

Osmosis from Elsevier

<https://www.osmosis.org/login>

Osmosis-მიმოხილვა.

- **Osmosis** არის Elsevier-ის პროდუქტებს შორის უახლესი სასწავლო პლატფორმა, რომელიც სამედიცინო დარგის სტუდენტებსა და პედაგოგებს სთავაზობს, უმოკლეს დროში, ინფორმაციაზე წვდომას ვიდეოებისა და ფლემ ბარათების საშუალებით.
- **Osmosis** მოიცავს 1700-ზე მეტ ვიდეოს, 15000-ზე მეტ ფლემ ბარათს და ათასობით კითხვა-პასუხს ანატომიის, ფიზიოლოგიის, პათოლოგიის, ფარმაკოლოგიისა და სხვა სამედიცინო დარგის შესახებ.
- **Osmosis** არის შესანიშნავი რესურსი მათთვის ვისაც სურს USMLE გამოცდისთვის მომზადება.

Osmosis-ზე წვდომისთვის საჭიროა გაიაროთ რეგისტრაცია წინასწარ მიღებული მეილით და პაროლით.



The best learning experience possible.

Osmosis empowers students with our comprehensive video library combined with powerful study tools.

School email

Enter email (School email preferred)

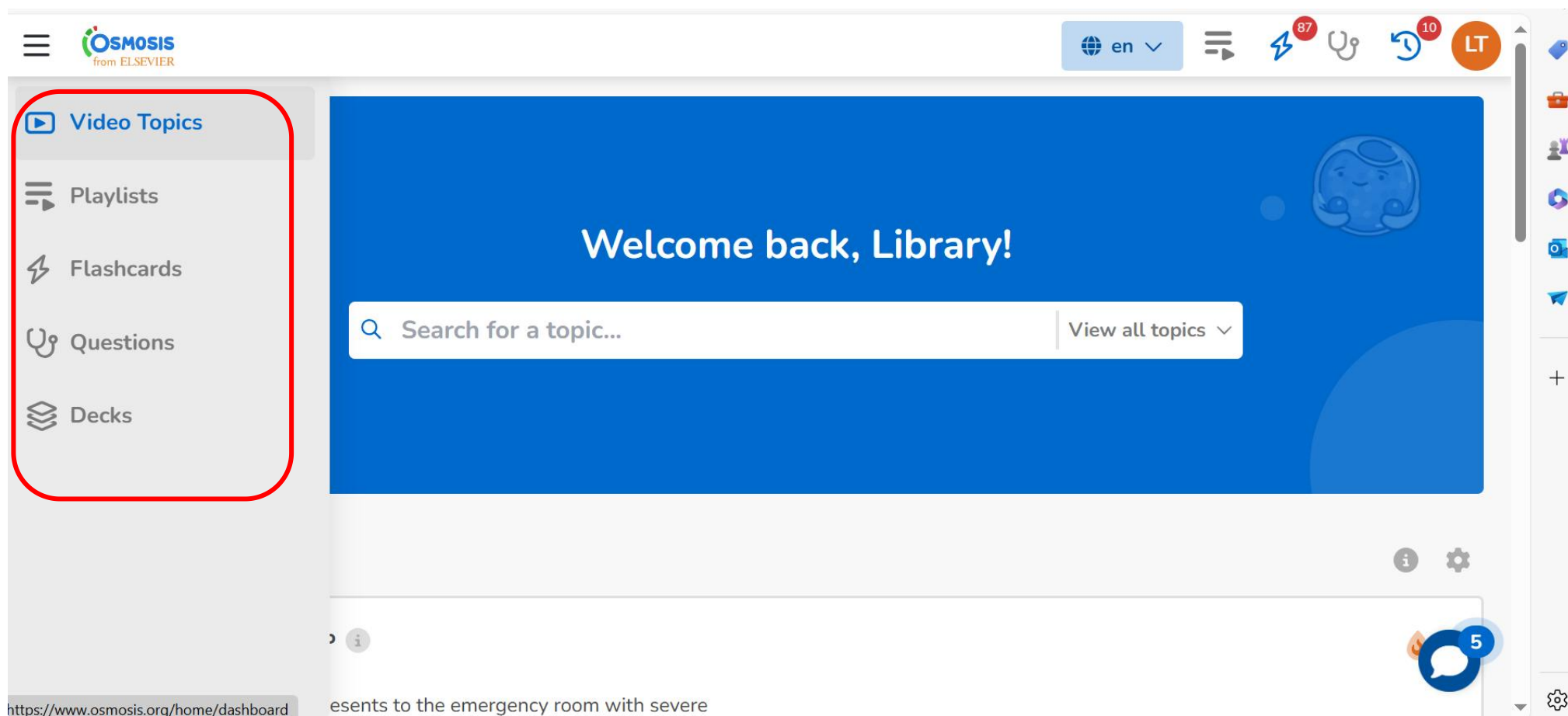
Password

Password

Sign in



საწყისი გვერდის მარცხენა ნაწილში წარმოდგენილია მენიუ.



Video topics-ზე გადასვლით პროგრამა გამოგიტანთ ძირითადი და კლინიკური მეცნიერებების განყოფილებებში წარმოდგენილ ვიდეოების ჩამონათვალს, რომლებიც შიგნით ჩაშლილია სისტემებისა და საგნების მიხედვით.

The screenshot displays the Osmosis website interface. At the top, the Osmosis logo (from ELSEVIER) is on the left, and navigation icons (language, search, notifications, and user profile) are on the right. The main content area is titled "All video topics" and is divided into two primary categories: "Basic Sciences" (highlighted in green) and "Clinical Sciences" (highlighted in yellow). Under "Basic Sciences", there are two sub-sections: "Foundational Sciences" and "Organ Systems". "Foundational Sciences" includes topics like Anatomy (highlighted in blue), Behavioral health, Biochemistry and nutrition, Biostatistics, epidemiology, population health, and interpretation of the medical literature, Cellular and molecular biology, Embryology, Genetics, and Histology. "Organ Systems" includes Blood and lymphoreticular system, Cardiovascular system, Endocrine system, Gastrointestinal system, Immune system, Musculoskeletal system, Nervous system and special senses, Renal and urinary system, and Reproductive system and breast. Under "Clinical Sciences", there is a sub-section "Clinical Rotations" (marked with an information icon) which includes Emergency medicine, Family medicine, Internal medicine (marked with a "NEW" badge), Neurology, Obstetrics and gynecology (marked with a "NEW" badge), Pediatrics (marked with a "NEW" badge), Psychiatry, and Surgery (marked with a "NEW" badge). A cartoon character is visible on the left side of the page, and a sidebar with various icons is on the right. A URL bar at the bottom left shows the link: <https://www.osmosis.org/library/oh/foundational-sciences/anatomy>.

პროგრამა გაძლევთ საშუალებას კონკრეტული ვიდეოს ყურების შემდეგ ვიდეოს ირგვლივ უპასუხოთ კითხვებს და შეამოწმოთ თქვენი ცოდნა.

The screenshot displays the Osmosis web application interface. At the top, there is a navigation bar with the Osmosis logo (labeled 'from ELSEVIER'), a 'Topics' dropdown menu, a search bar with the placeholder text 'Search for videos and notes', a language selector set to 'en', and several utility icons including a lightning bolt with a red '87' badge, a magnifying glass, a circular arrow with a red '10' badge, and a profile icon labeled 'LT'. Below the navigation bar, a list of video topics is shown, including 'Anatomy clinical correlates: Spinal cord pathways' and 'Anatomy clinical correlates: Vertebral canal'. The main content area features a red-bordered box containing the 'Assessments' section for the selected video. This section includes the title 'Assessments' with a shield icon, the video title 'Anatomy clinical correlates: Spinal cord pathways', and two categories of questions: 'Preclinical questions' and 'Clinical questions', both showing '0 / 4 complete' and accompanied by a '+' icon and a 'Start' button. Below the assessments section, a 'Transcript' section is partially visible, marked with a 'cc' icon. On the right side of the interface, a vertical sidebar contains various icons for additional features, and a blue speech bubble icon with a white '5' is located at the bottom right.

Osmosis High Yield Notes-ში წარმოდგენილია ლაკონური და ადვილად ასათვისებელი გრაფიკული გამოსახულებები, ფოტოები, ცხრილები, რომლებიც დაგეხმარებათ ყველაზე რთული საკითხების გარკვევაში.

The screenshot displays the Osmosis High Yield Notes interface. At the top, there is a navigation bar with the Osmosis logo, a search bar, and various utility icons. Below the navigation bar, the main content area is titled 'Preclinical questions' and shows '0 / 5 complete'. A red box highlights the 'High Yield Notes' button. The main content area displays three pages of notes: 'FREE RADICALS & CELLULAR INJURY', 'ISCHEMIA', and 'INFLAMMATION'. Each page includes text, diagrams, and chemical reactions. The interface also features a search bar, a language selector (en), and a sidebar with various icons. A 'Print' button and '9 pages' indicator are visible on the right side of the content area.

FREE RADICALS & CELLULAR INJURY

ISCHEMIA

INFLAMMATION

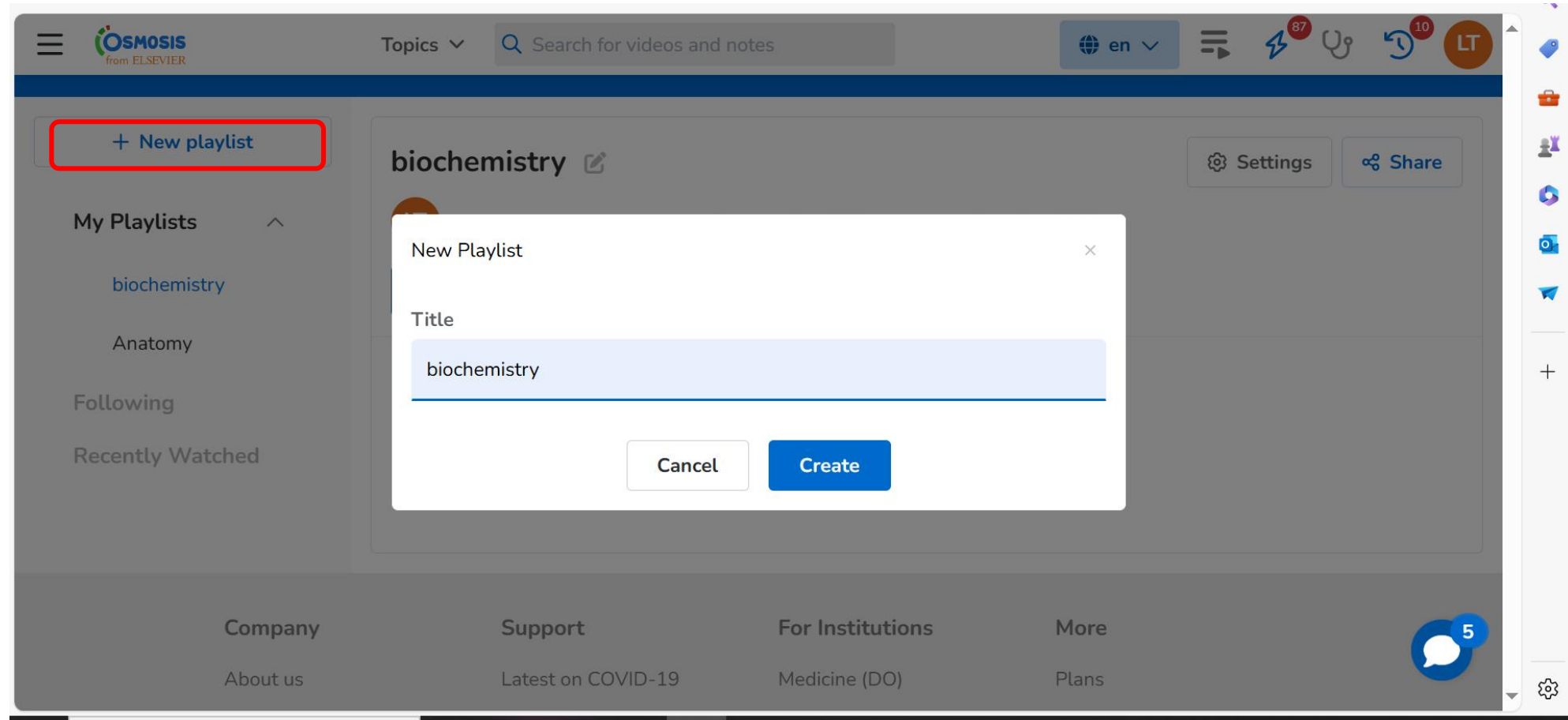
Playlists-ში შეგიძლიათ დაამატოთ, შეინახოთ და გააზიაროთ ვიდეოები.

The screenshot shows the Osmosis website interface. At the top, there is a navigation bar with the Osmosis logo, a search bar, and various utility icons. The main content area displays the video title 'Introduction to the lymphatic system' with a breadcrumb trail: 'Organ Systems > Immune system > Anatomy > Introduction'. Below the title, it says 'Also appears in' followed by a dropdown arrow. To the right of the title, there is an information icon, the view count '3,391 views', and a red-bordered box containing an 'Add to playlist' button and a share icon. A large red arrow points from the video player area up to the 'Add to playlist' button. The video player itself has a blue background with a central play button and text overlays: 'LYMPHATHIC SYSTEM', 'MAINTAINS FLUID LEVEL', and 'ABSORBS DIETARY FAT'. In the bottom right corner of the player, there is another 'Add to playlist' button, a clock icon, and a comment bubble with the number '5'.

Playlists სანახავად მენიუდან ჩამოშალეთ დილაკი. აირჩიეთ **watch later** ან შექმენით ახალი.

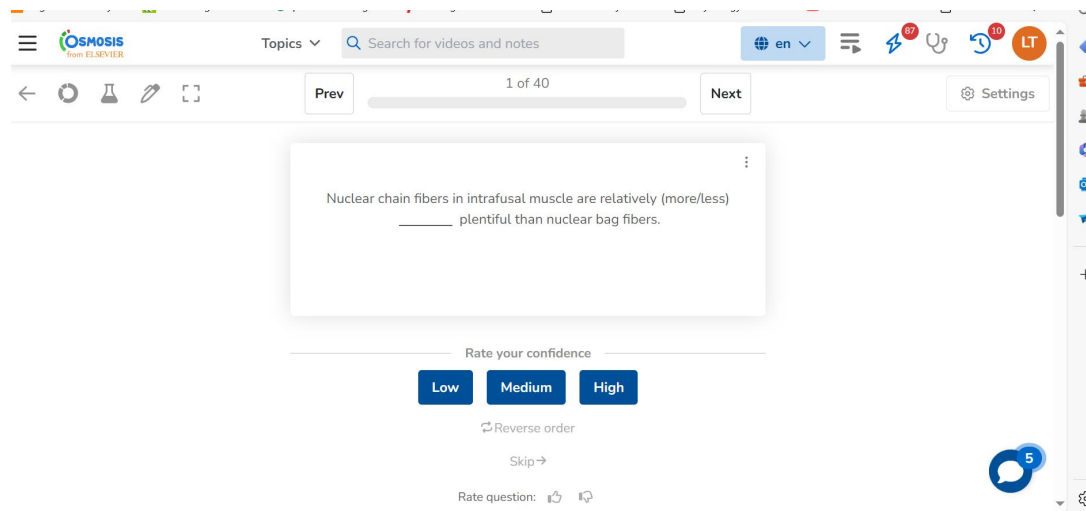
The screenshot displays the Osmosis website interface. At the top, there is a navigation bar with the Osmosis logo, a search bar, and various utility icons. A red arrow points to the 'Playlists' icon in the top right corner. Below this, a dropdown menu is open, showing options: 'Watch later', 'biochemistry' (with a 'Play all' button), and 'Anatomy' (with a 'Play all' button). The main content area features a 'biochemistry' playlist with a 'Library' icon, '1 topic', and a duration of '5:44'. Below the playlist name are buttons for 'Play all', 'Quiz all', and '+ Add'. A video player is visible at the bottom, showing a thumbnail for 'Amino acid metabolism' with a duration of '05:44'. On the left side, there is a sidebar with a 'Playlists' header and a list of 'My Playlists' including 'biochemistry' and 'Anatomy'. A red box highlights the 'My Playlists' section. At the bottom right, there is a chat icon with a '5' notification badge.

შეგიძლიათ შექმნათ იმდენი playlist რამდენიც დაგჭირდებათ.

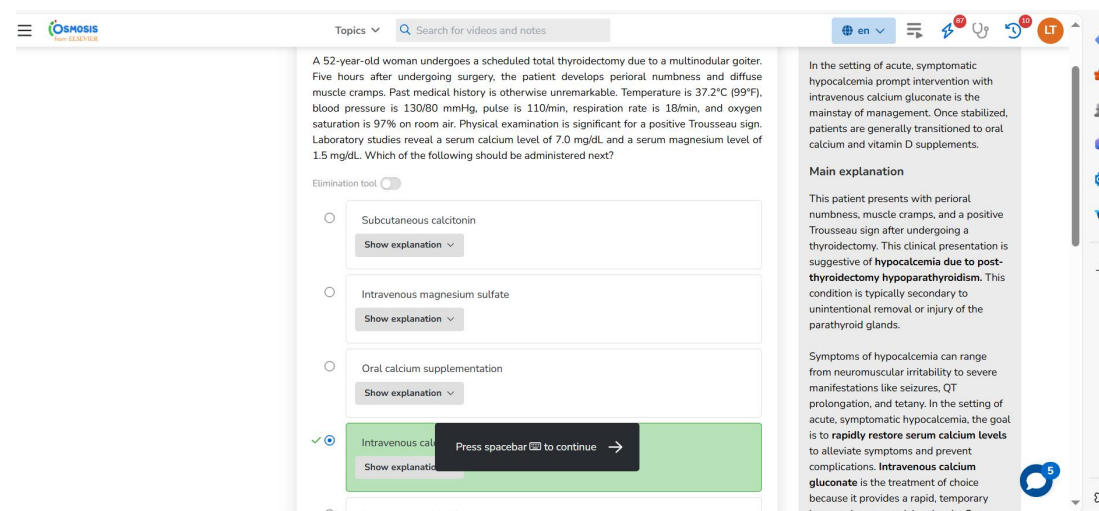


Flashcard vs Question

ფლექარდები არის მოკლე ლაკონური კითხვები, რომლებიც დაგეხმარებათ ცოდნის გადრმავებაში.



კითხვები აგებულია კლინიკურ შემთხვევებზე და აქვს სავარაუდო პასუხები თავისი განმარტებებით.



ფლუშბარათებით შეგიძლიათ ააგოთ ქვიზი თქვენთვის საინტერესო თემებზე.

The screenshot shows the Osmosis Flashcard Quiz Builder interface. At the top, there's a navigation bar with the Osmosis logo, a 'Topics' dropdown, and a language selector set to 'en'. Below this is a blue header with 'Flashcard Quiz Builder' and a lightning bolt icon. A sidebar on the right contains various icons for user profile, settings, and other features.

The main area is titled 'Flashcard Quiz Builder' and includes a 'Show progress' section with buttons for '#', '%', and a refresh icon, along with a 'Create flashcards' button. Below this is a 'Select topic' section with a 'Select All' checkbox and a list of topics with checkboxes and progress percentages:

Topic	Progress
<input checked="" type="checkbox"/> Biochemistry	2% >
<input type="checkbox"/> Biostatistics and Epidemiology	1%
<input type="checkbox"/> Cardiovascular	0%
<input type="checkbox"/> Cell Physiology	0%
<input type="checkbox"/> Dermatology	1%
<input type="checkbox"/> Embryology	0%
<input checked="" type="checkbox"/> Physiology	2% >
<input checked="" type="checkbox"/> Metabolism	2% >
<input checked="" type="checkbox"/> Carbohydrate metabolism	3%
<input checked="" type="checkbox"/> Fat and cholesterol metabolism	0%
<input checked="" type="checkbox"/> Protein metabolism	0%
<input checked="" type="checkbox"/> Nucleic acid metabolism	0% >
<input checked="" type="checkbox"/> Nucleotide metabolism	0%

Below the topics list, there's a button 'All of Biochemistry' with a close icon. At the bottom, a summary bar shows '158 Flashcards', '2 Answered flashcards • 156 New flashcards', a progress bar at '98% New', 'Max Quiz Size' set to '40', and a 'Build Quiz' button with a notification badge showing '5'.

შეგიძლიათ აირჩიოთ კითხვების სასურველი რაოდენობა ასევე ჩამოტვირთოთ, შეინახოთ ან პირდაპირ დაიწყოთ ტესტი.

The screenshot displays the Osmosis Flashcards interface. A central modal titled "Quiz summary" is open, showing a progress indicator for 40 flashcards and an estimated time of 8 minutes. The modal includes buttons for "Browse", "Save to queue", and "Start". The background interface shows a list of topics on the left, including Biochemistry (2%), Biostatistics and Epidemiology (1%), Cardiovascular (0%), Cell Physiology (0%), Dermatology (1%), and Embryology (0%). On the right, a "Show progress" section lists topics like Disease causality (0%), Selection bias (0%), Confounding (0%), and Interaction (12%). At the bottom, a "Max Quiz Size" dropdown is set to 40, and a "Build Quiz" button is visible.

Quiz summary

40 Flashcards

Estimated Time: 8 min.

More options

40 Flashcards

Browse Save to queue Start

136 Flashcards

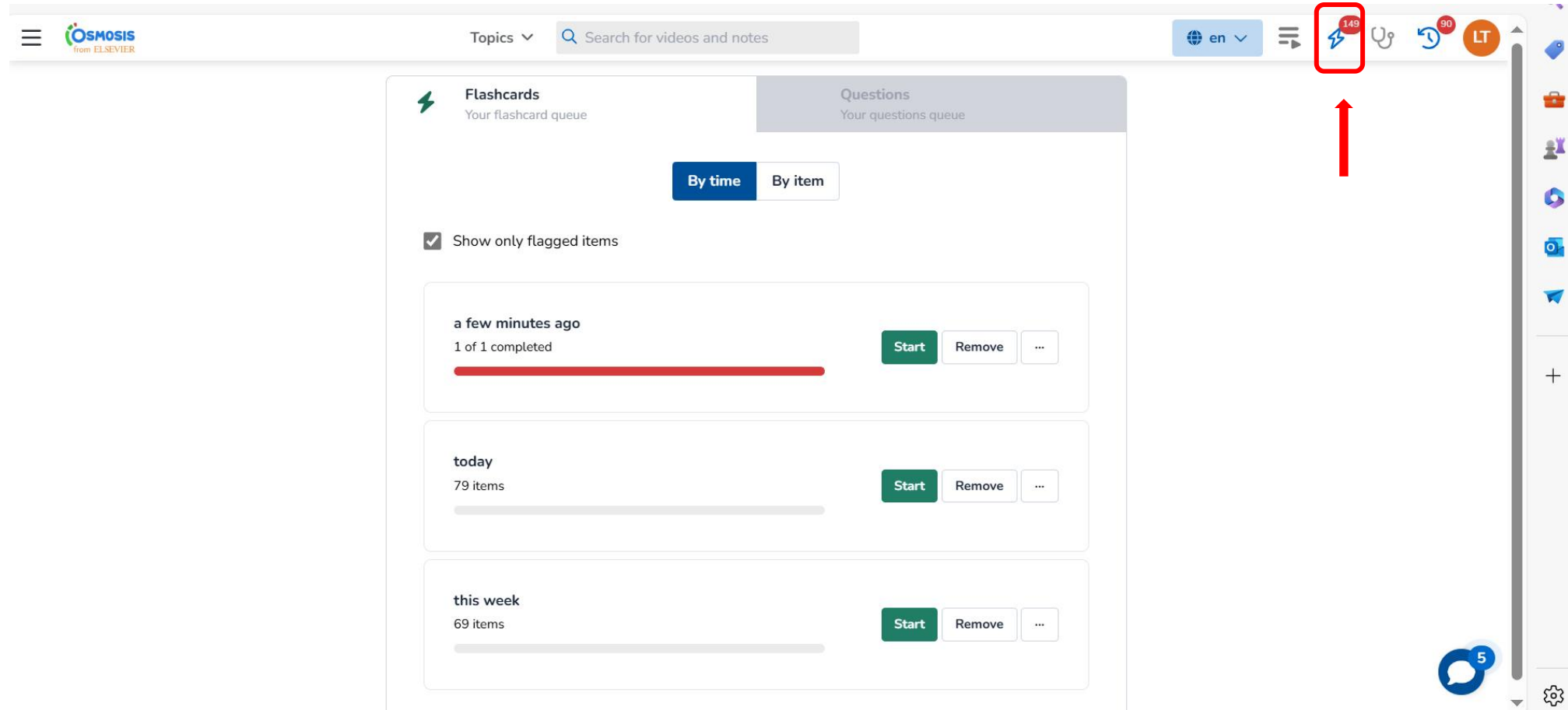
2 Answered flashcards • 134 New flashcards

98% New

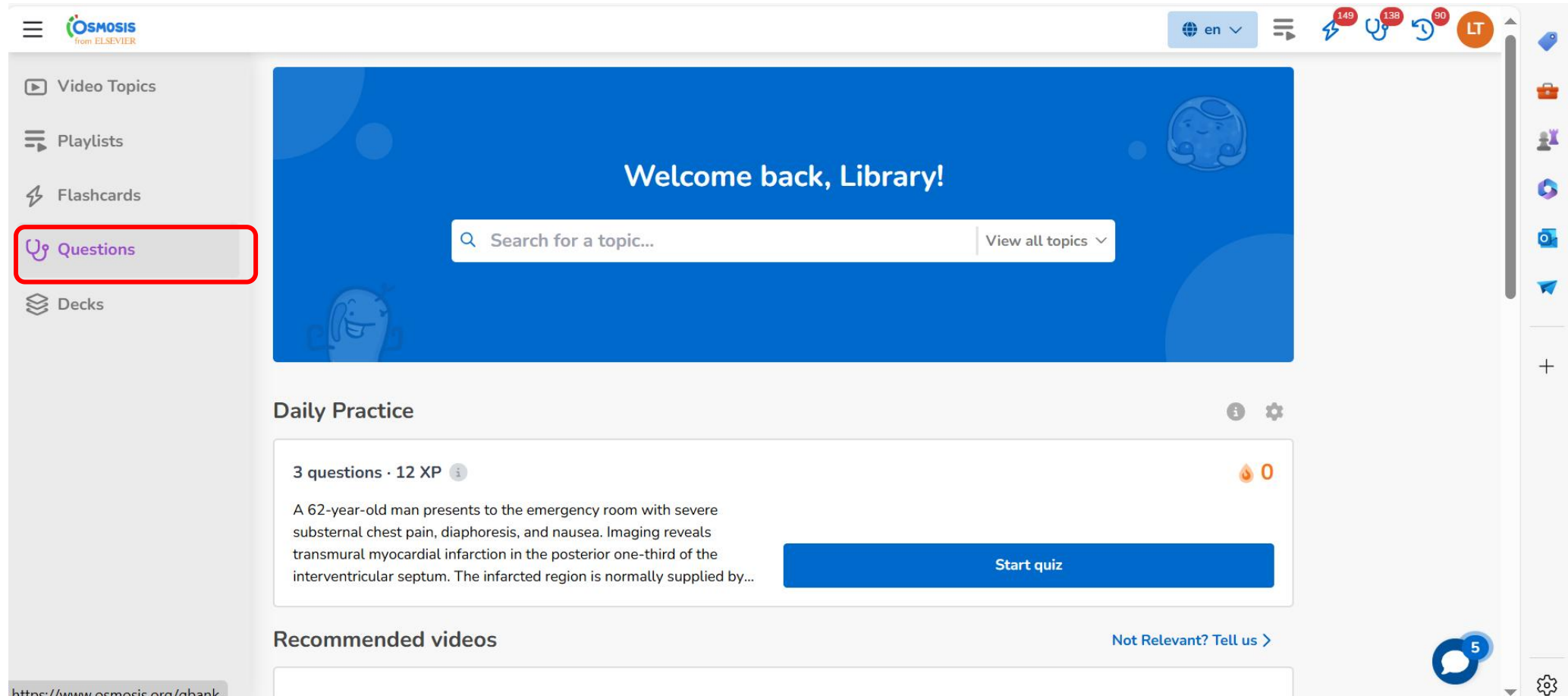
Max Quiz Size 40

Build Quiz

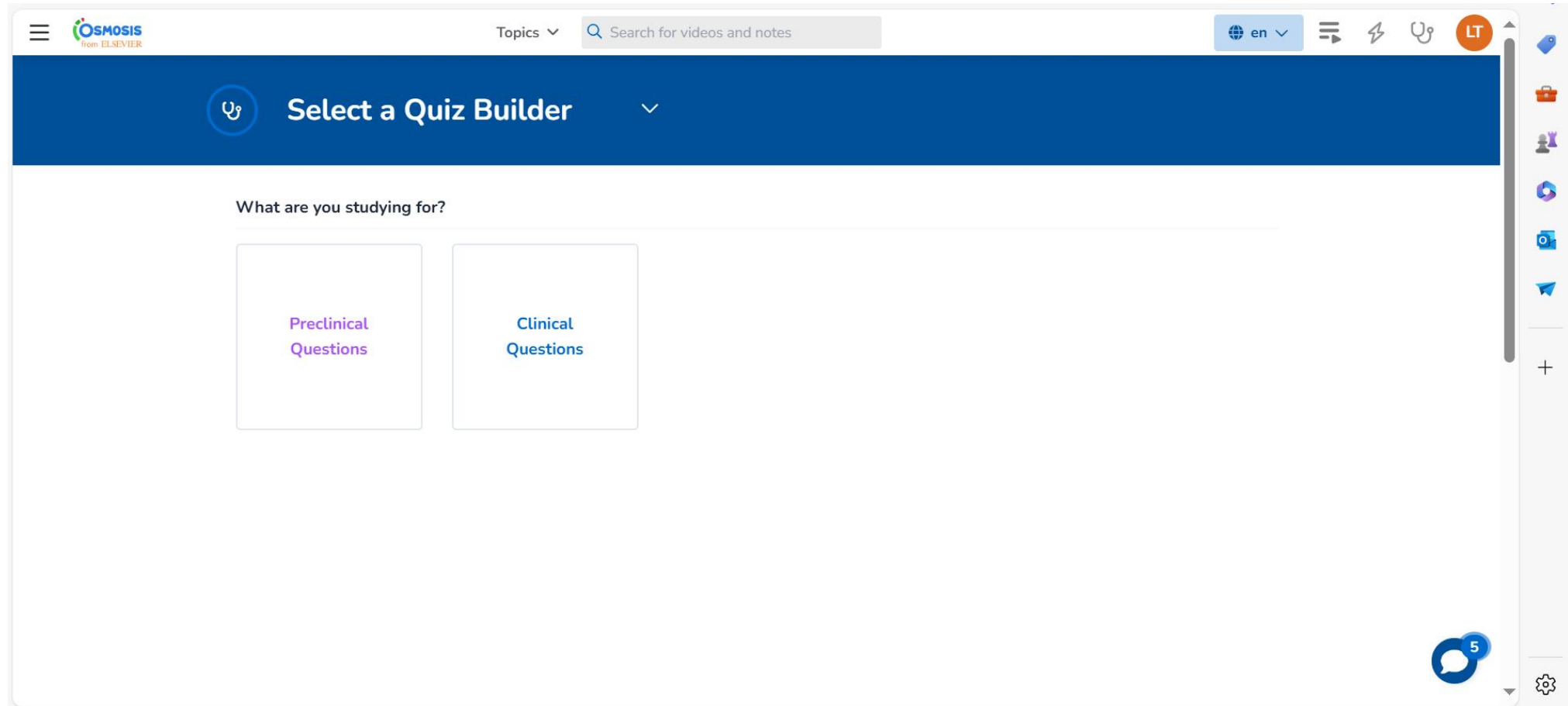
შენახული ფლეშბარათების ნახვა შესაძლებელია მარჯვენა ზედა კუთხეში მოთავსებულ დილაკზე დაწკაპებით.



მენიუდან აირჩიეთ **Question** დილაკი ტესტის დასაწყებად.



Question-ში წარმოდგენილია ორი განყოფილება პრეკლინიკური და კლინიკური კითხვებით.




ტესტის აგება შეგიძლიათ თემათისა და ორგანოთა სისტემების მიხედვით. ასევე შეგიძლიათ აირჩიოთ კითხვების რაოდენობა და ბოლოს შეინახოთ უკვე შედგენილი ტესტი ან მაშინვე დაიწყოთ მისი შესრულება.


The screenshot displays the Osmosis website interface. At the top, there is a navigation bar with the Osmosis logo, a search bar, and various utility icons. The main content area is titled 'Foundational Sciences' and contains a list of subjects under a 'Subjects' tab. The subjects listed are:


- Behavioral sciences/Psychiatry (152)
- Biostatistics and epidemiology (61)
- Genetics (55)
- Introduction to microbiology (11)
- Introduction to pharmacology (40)
- Biochemistry and nutrition (91)
- Cellular and molecular biology (61)
- Introduction to embryology (36)
- Introduction to pathology (26)


Below the subjects list, there is a section for 'Organ Systems'. At the bottom of the page, there is a quiz configuration bar. It shows '0 Questions available', a dropdown menu for 'Max quiz size' set to '75', a timer for '0 minute (Estimated time)', and buttons for 'Save to queue' and 'Begin quiz'. A red arrow points to the 'Begin quiz' button.





კითხვები ეფუძნება კლინიკურ შემთხვევებს. შესაძლებელია ნახოთ სწორი და არასწორი პასუხების განმარტებები.









Topics 



 Search for videos and notes

en 


 149  140  90 


    





 5 


A 5-month-old male infant is brought to a pediatrician for evaluation of failure to thrive. The patient was recently adopted and has never been evaluated by a physician as far as the new parents are aware. According to the parents, the infant cannot grab objects or roll from a prone to supine position. He has also experienced several episodes of generalized seizure activity. He is at the 10th percentile for length and 5th percentile for weight. Temperature is 37.0°C (98.6°F), blood pressure is 80/53 mmHg, and pulse is 92/min. Upon physical examination, the patient has a weak cry and diffuse hypotonia. Hepatomegaly is present with abdominal palpation. Genetic analysis reveals a mutation in the *PEX* gene. The organelle affected in this patient's condition is normally involved in which of the following cellular processes?

Elimination tool 

☐ Synthesis of ATP via oxidative phosphorylation


☐ Clearance of bronchopulmonary secretions via ciliary oscillations


☐ Synthesis of amino acid chains


☒ α -oxidation of branched-chain fatty acids


Peroxisomes are membrane-bound organelles that perform an array of functions including α -oxidation and β -oxidation of fatty acids, neutralization of free radicals, and breakdown of toxic substances like alcohol. Zellweger syndrome is a peroxisomal disorder which presents with hypotonia, seizures, hepatomegaly, and a mutation in the *PEX* gene.

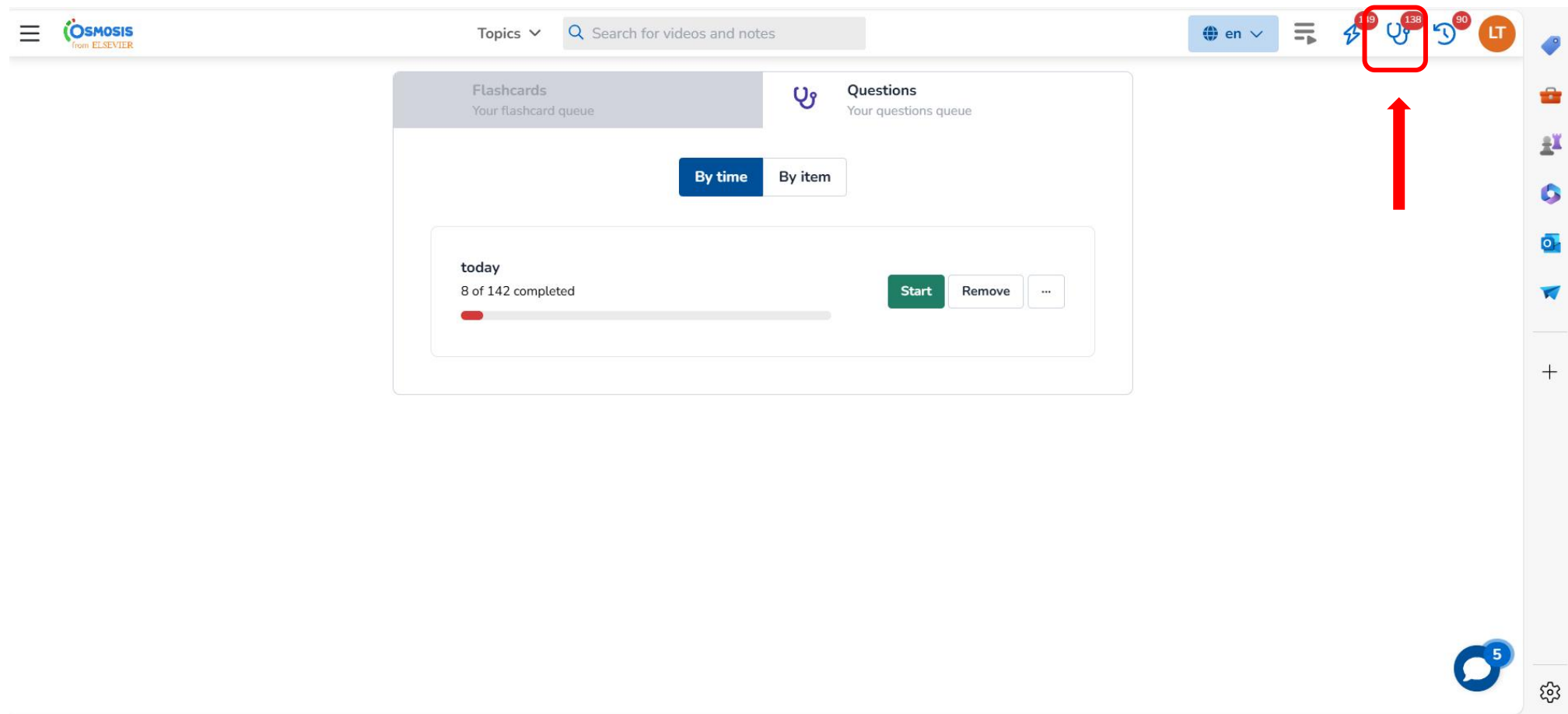
Main explanation

This young child presents with hypotonia, hepatomegaly, and a history of seizures. Genetic testing reveals a ***PEX* gene mutation**. Together, these findings are consistent with **Zellweger syndrome**—a disease that occurs secondary to peroxisomal defects.

Peroxisomes are membrane-bound organelles involved in several critical cellular processes, including:

1. Neutralization of **free radicals**, which in turn protects cellular components such as DNA, lipids, and proteins from oxidative damage.

შენახული კითხვების ნახვა შესაძლებელია მარჯვენა ზედა კუთხეში დილაკზე დაჭერით.



Daily repetition quiz-ში ინახება ისეთი ფლექსარათები რომლის სწორ პასუხში არ ხართ დარწმუნებული და მისი გამეორება გსურთ, თუ რამდენ ხანში უნდა გამეორდეს მითითებული კითხვა შეგიძლიათ წინასწარ მონიშნოთ.

The screenshot displays the Osmosis website interface. At the top, the Osmosis logo is visible. The main header area says "Welcome back, Library!" with a search bar and a "View all topics" link. Below this, the "Daily Practice" section shows "3 questions · 12 XP" and a clinical case description: "A 62-year-old man presents to the emergency room with severe substernal chest pain, diaphoresis, and nausea. Imaging reveals transmural myocardial infarction in the posterior one-third of the interventricular septum. The infarcted region is normally supplied by...". A "Start quiz" button is present. A dropdown menu is open, showing "Daily spaced repetition 90" and a "Daily repetition quiz" button. The menu lists frequency options: "1 day ago (80)", "1 week ago (10)", "2 weeks ago (0)", "1 month ago (0)", "2 months ago (0)", and "> 2 months ago (0)". It also shows "Source" options: "Osmosis" and "School". A red arrow points to the "Daily repetition quiz" button. The bottom of the page shows "Recommended videos" and a "Not Relevant? Tell us >" link.

OSMOSIS from ELSEVIER

en

149 138 90 LT

Daily spaced repetition 90

Daily repetition quiz

1 day ago (80)

1 week ago (10)

2 weeks ago (0)

1 month ago (0)

2 months ago (0)

> 2 months ago (0)

Source

Osmosis

School

Welcome back, Library!

Search for a topic...

View all topics

Daily Practice

3 questions · 12 XP

A 62-year-old man presents to the emergency room with severe substernal chest pain, diaphoresis, and nausea. Imaging reveals transmural myocardial infarction in the posterior one-third of the interventricular septum. The infarcted region is normally supplied by...

Start quiz

Recommended videos

Not Relevant? Tell us >

საკონტაქტო ინფორმაცია

ბიბლიოთეკარები:

- ლუბა ჰოდოსოვა
- მინადარ მულაძე

E-mail: Library@tma.edu.ge

მადლობა ყურადღებისთვის