Ultrasound has been introduced recently for performing regional anesthesia. The aim of this lecture is to have a critical evaluation of its real advantages taking into account the large increase of the costs associated with this technique. The questions to be answered according to the best evidence-based medicine are:

- Is the success rate improved?
- Is the complication rate decreased?
- Is the technique susceptible to create new problems?
- What is the real benefit/cost of this technique?

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