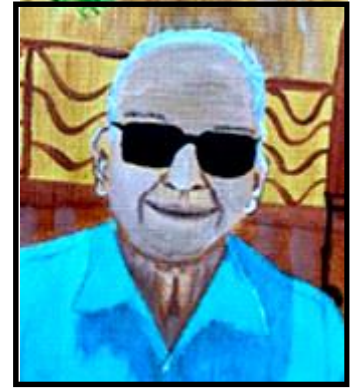




← This photograph of Dr. P. D Gupta (at Masroor Temple, Himachal Pradesh) was painted by his daughter, Dr. Alpana Gupta, and dedicated to him with love and affection at the occasion of his 81st birthday.



## Listen to your blood, it tells stories too

A Cell is the Unit of the body, a group of similar cells makes a tissue, and different tissues make an organ, collection of organs in a order makes a system and putting systems together makes a body. In this body blood is the only “Liquid Organ” which moves in the whole body, keeps it alive by providing oxygen and nutrients and takes away toxins from it.

Most ancient health science “Ayurveda” had recognized that you can listen blood by holding blood vessels at certain points by your finger tips on the body, you can listen what it tells (Fig.1).



Encouraged by this, in 1816, French physician Rene Laennec (Fig.2) invented the first stethoscope using a long, rolled paper tube to funnel the sound from the patient’s chest to his ear.

## Evolution of the stethoscope



Fig. 2: Rene Laennec , History of Stethoscope

The next is ultrasound machine which makes images of internal organs without opening the body. The machine sends out high-frequency sound waves, which reflect off body structures. A computer receives the waves and uses them to create a picture. Ultrasound is a useful way of examining many of the body’s internal organs. As for the blood is concerned the heart and blood vessels, including the abdominal aorta and its major branches can be scanned. The Doppler flow meter gauges the speed and control of blood flow by

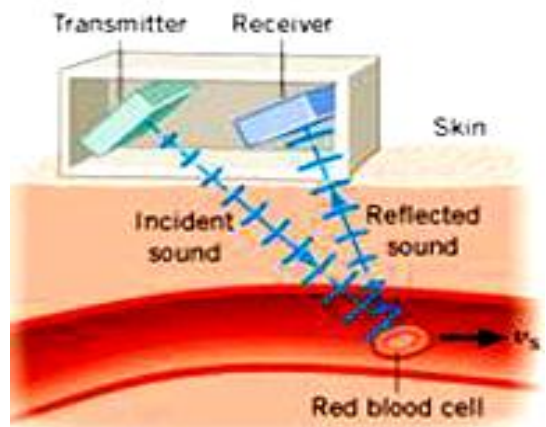


Fig. 3: Doppler Flow Meter