VS-900

Self Assessment

Workbook

![mindray™]

SELF DIRECTED LEARNING

AND

SELF ASSESSMENT

The purpose of this self assessment document is to support the practitioner in identifying their own learning needs and to provide structured learning and assessment criteria.

The statements are intended to indicate a level of self assessment in order to facilitate a basic operational understanding of the Mindray patient monitor and its associated parameters.

It is structured so that the learner will develop knowledge, skills and confidence in the appropriate utilisation of the monitor within their own clinical speciality.

This document is not intended to replace the user manual but to work in conjunction with it.

"In its broadest meaning, 'self-directed learning' describes a process by which individuals take the initiative, with or without the assistance of others, in diagnosing their learning needs, formulating learning goals, identify human and material resources for learning, choosing and implement appropriate learning strategies, and evaluating learning outcomes."

(Knowles, 1975)

Signed (Practitioner)	
Position	
Department	
Date	
Signed (Assessor)	
Position	
Date	
RE ASSESSMENT DATE	

The VS -900 is an 8" colour LED display monitor.

It is intended to monitor physiological parameters including NIBP, SpO$_2$, PR and optional predictive temperature within adult, paediatric and neonatal patient groups.

The monitor can be operated in 'spot check' mode or 'continuous monitoring' mode with options for Clinical Scoring and wireless connectivity to hospital systems.

Alarm Indicator

Touch Screen

A/C Power Indicator

Power On/Off

Navigation Dial

Battery Indicator

Alarm Silence **Key**   NIBP Start/Stop **key**   Admit Patient key

Safety	Yes	No	Comment
Describe a visual safety check of the monitor.			
Be familiar with local policy in relation to cleaning the monitor and cables.			
Lock and unlock the touch screen.			

Basic Operation	Yes	No	Comment
Recognise visual indicator verifying mains power connection / monitor powered by the battery.			
Describe meaning and implications of the following symbols.			
Switch monitor on/off and place in and out of standby.			
Identify and understand function of quick keys, hard keys and navigation dial.			
Adjust key volume, alarm volume and screen brightness.			
Load a pre-set configuration.			

Patient Management	Yes	No	Comment
Admit patient to the monitor.			
Save patient data.			
Review patient data in spot check mode (if available).			
Review patient data in continuous monitoring mode and change data interval.			
Display graphic trends.			

Alarms	Yes	No	Comment
Describe the difference between physiological alarms and technical alarms.			
Distinguish between the 3 alarm levels, recognising audible tones and colour coded alarm lamp.			
Be aware of implications of improper alarm values.			
Adjust alarm limits.			
Understand implications of using 'Auto Set' option.			
Demonstrate how to silence alarms and understand the implications.			
Demonstrate how to pause alarms and understand the implication			
Be aware of actions required in event of alarm condition.			

These guidelines do **NOT** replace the instructions for use and all users should refer to the appropriate **Operator's Manual** for detailed instructions.
The Illustrations may not necessarily reflect the setup or data displayed on your device.

Alarms	Yes	No	Comment
Identify the following symbols;			
Aware of the actions required in event of alarm condition.			

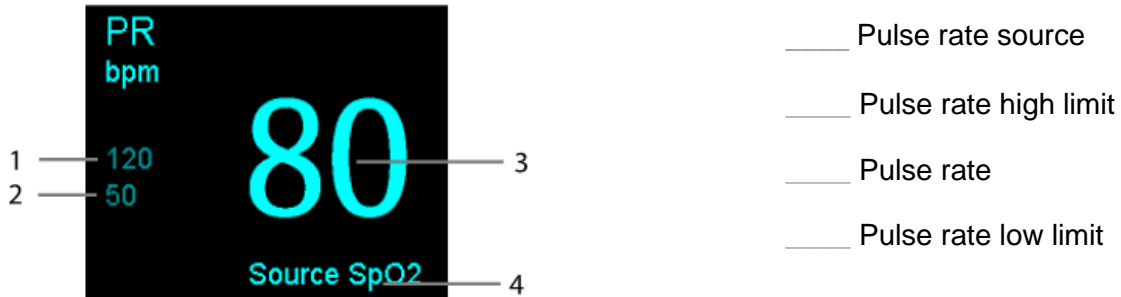| Monitoring SpO₂	Yes	No	Comment
Select appropriate sensor for patient category & weight.			
Access SpO₂, menu to adjust sensitivity.			
Access SpO₂, desat menu and adjust according to patient condition.			
Be aware of how to set Sat Seconds function. (Nellcor technology only).			
Identify clinical/environmental factors which may affect SpO₂, accuracy.			
Number labels in Diagram 1.			

Diagram 1:
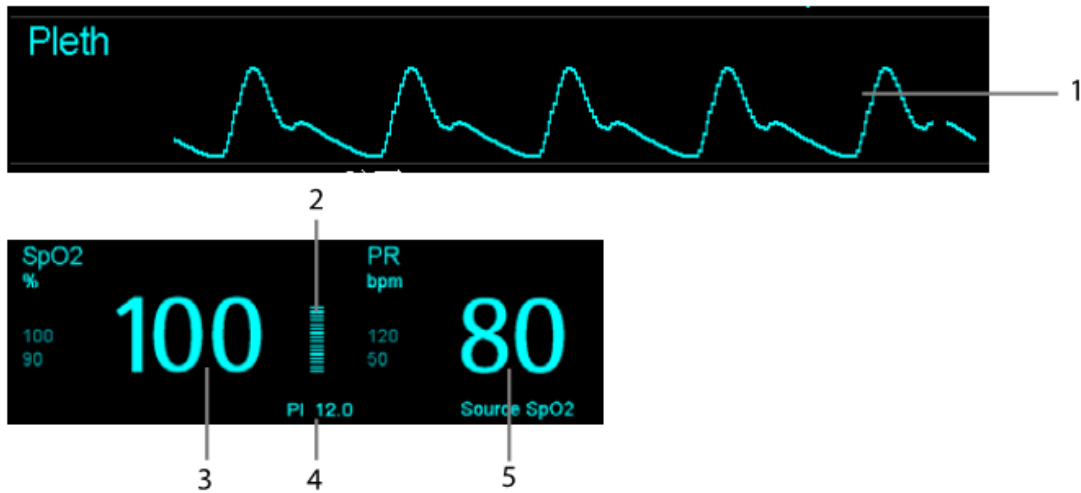
_____ Perfusion index   _____ Pleth waveform

_____ Perfusion indicator   _____ Pulse rate

_____ Oxygen saturation of arterial blood

Monitoring Pulse Rate (PR)	Yes	No	Comment
Access PR menu to change beat volume.			
Number labels in Diagram 2			

Diagram 2:

_____ Pulse rate source

_____ Pulse rate high limit

_____ Pulse rate

_____ Pulse rate low limit

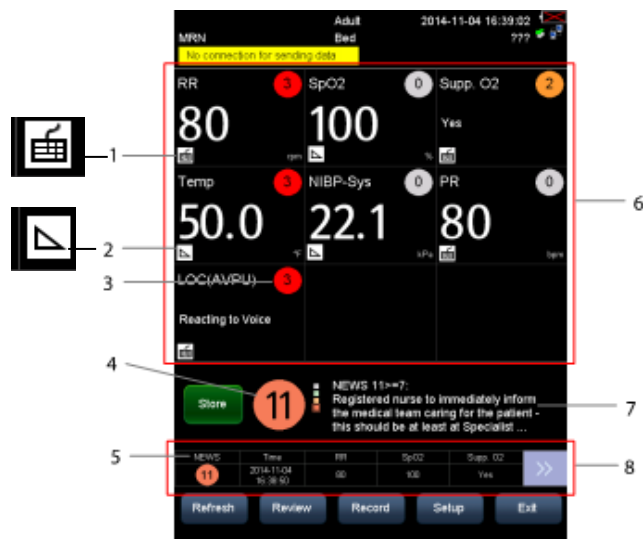| Monitoring NIBP	Yes	No	Comment
Understand venepuncture function.			
Select appropriate cuff for patient category & arm circumference.			
Set NIBP in: Monitor mode. / Spot check mode (if available)			
Select NIBP interval in monitor mode.			
Set custom programme in monitor mode.			
Understand the implications of enabling/disabling clock measurement.			
Start and stop NIBP using hard key.			
Number labels in Diagram 3.			

Diagram 3:
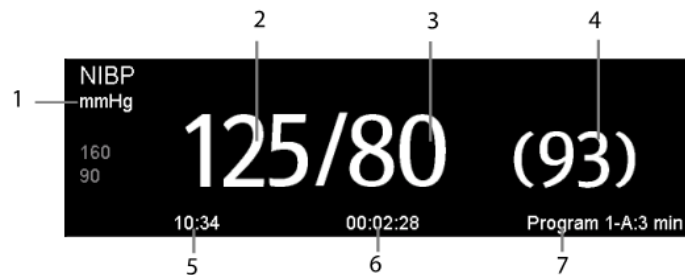
_____ Time of last measurement   _____ Mean pressure   _____ Systolic pressure

_____ Measurement mode   _____ Unit of pressure   _____ Diastolic pressure

_____ Time remaining to next measurement

Monitoring Temperature	Yes	No	Comment
Access patient menu to set measurement site.			
Explain application of: Red temperature probe. Blue temperature probe.			
Prepare temperature probe for use.			
Appropriately position temperature probe: Rectal. (if available) Axilla. Oral.			
Be aware of difference between temperature measurements in; Predictive mode. Measurement mode.			

Clinical Scoring	Yes	No	Comment
Be aware of local policy in relation to appropriate and intended use of clinical scoring.			
Access Clinical Scoring screen and manually enter parameter data.			
Understand individual parameter scores, total score and recommended clinical responses.			
Number labels in Diagram 4.			

Diagram 4:

_____ Recommended clinical response   _____ Total score

_____ Clinical scoring name   _____ Parameter area

_____ Icon for manual data input   _____ Icon for real time monitoring

_____ Individual parameter score   _____ Most recent score list

Using the Recorder (If available)	Yes	No	Comment
Recognise the meaning and implication of the visual indicator when the indicator is: On. 　　　　　　　　　　　　　Flashing.			
Start/stop recordings.			
Unload and reload thermal recorder paper.			
Understand removal of paper jams,			