The Hand Ultrasound Technique Versus the Conventional Stethoscope in Cardiology: A Best and Reliable Instrument in Cardiology

Henry Collet Camarillo¹, Daniel Collet Salgueiro¹, Freddy Contreras² and Manuel Velasco²*

¹Dr. Collet’s Cardiovascular Unit, Clinica Avila, Caracas, Venezuela
²Professor, Clinical Pharmacology Unit, Vargas Medical School, Central University of Venezuela, Caracas, Venezuela
*Corresponding Author: Manuel Velasco, Professor, Clinical Pharmacology Unit, Vargas Medical School, Central University of Venezuela, Caracas, Venezuela.

Received: May 28, 2020; Published: June 12, 2020

The new hand-held packed ultrasound versus the conventional stethoscope in covid-19 pandemic is under our preliminary experience.

The conventional stethoscope was invented by Professor Laennec in the Necker-Maladies Hospital of Paris, France in 1816, two hundred years ago until our days. The conventional stethoscope was used under auscultation in all body. This methodology requires auscultation as we use the stethoscope to rule out cardiac problems such as aortic stenosis, mitral insufficiency, aortic insufficiency, mitral stenosis etc. We call these murmurs rash, musical, holosystolic, systolic, diastolic, continuous like persistent conduct arteriosus, auricular ventricular fistula, rupture of sinus of Valsalva, or irradiation to the left axial in mitral insufficiency irritation to the neck in aortic stenosis.

We can also detect murmurs in the ocular system.

Graves Basedow syndrome, cavernous carotid fistula and lungs: to detect crackles, roncus, bulososor crepitations in abdomen: to check bowel sound, murmur from aortic aneurism. or lower limbs to detect venous thrombosis and interesting sounds in aortic insufficiency and in carotid arteries: murmurs for carotids stenosis, o decrease or absent sounds.

In the last 10 years the different companies such as butterfly, lumifi from philips, clarius has develops different types of hand held packed ultrasound techniques which show different uses in ICU, emergency wards, out patients clinics, catheterization laboratories, and in sports to rule out muscle hematomæ, cerebral contusion, and rupture of muscles and also to induces, neuro blockade in patients with severe pain. Professor. Eric Topol has mentioned and consider the stethoscope is an old methodology.

The butterfly device is made by Gilford, Connecticut, USA and this is the first no piezoelectric probe with artificial intelligence and silicon probes, and one can check thirteen set up, you can also use transcranial, muscle, cardiac, abdomen, carotid arteries, thyroid and lower limbs pelvis, lungs in decubito and supin positions in patients with covid-19 and for vascular detection problems the lumify device is an excellent tool but is different the probe, is piezoelectric like the others. In times of these pandemic is a helpful instrument with a strict protocol of biosecurity and cleaning of this device. In ICU with d dimer elevated interleukin 6, PCR increased. we may use this device to rule out in interstitial lungs pattern, consolidation, pleura effusion, and pulmonary embolism.

In conclusion we are in the era of the new acoustic device hand-held ultrasound technique and is helpful in this pandemic.

Volume 8 Issue 7 July 2020
©All rights reserved by Manuel Velasco, et al.