



WonderStand **Ex**
Catalyst for Learning



Vision

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(M.B.B.S) Co-Founder,
Medimotion Education

Thousands of years ago if a young man/woman wanted knowledge, he/she would have to go to a guru and learn at his feet. In today's world if a student wants to learn anything new, all he/she has to do is a quick Google search. What does it really mean to teach such a student? He/She will not be content with just information thrown at them.

Generation X, the generation that sits in classrooms today, is smart, creative, talented and very easily distracted. They have the whole world at their fingertips, literally. How do we get them to listen and understand? How do we keep them engaged?

One day these young boys and girls are going to be the difference between life and death in somebody's life. They are going to write the future of healthcare in India.

When I was in the fourth or fifth standard, I hated science. I would mug up for exams and get by. One day as I was learning about air in the atmosphere, my uncle helped me study. He wasn't content to just read the textbook, he insisted that we perform the experiment ourselves. We gathered the equipment, performed a simple experiment, made a terrible mess, got yelled at by my mother but ever since that day I freaking love science.

I want to be that person for students today.

In MBBS, I did my share of cramming and mugging, but the subjects I loved - Physiology and Ob Gyn I never had to. Reading those textbooks was joy. The words flowed like a song on the paper. I also scored better in these subjects.

I want all your students to fall in love with learning using our animated videos. They will understand subjects easily and do better on tests.

I must acknowledge, our animated videos are not enough. As teachers actually interacting with students you can do a lot more to foster their interest and love for the subject. But I can guarantee that watching the videos will create that spark of wonder. Then it is upto you to ignite that spark further and together we can make them Wonderstand medicine!

Dr Manasi Bavkar

(M.B.B.S) Co-Founder, Medimation Education

Medimation Education Pvt Ltd was founded by Dr. Manasi Bavkar (MBBS, Bom) and Maithili Bavkar(BFA) in 2013. Till date, the company has supplied visual educational content to more than a hundred recognized medical institutions. Medimation Education is constantly evolving its ability to integrate technology in medical education.



Free Samples available at www.wonderstand.in

Experimental Pharmacology

- Experimental Techniques for Screening of New Drugs

Chapter 01 | To test Sedative agents - Using Rota Rod

Chapter 02 | To Differentiate between sedative agents and anti-psychotic drugs -
Using Cooke's climbing apparatus

Chapter 03 | Hypnotic Drugs - Using Righting Reflex

Chapter 04 | Analgesic Drugs - Using Hot Plate, Using Tail Flick Test and Writhing Test

Chapter 05 | Anti-Inflammatory Drugs - Using Carrageenan Rat Paw Edema Model

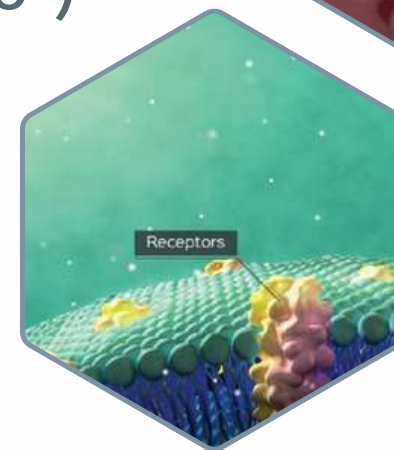
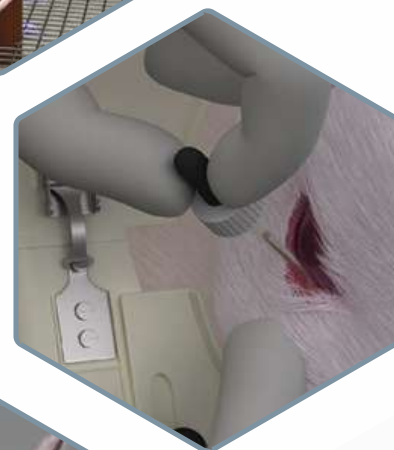
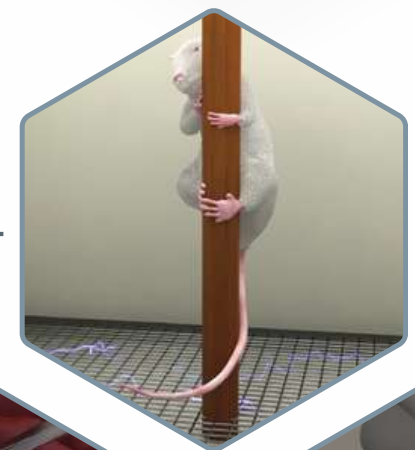
Chapter 06 | Local Anesthetics - Rabbit Corneal Reflex, Guinea pig-
Infiltration anesthesia, Frog withdrawal reflex

- Pharmacodynamics - Testing of Effect of Drug (In Vitro)

Chapter 07 | Dose Response Curve - Using Guinea Pig ileum

Chapter 08 | Competitive Drug Antagonism-Using Guinea Pig Ileum

Chapter 09 | Physiological antagonism - Using Guinea Pig Trachea



Experimental Pharmacology

- Pharmacodynamics - Testing of Effect of Drug (In Vivo)

Chapter 10 | Effect of Drugs on Blood Pressure - Dog Blood Pressure

Chapter 11 | Potentiation- Effect of Acetylcholine + Neostigmine on Dog BP

Chapter 12 | Tachyphylaxis - Effect of tyramine on Dog BP

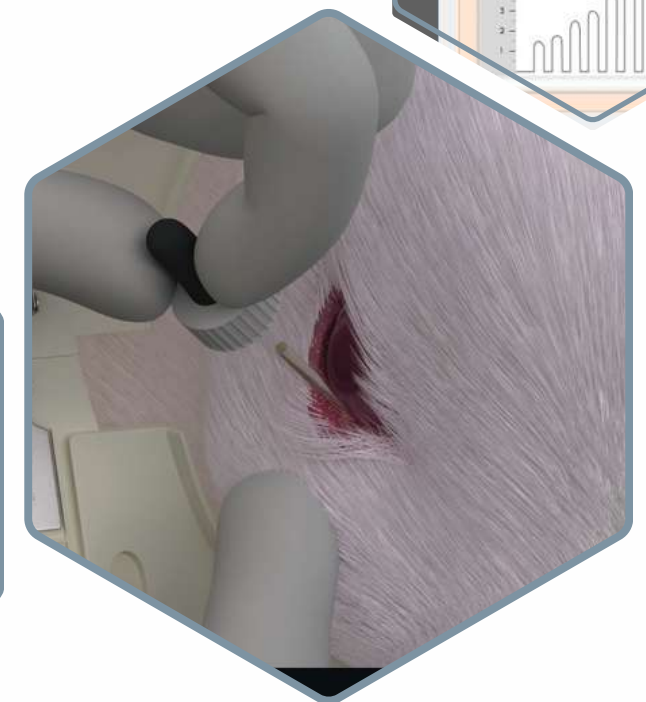
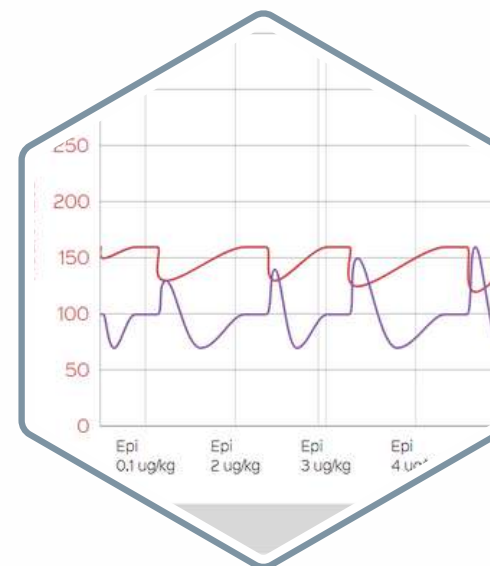
Chapter 13 | Nicotinic Action of Acetylcholine on Dog BP

Chapter 14 | Dales Vasomotor reversal - Effect of Adrenaline and Noradrenaline on Dog BP

Chapter 15 | Effect of Miotics and Mydriatics on Rabbit Eye

Interactive Assessment Modules

- Effect of Drugs on Rabbit Eye
- Effect of Drugs on Dog Blood Pressure
- Bioassay of Histamine using Guinea Pig Ileum



Experimental Physiology

Chapter 01 | Instruments

Chapter 02 | Dissection to obtain Nerve muscle preparation

Chapter 03 | Reactivity of Tissues + Simple Muscle Twitch + Effect of temperature on muscle contraction

Chapter 04 | Effect of increasing strength of stimulus + Effect of two stimuli on muscle twitch

Chapter 05 | Genesis of Tetanus + Genesis of Fatigue

Chapter 06 | Effect of Load on Muscle Contraction + Isometric Contraction

Chapter 07 | Conduction Velocity of Nerves

Chapter 08 | Normal Cardiogram of Frog + Effect of Temperature on Frog's heart

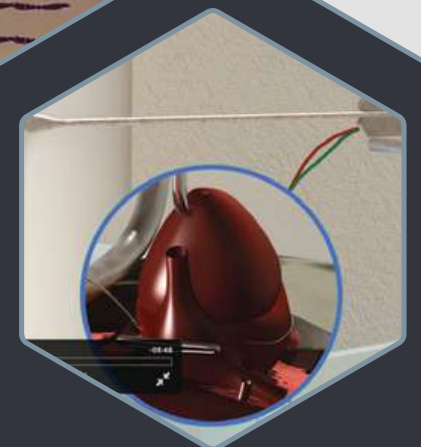
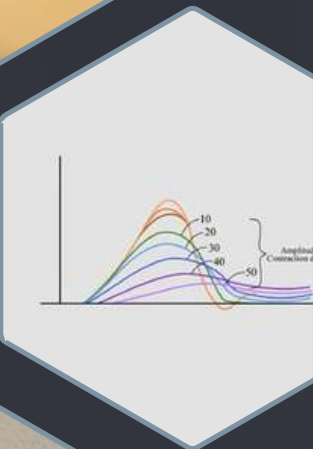
Chapter 09 | Effects of Stannius Ligatures on Frog's Heart

Chapter 10 | Properties of the heart muscle

Chapter 11 | Effect of Vasosympathetic Stimulation on Frog's heart

Chapter 12 | Effect of Nicotine and atropine on Frog's heart

Chapter 13 | Effect of Ion's on Perfused Frog's heart



Physiology Theory

● 1. Introduction to Physiology

Chapter 01 | Cell and Cell Organelles

Chapter 02 | Genetics

● 2. Membrane Physiology

Chapter 01 | Transport of substances through cell membrane

Chapter 02 | Nerve Action potential

Chapter 03 | Muscle Contraction

Chapter 04 | Excitation Contraction Coupling

● 3. Circulatory System

Chapter 01 | Introduction to the Circulatory System

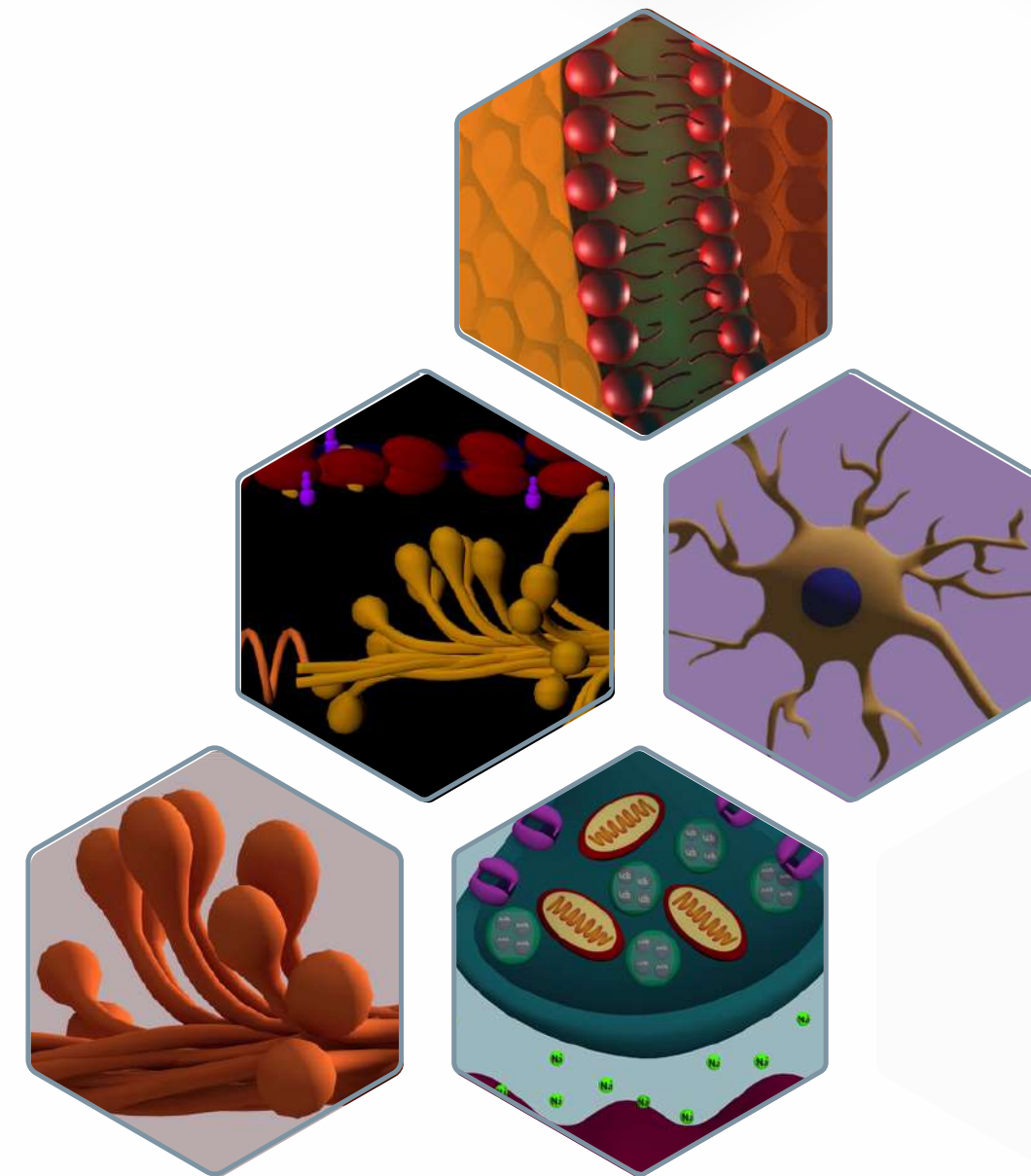
Chapter 02 | Microcirculation

Chapter 03 | Regulation of Blood flow

Chapter 04 | Nervous Regulation Of Circulation

Chapter 05 | Renin Angiotensin Aldosterone System

Chapter 06 | Coronary Circulation



Physiology Theory

● 4. The Heart

Chapter 01 | Introduction to heart and Cardiac cycle

Chapter 02 | The Conducting System of Heart

● 5. Hematology

Chapter 01 | Erythrocytes

Chapter 02 | Leukocytes

Chapter 03 | Blood Typing and Organ Transplantation

Chapter 04 | Blood Coagulation

● 6. Respiratory System

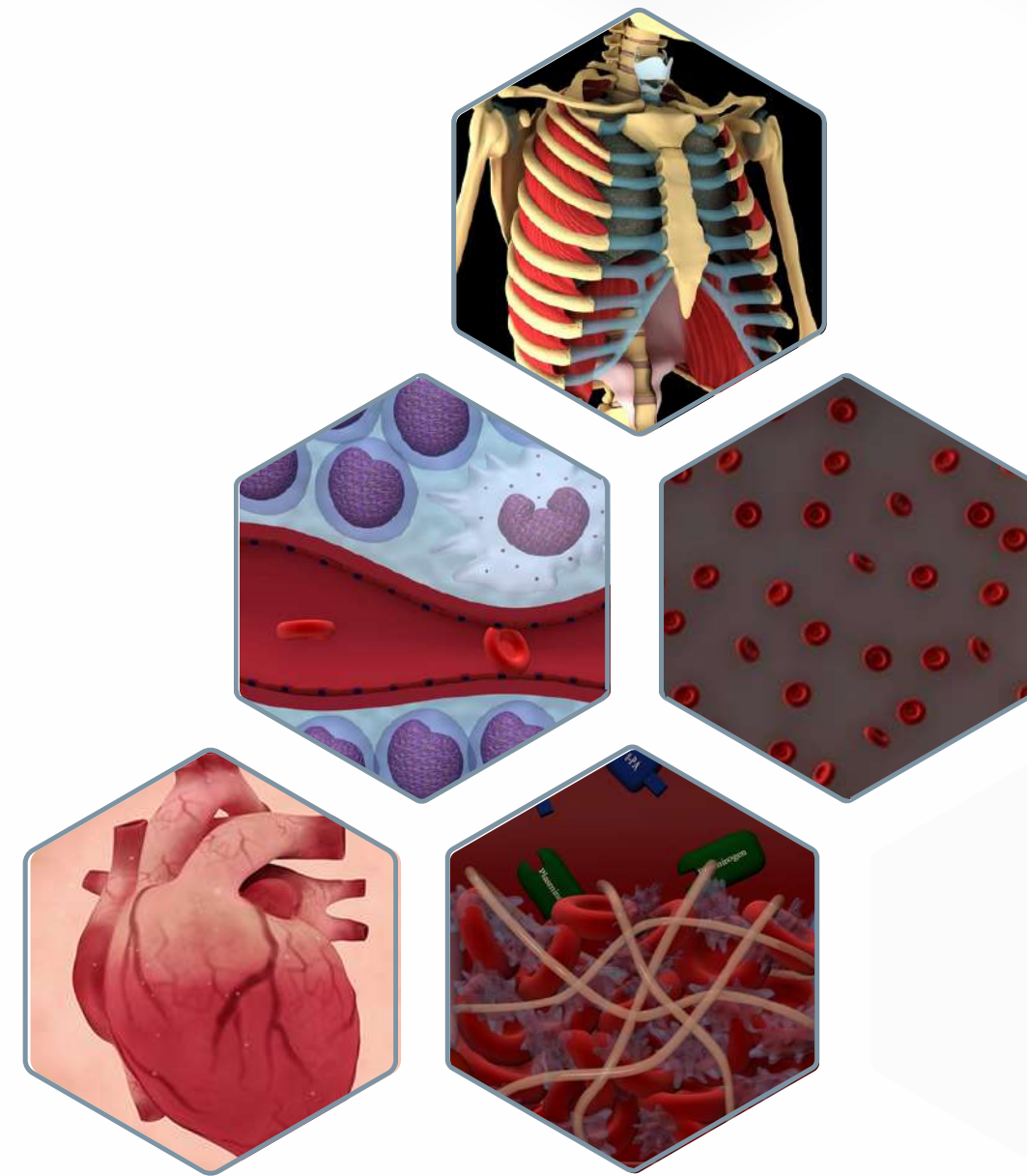
Chapter 01 | Pulmonary Ventilation

Chapter 02 | Pulmonary Circulation

Chapter 03 | Gaseous Exchange in Lungs

Chapter 04 | Transport of Oxygen and Carbon Dioxide in Blood

Chapter 05 | Regulation of Respiration



Physiology Theory

- 7. ECG

- 8. Kidney

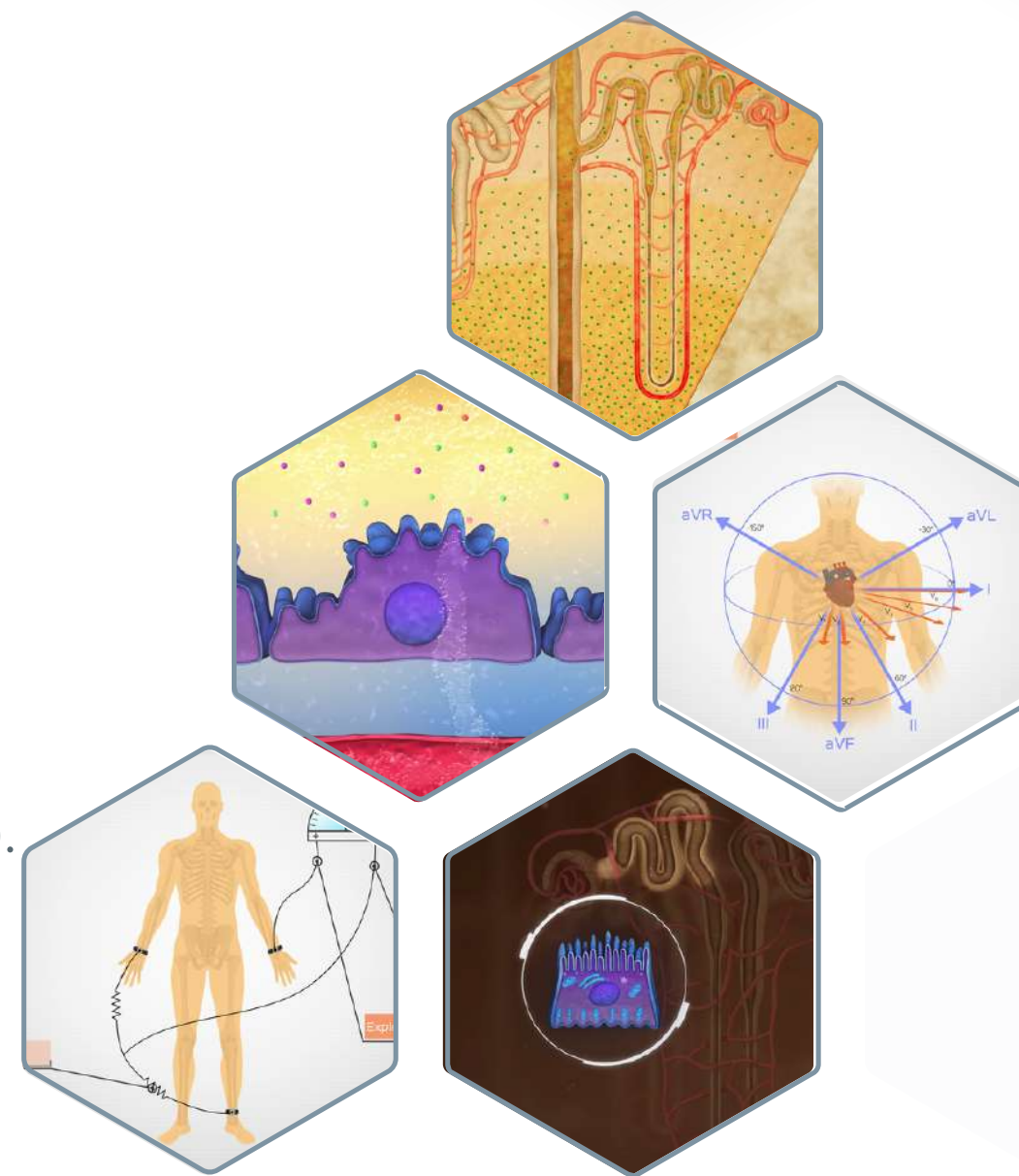
Chapter 01 | Glomerular Filtration and Renal Blood Flow

Chapter 02 | Tubular Processing of Glomerular Filtrate

Chapter 03 | Regulation of Extracellular fluid by kidneys

Product features

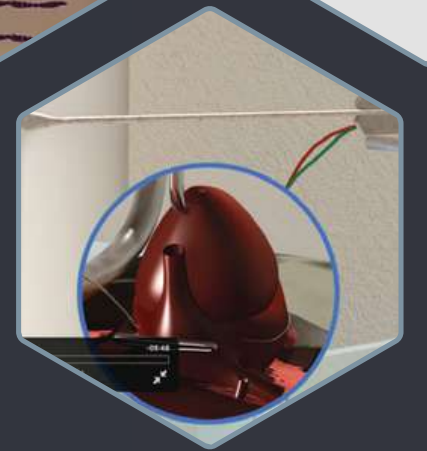
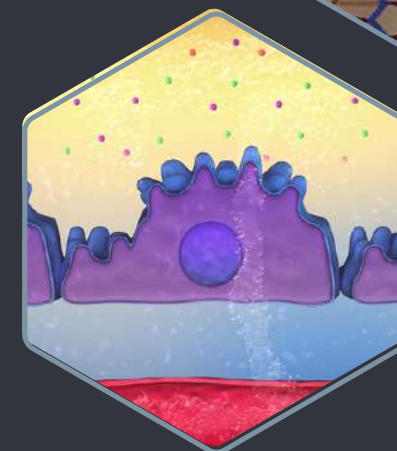
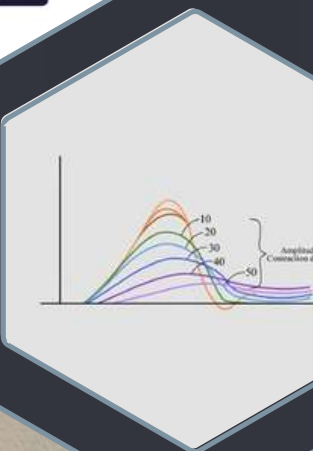
- 8 theory modules that cover key topics in Physiology.
- Theoretical concepts explained in depth.
- Makes learning more engaging and effective
- Helps to retain information for a longer period.
- Neutralizes the language barrier (for vernacular medium students).



MediQ - Assessment Module

- For Formative Exams proposed by NMC
- To verify if students have understood the subject matter.
- Assessment of the students can be conducted at various levels like chapter level, module level.
- Records of all assessments can be kept by the administration for future reference.

Available as an addition to all our products!





Comments from faculties at medical colleges using WonderStand Ex

"Reliable method to explain to students"

Dean, Maharashtra

**"Our students are able to grasp critical concepts through the animated videos in an engaging fashion.
It generates interest and enthusiasm for the subject in Students"**

Head of Department of Physiology, Maharashtra

"The best part is that, it is exactly what I teach. The videos are liked by students also"

Head of Department of Physiology, Rajasthan

"Demos are simple, well explained and complete"

Head of Department of Physiology, Karnataka

**"In this era of visual aids, scientific research & education rely upon videos, images and animations.
Videos are valuable tools to show students live experiments in Pharmacology. WonderStand has done
a great job by providing these videos."**

Head of Department of Pharmacology, Gujarat

WE'RE GETTING NOTICED!



GRANT AWARD



HEALTHCARE CATEGORY



For more information visit
www.etpowerofideas.com | www.neas.gov.in

Free Samples available at www.wonderstand.in



Wonderstand Edge

- **Reduce** | Equipment Maintenance Costs
- **One-Time** | Cost Effective Purchase Model
- **Runs Offline** | No Internet / High System Requirements Needed
- **High Quality** | Photorealistic Computer Generated Graphics
- **Accurate and Verified** | Experimental Procedures
- **Ideal** | For all Medical Institutes Offering Experimental Physiology/Pharmacology

Our Clients Include

Medical/Pharmacy/Homeopathy/Physiotherapy Colleges In India, such as

- A.F.M.C., Pune
- A.I.I.M.S., Bhopal, Nagpur, Patna, Raipur
- G.S. Medical (KEM), Mumbai
- L.T.M.M.C, Sion, Mumbai
- Bangalore Medical College, Bangalore
- B. J Medical College, Ahmedabad
- S.I.A., College of Health Science, Dombivili
- Dr. Rajendra Prasad GMC, Tanda
- Jorhat Medical College, Jorhat
- Grant Government Medical College, Mumbai
- Institute of Chemical Technology, Mumbai

+ More than 100 others!



System Requirements

No special requirements, will run on most basic stand alone PCs / laptops

Internet Requirement | No Internet / LAN connection required

Processor | Any Processor (i3 or more recommended)

RAM | 4GB and above is recommended

OS Support | Windows XP onwards (Recommended Windows 7, 8, 10) Player | VLC (Preferred) /

Windows Media Player / Quicktime

Please note- The system will not run on SBC (Server Based Computing) or SBC Thin Clients.

Device Info

Device | Password Protected Pen Drive / Virtual Disc - Hard Drive

Video | Installation 1920 x 1080

Resolution | WMV / MP4

Format

Free Samples available at www.wonderstand.in

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