

# Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY for MEDICALS & APPLIED  
SCIENCES



## Faculty of Medicine

Department of Pediatrics

Bachelor Program of Medicine and Surgery

## Course Specification of

Pediatrics Block I

**Block Code. (A21P412)**

**(1<sup>st</sup> Course)**

**2023**



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. Nora Nor-aldeen	Dr. Ahmed Hudna	Dr. Nora Noraldeen	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

## I. General Information:

1.	Course Title:	Pediatrics Block 1- (1 <sup>st</sup> Course)				
2.	Block Code:	A21P413				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		4	2	--	--	6
4.	Level/ Semester at which this Course is offered:	4 <sup>th</sup> Level / 1 <sup>st</sup> Semester				
5.	Pre –Requisite (if any):	All systems				
6.	Co –Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of Medicine and Surgery				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Medicine				
10.	Prepared by:	Dr. Nora Nor-aldeen				
12	Date and Number of Approval by Council:	2023				

## II. Course Description:

This course aims to provide an essential information about the general health of neonates and the most important diseases of this period of age. also, this course will cover the steps of growth, development and their disorders. The genetic basics of common diseases will be described during this course, this topic will be explained by a lot of method as lectures, group discussion, seminars,

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practical session, case study and presentation. Assignment, Practical and theoretical exams will be used as assessment tools of this course

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs	
<b>A. Knowledge and Understanding:</b>		*I, P or M/A	
a1	Identify the human growth and developmental stages and their alterations and the principles of management of those disorders	I	A2 Identify the progress of human body through all stages of development, alteration of structure and function during these stages and indication for surgical or non-surgical intervention and the role of treatment in healing or curing the diseases.
a2	Explain the general concept of human genetic and their disorders, the different classes of diseases and their effect on the neonatal health.	I	A3 Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
<b>B. Intellectual Skills:</b>			
b1	Differentiate between healthy and pathological state of neonate, and the general concept of immunization and infant nutrition	P	B1 Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
b2	Analyze the clinical history, examination and investigation to put a diagnostic and therapeutic plan of different common neonatal diseases	P	B2 Analyze the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared

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				management plan for common acute, chronic and urgent physical and mental health presentations.
<b>C. Professional and Practical Skills:</b>				
c1	Perform a complete clinical history and examination and mention the appropriate diagnostic tools.	P	C1	Perform complete clinical examination and precise investigations to reach the final diagnosis
c2	Prescribe the appropriate drugs for the main neonatal diseases with the adequate knowledge of pharmacological proprieties of drugs	P	C2	Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability.
c3	Participate in the routine neonatal and infantile procedure and the diagnostic and therapeutic tools	P	C3	Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.
<b>D. Transferable Skills:</b>				
d1	Provide a clear medical communication with patients and their families about the medical status of the patients	P	D1	Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.

\* I= Introduced, P=Practiced or M/A= Mastered/Advanced

<b>(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:</b>		
	Course Intended Learning Outcomes	Teaching Strategies
a1	Identify the human growth and	<ul style="list-style-type: none"> <li>Lectures</li> </ul>

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	developmental stages and their alterations and the principles of management of those disorders	<ul style="list-style-type: none"> <li>• Seminars</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Final Written exam</li> </ul>
a2	Explain the general concept of human genetic and their disorders, the different classes of diseases and their effect on the neonatal health.	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Seminars</li> <li>• Discussion</li> <li>• Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assignment</li> <li>▪ Final Written exam</li> </ul>
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
b1	Differentiate between healthy and pathological state of neonate, and the general concept of immunization and infant nutrition	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Seminars</li> <li>• Practical session</li> <li>• Discussion</li> <li>• Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>• Final Written exam</li> <li>• Final practical exam</li> <li>• long-short-OSCE</li> <li>• Assignment</li> </ul>
b2	Analyze the clinical history, examination and investigation to put a diagnostic and therapeutic plan of different common neonatal diseases	<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Seminars</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>• Final Written exam</li> <li>• Final practical exam</li> <li>• long-short-OSCE</li> <li>• Assignment</li> </ul>
<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
c1	Perform a complete clinical history and examination and mention the appropriate diagnostic tools.	<ul style="list-style-type: none"> <li>• Training</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Case study</li> </ul>	<ul style="list-style-type: none"> <li>▪ Final practical exam</li> <li>▪ long-short- OSCE</li> <li>▪ Assignment</li> </ul>

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c2	Prescribe the appropriate drugs for the main neonatal diseases with the adequate knowledge of pharmacological proprieties of drugs	<ul style="list-style-type: none"> <li>• Training</li> <li>• Practical session</li> <li>• Discussion</li> <li>▪ Case study</li> </ul>	<ul style="list-style-type: none"> <li>▪ Final Clinical exam</li> <li>▪ long-short- OSCE</li> <li>▪ Assignment</li> </ul>
c3	Participate in the routine neonatal and infantile procedure and the diagnostic and therapeutic tools	<ul style="list-style-type: none"> <li>• Training</li> <li>• Practical session</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>▪ Final Clinical exam</li> <li>▪ long-short- OSCE</li> <li>▪ Assignment</li> </ul>
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d1	Provide a clear medical communication with patients and their families about the medical status of the patients	<ul style="list-style-type: none"> <li>• Practical session</li> <li>• Discussion</li> <li>• Presentation</li> </ul>	<ul style="list-style-type: none"> <li>▪ Oral Presentation</li> <li>▪ Homework</li> </ul>

#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Neonatology	- Normal neonate	1 <sup>st</sup> w	2h	a1, a2, b1, b2,
		- Breast and artificial feeding		2h	
		- Neonatal jaundice		2h	
		- Prematurity		2h	
2	Neonatal convulsion	- Definition, etiology, clinical pictures, diagnosis and treatment		2h	
3	Respiratory distress syndrome	- Definition, etiology, clinical pictures, diagnosis and treatment	2h		

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
4	Neonatal sepsis	- Definition, etiology, clinical pictures, diagnosis and treatment	2 <sup>nd</sup> w	2h	
5	Congenital infection	- Definition, etiology, clinical pictures, diagnosis and treatment		2h	
6	Neonatal emergencies	- Definition, etiology, clinical pictures, diagnosis and treatment - Neonatal resuscitation		2h	
7	Growth	- stages and disorders of growth		2h	
8	Development	- stages and disorders of development		2h	
9	Genetic	- Basics of genetic of Common genetic syndrome		2h	
10	Immunization	- General concept and different vaccine (type, route, side effect) according to Yemeni schedule	3 <sup>rd</sup> w	2h	
12	Final Written Exam		7 <sup>th</sup> w	2h	a1, a2, b1, b2
<b>Total</b>			<b>3W</b>	<b>28</b>	

### B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Normal neonate	1 <sup>st</sup>	30	b1, b2, c1, c2, c3, d1
2	Breast and artificial feeding	1 <sup>st</sup>		b1, b2, c1, c2, c3, d1
3	Common neonatal diseases	2 <sup>nd</sup>	30	b1, b2, c1, c2, c3, d1

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No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
4	Growth, development and immunization	3 <sup>rd</sup>	24	b1, b2, c1, c2, c3, d1
5	Final Clinical exam	7 <sup>th</sup> W	3	b1, b2, c1, c2, c3, d1
<b>Number of Weeks /and Units Per Semester</b>		<b>3W</b>	<b>87</b>	

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Congenital infection	2 <sup>nd</sup> w	2 h	b1, b2, c1, c2, c3
2	Down syndrome	3 <sup>rd</sup> w	2 h	b1, b2, c1, c2, c3, d1
<b>Number of Weeks /and Units Per Semester</b>		<b>2w</b>	<b>4h</b>	

### V. Teaching Strategies of the Course:

- Lectures
- Seminars
- Training
- Practical session
- Discussion
- Self-learning
- Presentation
- Case study

### VI. Assessment Methods of the Course:

- Final written exam
- Final clinical exam
- Long-short- OSCE
- Oral Presentation

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- Assignment
- Homework

## VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: neonatal resuscitation	1 <sup>st</sup> w	5	a1, a2, b1, b2, c1, c2, c3
2	Assignment 2: vaccination program	2 <sup>nd</sup> w	5	a1, a2, b1, b2, c1, c2, c3
Total			10	

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	1 <sup>st</sup> -2 <sup>nd</sup>	10	10%	a1,a2,b1,b2,c1,c2,c3
2	Homework & Oral Presentation	2 <sup>nd</sup> -3 <sup>rd</sup>	10	10%	d1
3	Final Clinical Exam	7 <sup>th</sup>	30	30%	b1, b2, c1, c2, c3
4	Final Written Exam & long-short-OSCE	7 <sup>th</sup>	50	50%	a1, a2, b1, b2,c1, c2, c3
Total			100	100%	

## IX. Learning Resources:

### 1- Required Textbook(s):

- 1) Karen J. Marcdante, 2019, Nelson Essentials of Pediatrics, Eighth Edition, Elsevier
- 2) Robert M. Kliegman, 2020, Nelson Textbook of Pediatrics, 21<sup>st</sup> Edition,

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Elsevier
<b>2- Essential References:</b>
1- Keith Kleinman, 2021, The Harriet Lane Handbook, 22nd Edition, Elsevier 2- Albert J. Pomeranz, 2016, Pediatric Decision-Making Strategies, Second Edition, Saunders
<b>3- Electronic Materials and Web Sites etc.:</b>
1) <a href="http://www.aap.com">http://www.aap.com</a> 2) <a href="http://www.medscape.com">http://www.medscape.com</a>

## X. Course Policies: (Based on the Uniform Students' By law (2007))

<b>1</b>	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>2</b>	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
<b>3</b>	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
<b>4</b>	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>5</b>	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
<b>6</b>	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
<b>7</b>	<b>Other policies:</b>

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The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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## Faculty of Medicine

### Department of Pediatrics

### Bachelor Program of Medicine and Surgery

## Course Plan (Syllabus) of Pediatrics Block I

### Block Code. (A21P412)

### (1<sup>st</sup> Course)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:	-----						
E-mail:	--@---	SAT	SUN	MON	TUE	WED	THU

2023

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## II. Course Identification and General Information:

	<b>Course Title:</b>	Pediatrics Block 1- (1st Course)				
	<b>Block Code:</b>	A21P413				
	<b>Credit Hours:</b>	<b>Credit Hours</b>	<b>Theory Contact Hours</b>		<b>Practical Contact Hours</b>	
			<b>Lecture</b>	<b>Tutorial/Seminar</b>	<b>Lab</b>	<b>Clinical</b>
		4	2	--	--	
	<b>Level/ Semester at which this Course is offered:</b>	4th Level / 1st Semester				
	<b>Pre –Requisite (if any):</b>	All systems				
	<b>Co –Requisite (if any):</b>	None				
	<b>Program (s) in which the Course is Offered:</b>	Bachelor of Medicine and Surgery				
	<b>Language of Teaching the Course:</b>	English				
	<b>Location of Teaching the Course:</b>	Faculty of Medicine				
	<b>Prepared by:</b>	Dr. Nora Nor-aldeen				
12	<b>Date and Number of Approval by Council:</b>	2023				

## III. Course Description:

This course aims to provide an essential information about the general health of neonates and the most important diseases of this period of age. also, this course will cover the steps of growth, development and their disorders. The genetic basics of common diseases will be described during this course, this topic will be explained by a lot of method as lectures, group discussion, seminars, practical session, case study and presentation. Assignment, Practical and theoretical exams will be used as assessment tools of this course

<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Head of department</b>	<b>Quality Unit:</b>	<b>Dean of Medicine Faculty</b>	<b>Center of Development and Quality Assurance Dean</b>
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#### IV. Course Intended Learning Outcomes (CILOs):

Upon successful completion of the Course, student will be able to:

A1. Identify the human growth and developmental stages and their alterations and the principles of management of those disorders

A2. Explain the general concept of human genetic and their disorders, the different classes of diseases and their effect on the neonatal health.

B1. Differentiate between healthy and pathological state of neonate, and the general concept of immunization and infant nutrition

B2. Analyze the clinical history, examination and investigation to put a diagnostic and therapeutic plan of different common neonatal diseases

C1. Perform a complete clinical history and examination and mention the appropriate diagnostic tools.

C2. Prescribe the appropriate drugs for the main neonatal diseases with the adequate knowledge of pharmacological proprieties of drugs

C3. Participate in the routine neonatal and infantile procedure and the diagnostic and therapeutic tools

D1. Provide a clear medical communication with patients and their families about the medical status of the patients

#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Neonatology	- Normal neonate	1 <sup>st</sup> w	2h
		- Breast and artificial feeding		2h
		- Neonatal jaundice		2h
		- Prematurity		2h
2	Neonatal convulsion	- Definition, etiology, clinical pictures, diagnosis and treatment		2h

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
3	<b>Respiratory distress syndrome</b>	- Definition, etiology, clinical pictures, diagnosis and treatment		2h
4	<b>Neonatal sepsis</b>	- Definition, etiology, clinical pictures, diagnosis and treatment	2 <sup>nd</sup> w	2h
5	<b>Congenital infection</b>	- Definition, etiology, clinical pictures, diagnosis and treatment		2h
6	<b>Neonatal emergencies</b>	- Definition, etiology, clinical pictures, diagnosis and treatment - Neonatal resuscitation		2h
7	<b>Growth</b>	- stages and disorders of growth		2h
8	<b>Development</b>	- stages and disorders of development		2h
9	<b>Genetic</b>	- Basics of genetic of Common genetic syndrome		2h
10	<b>Immunization</b>	- General concept and different vaccine (type, route, side effect) according to Yemeni schedule	3 <sup>rd</sup> w	2h
12	<b>Final Theoretical Exam</b>		7 <sup>th</sup> w	2h
<b>Total</b>			<b>3W</b>	<b>30</b>

#### B. Practical Aspect (Lab/Clinical) (if any):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours
1	Normal neonate	1 <sup>st</sup>	30
2	Breast and artificial feeding	1 <sup>st</sup>	
3	Common neonatal diseases	2 <sup>nd</sup>	30
4	Growth, development and immunization	3 <sup>rd</sup>	24

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No.	Tasks/ Experiments	Number of Weeks	Contact Hours
5	Final Clinical exam	7 <sup>th</sup> W	3
<b>Number of Weeks /and Units Per Semester</b>		<b>3W</b>	<b>87</b>

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours
1	Congenital infection	2 <sup>nd</sup> w	2 h
2	Down syndrome	3 <sup>rd</sup> w	2 h
<b>Number of Weeks /and Units Per Semester</b>		<b>2w</b>	<b>4h</b>

### V. Teaching Strategies of the Course:

- Lectures
- Seminars
- Training
- Practical session
- Discussion
- Self-learning
- Presentation
- Case study

### VI. Assessment Methods of the Course:

- Written exam
- Final Clinical exam
- long-short- OSCE
- Oral Presentation
- Assignment
- Homework

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## VII. Assignments:

No.	Assignments	Week Due	Mark
1	Assignment 1: neonatal resuscitation	1 <sup>st</sup> w	5
2	Assignment 2: vaccination program	2 <sup>nd</sup> w	5
Total			10

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	1 <sup>st</sup> -2 <sup>nd</sup>	10	10%
2	Homework & Oral Presentation	2 <sup>nd</sup> -3 <sup>rd</sup>	10	10%
3	Final Clinical Exam	7 <sup>th</sup>	30	30%
4	Final Theoretical Exam & long-short-OSCE	7 <sup>th</sup>	50	50%
Total			100	100%

## X. Learning Resources:

### 1- Required Textbook(s):

1. Karen J. Marcdante, 2019, Nelson Essentials of Pediatrics, Eighth Edition, Elsevier
- 3- Robert M. Kliegman, 2020, Nelson Textbook of Pediatrics, 21<sup>st</sup> Edition, Elsevier

### 2- Essential References:

- 4- Keith Kleinman, 2021, The Harriet Lane Handbook, 22nd Edition, Elsevier
- 5- Albert J. Pomeranz, 2016, Pediatric Decision-Making Strategies, Second Edition, Saunders

### 3- Electronic Materials and Web Sites etc.:

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- 1- <http://www.aap.com>
- 2- <http://www.medscape.com>

## XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

<b>Class Attendance:</b>	
1	Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
<b>Tardiness:</b>	
2	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
<b>Exam Attendance/Punctuality:</b>	
3	No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
<b>Assignments &amp; Projects:</b>	
4	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
<b>Cheating:</b>	
5	Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
<b>Forgery and Impersonation:</b>	
6	Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
<b>Other policies:</b>	
7	The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
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