HISTORY OF THE ULTRASOUND MACHINE
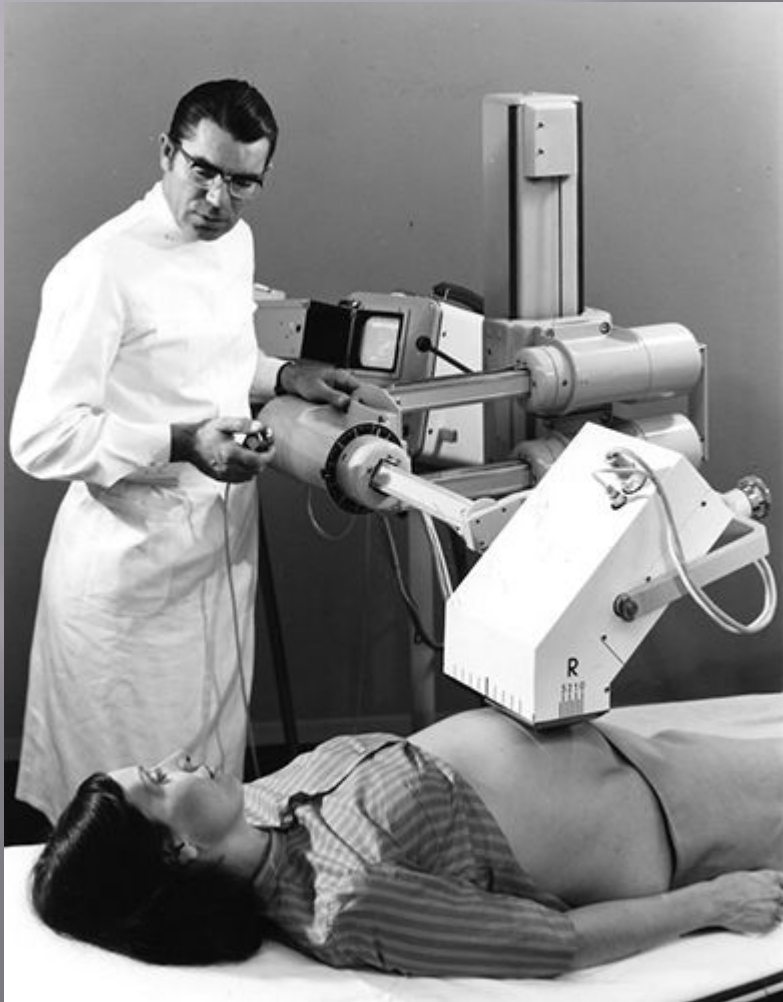

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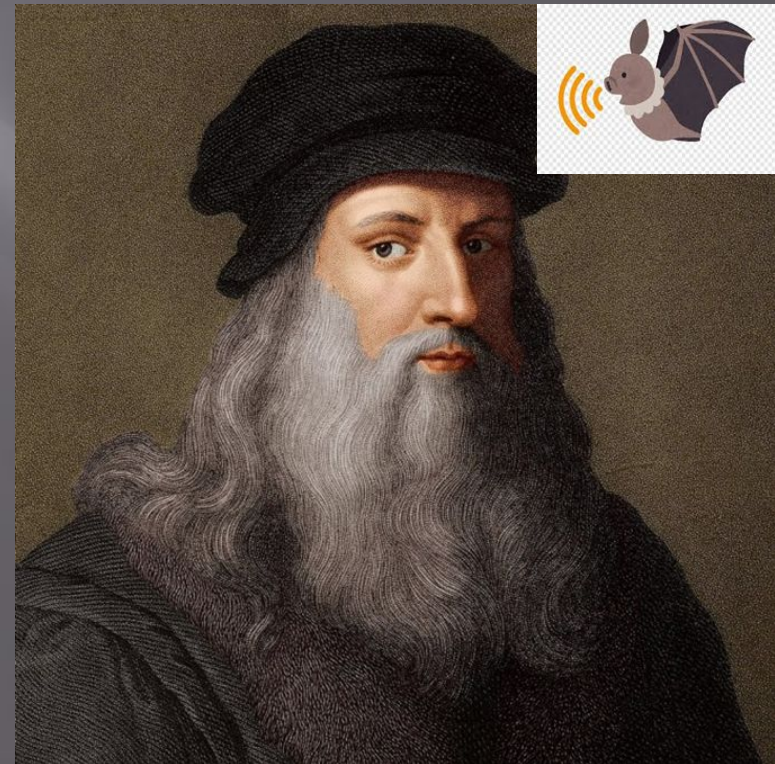Scientific Advisor:Maslova S.M.

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Lazzaro Spallanzani Leonardo da Vinci and the Bat

- The presence of sound waves that are not perceived by humans has been guessed for a long time. Back in the XV century, Leonardo da Vinci immersed a tube in water, trying to determine the distance between moving ships

- In the XVIII century, the Italian scientist Lazzaro Spallanzani noticed that if you plug the ears of bats, they lose orientation in space. Then it was suggested that mice orient themselves with the help of radiated and perceived rays, which were called ultrasound

At the end of the XIX century, ultrasound began to be used in industry, it helped to detect a defect in metal products. This property, by the way, is actively used now, especially in the military industry
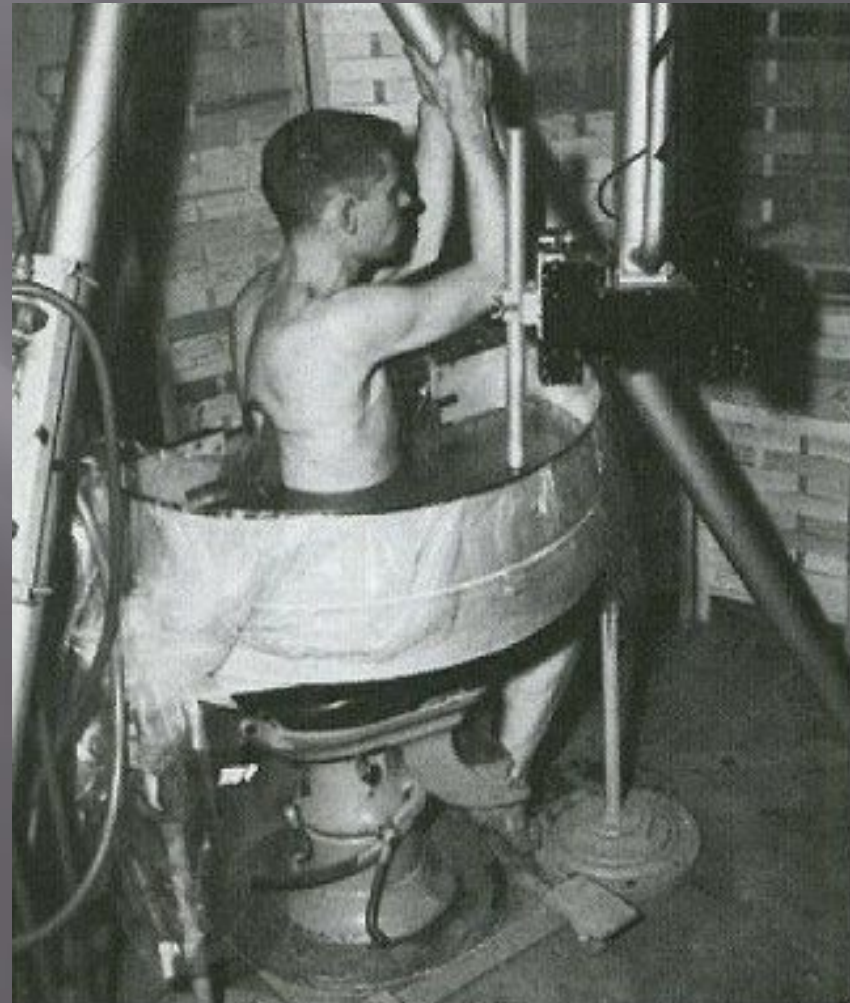
Ultrasound in medicine

- Only in the 20-30s of the last century ultrasound appeared in medicine - in physiotherapy to reduce pain and in the treatment of certain diseases

The first ultrasound machine

- The first diagnostic techniques were proposed by scientists in the 40s. In 1949, the American Douglas Khouri and his team created the first medical ultrasound device based on the principle of contact scanning. It was a liquid tank where the patient sat for a long time and motionless while an abdominal scanner moved around him

Ultrasound machine in the USSR

- In the 60s, the production of ultrasound scanners was also established in the Soviet Union. A number of models have been created for use in neurology, cardiology, ophthalmology

Modern technologies in ultrasound scanning

- Methods of ultrasound diagnostics continue to develop actively

Thanks for your attention!