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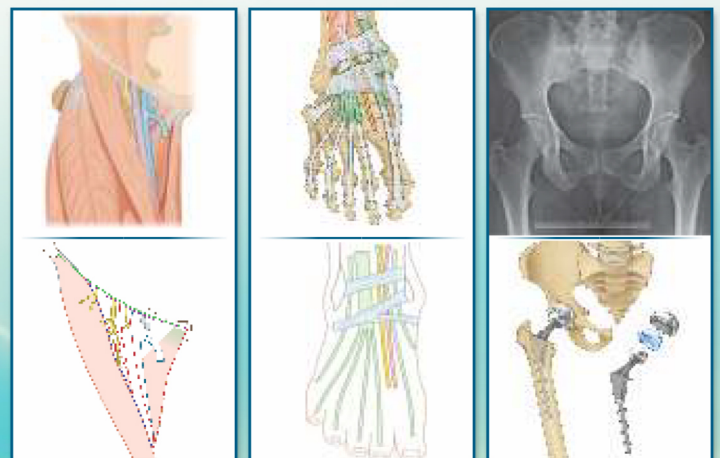
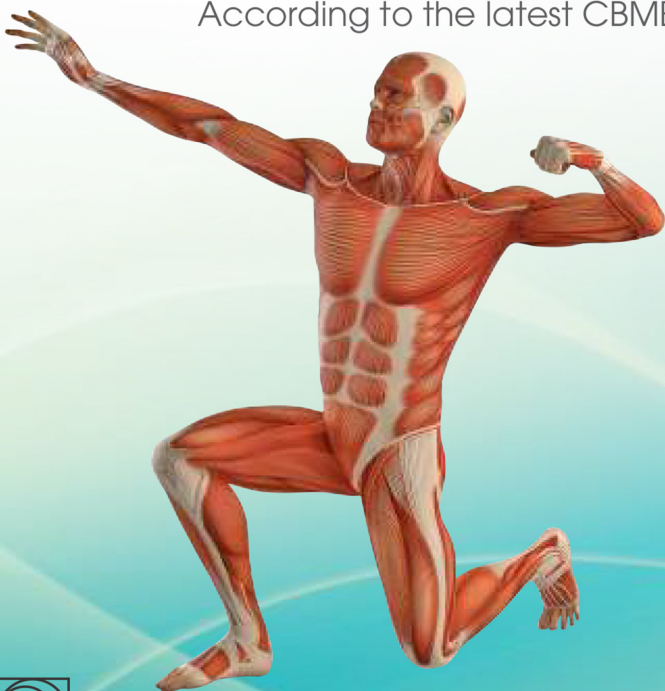
Textbook of Human Anatomy

Volume
3

with **COLOR** ATLAS and Clinical Integration

Lower Limb

According to the latest CBME Guidelines | Competency based Undergraduate Curriculum for the Indian Medical Graduate



Yogesh Sontakke



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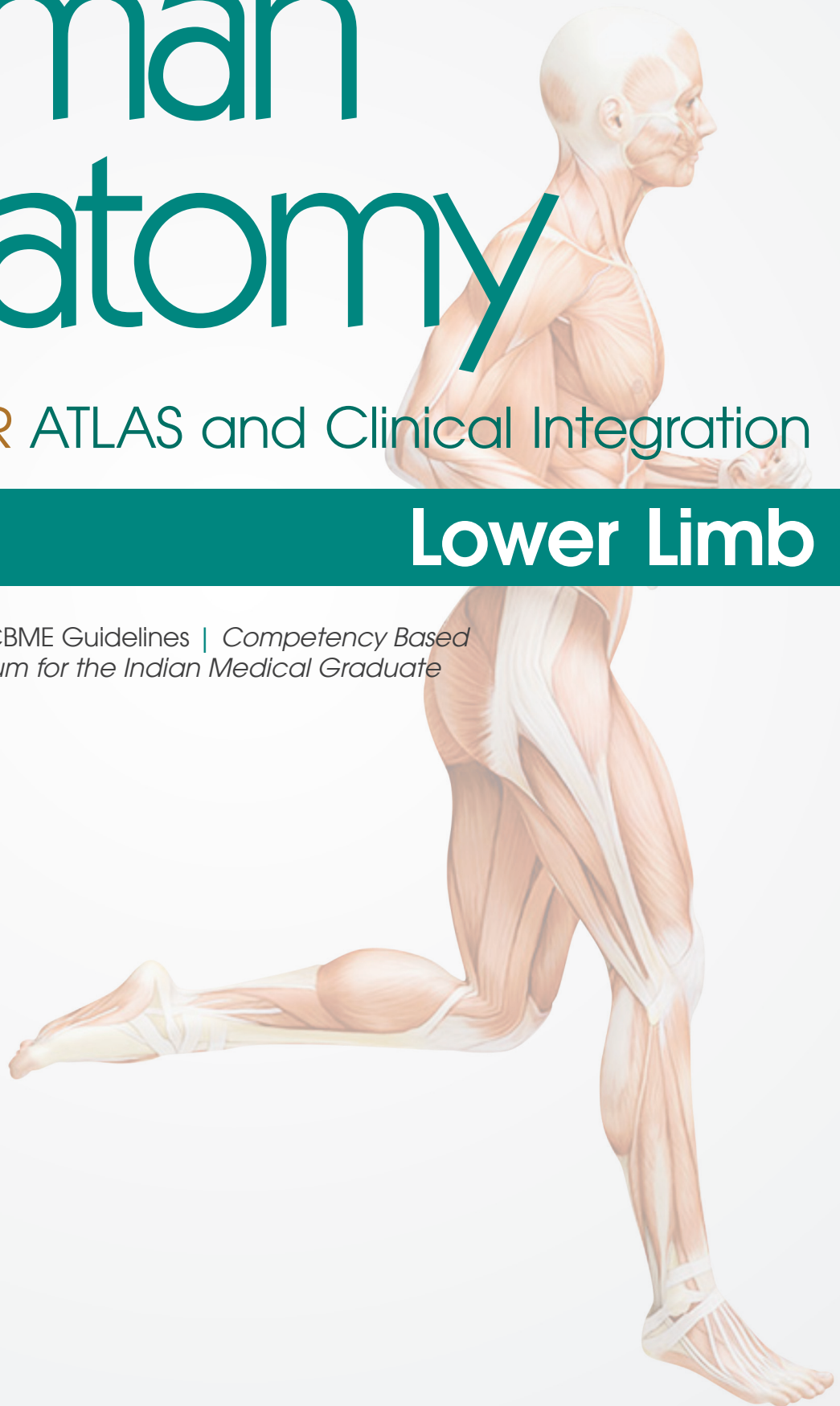
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Volume 1: Upper Limb

Volume 2: Thorax

Volume 3: Lower Limb

Volume 4: Abdomen and Pelvis

Volume 5: Head, Neck and Face

Volume 6: Brain

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Volume 3

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The *Textbook of Human Anatomy* is written to solve the common difficulties faced by the students about learning and acquiring the knowledge of anatomy. In the available time, it is difficult for the students to read multiple books, atlases, examination preparatory manuals and journals, and revise the subject.

This textbook is supported with atlas-like illustrations that will facilitate understanding of the anatomical structures, simple line diagrams that are easy to draw and reproduce in the examinations. The textbook is prepared in such a way that the student goes through each topic four times in a single reading: 1. Text → 2. Color illustrations → 3. Simple line diagrams → 4. Flowcharts. It will help to memorize the topic easily. Fast revisions can be planned with flowcharts. The questions and markings in the text will assist the student for examination preparation.

Clinical integration is the need of the time. In this book, knowledge is clinically integrated using simple diagrams that will help to create pictorial memory. Changes in terminologies are incorporated as per the recent suggestions of *Federative Committee on Anatomical Terminology* and *International Federation of Associations of Anatomists*.

The book is divided into six volumes for the convenience of handling as follows: Volume 1: Upper Limb, Volume 2: Thorax, Volume 3: Lower Limb, Volume 4: Abdomen and Pelvis, Volume 5: Head, Neck and Face, and Volume 6: Brain.

The content of *Textbook of Human Anatomy* adequately meets the requirements of the latest *Competency Based Undergraduate Curriculum for the Indian Medical Graduate*.¹ The topics are divided into small chapters to generate the confidence in the learner and follows the Miller's pyramid.² It helps to train the students to achieve the required levels of the given competencies: Knows (K), knows how (KH), and shows how, with the help of included domains of learning, knowledge (K) and skills (S). To fulfil the need for curriculum, requirements of the students and the field of medicine, this textbook characterises the following features:

- A complete **text** on the subject for undergraduate medical students.
- **Concise text** with functional correlation for quick recapitulation during examination (horizontal integration).
- **Color atlas illustrations** provide easy imagining of anatomical structures.
- **Line diagrams** are easy to draw figures for theory examination.
- **Clinical integration** provides early clinical exposure and an orientation towards the pathogenesis of the disease (vertical integration).
- **Flowcharts** help to revise and memorize the text and to overcome the difficulty of summarising the facts in theory examinations and consolidation of knowledge.
- **NEXT, MCQ, Viva Voce, Spotters** and **Clinical fact** markings for preparation of various upcoming academic, qualifying or entrance examinations.
- **Boxes** provide focus on important topics.
- **Interesting facts** isolate them from the main text so that these facts should not be missed and ease the burden.

Any suggestions from the readers for rectification and improvement are welcome.

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¹Medical Council of India, Competency Based Undergraduate Curriculum for the Indian Medical Graduate, 2018. Vol 1; pg 41–80.

²Miller GE. The assessment of clinical skills/competence/performance. Acad Med 1990;65(9 Suppl):S63–7.

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Competency Index

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AN14.1	Features of individual bones (Lower Limb): Identify the given bone, its side, important features and keep it in anatomical position.	2, 3, 4
AN14.2	Identify and describe joints formed by the given bone.	
AN14.3	Describe the importance of ossification of lower end of femur and upper end of tibia.	3, 4
AN14.4	Identify and name various bones in the articulated foot with individual muscle attachment.	5
AN15.1	Describe and demonstrate origin, course, relations, branches or tributaries, termination of important nerves and vessels of anterior thigh.	6, 7, 8
AN15.2	Describe and demonstrate major muscles with their attachment, nerve supply and actions.	6, 8
AN15.3	Describe and demonstrate boundaries, floor, roof and contents of femoral Triangle.	7
AN15.4	Explain anatomical basis of psoas abscess and femoral hernia.	6
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AN16.1	Describe and demonstrate origin, course, relations, branches or tributaries, termination of important nerves and vessels of gluteal region.	10
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AN16.3	Explain the anatomical basis of Trendelenburg sign.	10
AN16.4	Describe and demonstrate the hamstrings group of muscles with their attachment, nerve supply, and actions.	11
AN16.5	Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh.	11
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AN17.1	Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the hip joint.	12
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<i>Competency[§]</i>	<i>Competency title</i>	<i>Chapter number</i>
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[§]Medical Council of India, Competency Based Undergraduate Curriculum for the Indian Medical Graduate, 2018. Vol 1; pg 41–80.