). To achieve IU-MFMSE605-5, a minimum of 2 points is required.

IU-MFMSE605-6- two multiple-choice questions with one correct answer (2 points $\times$ 2 = 4). To achieve IU-MFMSE605-6, a minimum of 2 points is required.

The test questions are of the multiple-choice type, and among the offered answers only one is correct.

The test consists of a total of 13 questions. There are no negative points for incorrect answers.

Grading scale (passing grades):

- Excellent (5): 24–26 points achieved
- Very good (4): 22 points achieved
- Good (3): 18–20 points achieved
- Sufficient (2): 16 points achieved
- Insufficient (1): 0–14 points achieved
- *Note: A minimum number of points must be achieved for each learning outcome in order to pass.*

Elective course – Understanding clinical trials

Sample test of the written exam:

Course learning outcome code	Total number of questions/ tasks	Maximum number of points	Minimum number of points
IU-MFMSEI05-1, IU-MFMSEI05-2, IU-MFMSEI05-3	1.	60	35
IU-MFMSEI05-4, IU-MFMSEI05-5	2.	40	25

Task 1 Complete the CONSORT checklist for one clinical trial.

Task 2. Search ClinicalTrials.gov for a registered protocol and check for changes in outcomes during the trial.

Grading scale (passing grades):	The subject is considered passed for a student who has achieved at least 55% of the points provided that the minimum number of points to achieve the learning outcomes for each task is achieved. The grade is descriptive.
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1. Find a randomised controlled trial of your choice on PubMed. Fill in the study title and cite the study using the Vancouver style of citation.

Study title:

Citation:

1. Fill out the Consort checklist (mark each item you find in the article text).

Section/topic	No	CONSORT 2025 checklist item description	Reported on page no.
Title and abstract			
Title and structured abstract	1a	Identification as a randomised trial	_____
	1b	Structured summary of the trial design, methods, results, and conclusions	_____
Open science			
Trial registration	2	Name of trial registry, identifying number (with URL) and date of registration	_____
Protocol and statistical analysis plan	3	Where the trial protocol and statistical analysis plan can be accessed	_____
Data sharing	4	Where and how the individual de-identified participant data (including data dictionary), statistical code and any other materials can be accessed	_____
Funding and conflicts of interest	5a	Sources of funding and other support (eg, supply of drugs), and role of funders in the design, conduct, analysis and reporting of the trial	_____
	5b	Financial and other conflicts of interest of the manuscript authors	_____
Introduction			
Background and rationale	6	Scientific background and rationale	_____
Objectives	7	Specific objectives related to benefits and harms	_____
Methods			
Patient and public involvement	8	Details of patient or public involvement in the design, conduct and reporting of the trial	_____
Trial design	9	Description of trial design including type of trial (eg, parallel group, crossover), allocation ratio, and framework (eg, superiority, equivalence, non-inferiority, exploratory)	_____
Changes to trial protocol	10	Important changes to the trial after it commenced including any outcomes or analyses that were not prespecified, with reason	_____
Trial setting	11	Settings (eg, community, hospital) and locations (eg, countries, sites) where the trial was conducted	_____
Eligibility criteria	12a	Eligibility criteria for participants	_____
	12b	If applicable, eligibility criteria for sites and for individuals delivering the interventions (eg, surgeons, physiotherapists)	_____
Intervention and comparator	13	Intervention and comparator with sufficient details to allow replication. If relevant, where additional materials describing the intervention and comparator (eg, intervention manual) can be accessed	_____
Outcomes	14	Prespecified primary and secondary outcomes, including the specific measurement variable (eg, systolic blood pressure), analysis metric (eg, change from baseline, final	_____

		value, time to event), method of aggregation (eg, median, proportion), and time point for each outcome	
Harms	15	How harms were defined and assessed (eg, systematically, non-systematically)	
Sample size	16a	How sample size was determined, including all assumptions supporting the sample size calculation	
	16b	Explanation of any interim analyses and stopping guidelines	
Randomisation: Sequence generation	17a	Who generated the random allocation sequence and the method used	
	17b	Type of randomisation and details of any restriction (eg, stratification, blocking and block size)	
			Reported on page no.
Allocation concealment mechanism	18	Mechanism used to implement the random allocation sequence (eg, central computer/telephone; sequentially numbered, opaque, sealed containers), describing any steps to conceal the sequence until interventions were assigned	
Implementation	19	Whether the personnel who enrolled and those who assigned participants to the interventions had access to the random allocation sequence	
Blinding	20a	Who was blinded after assignment to interventions (eg, participants, care providers, outcome assessors, data analysts)	
	20b	If blinded, how blinding was achieved and description of the similarity of interventions	
Statistical methods	21a	Statistical methods used to compare groups for primary and secondary outcomes, including harms	
	21b	Definition of who is included in each analysis (eg, all randomised participants), and in which group	
	21c	How missing data were handled in the analysis	
	21d	Methods for any additional analyses (eg, subgroup and sensitivity analyses), distinguishing prespecified from post hoc	
Results			
Participant flow, including flow diagram	22a	For each group, the numbers of participants who were randomly assigned, received intended intervention, and were analysed for the primary outcome	
	22b	For each group, losses and exclusions after randomisation, together with reasons	
Recruitment	23a	Dates defining the periods of recruitment and follow-up for outcomes of benefits and harms	
	23b	If relevant, why the trial ended or was stopped	
Intervention and comparator delivery	24a	Intervention and comparator as they were actually administered (eg, where appropriate, who delivered the intervention/comparator, how participants adhered, whether they were delivered as intended (fidelity))	
	24b	Concomitant care received during the trial for each group	
Baseline data	25	A table showing baseline demographic and clinical characteristics for each group	
Numbers analysed, outcomes and estimation	26	For each primary and secondary outcome, by group: ● the number of participants included in the analysis ● the number of participants with available data at the outcome time point ● result for each group, and the estimated effect size and its precision (such as 95% confidence interval)	

		• for binary outcomes, presentation of both absolute and relative effect size	_____
Harms	27	All harms or unintended events in each group	_____
Ancillary analyses	28	Any other analyses performed, including subgroup and sensitivity analyses, distinguishing pre-specified from post hoc	_____
Discussion			
Interpretation	29	Interpretation consistent with results, balancing benefits and harms, and considering other relevant evidence	_____
Limitations	30	Trial limitations, addressing sources of potential bias, imprecision, generalisability, and, if relevant, multiplicity of analyses	_____

*We strongly recommend reading this statement in conjunction with the CONSORT 2010 Explanation and Elaboration for important clarifications on all the items. If relevant, we also recommend reading CONSORT extensions for cluster randomised trials, non-inferiority and equivalence trials, non-pharmacological treatments, herbal interventions, and pragmatic trials. Additional extensions are forthcoming: for those and for up to date references relevant to this checklist, see <https://www.consort-spirit.org/>.

Based on the results of the study and the results of your analysis using the CONSORT checklist, would you use the intervention provided in the study on your patients?

Please explain your answer.

2. Go to the registry of clinical trials (<https://www.clinicaltrials.gov/>). Check whether your study was registered. If yes, see if the primary outcome measure changed during the course of the study.

Clinical trials number (NCT):

Was there a difference between the current and the original primary outcome measure?

When you are finished with the assignment, upload the document to the Sumarum course page. The title of your uploaded document should follow this format: "Surname_CTelective 2024".

Elective: Test tube baby (MFMSEI06) – Medical studies in English

Course learning outcome code	Total number of questions	Maximum number of points on questions	Maximum number of points on questions
IU-MFMSEI06-1	2	2	1
IU-MFMSEI06-2	2	2	1
IU-MFMSEI06-3	2	2	1
IU-MFMSEI06-4	2	2	1
IU-MFMSEI06-5	2	2	1

The written exam consists of 10 questions, for which student provides a textual answer.

Examples of questions:

Q1. List the most common IVF techniques.

Q2. Explain the process of embryo transfer.

Q3. List some ethical issues related to assisted reproduction techniques and surrogacy.

The range for each grade and passing threshold:	The subject is considered passed for a student who has achieved at least 55% of the points provided, that is the minimum number of points to achieve the learning outcomes for each task. The grade is descriptive.
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Elective: Health promotion and disease prevention in family medicine

Mock test for practical and written exam

Learning outcomes code	Number of questions / tasks	Max. number of points per question / task	Minimum number of points for achieving learning outcomes
IU-MFMSEI07-1	8	8	4
IU-MFMSEI07-2	8	8	4
IU-MFMSEI07-3	8	8	4
IU-MFMSEI07-4	4	4	2

Example of a question for learning outcome 1:

Active health care in the community / society includes:

- (a) measures for health promotion, specific prevention and early detection of diseases;
- (b) protecting the health of the population in all cases in order to solve their health problems.

Example of a question for learning outcome 2:

The incidence of a disease, as a health indicator, represents:

- (a) the number of all affected individuals per total population
- (b) the number of newly detected cases in one year per total population
- (c) the number of deaths in relation to the number of patients with that disease

Example of a question for learning outcome 3:

Primary prevention does not represent:

- (a) prevention of diarrhea in young children by ensuring safe water supply and breastfeeding promotion, as well as dental fluoridation;
- (b) prevention of cervical cancer through the promotion of healthy sexual practices;
- (c) controlling high blood pressure to prevent cardiovascular complications.

Example of a question for learning outcome 4:

A system of payment for health care workers based on "fee-for-service" produces one of the following results:

- (a) cost control is satisfactory, quality of service is poor, and administration is easy;
- (b) cost control is very poor, quality of service is good, and administration is very difficult;

(c) cost control is very good, quality of service is satisfactory, and administration is very easy.

Outcomes No. 2 refers to the practical part of the exam, outcomes 1, 3 and 4 to the written part of the exam.

Passing grade point range:	The subject is considered passed for a student who has achieved at least 55% of the points provided, that is the minimum number of points to achieve the learning outcomes for each task. The evaluation is descriptive.
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