



## A study of anatomy and physiology of movement upper limb

The procedure of using the upper limb to drink water is a complex one which involves a huge amount of technology inter-transfer between the brain and the eventual skeletal muscle. There is initiation of the movement at the brain which is transmitted via specialized white fibre tracts to the hip flexors via the intermediate spinal cord, involving a very complex mechanism at the cellular level.

The initiation of the process is at the motor cortex (M1) of the brain. The primary motor area is located at the precentral gyrus of the frontal lobe. The area controlling the motion of the lower limbs lies towards the superior surface of the brain. Within this area lies the cell body of the primary neuron. These neurons are known as upper motor neurons (UMN).

These UMNs receive modulating impulse from the inputs from the cerebellum and the basal ganglia via the extrapyramidal pathways. These tracts modulate the gross movement initiated at the frontal cortex. In turn these areas are modulated by afferent signals from ascending spino cerebellar, and spino-thalamic pathways.

The complex the signal initiated at the nucleus of the cell body is transmitted electronically via the axon of the myelinated neuron via the mode of salutatory conduction. The myelin sheath which surrounds the axon of nerves that involve fast transport, breaks at intermediate regions known as Nodes of Ranvier.

The electrical impulse moves in a jumping manner at these nodes nerve transmission as a neural impulse, generated by the formation of a nerve action potential. Like all excitable tissue, nerves maintain a resting membrane potential that is the difference of voltage across the membrane of the neuron. In neurons this value is - 70 mV.

This voltage difference is maintained by the Na/K pump on the membranes. This impulse generated at the axon hillock is transmitted via the depolarizing phase which allows sodium ions ingress into cells via opening of the Na channels. This entry of Na in one portion allows activation of other Na channels, causing depolarization of the adjacent region of the neuron. Subsequently repolarization occurs via the opening of K channels, which restores the membrane potential. Thus this process continues which allows the transmission of impulse.

Many such nerves together descend as the descending cortico spinal tract in the pyramidal system, which travels through the midbrain into the spinal cord, decussating at the level of midbrain( 90% of the fibres decussating and forming the lateral spinothalamic tract) and again at the level of spinal cord ( the other 10%, forming the anterior spinothalamic tract). It is the former which is responsible for the upper limb movements.

The cortico-spinal tract travels in the anterior horn cell of the spinal cord till the lumbar level where they synapse with the spinal ventral root neuron (lower motor neuron). A single post-synaptic neuron receives signal

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## **Question Essay Upper Limb Anatomy:**

**Competency Based Questions and Answers in Anatomy** Mr. Rohit Manglik, 2024-07-24 A question bank featuring competency based questions with detailed answers to aid students in mastering human anatomy as per CBME guidelines

**Anatomy of the Upper and Lower Limbs** Andrew Zbar, 2025-09-15 This book offers an easy to follow technique to better appreciate the regional anatomy and provides a concise accessible and well illustrated pocket book It is aimed principally at undergraduate and postgraduate students of anatomy in a wide range of fields that includes medicine and the paramedical specialties such as physiotherapy occupational therapy orthotists biological sciences dentistry and paramedics as well as postgraduate training surgeons in all specialties radiologists and interventional ER doctors This volume focuses on the anatomical homology between the upper and lower limbs in an attempt to create an easier learning process Given similarities and differences in the development of the limbs lessons can be learned about how to structure the muscular and neurovascular anatomy of the different compartments The book offers a contextualized and grounded teaching which explains why the anatomy learned matters and which helps to incorporate relevant developmental and comparative anatomy that is placed in an historical context This book changes the way anatomy is taught using a short practical guide to cover specific body regions

**Examination Questions and Answers in Basic Anatomy and Physiology** Martin Caon, 2020-08-03 This third edition provides 2900 multiple choice questions on human anatomy and physiology and some biophysical science separated into 20 chapters and 68 categories In addition there are 64 essay topics The answer to each question is accompanied by an explanation Each chapter has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The textbook offers a more holistic approach to the subjects of anatomy and physiology by also including biomechanics biophysics and biochemistry The questions have been used in end of semester examinations for undergraduate anatomy and physiology courses and as such reflect the focus of these particular courses and are pitched at this level to challenge students that are beginning their training in anatomy and physiology The question and answer combinations are intended for use by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition and dietetics health sciences exercise science and students taking an anatomy and physiology course as an elective

**Inderbir Singh's Textbook of Anatomy** V Subhadra Devi, 2019-06-29

**All in One - First MBBS Notes** Dr. Priyanka Gupta Manglik, 2024-08-15 A practical guide for students and professionals on clinical laboratory procedures diagnostic tests and safety protocols used in modern pathology and diagnostic labs

*Oxford Handbook for Medical School* Kapil Sugand, Miriam Berry, Imran Yusuf, Aisha Janjua, Chris Bird, David Metcalfe, Harveer Dev, Sri Thrumurthy, 2019-05-14 Medical school is full of unfamiliar and often frightening

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**Anatomy and Physiology for Health Professionals** Jahangir Moini,2015-01-21 Preceded by Anatomy and physiology for health professionals Jahangir Moini c2012 [Review Questions for Human Anatomy](#) P.W. Tank,1996-10-15 This is a review text of 1 000 questions and answers for medical students studying for Parts 1 and 2 of the National Board Examinations The questions are presented regionally by subject matter as in a standard course on gross anatomy selected to cover a broad spectrum of anatomical structure function and concepts and are in the two examination formats used in gross anatomy courses and for Licensure Examinations The book includes two separate fully cumulative practice tests in addition to the regional question and answer sections

*State Board Questions and Answers for Nurses* John Ambrose Foote,Eula B. Butzerin,1917 **Biomedical Visualisation** Ourania Varsou,Paul M. Rea,Michelle Welsh,2022-12-16 This book focuses on the challenges to biomedical education posed by the lockdowns and restrictions to on campus teaching brought about by the COVID 19 pandemic and highlights the tools and digital visualization technologies that have been successfully developed and used for remote teaching Biomedical education for science medical dental and allied health professionals relies on teaching visual and tactile knowledge using practice based approaches This has been delivered for decades via on campus lectures workshops and laboratories teaching practical skills as well as fundamental knowledge and understanding However the arrival of the COVID 19 pandemic meant that education across the globe had to pivot very quickly to be able to deliver these skills and knowledge in a predominantly online environment This brought with it many challenges as Higher Education staff had to adapt to deliver these visual subjects remotely This book addresses the challenges and solutions faced by Higher Education staff in teaching visual content in distance education Chapters include literature reviews original research and pedagogical reflections for a wide range of biomedical subjects degrees such as medicine dentistry and veterinary sciences with examples from undergraduate and postgraduate settings The goal of the book is to provide a compendium of expertise based on evidence gathered during the COVID 19 pandemic as well as reflections on the challenges and lessons learned from this dramatic shift in teaching It also presents new examples of best practices that have emerged from this experience to

ensure that they are not lost as we return to on campus learning in a new era of biomedical teaching This book will be of interest to anyone looking for a helpful reference point when designing online or blended teaching for visual practice based subjects

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