

## Fundamentals for Emergency and Acute Care Physicians

I am always a little bit sceptical when I am offered an educational CD-rom. When I was asked to review “CHALLENGER EM ULTRASOUND - Fundamentals for Emergency and Acute Care Physicians”, I once again had this feeling.

After being through the entire CD I must say that I am completely surprised.

Challenger EM ultrasound consists of 10 well organised chapters which takes you through the whole spectrum of emergency ultrasound (and a lot more). It starts with the very basic and important ultrasound theory (physics, image- orientation, optimisation and pitfalls) and leaves you skilled at a very high level. This CD is an excellent tool for novices, who are willing to spend some hours - not only to be introduced to clinical ultrasound but also to achieve a substantial amount knowledge.

The CD contains excellent schematic drawings, 2D still pictures and movies, a great help to understand the normal and pathological findings. The user adjusted zoom- and label function facilitate the image interpretation, although labelling could have been more extensive e.g. among the lung ultrasound images, which traditionally are difficult to decode. The interactive feature, where the user can change the orientation of the transducer by means of the mouse or track ball and simultaneously watch the dynamic change in the ultrasound image is – AMAZING.

You will find many valuable clinical cases, although the image and video quality are not always the best, but this corresponds nicely with the real life.

Each chapter is accompanied by a number of highly relevant questions which not only allows you to check what you have learned but also serves as a syllabus.

The final chapter takes you through ultrasound guidance of different important procedures. After having fulfilled this chapter you are able to use ultrasound to “hit the target” in a much easier way. This chapter should be mandatory to every physician who inserts needles and devices into patients – especially those colleagues who claim that they never are in trouble during invasive procedures!!

If I should look for one negative sentence, I would say that some of the chapters seem a little bit too comprehensive for the ultrasound novice. However, this is not a big problem since you can surpass these sections by pressing one of the available bottoms.

If you are interested in clinical and emergency ultrasound you will be happy with this CD.



### Challenger EM Ultrasound Fundamentals for Emergency and Acute Care Physicians

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