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THORAX: The online respiratory auscultation experience

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Learning lung sounds (auscultation) requires repetitive listening to different areas of the chest. This virtual reality tool will assist students in knowing where to place the stethoscope on the chest to enable them to differentiate between normal and abnormal chest sounds in clinical practice. The THORAX is developed as a tool that can be uploaded to any virtual learning environment and utilizes a rotatable torso with full sets of lungs sound were recorded from individual patients; thus providing an authentic experience of full respiratory auscultation. THORAX consists of two sections. The first section is a training section that utilizes sanitized and filtered lungs sounds to acclimatize the student to the variant sounds possible. The second section utilizes sets of recordings that consist of 12 recordings per patient. These recordings will enable students to localize problems to particular lobes and also contain ambient sounds such as the heart and gut sounds that contribute to authentic lung auscultation.

Biography

Ehsan Khan has completed his PhD in Physiology from King's College London and has been a Registered Nurse. He is currently working as Lecturer in King's College London. He is Academic Lead for development and utilization of online learning in the faculty and is involved in research and teaching of biosciences in nursing. He has published more than 30 papers and a number of book chapters primarily related to physiology and pharmacology in nursing.