

# Osmosis is the learning platform that brings faculty and students back together.

Built on a foundation of evidence-based learning science research, Osmosis's study tools and comprehensive materials help students:

- Stay organized
- Study more efficiently
- Retain information longer

With Osmosis, you can augment your curricular resources to **engage your students** in learning medicine. Improve learning outcomes with **educational tools that support flipped classrooms, increase collaboration, and promote adaptive, self-guided study.**

Start a conversation to learn how Osmosis can support your institution's goals: [theteam@tetondata.com](mailto:theteam@tetondata.com)

The screenshot displays the Osmosis interface with several components:

- Notes Panel (Left):**
  - AUTONOMIC NERVOUS SYSTEM**
    - Part of peripheral nervous system (PNS), regulates basic survival processes necessary to homeostasis.
    - Autonomic nervous system (ANS) effects:
      - Neural organs, glands, involuntary muscles
      - regulate heart rate, respiratory rate, digestion, urination, excretion, sexual arousal, etc.
    - Divided into two systems:
      - Sympathetic: fight/flight
      - Vagus: parasympathetic
    - Neurotransmitters: sympathetic (noradrenaline, adrenaline), parasympathetic (acetylcholine)
    - Target organs & tissues can be innervated by multiple preganglionic neurons
    - Postganglionic neurons:
      - Some are cholinergic (ACh)
      - Some are adrenergic (noradrenaline)
  - SYMPATHETIC NERVOUS SYSTEM**
    - ANS sympathetic division:
      - fight or flight
      - fight or flight response (e.g., fight or flight)
      - glands close to spinal cord → short preganglionic fibers, long postganglionic fibers
    - Preganglionic neurons:
      - located in the lateral horn of the spinal cord (T1-L2)
      - cholinergic → release ACh
    - Postganglionic neurons:
      - located close to spinal cord
      - paravertebral ganglia (cervical, thoracic, lumbar, sacral), autonomic ganglia
      - thoracic: superior, inferior mesenteric ganglia
      - lumbar: superior mesenteric ganglion
      - cholinergic → release ACh
- Diagram (Center):**
  - SPINOCEREBELLAR TRACT**
  - Labels: SUPERIOR CEREBELLAR PEDUNCLE, INFERIOR CEREBELLAR PEDUNCLE, DORSAL SPINO-CEREBELLAR TRACT, VENTRAL SPINO-CEREBELLAR TRACT, DORSAL ROOT GANGLION, 1<sup>ST</sup> ORDER NEURONS, SYNAPSE ON NEURONS IN CEREBELLAR CORTEX, IPSILATERAL CEREBELLAR CORTEX.
- Question Panel (Bottom):**

A 68-year-old man comes to the clinic because of tremor at rest, slowed movement, stooped posture, and a shuffling gait. These symptoms have been getting progressively worse over the past 18 months. Which of the following amino acids is the precursor for the neurotransmitter that is deficient in this patient?

Elimination tool:

  - A. Glucosamine
  - B. Glutamate
  - C. Glycine
  - D. Tryptophan
  - E. Tyrosine

- 1200+ Videos
- 15000+ Pre-made Flashcards
- 6800+ Board-style Practice Questions
- 2000+ High-Yield Notes

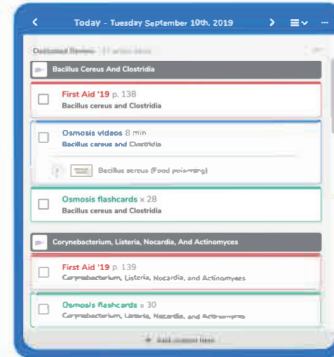
Start a conversation to learn how Osmosis can support your medical program's goals by contacting our partner TDS Health at 800-901-5494, [theteam@tetondata.com](mailto:theteam@tetondata.com) or [www.tetondata.com](http://www.tetondata.com).



## 3000+ Osteopathic Medical Topics:

### Including:

- Anatomy
- Biochemistry
- Biostatistics & Epidemiology
- Cardiology
- Cell Physiology
- Clinical Reasoning
- Dermatology
- Embryology
- Emergency Medicine
- Endocrine
- Gastrointestinal
- General Pharmacology
- Genetics
- Hematology & Oncology
- How to Learn in the Health Professions
- Immunology
- Metabolism
- Microbiology
- Musculoskeletal
- OB/GYN
- Neurology
- Pathology
- Pediatrics
- Physiology
- Psychiatry
- Renal
- Reproductive
- Respiratory
- Surgery



## Customizable Study Tools

The personalized Osmosis **Study Schedule** helps students know exactly what and when to study for class and board exams.

The Osmosis **Quiz Builder** allows students to create quizzes using both Osmosis flashcards and questions and their own materials.

Osmosis's built-in **Spaced Repetition** feature ensures that students review content exactly when they need to for deeper understanding and long-term memorization.



## Trusted by Institutions Across the Globe

Osmosis is relied on by medical and allied health institutions **around the world**, including osteopathic medical schools such as Touro University College of Osteopathic Medicine NY and Ohio University Heritage College of Osteopathic Medicine. In addition, Osmosis videos have been watched by more than **1.1 million current and future clinicians**, and the Osmosis learning platform is used by over **680,000 students (and growing each day)** worldwide.

“Osmosis teaches faculty how today’s health professional students learn to become tomorrow’s health professionals. If you want to remain relevant as an educator — and have fun growing while you do — then I strongly encourage you to engage fully with the teaching and learning power of the Osmosis platform.”

— Dr. Amin Azzam  
Clinical Professor at UC Berkeley, UCSF Joint Medical Program

Start a conversation to learn how Osmosis can support your medical program's goals by contacting our partner TDS Health at 800-901-5494, [theteam@tetondata.com](mailto:theteam@tetondata.com) or [www.tetondata.com](http://www.tetondata.com).

