



DEPARTMENT OF CARDIOLOGY

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JI/CARD/CER/HD/10-11/75

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CERTIFICATE OF PERFORMANCE

This is to certify that a detailed evaluation was carried out for the ViScope 100, an Electronic Phonocardiograph and Stethoscope device manufactured by HD Medical Group Limited.

A total of 48 patients were evaluated before and after Echocardiography in the Outpatient section of the Department on 28th, 29th and 30th of July 2010. The following are my observations.

1. The device is an extremely good innovation which incorporates both audio and graphic display of Heart Sounds and Murmurs.
2. The device is able to pick up all the Heart Sounds including S1,S2 (A2,P2), S3, S4, Ejection Clicks, Mitral Valve Prolapse Click, Opening Snaps etc and is able to display them accurately.
3. The Device has a good sensitivity in picking up Systolic, Diastolic and Continuous Murmurs and can be used as a good screening device for the detection of murmurs in the population at large even by paramedical workers and nursing staff.

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4. The device is a good teaching tool to inculcate interest in the Undergraduates as the description of the murmurs could be graphically displayed in “real-time” for their benefit. The murmurs and sounds are traditionally taught by the art of “Tuning in” which the M.B.,B.S students take time to comprehend. This device would help them to identify the murmur and obtain a graphic display and by repeated listening and recording would help them to master the murmurs and sounds.
5. Even for Post-Graduates in Medicine or Pediatrics this would be of immense benefit particularly to appreciate sounds like S4 in cases of Angina, Hypertension, and Clicks in Pulmonary Stenosis etc thereby increasing their diagnostic skills and accuracy.
6. I have used this device in a camp in the rural area and found it to be an useful tool in the screening of population and thus this device can be used for screening purposes which could prompt the physician to go ahead for further assessment like ECG and ECHO.
7. This device has a good archiving facility and the graphic display is obtained on a Lap-Top computer which could then be transmitted through Telemedicine from PHCs to Medical Colleges and opinion of Specialists obtained. Thus this device has immense potential for widespread use.
8. Therefore the device in its current form can be eminently used for the detection of Normal and Abnormal Heart Sounds and Murmurs.
9. This device would reinvent the sthethoscope for the Cardiologist which is rapidly becoming a “Lost Art” in view of the Technological Advances in the field of Cardiology like Echocardiography.
10. The addition of a single lead ECG to the graphic display of the Sounds and Murmurs would greatly enhance the diagnostic ability and make it one of the best tools in the clinical evaluation.

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COPY TO THE DIRECTOR JIPMER

**J.BALACHANDER
PROFESSOR AND HEAD OF DEPARTMENT**

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